

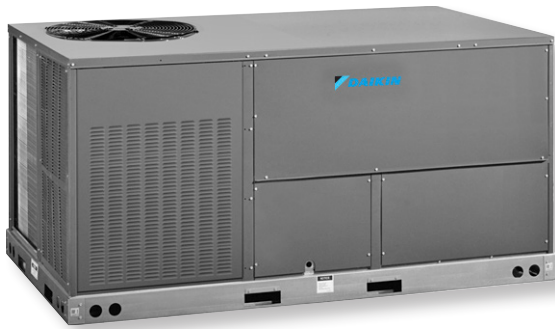
Light Commercial Packaged Air Conditioners

DCC (Cooling Only)

DCG (Gas Heat)

DCH (Heat Pump)

3 through 20 Tons



3.0 to 6.0 Ton Units



7.5 to 12.5 Ton Units



15 and 20 Ton Units

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Nomenclature

	<u>DC</u>	<u>C</u>	<u>036</u>	<u>015</u>	<u>3</u>	<u>B</u>	<u>*</u>	<u>*</u>	<u>*</u>	<u>A</u>	<u>*</u>
	1	2	3	4	5	6	7	8	9, 10	9, 10	9, 10

Application

C = Cooling
G = Gas Heat
H = Heat Pump

Nominal Gross Cooling Capacity

036 = 3 tons	102 = 8.5 tons
048 = 4 tons	120 = 10 tons
060 = 5 tons	150 = 12.5 tons
072 = 6 tons	**180/181 = 15 tons
090 = 7.5 tons	**240 = 20 tons

Nominal Gross Heating Capacity

DCG	DCC/DCH (Factory-Installed Electric Heat)
045 = 45,000 BTU/h	XXX = No Heat
090 = 90,000 BTU/h	010 = 10 kW
115 = 115,000 BTU/h	015 = 15 kW
140 = 140,000 BTU/h	016 = 16 kW
210 = 210,000 BTU/h	018 = 18 kW
350 = 350,000 BTU/h	020 = 20 kW
400 = 400,000 BTU/h	025 = 25 kW
	030 = 30 kW
	031 = 30 kW
	045 = 45 kW
	046 = 45 kW
	060 = 60 kW
	075 = 75 kW

Voltage

1 = 208-230/1/60
3 = 208-230/3/60
4 = 460/3/60
7 = 575/3/60

Supply Fan/Drive Type/Motor

B = Belt-Drive
D = Direct-Drive
*V = 2-Speed Belt-Drive

Factory-Installed Options

X = No Options
A = Downflow Economizer
H = Disconnect Switch (Non-Fused)
J = Downflow Economizer, Disconnect Switch (Non-Fused)

Revision Levels
Major and Minor

Factory-Installed Options

X = No Options outlet
A = Non-powered convenience outlet
B = Powered convenience outlet
C = Low-ambient kit
D = Return air smoke detector
E = Supply air smoke detector
F = Non-powered convenience outlet; Low-ambient kit
G = Non-powered convenience outlet; Return air smoke detector
H = Non-powered convenience outlet; Supply air smoke detectors
J = Non-powered convenience outlet; Return & Supply air smoke detectors
K = Non-powered convenience outlet; Low-ambient kit; Supply air smoke detector
L = Non-powered convenience outlet; Low-ambient kit; Return & Supply air smoke detectors
M = Powered convenience outlet; Low-ambient kit
N = Powered convenience outlet; Return air smoke detector
O = Powered convenience outlet; Return & Supply air smoke detectors
P = Powered convenience outlet; Supply air smoke detector
Q = Powered convenience outlet; Low-ambient kit; Return air smoke detector
R = Powered convenience outlet; Low-ambient kit; Supply air smoke detector
T = Powered convenience outlet; Low-ambient kit; Return & Supply air smoke detectors
U = Non-powered convenience outlet; Low-ambient kit; Return air smoke detector;
V = Low-ambient kit; Return air smoke detector
W = Low-ambient kit; Supply air smoke detector
Y = Low-ambient kit; Return & Supply air smoke detectors
Z = Return & Supply air smoke detectors

Factory-Installed Options

X = Standard Aluminized Heat Exchanger
S = Stainless-Steel Heat Exchange

NOTE: Not all options available for all products.

* Available on 10, 12.5, 15 & 20 ton units only

** Available on DCC and DCG models only

The HVAC Solution for Low Rise Buildings

All Daikin Applied commercial packaged air conditioners feature scroll compressors with R-410A refrigerant offering maximum reliability and quiet operation. Packaged air conditioners come in a variety of configurations including; cooling only, air conditioning with gas heat, heat pump package units and air conditioner and heat pump packages with electric heat. Unit cabinets are constructed with heavy gauge galvanized-steel with a UV-resistant powder-paint finish for durability that also minimizes air leakage rates. A compact unit foot print, with a three-side, fork-able, full-perimeter base rail allows for easy maneuvering and installation.

All units are provided with access panels to mechanical components, which reduces startup and installation time. They also promote routine maintenance which can reduce operating costs over the lifetime of the unit. Number-coded and color-coded wiring helps facilitate service and maintenance.

There are many factory-installed options ranging from air-side economizers, 2-position dampers, convenience outlets, disconnect switches and smoke detectors. This component reduces compressor operation when outdoor air conditions are suitable for optimized energy savings.

Aluminized steel heat exchanger with in-shot burners are standard and help eliminate corrosion. Stainless steel heat exchangers are available as an option. Units are designed with convertible horizontal or vertical airflow allowing for maximum field installation flexibility. Several drive options accommodate a wide range of design conditions to meet your application needs. Factory-installed compressor high and low-pressure safety switches are standard.

Factory-Installed Options

(Field installed accessories starting on page 99)

- **Stainless-Steel Heat Exchanger (DCG units only):** A tubular heat exchanger made of 409-type stainless steel is installed in the unit.
- **Low Ambient Kit:** Allows for cooling operation at lower outdoor temperatures. On the 3- to 6-ton units, cooling operation is extended from 60°F ambient temperature to 35°F outside air temperature. On 7½- to 20-ton units, cooling operation is extended from 35°F ambient temperature to 0°F outside air temperature.
- **Economizers (Downflow):** Based on air conditions, can provide outside air to cool the space.
- **Electric Heat Kits (DCC and DCH units only):** Available in all voltage options.
- **Non-powered Convenience Outlet:** A 120V, 15A, GFCI outlet makes it easier for technicians to service the unit once an electrician runs power to the outlet.
- **Powered Convenience Outlet:** A 120V, 15A, GFCI outlet powered with a transformer built into the unit; for use when unit is not running.
- **Disconnect Switch (non-fused):** A disconnect switch is installed in the unit and factory wiring will be complete from the switch to the unit. Please note that for air conditioning (DCC units) and heat pump models (DCH units), the appropriate electric heat kit must be ordered to be factory-installed along with the disconnect switch (non-fused) when it is ordered. Please note that for models with a powered convenience outlet option and a disconnect switch (non-fused) option, the power to the powered convenience outlet will be shut off when the disconnect switch (non-fused) is in the off position.
- **Return Air and/or Supply Air Smoke Detectors:** Return air and/or supply air smoke detectors are installed in the unit.



Standard Features

Scroll Compressors

- Uses environmentally-friendly R-410A refrigerant
- Provides maximum dependability and efficiency with quiet operation
- On larger units, two refrigerant circuits provide efficient part-load performance. Low and high pressure safety switches are standard
- For dependable operation a high-capacity, steel-cased filter drier on all refrigerant circuits are provided for moisture removal

Durable Construction

- Built with heavy-gauge sheet metal for durability and low leakage rates
- Galvanized-steel cabinet with UV resistant powder-paint finish
- ¾-inch foil face insulation with mechanical fasteners helps prevent insulation damage and provides better IAQ
- Easy access panels on filter, fan and control sections provides quick access to system components

Double Sloped Drain Pan

- Avoids standing water for higher IAQ and prevents corrosion

AHRI Certified; ETL Listed

Optional Features

Gas Heat (DCG units only)

- TuffTube™ tubular heat exchanger with in-shot burners is provided for maximum heat transfer
- 409-type stainless steel heat exchangers are available
- Two-stage gas valve with direct spark ignition provide greater efficiency. (not available on low capacity, DCG 036 furnace)

Louvered Panels

- Added protection for condenser coils from hail or other physical damage
- Standard on 15 and 20 ton units; field-installed accessory on 3–12½ ton units

Low Ambient Kit*

- Allows cooling operation at lower outdoor temperatures

Economizers* or 0–25% Outdoor Air

- Provides space cooling with outside air depending on conditions
- Field-installed exhaust fan available with economizers

High Static Kit

- Field-installed, this option is available for all sizes

Electric Heat Kit*

- DCC and DCH units only, kits available in all voltages

Convenience Outlet*

- Powered, a 120V, 15A GFCI outlet with transformer is factory-installed
- Non-powered, a 120V, 15A GFCI outlet with transformer is factory-installed but needs field hook up

Disconnect Switch*

- A non-fused disconnect switch is factory-installed and wired

Smoke Detector*

- Return and/or supply air smoke detectors are factory-installed

* Factory- or field-installed

Table 1: Product Specifications—DCC 036-072

	Three Phase			
	DCC036	DCC048	DCC060	DCC072
Cooling Capacity				
Total BTU/h	34,600	45,500	59,500	71,000
Sensible BTU/h	25,600	35,000	42,800	49,800
SEER/EER (EER/IEER for 072)	13.0/11.0	13.0/11.3	13.0/11.1	11.2/11.4
Decibels	78			
Evaporator Motor/Coil				
Motor Type	Belt-Drive			
Indoor Nominal CFM	1,200	1,600	2,000	2,300
Horsepower - RPM	1.0 ^{1, 2}			1.5 ¹
Filter Size (Quantity)	(1) 24"×24"×2"	(4) 14"×20"×2"	(4) 14"×20"×2"	(4) 16"×20"×2"
Drain Size (NPT)	¾"			
Evaporator Coil Face Area (ft ²)	5.4	7.0	7.8	8.9
Expansion Device	Orifice			
Rows Deep/Fins per inch	3/16	4/16		
Evaporator Fan				
Standard Direct-Drive (D×W)/HP	—			
Standard Belt-Drive (D×W)/HP	(11"×10") 1 ²			(11"×10") 1½
High-Static Belt-Drive (D×W)/HP	1½			2.0
Maximum External Static Pressure (In. W.C.)	1.2/1.8			1.2/2.0
Number of Wheels (D×W)	1 (11"×10")			
Motor Sheave	1VL40×¾	VL44×¾		VL44×¾
Blower Sheave/Belt	AK69×1 / AX52	AK66×1 / AX52	AK61×1 / AX52	AK59×1 / AX53
Condenser Fan/Coil				
Condenser Fan Motors (Quantity)	1			
Horsepower - RPM	¼ / 1,090 ³			½ / 1,075
Fan Diameter/Number of Blades	22/4			
Outdoor Nominal CFM	3,800			4,200
Face Area (ft ²)	17.0	13.0		19.0
Rows Deep/Fins per Inch	1/24	2/27		2/27
Compressor				
Quantity/Type	1/Scroll			
Stage	Single			
Unit Weights				
Operating Weight (lbs)	500	535	580	625
Shipping Weight (lbs)	525	560	595	650

Note:

1. Evaporator Fan motor RPM varies for unit size and voltage between 1,000-1,725 RPM
2. 1½ HP Standard Belt-Drive Fan Motor for 575 V units
3. Condenser Fan Motor RPM varies for unit size and voltage between 890-1,090 RPM

Table 2: Product Specifications—DCG 036-072

	Three Phase							
	DCG036		DCG048		DCG060		DCG072	
Cooling Capacity								
Total BTU/h	34,600		45,500		59,500		71,000	
Sensible BTU/h	25,600		35,000		42,800		49,800	
SEER/EER (EER/IEER for 072)	13.0/11.0		13.0/11.3		13.0/11.1		11.0/11.2	
Decibels	78							
Heating Capacity								
Furnace Sizes	45	90	90	115	90	138	138	
Number of Stages	1	2	2		2		2	
Number of Burners	2	4	4	5	4	6	6	
High Input/Output (kBtu/h)	46.0/36.8	92.0/74.0	92.0/74.0	115.0/92.0	92.0/74.0	138.0/110.4	138.0/110.4	
Low Input/Output (kBtu/h)	—	69.0/55.0	69.0/55.0	86.25/69.0	69.0/55.0	103.0/83.0	103.0/83.0	
Steady State Efficiency (AFUE)	80							
High Temperature Rise Range (°F)	25-55	40-70	30-60	40-70	20-50	35-65	30-65	
Low Temperature Rise Range (°F)	—	30-60	15-45	25-55	15-45	25-55	15-45	
Evaporator Motor/Coil								
Motor Type	Belt-Drive							
Indoor Nominal CFM	1,200		1,600		1,900		2,350	
Horsepower - RPM*	1/3 - 890		1/2 - 1,000		—		1.5 - 1,725	
Number of Wheels (D×W)	1 (10"×9")				1 (11"×10")			
Piston Size (Cooling)	0.072		0.076		0.086		0.094	
Filter Size (Quantity)	(1) 24"×24"×2"		(4) 14"×20"×2"				(4) 16"×20"×2"	
Drain Size (NPT)	3/4"							
Evaporator Coil Face Area (ft ²)	5.4		7.0		7.8		8.9	
Expansion Device	Orifice							
Rows Deep/Fins per inch	4/16							
Evaporator Fan								
Standard Belt-Drive (D×W)/HP	(11"×10") 1 ^{1, 2, 4}							
High-Static Belt-Drive (D×W)/HP	1.5							
Maximum External Static Pressure (In. W.C.) Standard/High Static Units	1.2/1.8						1.2/2.0	
Number of Wheels (D×W)	1 (11"×10")							
Motor Sheave	VL40×3/8"		VL44×3/8"		VL44×3/8"		VL44×3/8"	
Blower Sheave/Belt	AK69×1 / AX52		AK66×1 / AX52		AK61×1 / AX53		AK59×1 / AX53	
Condenser Fan/Coil								
Condenser Fan Motors (Quantity)	1							
Horsepower - RPM	1/4 / 1,090				1/2 / 1,075			
Fan Diameter/Number of Blades	22/4							
Outdoor Nominal CFM	3,800				4,300			
Face Area (ft ²)	17.0 ²				19.0 ²			
Rows Deep/Fins per Inch	1/24 ³				2/27 ³			
Compressor								
Quantity/Type	1/Scroll							
Stage	Single							
Unit Weights								
Operating Weight (lbs)	525/530		575/580		620/630		675	
Shipping Weight (lbs)	550/560		600/605		635/645		700	

Note:

1. Evaporator Fan motor RPM varies for unit size and voltage between 1,000-1,725 RPM
2. Face area for Condenser: 18 sq.ft for 460 V units; 13.0 sq.ft. for 575 V units
3. Condenser Coil Rows, Deep/FPI: 1/22 for 460V units; 2/16 for 575V units
4. 1 1/2 HP standard belt-drive fan motor on 575V units

Table 3: Product Specifications—DCH 036-072

	Belt-Drive			
	DCH036	DCH048	DCH060	DCH072
Cooling Capacity				
Total BTU/h	35,000	46,000	59,500	70,000
Sensible BTU/h	25,460	34,500	43,200	50,410
SEER/EER (EER/IEER for 072)	13.0/11.0	13.0/11.3	13.0/11.0	11.1/11.2
Decibels	78			
Heating Capacity				
BTU/h – COP* (47°F)	34,600/3.5	45,000/3.5	57,000/3.5	70,000/3.6
BTU/h – COP (17°F)	19,000/2.2	24,800/2.2	32,000/2.2	39,000/2.3
HSPF	7.7			
Evaporator Motor/Coil				
Motor Type	Belt-Drive			
Indoor Nominal CFM	1,200	1,600	1,950	2,400
Horsepower - RPM	1/3 – 890	1/4 – 1,000	1 – 1,050	1.5 – 1,725
Piston Size (Cooling)	0.068	0.076	0.082	0.094
Filter Size (Quantity)	(1) 24"×24"×2"	(4) 14"×20"×2"		(4) 16"×20"×2"
Drain Size (NPT)	3/4"			
Evaporator Coil Face Area (ft ²)	5.4	7.8		8.9
Expansion Device	Orifice			
Rows Deep/Fins per inch	3/16	4/16		
Evaporator Fan				
Standard Belt-Drive (D×W)/HP	(11"×10") 1 ^{1,2}		(11"×10") 1½	
High-Static Belt-Drive (D×W)/HP	1½		2.0	
Maximum External Static Pressure (In. W.C.) Standard/High Static Units	1.2/1.8		1.2/2.0	
Number of Wheels (D×W)	1 (11"×10")		—	
Motor Sheave	VL40×%	VL44×%		VL44×%
Blower Sheave/Belt	AK69×1 / AX52	AK66×1 / AX52	AK61×1 / AX52	AK59×1 / AX52
Condenser Fan/Coil				
Condenser Fan Motors (Quantity)	1			
Horsepower - RPM	1/4 / 1,090 ³		1/3 / 1,075	
Fan Diameter/Number of Blades	22/4			
Outdoor Nominal CFM	3,800		4,300	
Face Area (ft ²)	17.0		18.7	
Rows Deep/Fins per Inch	1/24	2/18		2/20
Compressor				
Quantity/Type	1/Scroll			
Stage	Single			
Unit Weights				
Operating Weight (lbs)	580	585	590	590
Shipping Weight (lbs)	605	610	615	615

Note: * COP for 575V DCH036 is 3.62

1. Evaporator Fan motor RPM varies for unit size and voltage between 1,000–1,725 RPM

2. 1½ HP Standard Belt-Drive Fan Motor for 575 V units

3. Condenser Fan Motor RPM varies for unit size and voltage between 890–1,090 RPM

Table 4: Electrical Data—Compressor and Motor, DCC/DCG 036–072

Voltage–Phase–Frequency	208/230-3-60	460-3-60	575-3-60
036			
Evaporator Motor		Belt-Drive	
Indoor motor FLA (Cooling)	3.8	1.9	2.3
Compressor Motor			
Compressor RLA/LRA	10.5 / 73.0	5.8 / 38.0	3.8 / 36.5
Electrical Data			
Indoor Blower HP/FLA	1 / 3.8	1 / 1.9	1.5 / 2.3
Outdoor Fan HP/FLA	¼ / 1.4	¼ / 0.8	0.60
Total Unit Amps	15.65	8.47	6.68
Min. Circuit Ampacity ¹	18	10	8
Max. Overcurrent Protection (amps) ²	25	15	15
Power Supply Conduit Hole		1.125"	
Low Voltage Conduit Hole		½"	
048			
Evaporator Motor		Belt-Drive	
Indoor Motor FLA (Cooling)	3.8	1.9	2.3
Compressor Motor			
Compressor RLA/LRA	13.1/ 83.1	6.1/ 41	4.4/ 33
Electrical Data			
Outdoor Fan FLA	1.40	0.80	0.60
Total Unit Amps	18.3	8.8	7.3
Min. Circuit Ampacity ¹	22	10	8
Max. Overcurrent Protection (amps) ²	30	15	15
Power Supply Conduit Hole		1.125"	
Low-Voltage Conduit Hole		½"	
060			
Evaporator Motor		Belt-Drive	
Indoor Motor FLA (Cooling)	3.8	1.9	2.3
Compressor Motor			
Compressor RLA / LRA	16 / 110	7.8 / 52	5.7 / 38.9
Electrical Data			
Indoor Blower HP / FLA	1.0 / 3.8	1.0 / 1.9	1.5 / 2.3
Indoor Blower LRA	24	12	12
Max External Static	1.0	1.0	1.0
Outdoor Fan HP / FLA	¼ / 1.40	¼ / 0.80	¼ / 0.60
Min. Circuit Ampacity ¹	25	12	10
Max. Overcurrent Protection (amps) ²	40	20	15
Power Supply Conduit Hole		1.125"	
Low-Voltage Conduit Hole		½"	
072			
Evaporator Motor		Belt-Drive	
Indoor Motor FLA (Cooling)	5.0	2.5	2.3
Compressor Motor			
Compressor RLA / LRA	9.7/62.0	9.7/62.0	7.4/50.0
Electrical Data³			
Quantity of Compressors	1	1	1
Belt-Driven Standard Max Static	1.0	1.0	1.0
Outdoor Fan FLA	1.20	1.20	0.90
Total Unit Amps	13.4	13.4	10.6
Min. Circuit Ampacity ¹	31	16	12
Max. Overcurrent Protection (amps) ²	45	25	15
Entrance Power Supply		1.125"	
Entrance Control Voltage		½"	

1. Wire size should be determined in accordance with National Electric Codes. Extensive wire runs will require larger wire sizes

2. May use fuses or HACR-type circuit breakers of the same size as noted

3. See page 13 for optional high static ESP amps

Note: Always check the S&R plate for electrical data on the unit being installed

Table 5: Electrical Data—Heat Kit (Blower Only, Heat Mode), DCC 036–072

Model & Heat Kit Usage	MCA ¹			MOP ² Amps			Actual kW			Recommended Airflow Range (CFM)
	208/240V	480V	575V	208/240V	480V	575V	240V	480V	575V	
3 Ton										
DCC036										
EHK3-10	30/33	—	—	35/35	—	—	10	—	—	1250–1350
EHK3-15	43/48	—	—	45/50	—	—	15	—	—	1400–1440
EHK4-10	—	17	—	—	20	—	—	10	—	1250–1350
EHK4-15	—	25	—	—	25	—	—	15	—	1400–1440
EHK7-10	—	—	15	—	—	20	—	—	10	1250–1350
EHK7-15	—	—	22	—	—	25	—	—	15	1400–1440
4 Ton										
DCC048										
EHK3-10	30/35	—	—	35/35	—	—	10	—	—	1400–1800
EHK3-15	43/50	—	—	45/50	—	—	15	—	—	1575–1800
EHK3-18	51/59	—	—	60/60	—	—	18	—	—	1575–1800
EHK4-10	—	17	—	—	20	—	—	10	—	1400–1800
EHK4-15	—	25	—	—	25	—	—	15	—	1575–1800
EHK4-18	—	29	—	—	30	—	—	18	—	
EHK7-10	—	—	15	—	—	20	—	—	10	1400–1800
EHK7-15	—	—	22	—	—	25	—	—	15	1575–1800
EHK7-18	—	—	25	—	—	30	—	—	18	
5 Ton										
DCC060										
EHK3-10	30/35	—	—	35/40	—	—	10	—	—	1750–2250
EHK3-15	43/50	—	—	45/50	—	—	15	—	—	
EHK3-20	56/65	—	—	60/70	—	—	20	—	—	1850–2250
EHK4-10	—	19	—	—	20	—	—	10	—	1750–2250
EHK4-15	—	25	—	—	25	—	—	15	—	
EHK4-20	—	35	—	—	35	—	—	20	—	1850–2250
EHK7-10	—	—	15	—	—	20	—	—	10	1750–2250
EHK7-15	—	—	22	—	—	25	—	—	15	
EHK7-20	—	—	28	—	—	30	—	—	20	1850–2250
EHK1-25	—	—	34	—	—	35	—	—	25	—
6 Ton										
DCC072										
EHK3-10	36 ⁴			45 ⁴			10			2100–2700
EHK3-15	51 ⁴			60 ⁴			15			
EHK3-20	66 ⁴			70 ⁴			20			
EHK3-25	81 ⁴			90 ⁴			25			
EHK4-10		18			25			10		
EHK4-15		26			30			15		
EHK4-20		33			35			20		
EHK4-25		41			45			25		
EHK7-10			15			20			10	
EHK7-15			22			25			15	
EHK7-20			28			30			20	
EHK7-25			34			35			25	

1. Minimum circuit ampacity (standard drive)
 2. Maximum overcurrent protection device (standard drive)
 3. See page 13 for optional high static ESP amps
 4. 240V values are shown
 Note: All heaters have single-point entry kit

kW Correction Factors	208 thru 240V Units					430 thru 480V Units				575V Units			
Supply Voltage	240	230	220	210	208	480	460	440	430	575	560	550	540
Correction Factor	1	0.93	0.82	0.78	0.76	1.00	0.92	0.84	0.80	1.00	0.95	0.91	0.88

Table 6: Electrical Data—Heat Kit, DCH 036–072

Model & Heat Kit Usage	MCA ¹			MOP ² Amps			Actual kW			Recommended Airflow Range (CFM)
	208/240V	480V	575V	208/240V	480V	575V	240V	480V	575V	
3 Ton										
DCH036										
EHK3-10	42/48	—	—	45/50	—	—	10	—	—	1250–1350
EHK3-15	55/63	—	—	60/70	—	—	15	—	—	1400–1440
EHK4-10	—	25	—	—	25	—	—	10	—	1250–1350
EHK4-15	—	33	—	—	35	—	—	15	—	1400–1440
EHK7-10	—	—	20	—	—	25	—	—	10	1400–1475
EHK7-15	—	—	26	—	—	30	—	—	15	1575–1650
4 Ton										
DCH048										
EHK3-10	45/52	—	—	45/60	—	—	10	—	—	1400–1800
EHK3-15	58/67	—	—	60/70	—	—	15	—	—	1575–1800
EHK3-18	66/76	—	—	70/80	—	—	18	—	—	1400–1800
EHK4-10	—	25	—	—	30	—	—	10	—	1400–1800
EHK4-15	—	33	—	—	35	—	—	15	—	1575–1800
EHK4-18	—	37	—	—	40	—	—	18	—	1400–1800
EHK7-10	—	—	21	—	—	25	—	—	10	1400–1800
EHK7-15	—	—	27	—	—	30	—	—	15	1575–1800
EHK7-18	—	—	31	—	—	35	—	—	18	1575–1800
5 Ton										
DCH060										
EHK3-10	48/55	—	—	50/60	—	—	10	—	—	1750–2250
EHK3-15	61/70	—	—	70/80	—	—	15	—	—	1850–2250
EHK3-20	74/85	—	—	80/90	—	—	20	—	—	1750–2250
EHK4-10	—	27	—	—	30	—	—	10	—	1750–2250
EHK4-15	—	35	—	—	40	—	—	15	—	1850–2250
EHK4-20	—	43	—	—	45	—	—	20	—	1750–2250
EHK7-10	—	—	23	—	—	25	—	—	10	1850–2250
EHK7-15	—	—	29	—	—	30	—	—	15	1750–2250
EHK7-20	—	—	35	—	—	40	—	—	20	1850–2250
6 Ton										
DCH072										
EHK3-10	61 ⁴	—	—	70 ⁴	—	—	10	—	—	2100–2700
EHK3-15	76 ⁴	—	—	80 ⁴	—	—	15	—	—	
EHK3-20	91 ⁴	—	—	100 ⁴	—	—	20	—	—	
EHK3-25	106 ⁴	—	—	110 ⁴	—	—	25	—	—	
EHK4-10	—	31	—	—	35	—	—	10	—	
EHK4-15	—	38	—	—	40	—	—	15	—	
EHK4-20	—	46	—	—	50	—	—	20	—	
EHK4-25	—	53	—	—	60	—	—	25	—	
EHK7-10	—	—	25	—	—	30	—	—	10	
EHK7-15	—	—	31	—	—	35	—	—	15	
EHK7-20	—	—	38	—	—	40	—	—	20	
EHK7-25	—	—	44	—	—	45	—	—	25	

1. Minimum circuit ampacity (standard drive)
 2. Maximum overcurrent protection device (standard drive)
 3. See page 13 for optional high static ESP amps
 4. 240V values are shown
 Note: All heaters have single-point entry kit

kW Correction Factors	208 thru 240V Units					430 thru 480V Units				575V Units			
	240	230	220	210	208	480	460	440	430	575	560	550	540
Supply Voltage	240	230	220	210	208	480	460	440	430	575	560	550	540
Correction Factor	1	0.93	0.82	0.78	0.76	1.00	0.92	0.84	0.80	1.00	0.95	0.91	0.88

Table 7: Electrical Data—Compressor and Motor, DCH 036–072

Voltage–Phase–Frequency	208/230–3–60	460–3–60	575–3–60
DCH036			
Evaporator Motor			
Indoor motor FLA (Cooling)	3.8	1.9	2.3
Compressor Motor			
Compressor RLA/LRA	10.5/73.0	5.8/38.0	3.8/36.5
Electrical Data			
Voltage-Phase-Frequency	208/230-3-60	460-3-60	575-3-60
Indoor Blower HP/FLA	1.0 / 3.8	1.0 / 1.9	1.5 / 2.3
Outdoor Fan HP/FLA	¼ / 1.4	¼ / 0.8	¼ / 0.6
Total Unit Amps	15.65	8.47	6.68
Min. Circuit Ampacity ¹	18	10	8
Max. Overcurrent Protection (amps) ²	25	15	10
Power Supply Conduit Hole		1.125"	
Low Voltage Conduit Hole		½"	
DCH048			
Evaporator Motor			
Indoor Motor FLA (Cooling)	3.8	1.9	2.3
Compressor Motor			
Compressor RLA/LRA	13.1/83.1	6.1/41	4.4/33
Electrical Data			
Voltage-Phase-Frequency	208/230-3-60	460-3-60	575-3-60
Outdoor Fan FLA	1.4	0.8	0.6
Total Unit Amps	18.3	8.8	7.3
Min. Circuit Ampacity ¹	22	10	8
Max. Overcurrent Protection (amps) ²	30	15	10
Power Supply Conduit Hole		1.125"	
Low-Voltage Conduit Hole		½"	
DCH060			
Evaporator Motor			
Indoor Motor FLA (Cooling)	3.8	1.9	2.3
Compressor Motor			
Compressor RLA / LRA	16.0/110	7.8/52	5.7/38.9
Electrical Data			
Voltage-Phase-Frequency	208/230-3-60	460-3-60	575-3-60
Indoor Blower HP / FLA	1.0/3.8	1.0/1.9	1.5/2.3
Indoor Blower LRA	24	12	
Outdoor Fan HP / FLA	¼ / 1.4	¼ / 0.8	¼ / 0.6
Total Unit Amps	21.2	10.5	8.6
Min. Circuit Ampacity ¹	25	12	10
Max. Overcurrent Protection (amps) ²	40	20	15
Power Supply Conduit Hole		1.125"	
Low-Voltage Conduit Hole		½"	
DCH072			
Evaporator Motor			
Indoor Motor FLA (Cooling)	5.0	2.3	2.3
Compressor Motor			
Compressor RLA / LRA	1.9/123	9.7/62	7.4/50
Electrical Data³			
Voltage/Phase/ Frequency	207/230-3-60	460-3-60	575-3-60
Belt-Driven Standard Max Static	—	—	—
Outdoor Fan FLA	1.9	1.2	0.9
Total Unit Amps	25.9	13.4	10.6
Min. Circuit Ampacity ¹	31	16	12
Max. Overcurrent Protection (amps) ²	45	25	15
Entrance Power Supply		1.125"	
Entrance Control Voltage		½"	

1. Wire size should be determined in accordance with National Electric Codes. Extensive wire runs will require larger wire sizes

2. May use fuses or HACR-type circuit breakers of the same size as noted

3. See page 13 for optional high static ESP amps

Note: Always check the S&R plate for electrical data on the unit being installed

Table 8: Standard vs. High Static Motor Detail, 3–6 ton

Size (Tons)	Voltage	Standard IFM				High Static IFM				Increase in MCA and MROPD			
		P/N	HP	FLA	LRA	P/N	HP	FLA	LRA	208V	230V	460V	575V
3	230/460	0131L00003	1	3.8/1.9	12	B3240007	1.5	5.0/2.5	18	1.6	1.6	0.8	0.0
	575	0131L00004	1.5	2.3	11	Same Motor							
4	230/460	0131L00003	1	3.8/1.9	12	B3240007	1.5	5.0/2.5	18	1.6	1.6	0.8	0.0
	575	0131L00004	1.5	2.3	11	Same Motor							
5	230/460	0131L00003	1	3.8/1.9	12	B3240007	1.5	5.0/2.5	18	1.6	1.6	0.8	0.0
	575	0131L00004	1.5	2.3	11	Same Motor							
6	230/460	B3240007	1.5	5.0/2.5	18	B3240006	2	7.8/3.9	40	2.8	2.8	1.4	0.0
	575	0131L00004	1.5	2.3	11	0131L00005	2	2.3	20.3				

Table 9: Airflow Data—Belt-Drive, DCC/DCH036 3.0 Tons

Standard Belt-Drive — Horizontal												
ESP (Inches W.C.)	Turns Open											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2	—	—	—	—	—	—	—	—	1658	0.35	1489	0.28
0.4	—	—	—	—	—	—	1560	0.36	1339	0.28	1129	0.21
0.6	—	—	1682	0.47	1436	0.36	1196	0.27	949	0.19	—	—
0.8	1581	0.50	1354	0.38	1096	0.28	828	0.18	—	—	—	—
1.0	1266	0.39	994	0.28	756	0.19	—	—	—	—	—	—
1.2	923	0.28	—	—	—	—	—	—	—	—	—	—
Standard Belt-Drive — Down Shot												
ESP (Inches W.C.)	Turns Open											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2	—	—	—	—	—	—	—	—	1424	0.30	1239	0.23
0.4	—	—	—	—	1520	0.39	1292	0.29	1073	0.22	779	0.14
0.6	—	—	1439	0.40	1192	0.30	944	0.21	619	0.12	—	—
0.8	1350	0.42	1101	0.31	864	0.22	—	—	—	—	—	—
1.0	1028	0.31	729	0.21	—	—	—	—	—	—	—	—
1.2	675	0.20	—	—	—	—	—	—	—	—	—	—
High-Static Belt-Drive — Horizontal												
ESP (Inches W.C.)	Turns Open											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.6	—	—	—	—	—	—	—	—	1742	0.50	1431	0.36
0.8	—	—	—	—	—	—	1626	0.52	1357	0.39	1078	0.27
1.0	—	—	—	—	1611	0.56	1315	0.42	1011	0.28	—	—
1.2	—	—	1605	0.62	1299	0.46	976	0.31	—	—	—	—
1.4	1605	0.68	1281	0.51	959	0.35	—	—	—	—	—	—
1.6	1281	0.57	981	0.41	—	—	—	—	—	—	—	—
High-Static Belt-Drive — Down Shot												
ESP (Inches W.C.)	Turns Open											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.6	—	—	—	—	—	—	1692	0.54	1449	0.41	1173	0.29
0.8	—	—	—	—	1678	0.58	1397	0.44	1107	0.31	854	0.21
1.0	—	—	1681	0.65	1381	0.49	1078	0.34	794	0.22	—	—
1.2	1681	0.71	1362	0.54	1062	0.39	—	—	—	—	—	—
1.4	1362	0.60	1066	0.44	—	—	—	—	—	—	—	—
1.6	1066	0.50	789	0.34	—	—	—	—	—	—	—	—
1.8	789	0.40	—	—	—	—	—	—	—	—	—	—

Note: Tables represent dry coil without filter; to compensate for filter, add 0.08" to measured E.S.P. SCFM correction for wet coil = 4%.

Table 10: Airflow Data—Belt-Drive, DCC/DCH048 4.0 Tons

Standard Belt-Drive — Horizontal													
ESP (Inches W.C.)	Turns Open												
	0		1		2		3		4		5		
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	
0.2	—	—	—	—	—	—	—	—	—	1943	0.52	1714	0.40
0.4	—	—	—	—	2187	0.72	1876	0.55	1566	0.40	1270	0.26	—
0.6	—	—	2044	0.72	1761	0.56	1444	0.40	1136	0.26	—	—	—
0.8	1947	0.74	1704	0.59	1335	0.40	—	—	—	—	—	—	—
1.0	1598	0.60	1275	0.36	—	—	—	—	—	—	—	—	—
1.2	1208	0.45	—	—	—	—	—	—	—	—	—	—	—
Standard Belt-Drive — Down Shot													
ESP (Inches W.C.)	Turns Open												
	0		1		2		3		4		5		
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	
0.2	—	—	—	—	—	—	2129	0.64	1795	0.47	1550	0.35	—
0.4	—	—	—	—	1994	0.65	1701	0.49	1433	0.36	1163	0.22	—
0.6	—	—	1905	0.67	1606	0.50	1326	0.36	1025	0.22	—	—	—
0.8	1808	0.69	1565	0.54	1216	0.36	—	—	—	—	—	—	—
1.0	1473	0.55	1137	0.32	—	—	—	—	—	—	—	—	—
1.2	1103	0.41	—	—	—	—	—	—	—	—	—	—	—
High-Static Belt-Drive — Horizontal													
ESP (Inches W.C.)	Turns Open												
	0		1		2		3		4		5		
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	
0.6	—	—	—	—	—	—	—	—	2056	0.72	1721	0.54	—
0.8	—	—	—	—	—	—	1996	0.77	1662	0.57	1328	0.40	—
1.0	—	—	—	—	1924	0.79	1603	0.61	1270	0.43	—	—	—
1.2	—	—	1952	0.88	1559	0.64	1210	0.44	—	—	—	—	—
1.4	1888	0.92	1543	0.70	1195	0.49	—	—	—	—	—	—	—
1.6	1557	0.77	1180	0.54	—	—	—	—	—	—	—	—	—
1.8	1192	0.60	—	—	—	—	—	—	—	—	—	—	—
High-Static Belt-Drive — Down Shot													
ESP (Inches W.C.)	Turns Open												
	0		1		2		3		4		5		
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	
0.6	—	—	—	—	—	—	2194	0.85	1886	0.66	1580	0.49	—
0.8	—	—	—	—	2113	0.86	1832	0.70	1526	0.52	1219	0.37	—
1.0	—	—	2182	0.98	1776	0.73	1472	0.55	1166	0.39	—	—	—
1.2	2053	1.00	1780	0.80	1440	0.59	1111	0.40	—	—	—	—	—
1.4	1759	0.86	1421	0.64	1104	0.46	—	—	—	—	—	—	—
1.6	1442	0.72	1095	0.50	—	—	—	—	—	—	—	—	—
1.8	1095	0.56	—	—	—	—	—	—	—	—	—	—	—

Note: Tables represent dry coil without filter; to compensate for filter, add 0.08" to measured E.S.P. SCFM correction for wet coil = 4%.

Table 11: Airflow Data—Belt-Drive, DCC/DCH060 5.0 Tons

Standard Belt-Drive — Horizontal												
ESP (Inches W.C.)	Turns Open											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2	—	—	—	—	—	—	—	—	2420	0.79	2198	0.64
0.4	—	—	—	—	2605	1.02	2358	0.84	2133	0.67	1874	0.52
0.6	—	—	2526	1.06	2300	0.88	2026	0.70	1806	0.55	—	—
0.8	2529	1.15	2252	0.93	1975	0.73	1670	0.54	—	—	—	—
1.0	2233	0.99	1943	0.78	1628	0.57	—	—	—	—	—	—
1.2	1907	0.83	1582	0.61	—	—	—	—	—	—	—	—
Standard Belt-Drive — Down Shot												
ESP (Inches W.C.)	Turns Open											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2	—	—	—	—	2579	1.01	2368	0.85	2175	0.69	1961	0.55
0.4	—	—	2513	1.05	2318	0.89	2089	0.73	1906	0.59	1666	0.44
0.6	2514	1.14	2276	0.94	2045	0.77	1797	0.60	1604	0.47	—	—
0.8	2261	1.01	2017	0.82	1760	0.63	—	—	—	—	—	—
1.0	1989	0.87	1730	0.68	—	—	—	—	—	—	—	—
1.2	1695	0.72	—	—	—	—	—	—	—	—	—	—
High-Static Belt-Drive — Horizontal												
ESP (Inches W.C.)	Turns Open											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.6	—	—	—	—	—	—	—	—	—	—	2323	0.92
0.8	—	—	—	—	—	—	—	—	2315	1.00	2009	0.77
1.0	—	—	—	—	—	—	2308	1.09	1992	0.84	1666	0.60
1.2	—	—	—	—	2338	1.21	1992	0.92	1646	0.66	—	—
1.4	—	—	2359	1.32	2025	1.02	1648	0.72	—	—	—	—
1.6	2404	1.45	2056	1.13	1684	0.82	—	—	—	—	—	—
1.8	2088	1.24	1722	0.92	—	—	—	—	—	—	—	—
High-Static Belt-Drive — Down Shot												
ESP (Inches W.C.)	Turns Open											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.6	—	—	—	—	—	—	—	—	2331	1.01	2072	0.80
0.8	—	—	—	—	—	—	2324	1.10	2059	0.87	1791	0.66
1.0	—	—	—	—	2350	1.21	2058	0.95	1774	0.72	—	—
1.2	—	—	2367	1.33	2086	1.06	1776	0.79	—	—	—	—
1.4	2404	1.45	2111	1.17	1805	0.89	—	—	—	—	—	—
1.6	2136	1.28	1835	0.99	—	—	—	—	—	—	—	—
1.8	1868	1.10	—	—	—	—	—	—	—	—	—	—

Note: Tables represent dry coil without filter; to compensate for filter, add 0.08" to measured E.S.P. SCFM correction for wet coil = 4%.

Table 12: Airflow Data—Belt-Drive, DCC/DCH072 6.0 Tons

Standard Belt-Drive — Horizontal												
ESP (Inches W.C.)	Turns Open											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2	—	—	—	—	—	—	2784	1.30	2582	0.83	2411	0.79
0.4	—	—	—	—	2814	1.34	2620	1.19	2342	0.72	2105	0.66
0.6	—	—	2665	1.34	2583	1.19	2398	1.06	2103	0.62	1902	0.57
0.8	2689	1.38	2492	1.22	2370	1.07	2142	0.91	1816	0.51	—	—
1.0	2438	1.22	2275	1.09	2098	0.92	1883	0.78	—	—	—	—
1.2	2250	1.10	1996	0.92	—	—	—	—	—	—	—	—
Standard Belt-Drive — Down Shot												
ESP (Inches W.C.)	Turns Open											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2	—	—	—	—	2771	1.27	2567	1.05	2421	0.88	2220	0.71
0.4	—	—	2753	1.38	2573	1.15	2382	0.95	2186	0.77	1980	0.61
0.6	2655	1.42	2548	1.24	2360	1.02	2119	0.81	1934	0.65	—	—
0.8	2470	1.30	2331	1.11	2111	0.89	1868	0.69	—	—	—	—
1.0	2296	1.18	2078	0.96	1840	0.75	—	—	—	—	—	—
1.2	2040	1.02	—	—	—	—	—	—	—	—	—	—
High-Static Belt-Drive — Horizontal												
ESP (Inches W.C.)	Turns Open											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.6	—	—	—	—	—	—	—	—	2746	1.38	2515	1.12
0.8	—	—	—	—	—	—	2721	1.47	2494	1.21	2261	0.97
1.0	—	—	—	—	2689	1.56	2500	1.32	2255	1.06	1994	0.83
1.2	—	—	2752	1.74	2473	1.40	2252	1.15	1996	0.91	—	—
1.4	2802	1.88	2487	1.53	2286	1.27	2037	1.02	—	—	—	—
1.6	2553	1.67	2308	1.40	1997	1.08	—	—	—	—	—	—
1.8	2355	1.51	2014	1.19	—	—	—	—	—	—	—	—
2.0	2055	1.29	—	—	—	—	—	—	—	—	—	—
ESP (Inches W.C.)	Turns Open											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.6	—	—	—	—	2793	1.64	2603	1.39	2450	1.18	2270	0.97
0.8	—	—	2903	1.87	2696	1.57	2369	1.23	2236	1.05	1987	0.82
1.0	2776	1.86	2682.5	1.69	2445	1.38	2196	1.12	1968	0.90	—	—
1.2	2599	1.71	2539	1.57	2310	1.29	1932	0.96	—	—	—	—
1.4	2424	1.57	2305	1.40	2032	1.11	—	—	—	—	—	—
1.6	2172	1.38	2017	1.19	—	—	—	—	—	—	—	—
1.8	1953	1.22	—	—	—	—	—	—	—	—	—	—

Note: Tables represent dry coil without filter; to compensate for filter, add 0.08" to measured E.S.P. SCFM correction for wet coil = 4%.

Table 13: Airflow Data—Belt-Drive, DCG036 3.0 Tons

Standard Belt-Drive — Horizontal												
ESP (Inches W.C.)	Turns Open											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2	—	—	—	—	—	—	—	—	1524	0.32	1340	0.25
0.4	—	—	—	—	1628	0.41	1396	0.32	1171	0.24	900	0.16
0.6	—	—	1541	0.43	1284	0.32	1024	0.23	714	0.14	—	—
0.8	1444	0.45	1193	0.33	936	0.24	—	—	—	—	—	—
1.0	1111	0.34	806	0.23	—	—	—	—	—	—	—	—
1.2	744	0.22	—	—	—	—	—	—	—	—	—	—
Standard Belt-Drive — Down Shot												
ESP (Inches W.C.)	Turns Open											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2	—	—	—	—	—	—	1596	0.36	1368	0.28	1162	0.21
0.4	—	—	—	—	1468	0.37	1224	0.28	981	0.20	—	—
0.6	1610	0.51	1383	0.39	1124	0.28	856	0.19	—	—	—	—
0.8	1293	0.40	1021	0.29	776	0.20	—	—	—	—	—	—
1.0	948	0.29	614	0.17	—	—	—	—	—	—	—	—
High-Static Belt-Drive — Horizontal												
ESP (Inches W.C.)	Turns Open											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.6	—	—	—	—	—	—	—	—	1568	0.45	1266	0.32
0.8	—	—	—	—	—	—	1492	0.47	1194	0.34	922	0.23
1.0	—	—	—	—	1476	0.52	1163	0.37	856	0.24	—	—
1.2	—	—	1458	0.57	1146	0.41	802	0.25	—	—	—	—
1.4	1458	0.63	1139	0.46	782	0.30	—	—	—	—	—	—
1.6	1139	0.52	844	0.36	—	—	—	—	—	—	—	—
1.8	844	0.42	—	—	—	—	—	—	—	—	—	—
High-Static Belt-Drive — Down Shot												
ESP (Inches W.C.)	Turns Open											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.6	—	—	—	—	—	—	1655	0.53	1389	0.39	1103	0.28
0.8	—	—	—	—	1640	0.57	1342	0.43	1035	0.29	775	0.19
1.0	—	—	1638	0.63	1326	0.47	1002	0.32	713	0.19	—	—
1.2	1638	0.69	1307	0.52	984	0.36	—	—	—	—	—	—
1.4	1307	0.58	1002	0.42	—	—	—	—	—	—	—	—
1.6	1002	0.48	717	0.32	—	—	—	—	—	—	—	—
1.8	717	0.38	—	—	—	—	—	—	—	—	—	—

Note: Tables represent dry coil without filter; to compensate for filter, add 0.08" to measured E.S.P. SCFM correction for wet coil = 4%.

Table 14: Airflow Data—Belt-Drive, DCG048 4.0 Tons

Standard Belt-Drive — Horizontal													
ESP (Inches W.C.)	Turns Open												
	0		1		2		3		4		5		
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	
0.2	—	—	—	—	—	—	—	—	—	1800	0.47	1556	0.35
0.4	—	—	—	—	2002	0.65	1708	0.49	1438	0.36	1167	0.22	—
0.6	—	—	1910	0.67	1612	0.50	1330	0.37	1030	0.23	—	—	—
0.8	1813	0.69	1571	0.54	1222	0.36	989	0.25	—	—	—	—	—
1.0	1478	0.56	1142	0.32	—	—	—	—	—	—	—	—	—
1.2	1107	0.41	—	—	—	—	—	—	—	—	—	—	—
Standard Belt-Drive — Down Shot													
ESP (Inches W.C.)	Turns Open												
	0		1		2		3		4		5		
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	
0.2	—	—	—	—	—	—	1891	0.56	1632	0.42	1391	0.30	—
0.4	—	—	—	—	1796	0.57	1533	0.43	1290	0.31	1055	0.19	—
0.6	1948	0.74	1744	0.61	1446	0.44	1206	0.32	910	0.19	—	—	—
0.8	1654	0.63	1409	0.48	1096	0.31	—	—	—	—	—	—	—
1.0	1337	0.50	987	0.28	—	—	—	—	—	—	—	—	—
High-Static Belt-Drive — Horizontal													
ESP (Inches W.C.)	Turns Open												
	0		1		2		3		4		5		
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	
0.6	—	—	—	—	—	—	—	—	1894	0.66	1585	0.49	—
0.8	—	—	—	—	—	—	1839	0.71	1532	0.53	1223	0.37	—
1.0	—	—	—	—	1782	0.73	1477	0.55	1170	0.39	—	—	—
1.2	—	—	1786	0.80	1445	0.59	1115	0.40	—	—	—	—	—
1.4	1764	0.86	1426	0.64	1107	0.46	—	—	—	—	—	—	—
1.6	1446	0.72	1098	0.50	—	—	—	—	—	—	—	—	—
1.8	1099	0.56	—	—	—	—	—	—	—	—	—	—	—
High-Static Belt-Drive — Down Shot													
ESP (Inches W.C.)	Turns Open												
	0		1		2		3		4		5		
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	
0.6	—	—	—	—	—	—	1989	0.77	1712	0.59	1433	0.44	—
0.8	—	—	—	—	1929	0.79	1662	0.63	1384	0.47	1106	0.33	—
1.0	—	—	1952	0.88	1622	0.67	1335	0.49	1056	0.34	—	—	—
1.2	1897	0.93	1611	0.73	1315	0.54	1008	0.36	—	—	—	—	—
1.4	1616	0.80	1298	0.59	1007	0.42	—	—	—	—	—	—	—
1.6	1316	0.66	1007	0.46	—	—	—	—	—	—	—	—	—
1.8	—	—	—	—	—	—	—	—	—	—	—	—	—

Note: Tables represent dry coil without filter; to compensate for filter, add 0.08" to measured E.S.P. SCFM correction for wet coil = 4%.

Table 15: Airflow Data—Belt-Drive, DCG060 5.0 Tons

Standard Belt-Drive — Horizontal												
ESP (Inches W.C.)	Turns Open											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2	—	—	—	—	2460	0.96	2251	0.80	2073	0.65	1862	0.51
0.4	—	—	2408	1.00	2206	0.84	1982	0.68	1808	0.55	1572	0.41
0.6	2402	1.08	2173	0.89	1943	0.72	1701	0.55	1511	0.43	—	—
0.8	2153	0.95	1917	0.77	1667	0.59	—	—	—	—	—	—
1.0	1888	0.82	1634	0.63	—	—	—	—	—	—	—	—
1.2	1601	0.67	—	—	—	—	—	—	—	—	—	—
Standard Belt-Drive — Down Shot												
ESP (Inches W.C.)	Turns Open											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2	—	—	2210	0.91	2041	0.76	1869	0.63	1739	0.52	1565	0.40
0.4	2197	0.98	2021	0.82	1841	0.67	1660	0.54	1521	0.44	1339	0.32
0.6	2002	0.88	1822	0.72	1635	0.58	1445	0.44	1288	0.35	—	—
0.8	1799	0.77	1610	0.62	1425	0.48	—	—	—	—	—	—
1.0	1587	0.67	1384	0.51	—	—	—	—	—	—	—	—
High-Static Belt-Drive — Horizontal												
ESP (Inches W.C.)	Turns Open											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.6	—	—	—	—	—	—	—	—	2219	0.95	1970	0.75
0.8	—	—	—	—	—	—	2215	1.04	1956	0.82	1697	0.62
1.0	—	—	—	—	2240	1.15	1957	0.90	1681	0.67	—	—
1.2	—	—	2260	1.26	1983	1.00	1683	0.74	—	—	—	—
1.4	2288	1.38	2009	1.10	1711	0.84	—	—	—	—	—	—
1.6	2032	1.21	1741	0.93	—	—	—	—	—	—	—	—
1.8	1776	1.04	—	—	—	—	—	—	—	—	—	—
High-Static Belt-Drive — Down Shot												
ESP (Inches W.C.)	Turns Open											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.6	—	—	—	—	2262	1.16	2051	0.95	1851	0.76	1657	0.60
0.8	—	—	2277	1.27	2070	1.05	1852	0.84	1646	0.66	—	—
1.0	2304	1.39	2089	1.15	1872	0.93	1647	0.72	—	—	—	—
1.2	2104	1.26	1893	1.03	1668	0.81	—	—	—	—	—	—
1.4	1912	1.13	1690	0.90	—	—	—	—	—	—	—	—
1.6	1720	1.00	—	—	—	—	—	—	—	—	—	—

Note: Tables represent dry coil without filter; to compensate for filter, add 0.08" to measured E.S.P. SCFM correction for wet coil = 4%.

Table 16: Airflow Data—Belt-Drive, DCG072 6.0 Tons

Standard Belt-Drive — Horizontal												
ESP (Inches W.C.)	Turns Open											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2	—	—	—	—	—	—	2749	1.18	2573	0.96	2402	0.79
0.4	—	—	—	—	2680	1.22	2544	1.06	2346	0.84	2164	0.68
0.6	—	—	2655	1.31	2498	1.10	2306	0.92	2094	0.72	1890	0.57
0.8	2703	1.47	2486	1.20	2263	0.97	2076	0.81	—	—	—	—
1.0	2515	1.34	2272	1.07	2002	0.83	—	—	—	—	—	—
1.2	2253	1.16	2028	0.93	—	—	—	—	—	—	—	—
Standard Belt-Drive — Down Shot												
ESP (Inches W.C.)	Turns Open											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2	—	—	—	—	2625	1.18	2486	1.02	2322	0.83	2152	0.68
0.4	2765	1.52	2596	1.28	2476	1.09	2327	0.94	2159	0.75	1938	0.59
0.6	2650	1.43	2452	1.18	2325	1.00	2070	0.80	1898	0.64	—	—
0.8	2443	1.29	2251	1.06	2068	0.86	1868	0.71	—	—	—	—
1.0	2258	1.17	2040	0.94	1806	0.73	—	—	—	—	—	—
1.2	2021	1.02	—	—	—	—	—	—	—	—	—	—
High-Static Belt-Drive — Horizontal												
ESP (Inches W.C.)	Turns Open											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.6	—	—	—	—	—	—	—	—	2677	1.29	2486	1.07
0.8	—	—	—	—	—	—	2690	1.42	2529	1.20	2263	0.94
1.0	—	—	—	—	2740	1.60	2471	1.27	2246	1.02	1972	0.79
1.2	—	—	2748	1.74	2518	1.44	2255	1.13	1970	0.87	—	—
1.4	2797	1.87	2562	1.59	2273	1.27	2025	0.99	—	—	—	—
1.6	2556	1.67	2314	1.40	2035	1.11	—	—	—	—	—	—
1.8	2342	1.50	2037	1.21	—	—	—	—	—	—	—	—
2.0	2137	1.35	—	—	—	—	—	—	—	—	—	—
High-Static Belt-Drive — Down Shot												
ESP (Inches W.C.)	Turns Open											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.6	—	—	—	—	2793	1.64	2575	1.37	2407	1.15	2250	0.96
0.8	—	—	2775	1.76	2638	1.53	2407	1.25	2226	1.04	2011	0.84
1.0	2821	1.89	2660	1.67	2407	1.36	2194	1.12	2012	0.92	—	—
1.2	2696	1.79	2497	1.54	2228	1.23	1977	0.98	—	—	—	—
1.4	2455	1.59	2236	1.35	2013	1.10	—	—	—	—	—	—
1.6	2262	1.44	2032	1.20	—	—	—	—	—	—	—	—
1.8	2069	1.30	—	—	—	—	—	—	—	—	—	—

Note: Tables represent dry coil without filter; to compensate for filter, add 0.08" to measured E.S.P. SCFM correction for wet coil = 4%.

Table 17: Expanded Cooling Data, DCC036 3.0 Tons

IDB		Outdoor Ambient Temperature																								
		65°F				75°F				85°F				95°F				105°F				115°F				
		Entering Indoor Wet Bulb Temperature																								
Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71		
70	1350	MBh	33.9	35.1	38.5	—	33.1	34.3	37.6	—	32.3	33.5	36.7	—	31.5	32.7	35.8	—	30.0	31.1	34.0	—	27.8	28.8	31.5	—
		S/T	0.72	0.60	0.42	—	0.75	0.63	0.43	—	0.77	0.64	0.44	—	0.79	0.66	0.46	—	0.82	0.69	0.48	—	0.83	0.69	0.48	—
		ΔT	17	14	11	—	17	15	11	—	17	15	11	—	17	15	11	—	17	15	11	—	16	14	10	—
		kW	2.44	2.48	2.56	—	2.61	2.66	2.74	—	2.76	2.82	2.90	—	2.90	2.95	3.05	—	3.01	3.07	3.17	—	3.11	3.17	3.27	—
		HI PR	221	237	251	—	247	266	281	—	281	303	320	—	321	345	364	—	361	388	410	—	398	429	453	—
	LO PR	107	114	124	—	113	120	131	—	118	125	137	—	124	131	144	—	130	138	150	—	134	143	156	—	
	1200	MBh	32.9	34.1	37.4	—	32.2	33.3	36.5	—	31.4	32.5	35.6	—	30.6	31.7	34.8	—	29.1	30.2	33.0	—	26.9	27.9	30.6	—
		S/T	0.69	0.58	0.40	—	0.71	0.60	0.41	—	0.73	0.61	0.42	—	0.76	0.63	0.44	—	0.79	0.66	0.45	—	0.79	0.66	0.46	—
		ΔT	17	15	11	—	18	15	12	—	18	15	12	—	18	15	12	—	18	15	11	—	16	14	11	—
		kW	2.42	2.47	2.54	—	2.59	2.64	2.72	—	2.74	2.80	2.88	—	2.87	2.93	3.02	—	2.99	3.05	3.14	—	3.08	3.15	3.25	—
		HI PR	218	235	248	—	245	264	278	—	279	300	317	—	317	342	361	—	357	384	406	—	394	425	448	—
	LO PR	106	113	123	—	112	119	130	—	116	124	135	—	122	130	142	—	128	136	149	—	133	141	154	—	
	1050	MBh	30.4	31.5	34.5	—	29.7	30.8	33.7	—	29.0	30.0	32.9	—	28.3	29.3	32.1	—	26.9	27.8	30.5	—	24.9	25.8	28.2	—
		S/T	0.67	0.56	0.38	—	0.69	0.58	0.40	—	0.71	0.59	0.41	—	0.73	0.61	0.42	—	0.76	0.63	0.44	—	0.76	0.64	0.44	—
		ΔT	18	15	12	—	18	16	12	—	18	16	12	—	18	16	12	—	18	15	12	—	17	14	11	—
kW		2.37	2.41	2.48	—	2.53	2.58	2.66	—	2.68	2.73	2.81	—	2.81	2.86	2.95	—	2.92	2.98	3.07	—	3.01	3.07	3.17	—	
HI PR		212	228	241	—	238	256	270	—	270	291	307	—	308	331	350	—	346	373	394	—	383	412	435	—	
LO PR	103	109	120	—	109	116	126	—	113	120	131	—	119	126	138	—	124	132	144	—	129	137	149	—		
75	1350	MBh	34.5	35.5	38.4	41.2	33.7	34.7	37.5	40.3	32.9	33.8	36.6	39.3	32.1	33.0	35.7	38.4	30.5	31.4	34.0	36.4	28.2	29.1	31.5	33.8
		S/T	0.82	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.87	0.78	0.59	0.38	0.90	0.81	0.61	0.39	0.94	0.84	0.63	0.41	0.94	0.84	0.64	0.41
		ΔT	19	18	15	10	20	18	15	10	20	18	15	10	20	18	15	10	19	18	15	10	18	17	14	9
		kW	2.46	2.50	2.58	2.65	2.63	2.68	2.76	2.85	2.78	2.84	2.93	3.02	2.92	2.98	3.07	3.17	3.03	3.10	3.19	3.29	3.13	3.20	3.30	3.40
		HI PR	223	240	253	264	250	269	284	296	284	306	323	337	324	348	368	384	364	392	414	432	402	433	457	477
	LO PR	108	115	126	134	114	122	133	141	119	126	138	147	125	133	145	154	131	139	152	162	135	144	157	167	
	1200	MBh	33.5	34.5	37.3	40.0	32.7	33.7	36.4	39.1	31.9	32.9	35.6	38.2	31.1	32.1	34.7	37.2	29.6	30.5	33.0	35.4	27.4	28.2	30.5	32.8
		S/T	0.78	0.70	0.53	0.34	0.81	0.73	0.55	0.35	0.83	0.75	0.56	0.36	0.86	0.77	0.58	0.37	0.89	0.80	0.60	0.39	0.90	0.81	0.61	0.39
		ΔT	20	19	15	10	20	19	15	11	20	19	15	11	21	19	15	11	20	19	15	11	19	17	14	10
		kW	2.44	2.49	2.56	2.63	2.61	2.66	2.74	2.82	2.76	2.82	2.90	2.99	2.90	2.96	3.05	3.14	3.01	3.07	3.17	3.27	3.11	3.17	3.27	3.38
		HI PR	221	237	251	261	248	266	281	293	281	303	320	334	321	345	364	380	361	388	410	427	399	429	453	472
	LO PR	107	114	124	133	113	120	131	140	118	125	137	146	124	131	144	153	130	138	150	160	134	143	156	166	
	1050	MBh	30.9	31.8	34.4	37.0	30.2	31.1	33.6	36.1	29.5	30.3	32.8	35.2	28.7	29.6	32.0	34.4	27.3	28.1	30.4	32.7	25.3	26.0	28.2	30.3
		S/T	0.76	0.68	0.51	0.33	0.78	0.70	0.53	0.34	0.80	0.72	0.54	0.35	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.37	0.87	0.78	0.59	0.38
		ΔT	20	19	15	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	19	18	15	10
kW		2.38	2.43	2.50	2.57	2.55	2.60	2.68	2.76	2.70	2.75	2.84	2.92	2.83	2.89	2.97	3.07	2.94	3.00	3.09	3.19	3.03	3.10	3.19	3.30	
HI PR		214	230	243	254	240	258	273	285	273	294	310	324	311	335	353	369	350	376	398	415	387	416	439	458	
LO PR	104	111	121	129	110	117	128	136	114	121	133	141	120	128	139	148	126	134	146	155	130	138	151	161		

IDB = Entering Indoor Dry Bulb Temperature
 Shaded area reflects ACCA (TVA) conditions
 kW = Total system power
 High and low pressures are measured at the liquid and suction service ports.
 Amps: Unit amps (comp. + evaporator + condenser fan motors)

NOTE: DCC and DCG are approximately the same, DCH variance shown below:

- QT ≈ 1% > DCC
- QS ≈ 6% > DCC
- ΔT ≈ 5% > DCC
- Kw ≈ 1% > DCC

Table 17 continued: Expanded Cooling Data, DCC036 3.0 Tons

IDB		Outdoor Ambient Temperature																								
		65°F				75°F				85°F				95°F				105°F				115°F				
		Entering Indoor Wet Bulb Temperature																								
Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71		
80	1350	MBh	35.1	35.9	38.3	41.0	34.3	35.0	37.4	40.0	33.5	34.2	36.5	39.0	32.6	33.4	35.6	38.1	31.0	31.7	33.9	36.2	28.7	29.4	31.4	33.5
		S/T	0.90	0.85	0.69	0.51	0.93	0.88	0.71	0.53	0.96	0.90	0.73	0.55	1.00	0.93	0.75	0.56	1.00	0.96	0.78	0.59	1.00	0.97	0.79	0.59
		ΔT	22	21	18	14	22	21	18	15	22	21	18	15	22	21	18	15	21	21	18	14	20	19	17	13
		kW	2.47	2.52	2.60	2.67	2.65	2.70	2.78	2.87	2.80	2.86	2.95	3.04	2.94	3.00	3.09	3.19	3.06	3.12	3.22	3.32	3.16	3.22	3.33	3.43
		HI PR	225	242	256	267	253	272	287	299	287	309	326	340	327	352	372	388	368	396	418	436	407	438	462	482
		LO PR	109	116	127	135	116	123	134	143	120	128	139	148	126	134	146	156	132	141	153	163	137	145	159	169
	1200	MBh	34.1	34.8	37.2	39.8	33.3	34.0	36.3	38.8	32.5	33.2	35.5	37.9	31.7	32.4	34.6	37.0	30.1	30.8	32.9	35.1	27.9	28.5	30.4	32.5
		S/T	0.86	0.81	0.66	0.49	0.89	0.84	0.68	0.51	0.91	0.86	0.70	0.52	0.94	0.88	0.72	0.54	0.98	0.92	0.75	0.56	0.99	0.93	0.75	0.56
		ΔT	22	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	21	20	18	14
		kW	2.46	2.50	2.58	2.65	2.63	2.68	2.76	2.85	2.78	2.84	2.93	3.02	2.92	2.98	3.07	3.17	3.03	3.10	3.19	3.29	3.13	3.20	3.30	3.40
		HI PR	223	240	253	264	250	269	284	296	284	306	323	337	324	348	368	384	364	392	414	432	403	433	457	477
		LO PR	108	115	126	134	114	122	133	141	119	126	138	147	125	133	145	154	131	139	152	162	135	144	157	167
1050	MBh	31.4	32.1	34.3	36.7	30.7	31.4	33.5	35.8	30.0	30.6	32.7	35.0	29.3	29.9	31.9	34.1	27.8	28.4	30.3	32.4	25.7	26.3	28.1	30.0	
	S/T	0.83	0.78	0.63	0.47	0.86	0.81	0.66	0.49	0.88	0.83	0.67	0.50	0.91	0.85	0.69	0.52	0.94	0.89	0.72	0.54	0.95	0.89	0.73	0.54	
	ΔT	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	16	23	22	19	15	21	21	18	14	
	kW	2.40	2.45	2.52	2.59	2.57	2.62	2.70	2.78	2.72	2.77	2.86	2.95	2.85	2.91	3.00	3.09	2.96	3.02	3.12	3.22	3.06	3.12	3.22	3.32	
	HI PR	216	233	246	256	243	261	276	287	276	297	313	327	314	338	357	372	353	380	402	419	390	420	444	463	
	LO PR	105	112	122	130	111	118	129	137	115	123	134	143	121	129	141	150	127	135	147	157	131	140	152	162	
85	1350	MBh	35.7	36.4	38.1	40.7	34.9	35.6	37.2	39.7	34.0	34.7	36.3	38.8	33.2	33.9	35.5	37.8	31.6	32.2	33.7	35.9	29.2	29.8	31.2	33.3
		S/T	0.95	0.91	0.82	0.67	0.98	0.95	0.85	0.69	1.00	0.97	0.87	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.94	0.76	1.00	1.00	0.94	0.77
		ΔT	23	23	21	18	23	23	22	19	23	23	22	19	23	23	22	19	21	22	21	19	20	20	20	17
		kW	2.49	2.54	2.61	2.69	2.67	2.72	2.80	2.89	2.83	2.88	2.97	3.06	2.96	3.03	3.12	3.22	3.08	3.15	3.24	3.35	3.18	3.25	3.35	3.46
		HI PR	227	245	258	269	255	274	290	302	290	312	330	344	330	356	375	392	372	400	422	440	411	442	467	487
		LO PR	110	117	128	137	117	124	135	144	121	129	141	150	127	135	148	158	133	142	155	165	138	147	160	171
	1200	MBh	34.7	35.3	37.0	39.5	33.9	34.5	36.1	38.6	33.1	33.7	35.3	37.6	32.2	32.9	34.4	36.7	30.6	31.2	32.7	34.9	28.4	28.9	30.3	32.3
		S/T	0.90	0.87	0.79	0.64	0.93	0.90	0.81	0.66	0.96	0.92	0.83	0.68	0.99	0.95	0.86	0.70	1.00	0.99	0.89	0.73	1.00	1.00	0.90	0.73
		ΔT	24	24	22	19	24	24	23	20	24	24	23	20	24	24	23	20	23	24	22	19	22	22	21	18
		kW	2.47	2.52	2.60	2.67	2.65	2.70	2.78	2.87	2.80	2.86	2.95	3.04	2.94	3.00	3.09	3.19	3.06	3.12	3.22	3.32	3.16	3.22	3.33	3.43
		HI PR	225	242	256	267	253	272	287	299	287	309	326	340	327	352	372	388	368	396	418	436	407	438	462	482
		LO PR	109	116	127	135	116	123	134	143	120	128	139	148	126	134	146	156	132	141	153	163	137	145	159	169
1050	MBh	32.0	32.6	34.2	36.4	31.3	31.9	33.4	35.6	30.5	31.1	32.6	34.7	29.8	30.3	31.8	33.9	28.3	28.8	30.2	32.2	26.2	26.7	28.0	29.8	
	S/T	0.87	0.84	0.76	0.61	0.90	0.87	0.78	0.64	0.92	0.89	0.80	0.65	0.95	0.92	0.83	0.67	0.99	0.95	0.86	0.70	1.00	0.96	0.87	0.71	
	ΔT	24	24	23	20	25	24	23	20	25	24	23	20	25	24	23	20	25	24	23	20	23	23	21	18	
	kW	2.42	2.47	2.54	2.61	2.59	2.64	2.72	2.80	2.74	2.80	2.88	2.97	2.87	2.93	3.02	3.12	2.99	3.05	3.14	3.24	3.08	3.15	3.25	3.35	
	HI PR	218	235	248	259	245	264	278	290	279	300	317	330	317	341	361	376	357	384	406	423	394	424	448	467	
	LO PR	106	113	123	131	112	119	130	139	116	124	135	144	122	130	142	151	128	136	149	159	133	141	154	164	

IDB = Entering Indoor Dry Bulb Temperature
 Shaded area reflects AHRI conditions
 kW = Total system power
 High and low pressures are measured at the liquid and suction service ports.
 Amps: Unit amps (comp. + evaporator + condenser fan motors)

Table 18: Expanded Cooling Data, DCC048 4.0 Tons

IDB		Outdoor Ambient Temperature																									
		65°F				75°F				85°F				95°F				105°F				115°F					
		Entering Indoor Wet Bulb Temperature																									
Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71			
70	1350	MBh	44.6	46.2	50.6	—	43.5	45.1	49.5	—	42.5	44.1	48.3	—	41.5	43.0	47.1	—	39.4	40.8	44.7	—	36.5	37.8	41.4	—	
		S/T	0.74	0.62	0.43	—	0.77	0.64	0.44	—	0.79	0.66	0.45	—	0.81	0.68	0.47	—	0.84	0.70	0.49	—	0.85	0.71	0.49	—	
		ΔT	17	15	11	—	17	15	11	—	17	15	11	—	17	15	11	—	17	15	11	—	16	14	10	—	
		kW	3.13	3.19	3.29	—	3.36	3.43	3.53	—	3.56	3.63	3.75	—	3.74	3.82	3.94	—	3.89	3.97	4.10	—	4.02	4.10	4.23	—	
		HI PR	239	257	271	—	268	288	304	—	305	328	346	—	347	373	394	—	390	420	444	—	431	464	490	—	
	LO PR	110	117	128	—	116	124	135	—	121	129	141	—	127	135	148	—	133	142	155	—	138	147	160	—		
	MBh	43.3	44.9	49.2	—	42.3	43.8	48.0	—	41.3	42.8	46.9	—	40.3	41.7	45.7	—	38.3	39.6	43.4	—	35.4	36.7	40.2	—		
	S/T	0.70	0.59	0.41	—	0.73	0.61	0.42	—	0.75	0.63	0.43	—	0.77	0.65	0.45	—	0.80	0.67	0.46	—	0.81	0.68	0.47	—		
	ΔT	18	15	12	—	18	15	12	—	18	15	12	—	18	15	12	—	18	15	12	—	16	14	11	—		
	kW	3.11	3.17	3.27	—	3.33	3.40	3.51	—	3.53	3.61	3.72	—	3.71	3.79	3.90	—	3.86	3.94	4.06	—	3.99	4.07	4.20	—		
	HI PR	236	254	269	—	265	285	301	—	302	325	343	—	344	370	390	—	386	416	439	—	427	460	485	—		
	LO PR	109	116	127	—	115	123	134	—	120	128	139	—	126	134	146	—	132	140	153	—	136	145	158	—		
	MBh	40.0	41.4	45.4	—	39.0	40.4	44.3	—	38.1	39.5	43.3	—	37.2	38.5	42.2	—	35.3	36.6	40.1	—	32.7	33.9	37.1	—		
	S/T	0.68	0.57	0.39	—	0.70	0.59	0.41	—	0.72	0.60	0.42	—	0.75	0.62	0.43	—	0.77	0.65	0.45	—	0.78	0.65	0.45	—		
	ΔT	18	15	12	—	18	16	12	—	18	16	12	—	18	16	12	—	18	16	12	—	17	15	11	—		
	kW	3.04	3.10	3.19	—	3.26	3.32	3.42	—	3.45	3.52	3.63	—	3.62	3.70	3.81	—	3.76	3.84	3.97	—	3.89	3.97	4.10	—		
	HI PR	229	247	261	—	257	277	292	—	293	315	332	—	333	359	379	—	375	403	426	—	414	446	471	—		
	LO PR	106	113	123	—	112	119	130	—	116	124	135	—	122	130	142	—	128	136	149	—	132	141	154	—		
	75	1350	MBh	45.3	46.7	50.5	54.2	44.3	45.6	49.4	53.0	43.2	44.5	48.2	51.7	42.2	43.4	47.0	50.4	40.1	41.3	44.7	47.9	37.1	38.2	41.4	44.4
			S/T	0.84	0.75	0.57	0.37	0.87	0.78	0.59	0.38	0.89	0.80	0.60	0.39	0.92	0.82	0.62	0.40	0.96	0.86	0.65	0.42	0.96	0.86	0.65	0.42
ΔT			19	18	15	10	20	18	15	10	20	18	15	10	20	18	15	10	20	18	15	10	18	17	14	10	
kW			3.16	3.22	3.32	3.42	3.39	3.46	3.56	3.67	3.59	3.66	3.78	3.90	3.77	3.85	3.97	4.09	3.92	4.00	4.13	4.26	4.05	4.14	4.27	4.41	
HI PR			241	260	274	286	271	291	307	321	308	331	350	365	351	377	398	415	394	424	448	467	436	469	495	516	
LO PR		111	118	129	138	118	125	137	146	122	130	142	151	128	137	149	159	135	143	156	167	139	148	162	172		
MBh		44.0	45.3	49.1	52.7	43.0	44.3	47.9	51.4	42.0	43.2	46.8	50.2	41.0	42.2	45.6	49.0	38.9	40.1	43.4	46.5	36.0	37.1	40.2	43.1		
S/T		0.80	0.72	0.54	0.35	0.83	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.88	0.79	0.59	0.38	0.91	0.82	0.62	0.40	0.92	0.82	0.62	0.40		
ΔT		20	19	15	11	21	19	15	11	21	19	15	11	21	19	16	11	20	19	15	11	19	18	14	10		
kW		3.13	3.20	3.29	3.39	3.36	3.43	3.53	3.64	3.56	3.63	3.75	3.87	3.74	3.82	3.94	4.06	3.89	3.97	4.10	4.23	4.02	4.10	4.24	4.37		
HI PR		239	257	271	283	268	288	304	318	305	328	346	361	347	373	394	411	390	420	444	463	431	464	490	511		
LO PR		110	117	128	136	116	124	135	144	121	129	141	150	127	135	148	157	133	142	155	165	138	147	160	171		
MBh		40.6	41.8	45.3	48.6	39.7	40.9	44.2	47.5	38.7	39.9	43.2	46.3	37.8	38.9	42.1	45.2	35.9	37.0	40.0	42.9	33.3	34.2	37.1	39.8		
S/T		0.77	0.69	0.52	0.34	0.80	0.72	0.54	0.35	0.82	0.73	0.56	0.36	0.85	0.76	0.57	0.37	0.88	0.79	0.60	0.38	0.89	0.79	0.60	0.39		
ΔT		21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	19	18	15	10		
kW		3.06	3.12	3.22	3.31	3.28	3.35	3.45	3.56	3.48	3.55	3.66	3.77	3.65	3.73	3.84	3.96	3.80	3.88	4.00	4.13	3.92	4.00	4.13	4.27		
HI PR		232	249	263	275	260	280	295	308	296	318	336	350	337	362	383	399	379	408	430	449	418	450	475	496		
LO PR		107	114	124	132	113	120	131	140	117	125	136	145	123	131	143	153	129	138	150	160	134	142	155	165		

IDB = Entering Indoor Dry Bulb Temperature
 Shaded area reflects ACCA (TVA) conditions
 kW = Total system power
 High and low pressures are measured at the liquid and suction service ports.
 Amps: Unit amps (comp. + evaporator + condenser fan motors)

NOTE: DCC and DCG are approximately the same, DCH variance shown below:

- QT ≈ 1% > DCC
- QS ≈ 6% > DCC
- ΔT ≈ 5% > DCC
- Kw ≈ 1% > DCC

Table 18 continued: Expanded Cooling Data, DCC048 4.0 Tons

IDB		Outdoor Ambient Temperature																								
		65°F				75°F				85°F				95°F				105°F				115°F				
		Entering Indoor Wet Bulb Temperature																								
Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71		
80	1350	MBh	46.1	47.2	50.4	53.9	45.1	46.1	49.2	52.6	44.0	45.0	48.0	51.4	42.9	43.9	46.9	50.1	40.8	41.7	44.5	47.6	37.8	38.6	41.2	44.1
		S/T	0.92	0.86	0.70	0.53	0.95	0.90	0.73	0.54	1.00	0.92	0.75	0.56	1.00	0.95	0.77	0.58	1.00	1.00	0.80	0.60	1.00	1.00	0.81	0.60
		ΔT	22	21	18	14	22	21	18	15	22	21	18	15	22	21	18	15	21	21	18	15	19	20	17	14
		kW	3.18	3.24	3.34	3.44	3.41	3.48	3.59	3.70	3.62	3.69	3.81	3.93	3.80	3.88	4.00	4.13	3.95	4.04	4.16	4.30	4.08	4.17	4.31	4.45
		HI PR	244	262	277	289	273	294	311	324	311	335	353	368	354	381	402	420	398	429	453	472	440	474	500	522
		LO PR	112	120	131	139	119	126	138	147	124	131	143	153	130	138	151	160	136	145	158	168	141	150	163	174
	1200	MBh	44.8	45.8	48.9	52.3	43.8	44.7	47.8	51.1	42.7	43.7	46.6	49.9	41.7	42.6	45.5	48.6	39.6	40.5	43.2	46.2	36.7	37.5	40.0	42.8
		S/T	0.88	0.82	0.67	0.50	0.91	0.85	0.70	0.52	0.93	0.88	0.71	0.53	0.96	0.90	0.74	0.55	1.00	0.94	0.76	0.57	1.00	0.95	0.77	0.58
		ΔT	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	21	20	18	14
		kW	3.16	3.22	3.32	3.42	3.39	3.46	3.56	3.67	3.59	3.66	3.78	3.90	3.77	3.85	3.97	4.10	3.92	4.00	4.13	4.26	4.05	4.14	4.27	4.41
		HI PR	241	260	274	286	271	291	308	321	308	331	350	365	351	377	398	415	394	424	448	467	436	469	495	516
		LO PR	111	118	129	138	118	125	137	146	122	130	142	151	128	137	149	159	135	143	156	167	139	148	162	172
1050	MBh	41.4	42.3	45.1	48.3	40.4	41.3	44.1	47.1	39.4	40.3	43.0	46.0	38.5	39.3	42.0	44.9	36.5	37.3	39.9	42.6	33.9	34.6	37.0	39.5	
	S/T	0.85	0.79	0.65	0.48	0.88	0.82	0.67	0.50	0.90	0.84	0.69	0.51	0.93	0.87	0.71	0.53	0.96	0.90	0.74	0.55	0.97	0.91	0.74	0.55	
	ΔT	23	22	19	15	23	22	19	16	23	22	19	16	23	22	20	16	23	22	19	15	22	21	18	14	
	kW	3.09	3.15	3.24	3.34	3.31	3.38	3.48	3.59	3.50	3.58	3.69	3.80	3.68	3.76	3.87	4.00	3.83	3.91	4.03	4.16	3.95	4.04	4.17	4.30	
	HI PR	234	252	266	277	263	282	298	311	299	321	339	354	340	366	386	403	383	412	435	453	423	455	480	501	
	LO PR	108	115	125	134	114	121	133	141	119	126	138	147	125	133	145	154	131	139	152	162	135	144	157	167	
85	1350	MBh	47.0	47.9	50.1	53.5	45.9	46.7	49.0	52.2	44.8	45.6	47.8	51.0	43.7	44.5	46.6	49.7	41.5	42.3	44.3	47.3	38.4	39.2	41.0	43.8
		S/T	0.97	0.93	0.84	0.68	1.00	0.97	0.87	0.71	1.00	0.99	0.89	0.73	1.00	1.00	0.92	0.75	1.00	1.00	0.96	0.78	1.00	1.00	0.97	0.78
		ΔT	23	23	22	19	23	23	22	19	23	23	22	19	22	23	22	19	21	22	22	19	20	20	20	18
		kW	3.20	3.27	3.37	3.47	3.44	3.51	3.62	3.73	3.65	3.72	3.84	3.96	3.83	3.91	4.03	4.16	3.98	4.07	4.20	4.33	4.12	4.21	4.34	4.48
		HI PR	246	265	280	292	276	297	314	327	314	338	357	372	358	385	406	424	402	433	457	477	444	478	505	527
		LO PR	114	121	132	141	120	128	139	148	125	133	145	154	131	139	152	162	137	146	160	170	142	151	165	176
	1200	MBh	45.6	46.5	48.7	51.9	44.5	45.4	47.5	50.7	43.5	44.3	46.4	49.5	42.4	43.2	45.3	48.3	40.3	41.1	43.0	45.9	37.3	38.0	39.8	42.5
		S/T	0.92	0.89	0.80	0.65	0.95	0.92	0.83	0.67	0.98	0.94	0.85	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.92	0.75
		ΔT	24	24	22	19	24	24	23	20	24	24	23	20	24	24	23	20	23	24	23	20	21	22	21	18
		kW	3.18	3.24	3.34	3.44	3.41	3.48	3.59	3.70	3.62	3.69	3.81	3.93	3.80	3.88	4.00	4.13	3.95	4.04	4.16	4.30	4.08	4.17	4.31	4.45
		HI PR	244	262	277	289	273	294	311	324	311	335	353	368	354	381	402	420	398	429	453	472	440	474	500	522
		LO PR	112	120	131	139	119	126	138	147	124	131	143	153	130	138	151	160	136	145	158	168	141	150	163	174
1050	MBh	42.1	42.9	44.9	47.9	41.1	41.9	43.9	46.8	40.1	40.9	42.8	45.7	39.1	39.9	41.8	44.6	37.2	37.9	39.7	42.4	34.4	35.1	36.8	39.2	
	S/T	0.89	0.86	0.77	0.63	0.92	0.89	0.80	0.65	0.94	0.91	0.82	0.67	0.97	0.94	0.85	0.69	1.00	0.98	0.88	0.71	1.00	0.98	0.89	0.72	
	ΔT	25	24	23	20	25	24	23	20	25	24	23	20	25	25	23	20	24	24	23	20	23	23	21	19	
	kW	3.11	3.17	3.26	3.36	3.33	3.40	3.50	3.61	3.53	3.61	3.72	3.83	3.71	3.78	3.90	4.03	3.86	3.94	4.06	4.19	3.98	4.07	4.20	4.34	
	HI PR	236	254	269	280	265	285	301	314	302	324	343	357	343	370	390	407	386	416	439	458	427	459	485	506	
	LO PR	109	116	127	135	115	123	134	143	120	127	139	148	126	134	146	156	132	140	153	163	136	145	158	169	

IDB = Entering Indoor Dry Bulb Temperature
 Shaded area reflects AHRI conditions
 kW = Total system power
 High and low pressures are measured at the liquid and suction service ports.
 Amps: Unit amps (comp. + evaporator + condenser fan motors)

Table 19: Expanded Cooling Data, DCC060 5.0 Tons

IDB		Outdoor Ambient Temperature																								
		65°F				75°F				85°F				95°F				105°F				115°F				
		Entering Indoor Wet Bulb Temperature																								
Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71		
70	2250	MBh	56.8	58.9	64.5	—	55.5	57.5	63.0	—	54.2	56.2	61.5	—	52.9	54.8	60.0	—	50.2	52.1	57.0	—	46.5	48.2	52.8	—
		S/T	0.74	0.62	0.43	—	0.77	0.64	0.44	—	0.79	0.66	0.46	—	0.81	0.68	0.47	—	0.84	0.70	0.49	—	0.85	0.71	0.49	—
		ΔT	17	15	11	—	17	15	11	—	17	15	11	—	18	15	12	—	17	15	11	—	16	14	11	—
		kW	4.10	4.19	4.32	—	4.41	4.50	4.64	—	4.68	4.78	4.93	—	4.92	5.02	5.18	—	5.12	5.23	5.40	—	5.29	5.41	5.58	—
		HI PR	244	262	277	—	273	294	311	—	311	335	353	—	354	381	402	—	398	429	453	—	440	474	500	—
	LO PR	107	114	125	—	113	121	132	—	118	125	137	—	124	132	144	—	130	138	151	—	134	143	156	—	
	2000	MBh	55.2	57.2	62.7	—	53.9	55.9	61.2	—	52.6	54.5	59.7	—	51.3	53.2	58.3	—	48.8	50.5	55.4	—	45.2	46.8	51.3	—
		S/T	0.71	0.59	0.41	—	0.73	0.61	0.42	—	0.75	0.63	0.43	—	0.77	0.65	0.45	—	0.80	0.67	0.47	—	0.81	0.68	0.47	—
		ΔT	18	16	12	—	18	16	12	—	18	16	12	—	18	16	12	—	18	16	12	—	17	15	11	—
		kW	4.07	4.16	4.28	—	4.37	4.47	4.60	—	4.64	4.74	4.89	—	4.88	4.98	5.14	—	5.08	5.19	5.35	—	5.25	5.36	5.54	—
		HI PR	241	260	274	—	271	291	308	—	308	331	350	—	351	377	398	—	394	424	448	—	436	469	495	—
	LO PR	106	113	123	—	112	119	130	—	117	124	136	—	123	130	142	—	128	137	149	—	133	141	154	—	
	1750	MBh	50.9	52.8	57.8	—	49.7	51.6	56.5	—	48.6	50.3	55.1	—	47.4	49.1	53.8	—	45.0	46.7	51.1	—	41.7	43.2	47.3	—
		S/T	0.68	0.57	0.39	—	0.71	0.59	0.41	—	0.72	0.60	0.42	—	0.75	0.62	0.43	—	0.78	0.65	0.45	—	0.78	0.65	0.45	—
		ΔT	18	16	12	—	18	16	12	—	18	16	12	—	19	16	12	—	18	16	12	—	17	15	11	—
kW		3.98	4.06	4.18	—	4.27	4.36	4.50	—	4.53	4.63	4.77	—	4.76	4.86	5.01	—	4.95	5.06	5.22	—	5.12	5.23	5.40	—	
HI PR		234	252	266	—	263	283	298	—	299	321	339	—	340	366	386	—	383	412	435	—	423	455	480	—	
LO PR	103	110	120	—	109	116	127	—	113	120	131	—	119	127	138	—	125	133	145	—	129	137	150	—		
75	2250	MBh	57.8	59.5	64.4	69.1	56.5	58.1	62.9	67.5	55.1	56.7	61.4	65.9	53.8	55.4	59.9	64.3	51.1	52.6	56.9	61.1	47.3	48.7	52.7	56.6
		S/T	0.84	0.75	0.57	0.37	0.87	0.78	0.59	0.38	0.89	0.80	0.61	0.39	0.92	0.83	0.63	0.40	0.96	0.86	0.65	0.42	0.97	0.86	0.65	0.42
		ΔT	20	18	15	10	20	19	15	10	20	19	15	10	20	19	15	11	20	18	15	10	19	17	14	10
		kW	4.14	4.22	4.35	4.49	4.44	4.54	4.68	4.83	4.72	4.82	4.97	5.13	4.96	5.06	5.22	5.40	5.16	5.27	5.44	5.62	5.34	5.45	5.63	5.82
		HI PR	246	265	280	292	276	297	314	327	314	338	357	372	358	385	407	424	402	433	457	477	445	479	505	527
	LO PR	108	115	126	134	115	122	133	142	119	127	138	147	125	133	145	155	131	139	152	162	136	144	157	168	
	2000	MBh	56.1	57.8	62.5	67.1	54.8	56.4	61.1	65.6	53.5	55.1	59.6	64.0	52.2	53.7	58.2	62.4	49.6	51.1	55.3	59.3	45.9	47.3	51.2	54.9
		S/T	0.80	0.72	0.54	0.35	0.83	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.88	0.79	0.60	0.38	0.91	0.82	0.62	0.40	0.92	0.82	0.62	0.40
		ΔT	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	19	18	15	10
		kW	4.11	4.19	4.32	4.45	4.41	4.50	4.64	4.79	4.68	4.78	4.93	5.09	4.92	5.02	5.18	5.35	5.12	5.23	5.40	5.58	5.29	5.41	5.58	5.77
		HI PR	244	262	277	289	273	294	311	324	311	335	353	369	354	381	402	420	398	429	453	472	440	474	500	522
	LO PR	107	114	125	133	113	121	132	140	118	125	137	146	124	132	144	153	130	138	151	161	134	143	156	166	
	1750	MBh	51.8	53.3	57.7	62.0	50.6	52.1	56.4	60.5	49.4	50.8	55.0	59.1	48.2	49.6	53.7	57.6	45.8	47.1	51.0	54.7	42.4	43.7	47.3	50.7
		S/T	0.77	0.69	0.52	0.34	0.80	0.72	0.54	0.35	0.82	0.74	0.56	0.36	0.85	0.76	0.57	0.37	0.88	0.79	0.60	0.38	0.89	0.79	0.60	0.39
		ΔT	21	19	16	11	21	20	16	11	21	20	16	11	21	20	16	11	21	20	16	11	20	18	15	10
kW		4.01	4.09	4.22	4.35	4.31	4.40	4.53	4.67	4.57	4.66	4.81	4.96	4.80	4.90	5.06	5.22	4.99	5.10	5.26	5.44	5.16	5.27	5.44	5.62	
HI PR		236	254	269	280	265	285	301	314	302	325	343	358	344	370	390	407	387	416	439	458	427	460	485	506	
LO PR	104	111	121	129	110	117	128	136	114	122	133	141	120	128	140	149	126	134	146	156	130	139	151	161		

IDB = Entering Indoor Dry Bulb Temperature
 Shaded area reflects ACCA (TVA) conditions
 kW = Total system power
 High and low pressures are measured at the liquid and suction service ports.
 Amps: Unit amps (comp.+ evaporator + condenser fan motors)

NOTE: DCC and DCG are approximately the same, DCH variance shown below:

- QT ≈ 1% > DCC
- QS ≈ 6% > DCC
- ΔT ≈ 5% > DCC
- Kw ≈ 1% > DCC

Table 19 continued: Expanded Cooling Data, DCC060 5.0 Tons

IDB		Outdoor Ambient Temperature																								
		65°F				75°F				85°F				95°F				105°F				115°F				
		Entering Indoor Wet Bulb Temperature																								
Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71		
80	2250	MBh	58.8	60.1	64.2	68.7	57.5	58.7	62.7	67.1	56.1	57.3	61.2	65.5	54.7	55.9	59.7	63.9	52.0	53.1	56.8	60.7	48.2	49.2	52.6	56.2
		S/T	0.92	0.87	0.70	0.5	0.96	0.90	0.73	0.5	1.00	0.92	0.75	0.6	1.00	0.95	0.77	0.6	1.00	1.00	0.80	0.6	1.00	1.00	0.81	0.6
		ΔT	22	21	18	15	22	22	19	15	23	22	19	15	22	22	19	15	21	22	19	15	20	20	17	13.9
		kW	4.17	4.25	4.38	4.5	4.48	4.57	4.72	4.9	4.75	4.86	5.01	5.2	5.00	5.10	5.27	5.4	5.20	5.32	5.49	5.7	5.38	5.50	5.68	5.9
		HI PR	249	268	283	294.7	279	300	317	330.6	317	341	361	376.0	361	389	411	428.3	407	437	462	481.8	449	483	510	532.3
		LO PR	110	117	127	135.5	116	123	134	143.2	120	128	140	148.8	126	134	147	156.3	132	141	154	163.8	137	146	159	169.4
	2000	MBh	57.1	58.4	62.4	66.7	55.8	57.0	60.9	65.1	54.5	55.6	59.5	63.6	53.1	54.3	58.0	62.0	50.5	51.6	55.1	58.9	46.8	47.8	51.0	54.6
		S/T	0.88	0.83	0.67	0.5	0.91	0.86	0.70	0.5	0.94	0.88	0.71	0.5	0.97	0.91	0.74	0.6	1.00	0.94	0.77	0.6	1.00	0.95	0.77	0.6
		ΔT	23	22	19	15	23	22	20	16	23	22	20	16	24	23	20	16	23	22	19	15	21	21	18	14.5
		kW	4.14	4.22	4.35	4.5	4.44	4.54	4.68	4.8	4.72	4.82	4.97	5.1	4.96	5.06	5.23	5.4	5.16	5.27	5.44	5.6	5.34	5.45	5.63	5.8
		HI PR	246	265	280	291.7	276	297	314	327.4	314	338	357	372.3	358	385	407	424.0	402	433	457	477.0	445	479	505	527.1
		LO PR	108	115	126	134.2	115	122	133	141.7	119	127	138	147.3	125	133	145	154.7	131	139	152	162.2	136	144	158	167.7
	1750	MBh	52.7	53.9	57.5	61.5	51.5	52.6	56.2	60.1	50.3	51.4	54.9	58.7	49.0	50.1	53.5	57.2	46.6	47.6	50.9	54.4	43.2	44.1	47.1	50.4
		S/T	0.85	0.80	0.65	0.5	0.88	0.83	0.67	0.5	0.90	0.85	0.69	0.5	0.93	0.87	0.71	0.5	0.97	0.91	0.74	0.6	0.97	0.91	0.74	0.6
		ΔT	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	22	21	18	14.7
		kW	4.04	4.12	4.25	4.4	4.34	4.43	4.57	4.7	4.60	4.70	4.85	5.0	4.84	4.94	5.10	5.3	5.03	5.14	5.31	5.5	5.20	5.32	5.49	5.7
		HI PR	239	257	271	283.0	268	288	304	317.5	305	328	346	361.1	347	373	394	411.3	390	420	444	462.7	431	464	490	511.3
		LO PR	105	112	122	130.1	111	118	129	137.5	116	123	134	142.9	121	129	141	150.1	127	135	148	157.3	132	140	153	162.7
85	2250	MBh	59.9	61.0	63.9	68.2	58.5	59.6	62.4	66.6	57.1	58.2	60.9	65.0	55.7	56.8	59.4	63.4	52.9	53.9	56.5	60.2	49.0	49.9	52.3	55.8
		S/T	0.97	0.93	0.84	0.7	1.00	0.97	0.87	0.7	1.00	0.99	0.90	0.7	1.00	1.00	0.92	0.8	1.00	1.00	0.96	0.8	1.00	1.00	0.97	0.8
		ΔT	24	23	22	19	24	24	22	19	23	24	22	19	23	23	22	19	22	22	19	20	20	21	17.9	
		kW	4.20	4.29	4.42	4.6	4.51	4.61	4.75	4.9	4.79	4.89	5.05	5.2	5.04	5.15	5.31	5.5	5.24	5.36	5.53	5.7	5.42	5.54	5.72	5.9
		HI PR	251	270	285	297.6	282	303	320	333.9	320	345	364	379.8	365	393	415	432.6	411	442	467	486.6	454	488	515	537.7
		LO PR	111	118	129	136.9	117	124	136	144.6	121	129	141	150.3	128	136	148	157.9	134	142	155	165.4	138	147	161	171.1
	2000	MBh	58.1	59.2	62.0	66.2	56.8	57.9	60.6	64.6	55.4	56.5	59.2	63.1	54.1	55.1	57.7	61.6	51.4	52.3	54.8	58.5	47.6	48.5	50.8	54.2
		S/T	0.92	0.89	0.80	0.7	0.96	0.92	0.83	0.7	0.98	0.95	0.85	0.7	1.00	0.98	0.88	0.7	1.00	1.00	0.92	0.7	1.00	1.00	0.92	0.7
		ΔT	25	24	23	20	25	25	23	20	25	25	23	20	25	25	23	20	24	24	23	20	22	22	22	18.6
		kW	4.17	4.25	4.38	4.5	4.48	4.57	4.72	4.9	4.75	4.86	5.01	5.2	5.00	5.10	5.27	5.4	5.20	5.32	5.49	5.7	5.38	5.50	5.68	5.9
		HI PR	249	268	283	294.7	279	300	317	330.6	317	341	361	376.0	361	389	411	428.3	407	437	462	481.8	449	483	510	532.3
		LO PR	110	117	127	135.5	116	123	134	143.2	120	128	140	148.8	126	134	147	156.3	132	141	154	163.8	137	146	159	169.4
	1750	MBh	53.6	54.7	57.3	61.1	52.4	53.4	55.9	59.7	51.1	52.1	54.6	58.2	49.9	50.9	53.3	56.8	47.4	48.3	50.6	54.0	43.9	44.8	46.9	50.0
		S/T	0.89	0.86	0.78	0.6	0.92	0.89	0.80	0.7	0.95	0.91	0.82	0.7	0.98	0.94	0.85	0.7	1.00	0.98	0.88	0.7	1.00	0.99	0.89	0.7
		ΔT	25	25	23	20	25	25	24	20	25	25	24	20	26	25	24	21	25	25	23	20	23	23	22	19.0
		kW	4.07	4.16	4.28	4.4	4.37	4.47	4.60	4.7	4.64	4.74	4.89	5.0	4.88	4.98	5.14	5.3	5.07	5.18	5.35	5.5	5.25	5.36	5.54	5.7
		HI PR	241	260	274	285.8	271	291	307	320.7	308	331	350	364.7	351	377	398	415.4	394	424	448	467.4	436	469	495	516.4
		LO PR	106	113	123	131.4	112	119	130	138.9	117	124	136	144.3	123	130	142	151.6	128	137	149	158.9	133	141	154	164.3

IDB = Entering Indoor Dry Bulb Temperature
 Shaded area reflects AHRI conditions
 kW = Total system power
 High and low pressures are measured at the liquid and suction service ports.
 Amps: Unit amps (comp.+ evaporator + condenser fan motors)

Table 20: Expanded Cooling Data, DCC072 6.0 Tons

IDB		Outdoor Ambient Temperature																								
		65°F				75°F				85°F				95°F				105°F				115°F				
		Entering Indoor Wet Bulb Temperature																								
Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71		
70	2250	MBh	69.6	72.1	79.0	—	68.0	70.4	77.2	—	66.3	68.8	75.3	—	64.7	67.1	73.5	—	61.5	63.7	69.8	—	57.0	59.0	64.7	—
		S/T	0.71	0.60	0.41	—	0.74	0.62	0.43	—	0.76	0.63	0.44	—	0.78	0.65	0.45	—	0.81	0.68	0.47	—	0.82	0.68	0.47	—
		ΔT	17	15	11	—	17	15	11	—	17	15	11	—	18	15	12	—	17	15	11	—	16	14	11	—
		kW	5.00	5.10	5.25	—	5.36	5.47	5.64	—	5.68	5.80	5.98	—	5.97	6.10	6.29	—	6.21	6.34	6.54	—	6.42	6.56	6.77	—
		HI PR	231	248	262	—	259	279	294	—	295	317	335	—	336	361	381	—	377	406	429	—	417	449	474	—
	LO PR	107	114	124	—	113	120	131	—	117	125	136	—	123	131	143	—	129	138	150	—	134	142	155	—	
	2000	MBh	67.5	70.0	76.7	—	66.0	68.4	74.9	—	64.4	66.8	73.1	—	62.8	65.1	71.4	—	59.7	61.9	67.8	—	55.3	57.3	62.8	—
		S/T	0.68	0.57	0.39	—	0.70	0.59	0.41	—	0.72	0.60	0.42	—	0.75	0.62	0.43	—	0.77	0.65	0.45	—	0.78	0.65	0.45	—
		ΔT	18	16	12	—	18	16	12	—	18	16	12	—	18	16	12	—	18	16	12	—	17	15	11	—
		kW	4.96	5.06	5.21	—	5.32	5.43	5.60	—	5.64	5.76	5.94	—	5.92	6.05	6.24	—	6.16	6.29	6.49	—	6.37	6.50	6.71	—
		HI PR	229	246	260	—	256	276	291	—	292	314	331	—	332	357	377	—	374	402	425	—	413	444	469	—
	LO PR	106	113	123	—	112	119	130	—	116	124	135	—	122	130	142	—	128	136	149	—	132	141	154	—	
	1750	MBh	62.3	64.6	70.8	—	60.9	63.1	69.2	—	59.4	61.6	67.5	—	58.0	60.1	65.9	—	55.1	57.1	62.6	—	51.0	52.9	58.0	—
		S/T	0.66	0.55	0.38	—	0.68	0.57	0.39	—	0.70	0.58	0.40	—	0.72	0.60	0.42	—	0.75	0.62	0.43	—	0.75	0.63	0.44	—
		ΔT	18	16	12	—	19	16	12	—	19	16	12	—	19	16	12	—	18	16	12	—	17	15	11	—
kW		4.85	4.95	5.09	—	5.20	5.31	5.47	—	5.51	5.62	5.80	—	5.78	5.90	6.09	—	6.01	6.14	6.33	—	6.21	6.35	6.55	—	
HI PR		222	239	252	—	249	268	283	—	283	304	321	—	322	347	366	—	363	390	412	—	401	431	455	—	
LO PR	103	109	119	—	109	115	126	—	113	120	131	—	119	126	138	—	124	132	144	—	128	137	149	—		
75	2250	MBh	70.8	72.8	78.9	84.6	69.1	71.2	77.0	82.7	67.5	69.5	75.2	80.7	65.8	67.8	73.3	78.7	62.5	64.4	69.7	74.8	57.9	59.6	64.5	69.3
		S/T	0.81	0.73	0.55	0.35	0.84	0.75	0.57	0.37	0.86	0.77	0.58	0.38	0.89	0.80	0.60	0.39	0.92	0.83	0.62	0.40	0.93	0.83	0.63	0.41
		ΔT	20	18	15	10	20	19	15	10	20	19	15	11	20	19	15	11	20	18	15	10	19	17	14	10
		kW	5.04	5.14	5.29	5.45	5.41	5.52	5.69	5.86	5.73	5.85	6.03	6.22	6.02	6.14	6.34	6.54	6.26	6.39	6.60	6.81	6.47	6.61	6.82	7.05
		HI PR	233	251	265	276	262	282	297	310	298	320	338	353	339	365	385	402	381	410	433	452	421	453	479	499
	LO PR	108	115	126	134	114	121	133	141	119	126	138	147	125	133	145	154	131	139	152	162	135	144	157	167	
	2000	MBh	68.7	70.7	76.6	82.2	67.1	69.1	74.8	80.3	65.5	67.4	73.0	78.3	63.9	65.8	71.2	76.4	60.7	62.5	67.7	72.6	56.2	57.9	62.7	67.3
		S/T	0.77	0.69	0.52	0.34	0.80	0.72	0.54	0.35	0.82	0.73	0.56	0.36	0.85	0.76	0.57	0.37	0.88	0.79	0.60	0.38	0.89	0.79	0.60	0.39
		ΔT	21	19	16	11	21	19	16	11	21	19	16	11	21	20	16	11	21	19	16	11	20	18	15	10
		kW	5.00	5.10	5.25	5.41	5.36	5.47	5.64	5.82	5.69	5.80	5.98	6.17	5.97	6.10	6.29	6.49	6.21	6.34	6.55	6.76	6.42	6.56	6.77	6.99
		HI PR	231	248	262	274	259	279	294	307	295	317	335	349	336	361	381	398	378	406	429	447	417	449	474	494
	LO PR	107	114	124	132	113	120	131	140	118	125	136	145	123	131	143	153	129	138	150	160	134	142	155	165	
	1750	MBh	63.4	65.3	70.7	75.8	61.9	63.8	69.0	74.1	60.5	62.2	67.4	72.3	59.0	60.7	65.7	70.5	56.0	57.7	62.4	67.0	51.9	53.4	57.8	62.1
		S/T	0.75	0.67	0.50	0.32	0.77	0.69	0.52	0.34	0.79	0.71	0.54	0.35	0.82	0.73	0.55	0.36	0.85	0.76	0.57	0.37	0.86	0.77	0.58	0.37
		ΔT	21	20	16	11	21	20	16	11	21	20	16	11	22	20	16	11	21	20	16	11	20	18	15	10
kW		4.89	4.98	5.13	5.29	5.24	5.35	5.51	5.68	5.55	5.67	5.84	6.03	5.83	5.95	6.14	6.33	6.06	6.19	6.39	6.59	6.26	6.40	6.60	6.82	
HI PR		224	241	254	265	251	270	286	298	286	308	325	339	326	350	370	386	366	394	416	434	405	435	460	480	
LO PR	104	110	121	128	110	117	127	136	114	121	132	141	120	127	139	148	125	133	146	155	130	138	151	161		

IDB = Entering Indoor Dry Bulb Temperature
 Shaded area reflects ACCA (TVA) conditions
 kW = Total system power
 High and low pressures are measured at the liquid and suction service ports.
 Amps: Unit amps (comp.+ evaporator + condenser fan motors)

NOTE: DCC and DCG are approximately the same, DCH variance shown below:

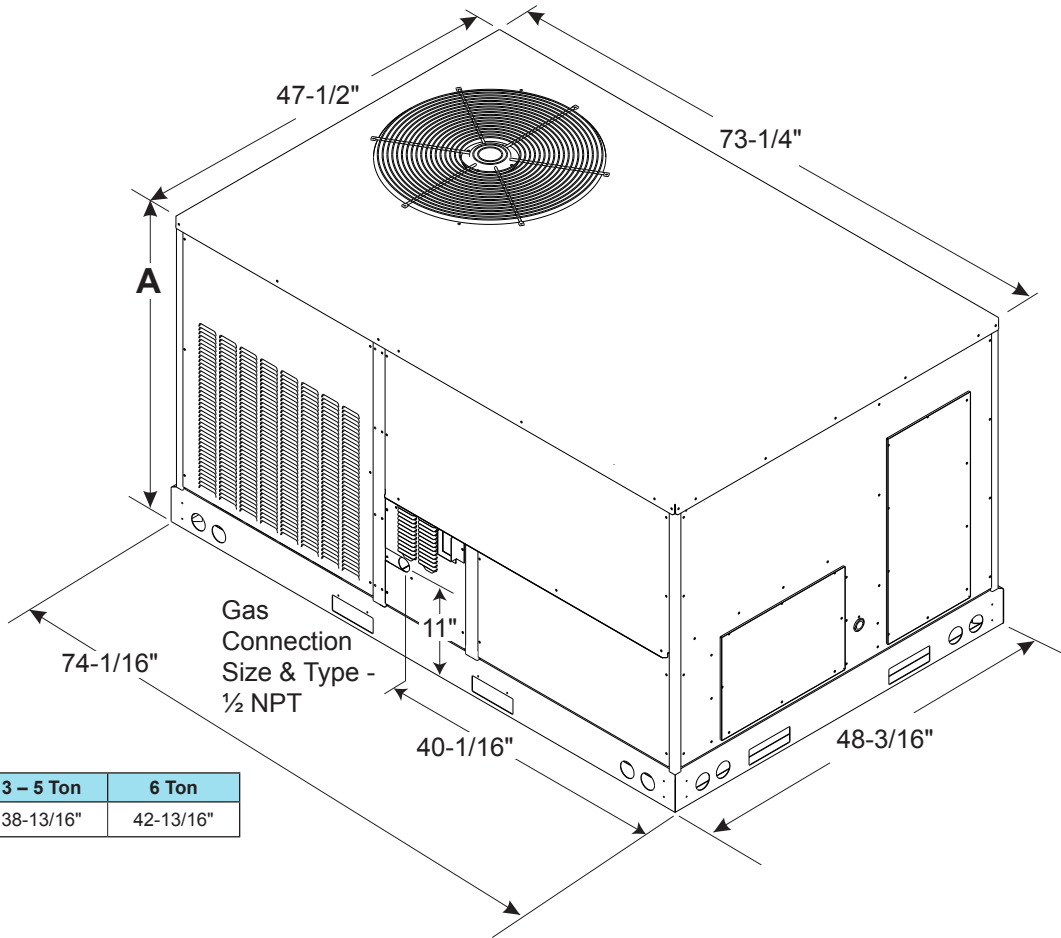
- QT ≈ 1% > DCC
- QS ≈ 6% > DCC
- ΔT ≈ 5% > DCC
- Kw ≈ 1% > DCC

Table 20 continued: Expanded Cooling Data, DCC072 6.0 Tons

IDB		Outdoor Ambient Temperature																								
		65°F				75°F				85°F				95°F				105°F				115°F				
		Entering Indoor Wet Bulb Temperature																								
Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71		
80	2250	MBh	72.0	73.6	78.6	84.0	70.3	71.9	76.8	82.1	68.7	70.2	75.0	80.1	67.0	68.4	73.1	78.2	63.6	65.0	69.5	74.3	58.9	60.2	64.4	68.8
		S/T	0.89	0.83	0.68	0.5	0.92	0.86	0.70	0.5	0.94	0.89	0.72	0.5	1.00	0.91	0.74	0.6	1.00	0.95	0.77	0.6	1.00	0.96	0.78	0.6
		ΔT	22	21	19	15	22	22	19	15	23	22	19	15	23	22	19	15	22	21	19	15	20	20	17	13.9
		kW	5.08	5.18	5.33	5.5	5.45	5.56	5.73	5.9	5.78	5.90	6.08	6.3	6.07	6.19	6.39	6.6	6.31	6.45	6.65	6.9	6.52	6.67	6.88	7.1
		HI PR	236	253	268	279.2	264	284	300	313.3	301	323	342	356.3	342	368	389	405.8	385	414	438	456.5	426	458	484	504.4
		LO PR	109	116	127	135.0	115	123	134	142.7	120	128	139	148.3	126	134	146	155.8	132	140	153	163.2	136	145	159	168.8
	2000	MBh	69.9	71.4	76.3	81.6	68.3	69.8	74.6	79.7	66.7	68.1	72.8	77.8	65.0	66.5	71.0	75.9	61.8	63.1	67.5	72.1	57.2	58.5	62.5	66.8
		S/T	0.85	0.80	0.65	0.5	0.88	0.82	0.67	0.5	0.90	0.85	0.69	0.5	0.93	0.87	0.71	0.5	0.97	0.91	0.74	0.6	0.97	0.91	0.74	0.6
		ΔT	23	22	19	15	23	22	20	16	23	23	20	16	24	23	20	16	23	22	19	16	22	21	18	14.5
		kW	5.04	5.14	5.29	5.5	5.41	5.52	5.69	5.9	5.73	5.85	6.03	6.2	6.02	6.15	6.34	6.5	6.26	6.40	6.60	6.8	6.47	6.61	6.82	7.0
		HI PR	233	251	265	276.4	262	282	297	310.2	298	320	338	352.7	339	365	385	401.8	381	410	433	452.0	421	453	479	499.4
		LO PR	108	115	126	133.7	114	121	133	141.3	119	126	138	146.8	125	133	145	154.2	131	139	152	161.6	135	144	157	167.2
	1750	MBh	64.5	65.9	70.4	75.3	63.0	64.4	68.8	73.6	61.5	62.9	67.2	71.8	60.0	61.3	65.5	70.1	57.0	58.3	62.3	66.6	52.8	54.0	57.7	61.6
		S/T	0.82	0.77	0.62	0.5	0.85	0.79	0.65	0.5	0.87	0.81	0.66	0.5	0.90	0.84	0.68	0.5	0.93	0.87	0.71	0.5	0.94	0.88	0.72	0.5
		ΔT	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	22	21	19	14.8
		kW	4.92	5.02	5.17	5.3	5.28	5.39	5.55	5.7	5.60	5.71	5.89	6.1	5.87	6.00	6.19	6.4	6.11	6.24	6.44	6.6	6.31	6.45	6.66	6.9
		HI PR	226	243	257	268.1	254	273	288	300.9	289	311	328	342.2	329	354	374	389.7	370	398	420	438.4	409	440	464	484.4
		LO PR	105	112	122	129.7	111	118	129	137.0	115	122	134	142.4	121	129	140	149.6	127	135	147	156.8	131	139	152	162.2
85	2250	MBh	73.3	74.7	78.2	83.5	71.6	73.0	76.4	81.5	69.9	71.2	74.6	79.6	68.2	69.5	72.8	77.6	64.7	66.0	69.1	73.7	60.0	61.1	64.0	68.3
		S/T	0.93	0.90	0.81	0.7	0.97	0.93	0.84	0.7	0.99	0.96	0.86	0.7	1.00	0.99	0.89	0.7	1.00	1.00	0.92	0.7	1.00	1.00	0.93	0.8
		ΔT	24	23	22	19	24	24	22	19	24	24	22	19	24	24	22	19	22	23	22	19	21	21	21	17.9
		kW	5.11	5.22	5.37	5.5	5.49	5.60	5.78	6.0	5.82	5.94	6.13	6.3	6.11	6.24	6.44	6.6	6.36	6.50	6.71	6.9	6.58	6.72	6.94	7.2
		HI PR	238	256	270	282.0	267	287	303	316.4	304	327	345	359.8	346	372	393	409.8	389	419	442	461.1	430	463	488	509.4
		LO PR	110	117	128	136.4	116	124	135	144.1	121	129	141	149.8	127	135	148	157.3	133	142	155	164.9	138	147	160	170.5
	2000	MBh	71.1	72.5	75.9	81.0	69.5	70.8	74.2	79.1	67.8	69.1	72.4	77.3	66.2	67.5	70.6	75.4	62.9	64.1	67.1	71.6	58.2	59.4	62.2	66.3
		S/T	0.89	0.86	0.77	0.6	0.92	0.89	0.80	0.7	0.94	0.91	0.82	0.7	0.98	0.94	0.85	0.7	1.00	0.98	0.88	0.7	1.00	0.98	0.89	0.7
		ΔT	25	24	23	20	25	25	23	20	25	25	23	20	25	25	23	20	25	24	23	20	23	23	22	18.7
		kW	5.08	5.18	5.33	5.5	5.45	5.56	5.73	5.9	5.78	5.90	6.08	6.3	6.07	6.19	6.39	6.6	6.31	6.45	6.65	6.9	6.52	6.67	6.88	7.1
		HI PR	236	253	268	279.2	264	284	300	313.3	301	323	342	356.3	342	368	389	405.8	385	414	438	456.5	426	458	484	504.4
		LO PR	109	116	127	135.0	115	123	134	142.7	120	128	139	148.3	126	134	146	155.8	132	140	153	163.2	136	145	159	168.8
	1750	MBh	65.7	66.9	70.1	74.8	64.1	65.4	68.5	73.0	62.6	63.8	66.8	71.3	61.1	62.3	65.2	69.6	58.0	59.1	61.9	66.1	53.7	54.8	57.4	61.2
		S/T	0.86	0.83	0.75	0.6	0.89	0.86	0.77	0.6	0.91	0.88	0.79	0.6	0.94	0.91	0.82	0.7	0.98	0.94	0.85	0.7	0.98	0.95	0.86	0.7
		ΔT	25	25	23	20	26	25	24	21	26	25	24	21	26	25	24	21	25	25	24	20	24	23	22	19.1
		kW	4.96	5.06	5.21	5.4	5.32	5.43	5.60	5.8	5.64	5.76	5.94	6.1	5.92	6.05	6.24	6.4	6.16	6.29	6.49	6.7	6.37	6.50	6.71	6.9
		HI PR	228	246	260	270.8	256	276	291	303.9	292	314	331	345.6	332	357	377	393.6	374	402	425	442.8	413	444	469	489.3
		LO PR	106	113	123	131.0	112	119	130	138.4	116	124	135	143.8	122	130	142	151.1	128	136	149	158.3	132	141	154	163.8

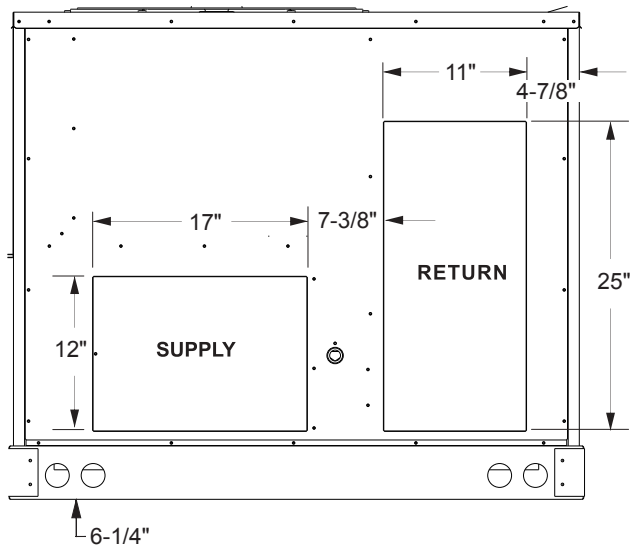
IDB = Entering Indoor Dry Bulb Temperature
 Shaded area reflects AHRI conditions
 kW = Total system power
 High and low pressures are measured at the liquid and suction service ports.
 Amps: Unit amps (comp.+ evaporator + condenser fan motors)

Figure 1: Dimensional Data 3-6 Ton Units

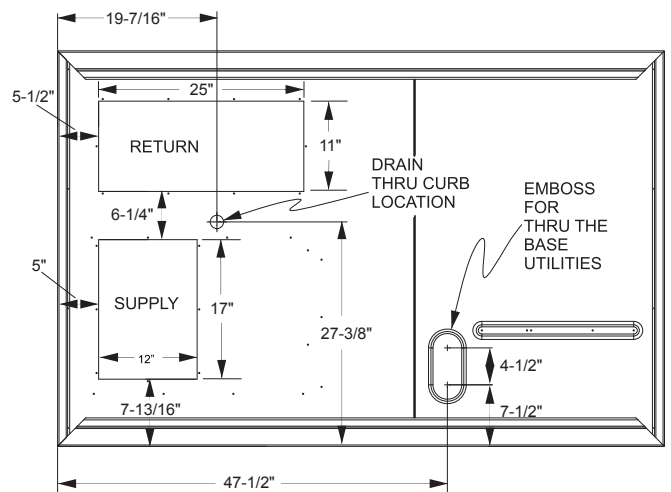


Unit Variable	3 - 5 Ton	6 Ton
A	38-13/16"	42-13/16"

Horizontal Discharge



Vertical Discharge



Unit Clearances

Maintain an adequate clearance around the unit for safety, service, maintenance, and proper unit operation. Leave a total clearance of 75" on the main control panel side of the unit for possible removal of fan shaft, coil, electric heat, and gas furnace. Leave a clearance of 48" on all other sides of the unit for possible compressor removal or service access, and to ensure proper ventilation and condenser airflow. Do not install the unit beneath any obstruction. Install the unit away from all building exhausts to inhibit ingestion of exhaust air into the unit's fresh-air intake.

Figure 2: Unit Clearances

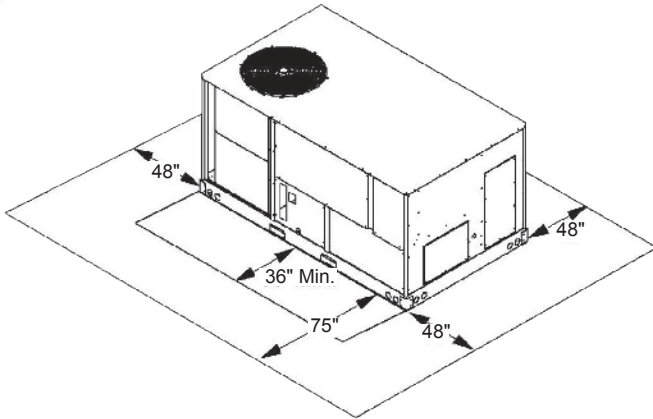
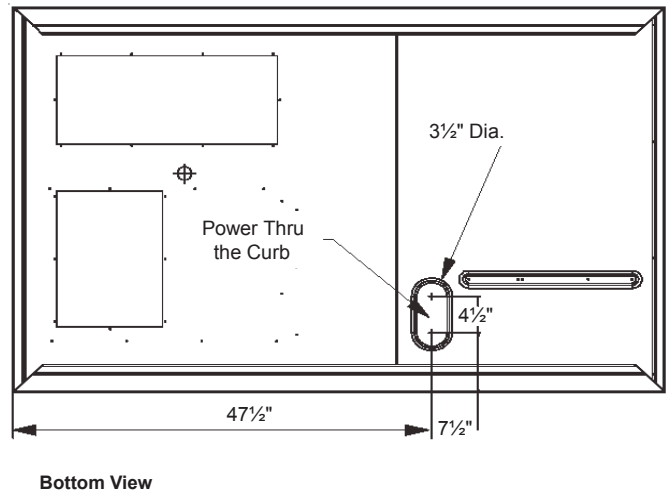
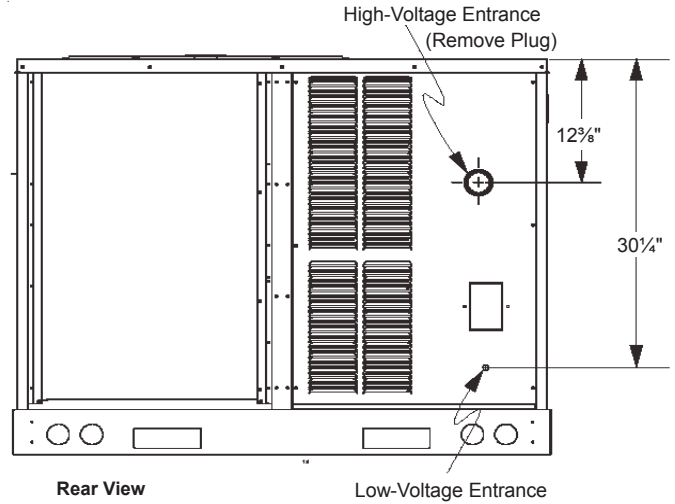


Figure 3: Electrical Entrance Locations



Unit Rigging

Provisions for forks have been included in the unit base frame. No other fork locations are approved.

- Unit must be lifted by the four lifting holes located at the base frame corners.
- Lifting cables should be attached to the unit with shackles.
- The distance between the crane hook and the top of the unit must not be less than 60”.
- Two spreader bars must span over the unit to prevent damage to the cabinet by the lift cables. Spreader bars must be of sufficient length so that cables do not come in contact with the unit during transport. Remove wood struts mounted beneath unit base frame before setting unit on roof curb. These struts are intended to protect unit base frame from fork lift damage. To remove the struts, extract the sheet metal retainers and pull the struts through the base of the unit. Refer to rigging label on the unit.

Important: If using bottom discharge with roof curb, duct-work should be attached to the curb prior to installing the unit. Duct-work dimensions are shown in Roof Curb Installation Instructions Manual.

Refer to the Roof Curb Installation Instructions for proper curb installation. Curbing must be installed in compliance with the National Roofing Contractors Association Manual.

Lower unit carefully onto roof mounting curb. While rigging the unit, the center of gravity will cause the condenser end to be lower than the supply air end.

Bring condenser end of unit into alignment with the curb. With condenser end of the unit resting on curb member and using curb as a fulcrum, lower opposite end of the unit until entire unit is seated on the curb. When a rectangular cantilever curb is used, take care to center the unit. Check for proper alignment and orientation of supply and return openings with duct.

Figure 4: Unit Rigging

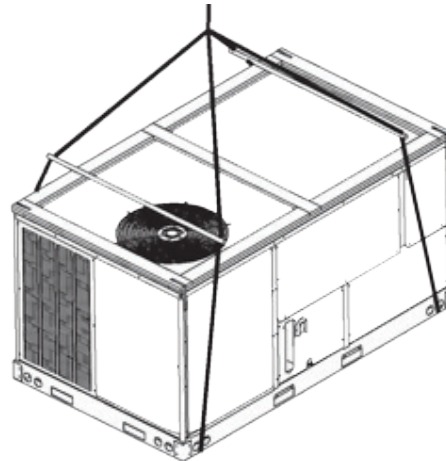


Figure 5: Corner and Center-of-Gravity Locations

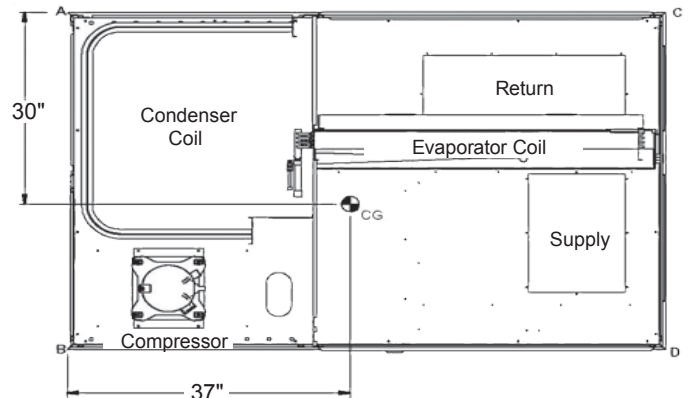


Table 21: 036-072 Weights

Unit Weights	3-Ton Weights	4-Ton Weights	5-Ton Weights	6-Ton Weights
Corner Weight (A)	100	110	115	130
Corner Weight (B)	170	180	195	215
Corner Weight (C)	105	110	120	130
Corner Weight (D)	170	180	195	215
Unit Shipping Weight	550	595	625	715
Unit Operating Weight	525	570	600	690

Note: Weights are calculated without accessories installed.

Roof Curb Installation

Curb installations must comply with local codes and should follow the established guidelines of the National Roofing Contractors Association.

Proper unit installation requires that the roof curb be firmly and permanently attached to the roof structure. Check for adequate fastening method prior to setting the unit on the curb.

Full perimeter roof curbs are available from the factory and are shipped unassembled. The installing contractor is responsible for field assembly, squaring, leveling, and mounting on the roof structure. All required hardware necessary for the assembly of the sheet metal curb is included in the curb accessory package.

- Determine sufficient structural support before locating and mounting the curb and package unit.
- Duct-work must be constructed using industry guidelines. The duct-work must be placed into the roof curb before mounting the package unit. Our full perimeter curbs include duct connection frames to be assembled with the curb. Cantilevered-type curbs are not available from the factory.
- Contractor furnishes curb insulation, cant strips, flashing, and general roofing material.
- Support curbs on parallel sides with roof members. To prevent damage to the unit, the roof members cannot penetrate supply and return duct openings.

NOTE: The unit and curb accessories are designed to allow vertical duct installation before unit placement. Duct installation after unit placement is not recommended.

See the manual shipped with the roof curb for assembly and installation instructions.

Figure 6: 036-072 Roof Curb

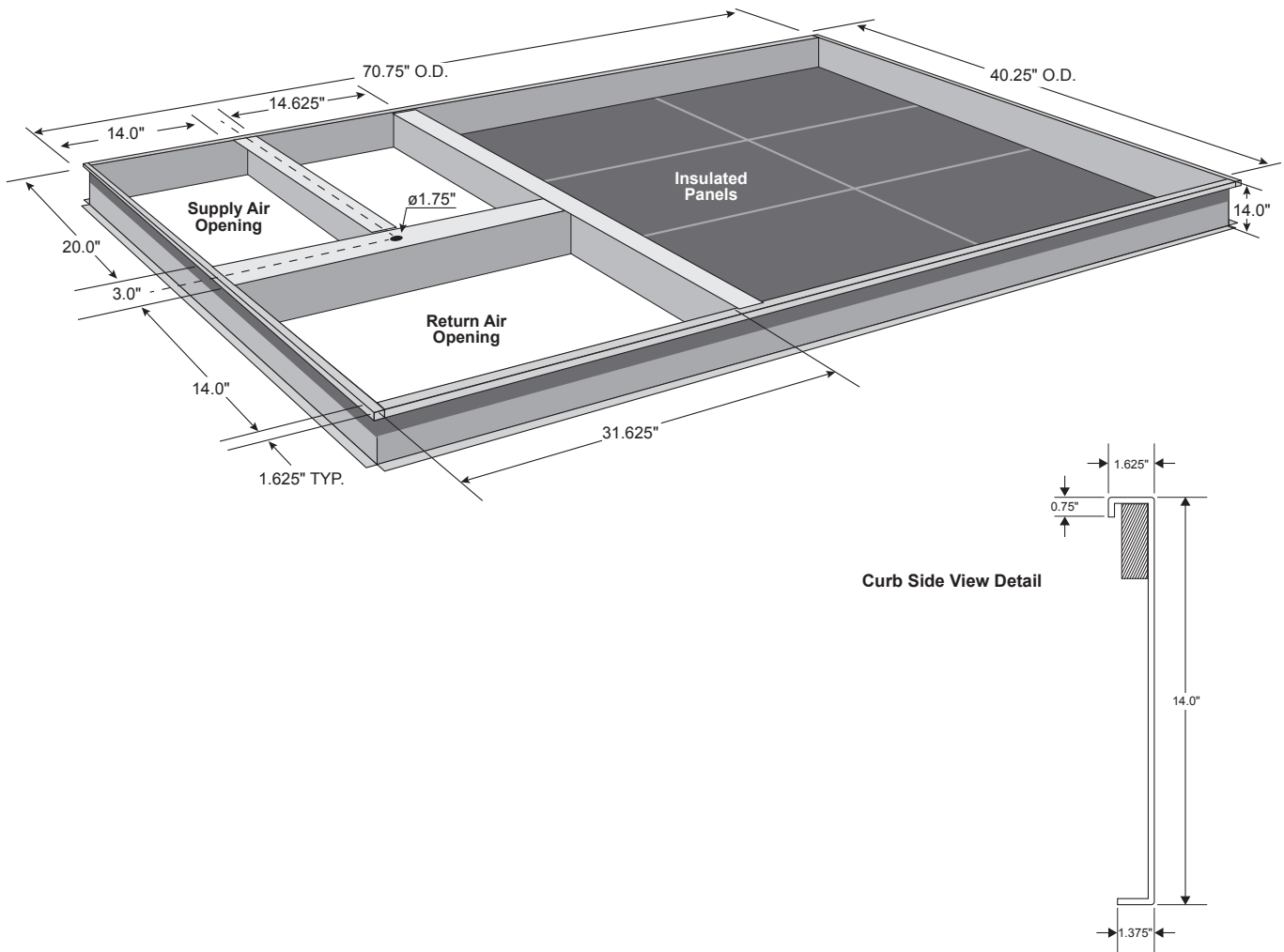
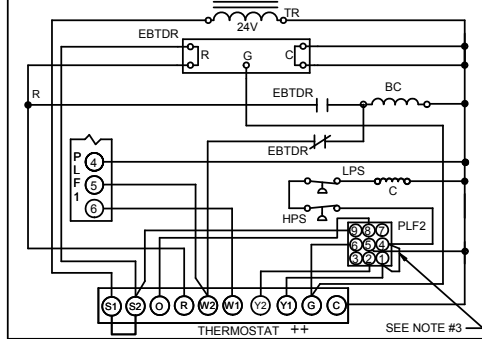
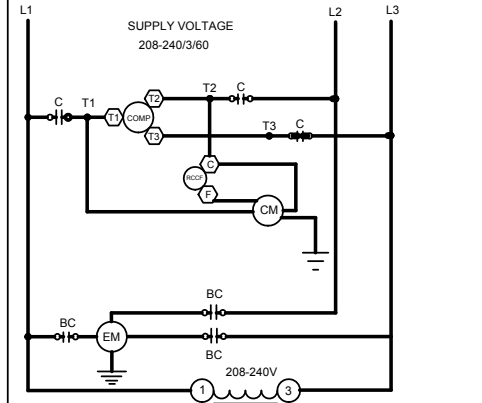
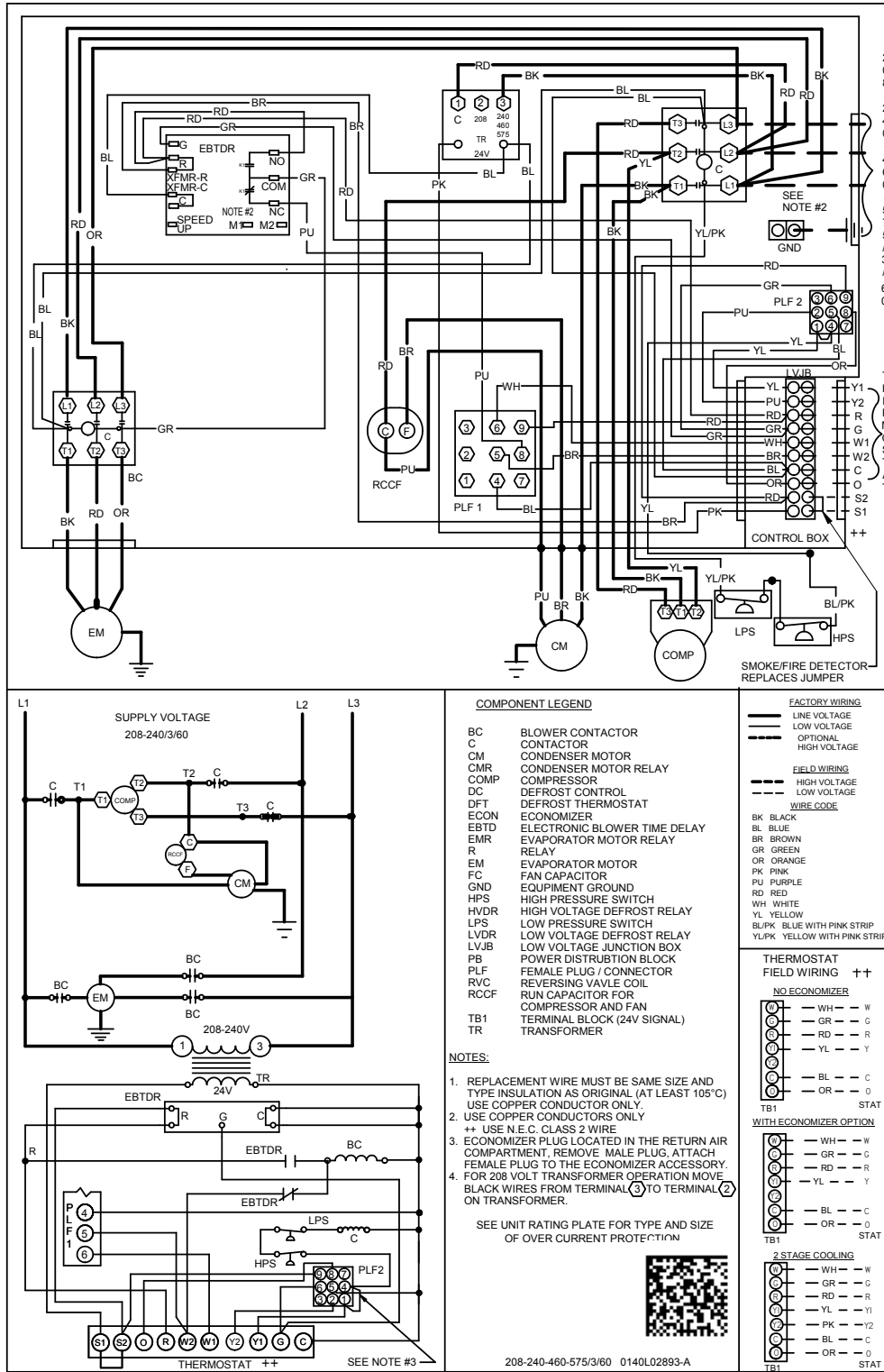


Figure 7: Wiring Diagram — DCC 3 through 6 Tons (230/460/575V, Three-Phase, Belt-Drive)



COMPONENT LEGEND

BC	BLOWER CONTACTOR
C	CONTACTOR
CM	CONDENSER MOTOR
CMR	CONDENSER MOTOR RELAY
COMP	COMPRESSOR
DC	DEFROST CONTROL
DFT	DEFROST THERMOSTAT
ECON	ECONOMIZER
EBTD	ELECTRONIC BLOWER TIME DELAY
EMR	EVAPORATOR MOTOR RELAY
R	RELAY
EM	EVAPORATOR MOTOR
FC	FAN CAPACITOR
GND	EQUIPMENT GROUND
HPS	HIGH PRESSURE SWITCH
HVDR	HIGH VOLTAGE DEFROST RELAY
LPS	LOW PRESSURE SWITCH
LVDR	LOW VOLTAGE DEFROST RELAY
LVJB	LOW VOLTAGE JUNCTION BOX
PB	POWER DISTRIBUTION BLOCK
PLF	FEMALE PLUG / CONNECTOR
RVC	REVERSING VAVLE COIL
RCCF	RUN CAPACITOR FOR COMPRESSOR AND FAN
TB1	TERMINAL BLOCK (24V SIGNAL)
TR	TRANSFORMER

- NOTES:**
- REPLACEMENT WIRE MUST BE SAME SIZE AND TYPE INSULATION AS ORIGINAL (AT LEAST 105°C) USE COPPER CONDUCTOR ONLY.
 - USE COPPER CONDUCTORS ONLY ++ USE N.E.C. CLASS 2 WIRE
 - ECONOMIZER PLUG LOCATED IN THE RETURN AIR COMPARTMENT. REMOVE MALE PLUG, ATTACH FEMALE PLUG TO THE ECONOMIZER ACCESSORY.
 - FOR 208 VOLT TRANSFORMER OPERATION MOVE BLACK WIRES FROM TERMINAL (3) TO TERMINAL (2) ON TRANSFORMER.
- SEE UNIT RATING PLATE FOR TYPE AND SIZE OF OVER CURRENT PROTECTION

FACTORY WIRING

— LINE VOLTAGE
— LOW VOLTAGE
- - - OPTIONAL HIGH VOLTAGE

FIELD WIRING

— HIGH VOLTAGE
- - - LOW VOLTAGE

WIRE CODE

BK BLACK
BL BLUE
BR BROWN
GR GREEN
OR ORANGE
PK PINK
PU PURPLE
RD RED
WH WHITE
YL YELLOW
BL/PK BLUE WITH PINK STRIP
YL/PK YELLOW WITH PINK STRIP

THERMOSTAT FIELD WIRING ++

NO ECONOMIZER

1	WH	W
2	GR	G
3	RD	R
4	YL	Y

TB1 STAT

WITH ECONOMIZER OPTION

1	WH	W
2	GR	G
3	RD	R
4	YL	Y

TB1 STAT

2 STAGE COOLING

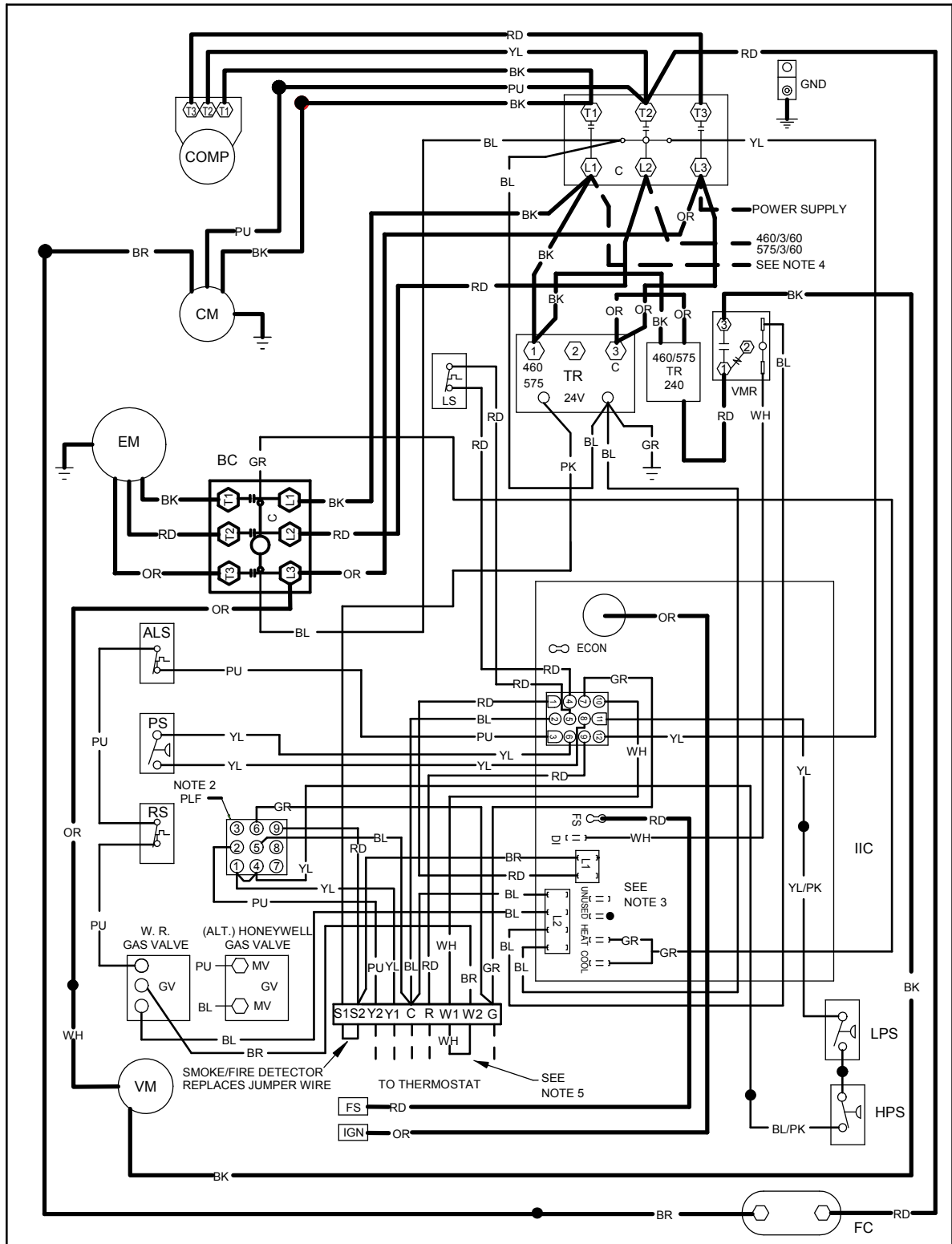
1	WH	W
2	GR	G
3	RD	R
4	YL	Y1
5	PK	Y2
6	BL	C
7	OR	O
8	OR	0

TB1 STAT

WARNING

Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring. **High Voltage:** Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

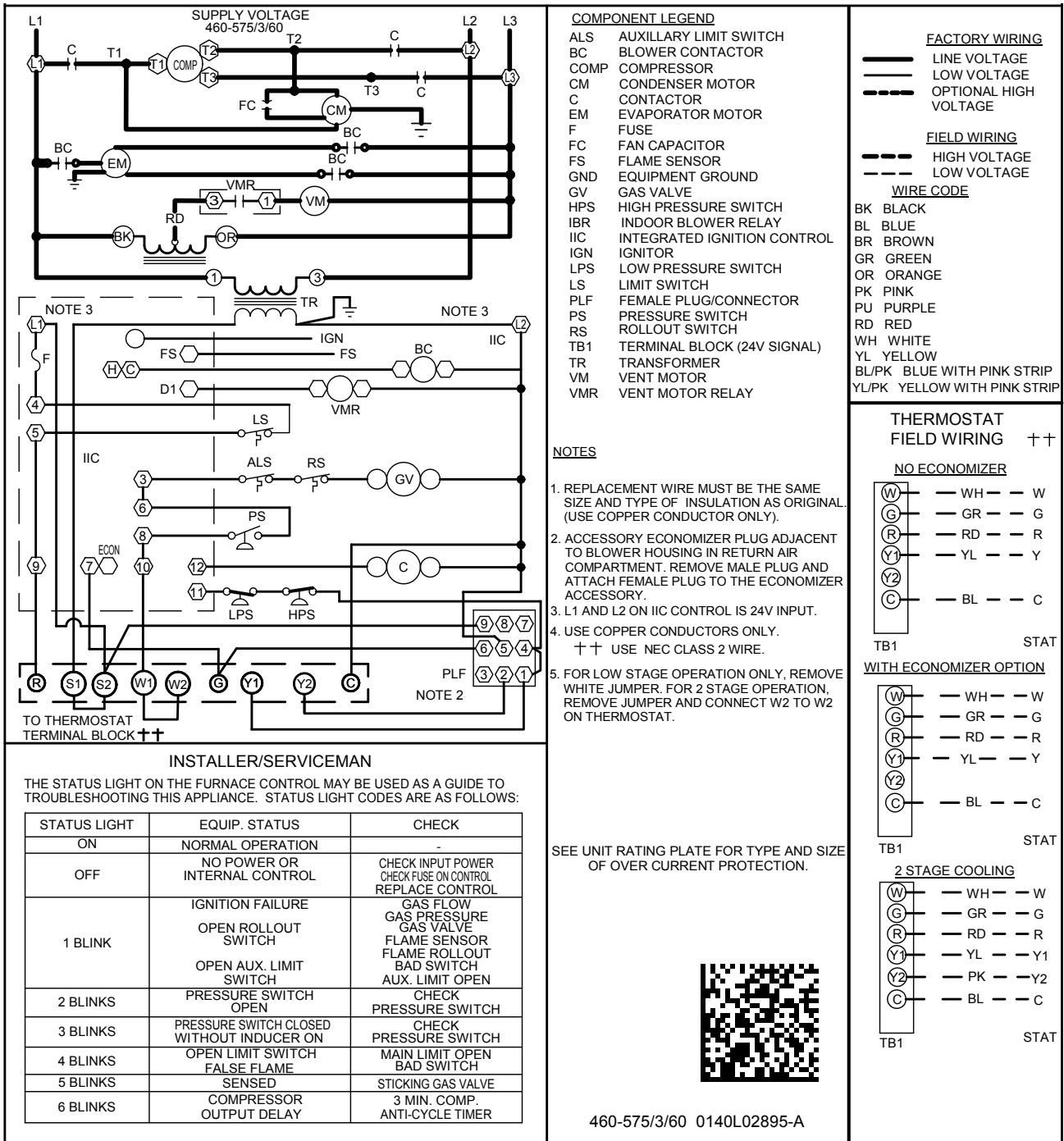
Figure 8: Wiring Diagram — DCG 3 through 6 Tons (460V/ 575V, Three-Phase, Belt-Drive)



WARNING

Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring. **High Voltage:** Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

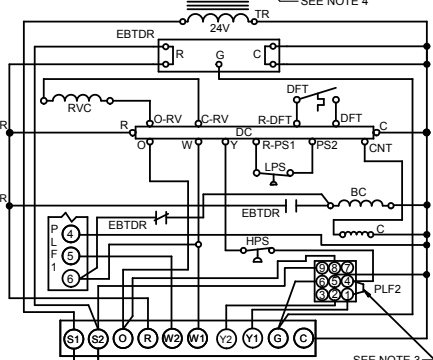
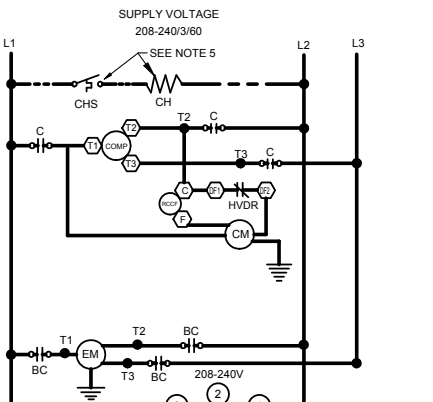
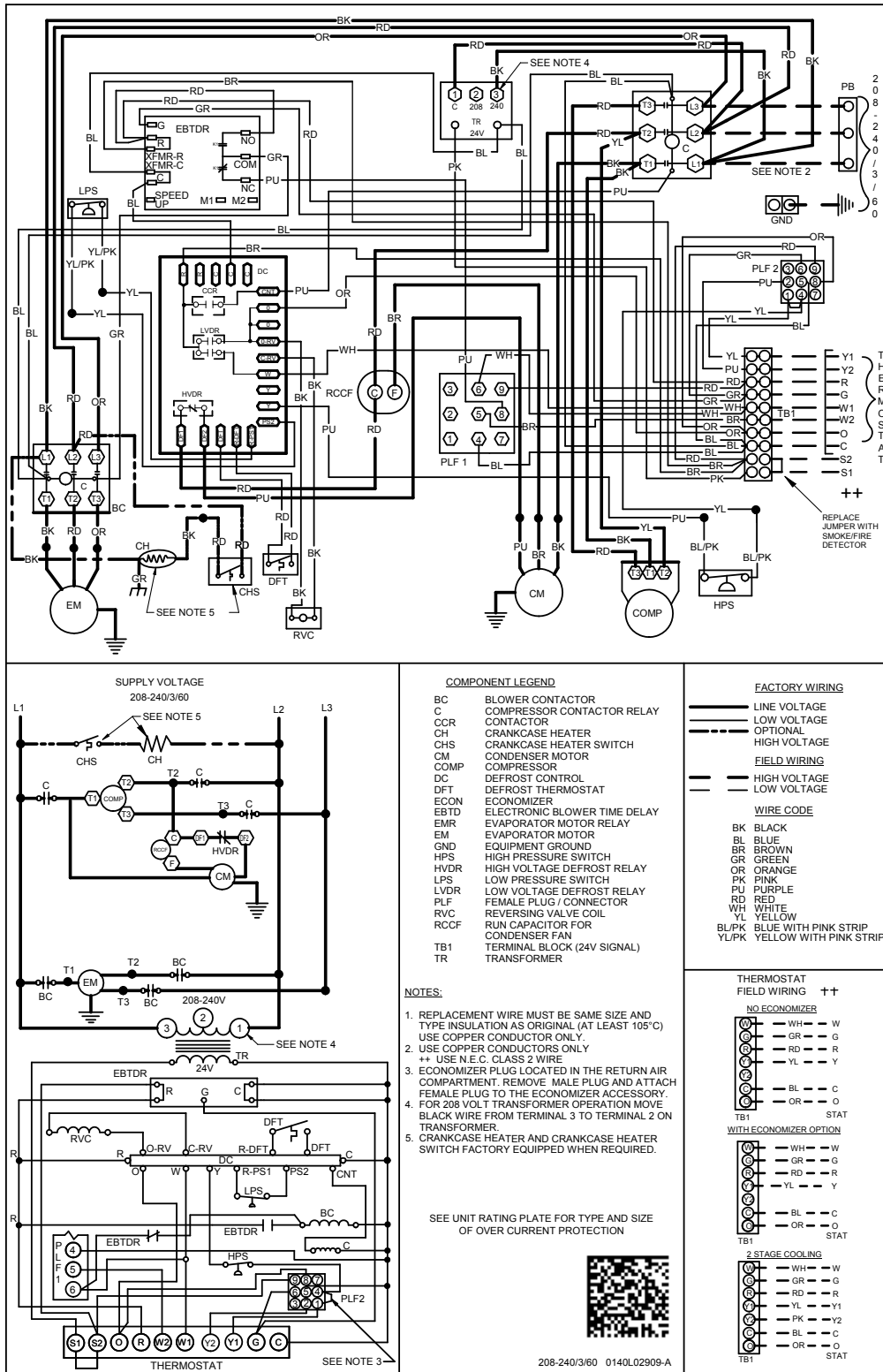
Figure 8 continued: Wiring Diagram — DCG 3 through 6 Tons (460V/ 575V, Three-Phase, Belt-Drive)



WARNING

Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring. **High Voltage:** Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

Figure 9: Wiring Diagram — DCH 3 through 6 Tons (230V, Three-Phase Belt-Drive)



COMPONENT LEGEND

BC	BLOWER CONTACTOR
C	COMPRESSOR CONTACTOR RELAY
CCR	CONTACTOR
CH	CRANKCASE HEATER
CHS	CRANKCASE HEATER SWITCH
CM	CONDENSER MOTOR
COMP	COMPRESSOR
DC	DEFROST CONTROL
DFT	DEFROST THERMOSTAT
ECON	ECONOMIZER
EBTD	ELECTRONIC BLOWER TIME DELAY
EMR	EVAPORATOR MOTOR RELAY
EM	EVAPORATOR MOTOR
GND	EQUIPMENT GROUND
HPS	HIGH PRESSURE SWITCH
HVDR	HIGH VOLTAGE DEFROST RELAY
LPS	LOW PRESSURE SWITCH
LVDR	LOW VOLTAGE DEFROST RELAY
PLF	FEMALE PLUG / CONNECTOR
RVC	REVERSING VALVE COIL
RCCF	RUN CAPACITOR FOR CONDENSER FAN
TB1	TERMINAL BLOCK (24V SIGNAL)
TR	TRANSFORMER

- NOTES:**
- REPLACEMENT WIRE MUST BE SAME SIZE AND TYPE INSULATION AS ORIGINAL (AT LEAST 105°C) USE COPPER CONDUCTOR ONLY.
 - USE COPPER CONDUCTORS ONLY USE N.E.C. CLASS 2 WIRE
 - ECONOMIZER PLUG LOCATED IN THE RETURN AIR COMPARTMENT. REMOVE MALE PLUG AND ATTACH FEMALE PLUG TO THE ECONOMIZER ACCESSORY.
 - FOR 208 VOLT TRANSFORMER OPERATION MOVE BLACK WIRE FROM TERMINAL 3 TO TERMINAL 2 ON TRANSFORMER.
 - CRANKCASE HEATER AND CRANKCASE HEATER SWITCH FACTORY EQUIPPED WHEN REQUIRED.

SEE UNIT RATING PLATE FOR TYPE AND SIZE OF OVER CURRENT PROTECTION



FACTORY WIRING

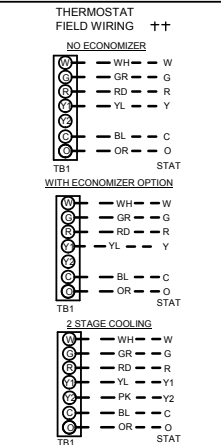
— LINE VOLTAGE
— LOW VOLTAGE
- - - OPTIONAL
- - - HIGH VOLTAGE

FIELD WIRING

— HIGH VOLTAGE
- - - LOW VOLTAGE

WIRE CODE

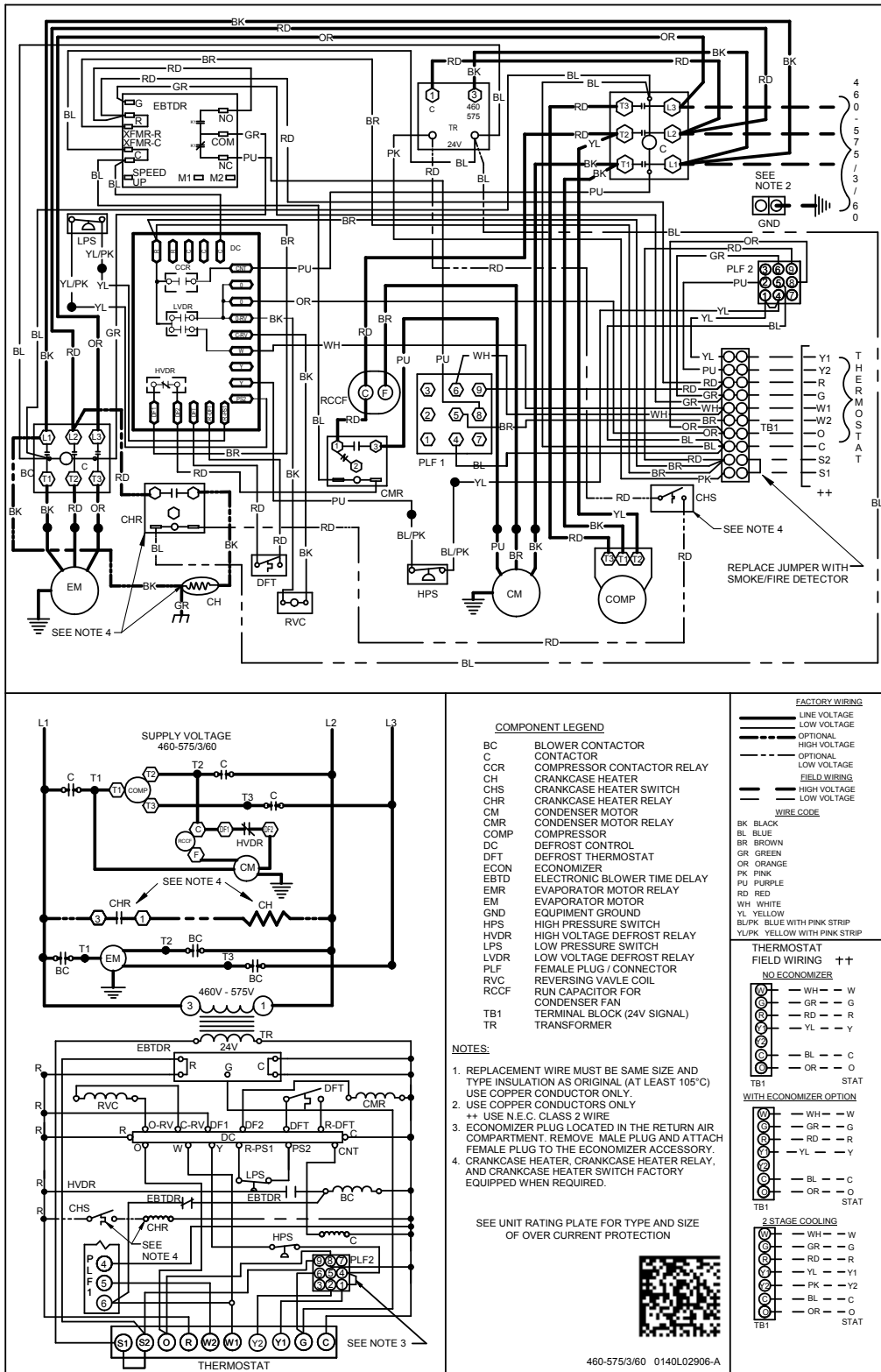
BK BLACK
BL BLUE
BR BROWN
GR GREEN
OR ORANGE
PK PINK
PU PURPLE
RD RED
WH WHITE
YL YELLOW
BL/PK BLUE WITH PINK STRIP
YL/PK YELLOW WITH PINK STRIP



WARNING

Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring. **High Voltage:** Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

Figure 9 continued: Wiring Diagram — DCH 3 through 6 Tons (230V, Three-Phase Belt-Drive)



WARNING

Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring. **High Voltage:** Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

Table 22: Product Specifications—DCC 090–150

	DCC090	DCC102	DCC120	DCC150
Cooling Capacity				
Total BTU/h	88,000	102,000	116,000	144,000
Sensible BTU/h	65,100	70,380	84,700	100,000
EER/IEER	11.3/11.5	11.3/11.4	11.3/11.5 ²	11.0/11.2
Decibels	82		83	
Evaporator Motor/Coil				
Motor Type	Belt-Drive ³			
Indoor Nominal CFM	3,000	3,200	3,500	3,900
Horsepower - RPM	1.5/1745 ¹	1725	2.0/1725	3.0/1725
Piston Size (Cooling)	0.078	0.08	0.086	0.096
Filter Size (Quantity)	(4) 16"×24"×2"			(4)20"×25"×2"
Drain Size (NPT)	¾"			
R-410A Refrigerant Charge (oz.)	100	180	220	175
Evaporator Coil Face Area (ft ²)	8.9		10.2	14.7
Rows Deep/Fins per inch	4/16		4/14	4/15
Evaporator Fan				
Number of Wheels (D×W)	(1) 15"×12"		(1) 15"×15"	
Motor Sheave/Blower Sheave	VL40/AK74	VL40/AK74	VL40/AK74	VL40/AK66
Belt	AX51	AX51	AX51	AX49
Condenser Fan/Coil				
Condenser Fan Motors (Quantity)	2			
Horsepower - RPM	¼ / 1075	¼ / 1075	⅓ / 1075	
Fan Diameter/Number of Blades	22/4		22/3	
Outdoor Nominal CFM	7,200		8,200	8,400
Face Area (ft ²)	28.8	27	32.4	39.0
Rows Deep/Fins per Inch	2/27	2/22	2/27	2/27
Compressor				
Quantity/Type	2/Scroll			
Stage	2			
Unit Weights				
Operating Weight (lbs)	1010	1050	1050	1225
Shipping Weight (lbs)	1085	1125	1125	1250

1. Evaporator fan motor RPM varies per unit size and voltage between 1725–1745

2. EER and IEER of one-speed belt-drive shown

3. Size 120 and 150 also available in 2-speed belt-drive

Table 23: Product Specifications—DCG 090–150

	DCG090	DCG102	DCG120	DCG150
Cooling Capacity				
Total BTU/h	90,000	102,000	116,000	144,000
Sensible BTU/h	65,100	70,380	84,700	100,000
EER/IEER	11.3/11.5	11.3/11.2	11.3/12.8 ²	10.8/11.0
Decibels	82		83	
Heating Capacity				
High Input/Output kBTU/h	210,000/168,000	210,000/168,000	210,000/168,000	210,000/168,000
Low Input/Output kBTU/h	157,500/126,000	157,500/126,000	157,500/126,000	157,500/126,000
Steady State Efficiency (AFUE)			80	
Temperature Rise Range (°F)	35	35 - 65	25-55	15 - 45
Number of Burners			6	
Evaporator Motor/Coil				
Motor Type			Belt-Drive ³	
Indoor Nominal CFM	3,000	3,200	3,500	3,900
Horsepower - RPM	1½ / 1745	1725	2.0–1725	3.0–1725
Piston Size (Cooling)	0.078	0.08	0.086	0.096
Filter Size (Quantity)	16"×20"×2"	(4) 16"×20"×2"	16"×24"×2"	(4) 20"×25"×2"
Drain Size (NPT)			¾"	
R-410A Refrigerant Charge Circuit-1(oz.)(Stg 1/2)	125/125	180	125/125	175/175
Evaporator Coil Face Area (ft ²)	8.9	8.9	10.2	14.7
Rows Deep/Fins per inch	4/16	4/16	4/14	4/15
Belt-Drive Evaporator Fan				
Number of Wheels (D×W)	1 (15"×12")	1 (15"×12")	1 (15"×15")	1 (15"×15")
Motor Sheave/Blower Sheave	VL40/AK74	VL40/AK74	VL40/AK74	VL40/AK66
Belt	AX51	AX51	AX51	AX51
Condenser Fan/Coil				
Condenser Fan Motors (Quantity)			2	
Horsepower - RPM	¼ – 1075 ³	¼ – 1075	½ – 1075	½ – 1075
Fan Diameter/Number of Blades	22/4	22/4	22/3	22/3
Outdoor Nominal CFM	7,200	7,200	8,200	8,400
Face Area (ft ²)	26.5	13.25	32.4	35.3
Rows Deep/Fins per Inch	2/27	2/22	2/27	2/3 –15 ⁴
Compressor				
Quantity/Type	2/Scroll	2/Scroll	2/Scroll	2/Scroll
Stage			2	
Unit Weights				
Operating Weight (lbs)	1100	1140	1140	1315
Shipping Weight (lbs)	1175	1215	1215	1340

1. Condenser fan motor RPM varies for unit size and voltage between 890–1075 RPM
2. EER and IEER of one-speed belt-drive shown
3. Size 120 and 150 also available in 2-speed belt-drive
4. One 2-row and one 3-row coil

Table 24: Product Specifications—DCH 090–150

	DCH090	DCH102	DCH120	DCH150
Cooling Capacity				
Total BTU/h	90,000	102,000	116,000	140,000
Sensible BTU/h	65,700	73,440	84,700	98,000
EER/IEER	11.5/11.5	11.1/11.2	11.5/11.5 ⁴	10.6/10.7
Decibels	83			
Heating Capacity				
BTU/h – COP (47°F)	90,000/3.4	102,000/3.4	120,000/3.4	142,000/3.2
BTU/h – COP (17°F)	55,000/2.4	55,500/2.25	56,000/2.4	82,000/2.1
Evaporator Motor/Coil				
Motor Type	Belt-Drive ³			
Indoor Nominal CFM	3,000	3,400	4,000 ⁶	5,000
Horsepower - RPM	2.0 – 1725			3.0 – 1725
Piston Size (Cooling)	0.076	0.08	0.086	0.096
Filter Size (Quantity)	16"×24"×2"	(4) 16"×24"×2"	16"×24"×2"	(4) 20"×25"×2"
Drain Size (NPT)	¾"			
R-410A Refrigerant Charge (oz.)(Ckt1/Ckt2)	215/215	205/205	225/225	290/290
Evaporator Coil Face Area (ft ²)	10.2			14.7
Rows Deep/Fins per inch	4/16	4/14		4/15
Belt-Drive Evaporator Fan				
Number of Wheels (D×W)	1 (15"×12")	1 (15"×12")	(1)15"×15"	
Motor Sheave/Blower Sheave	VL40/AK74	VL40/AK74	VL40/AK74	VL40/AK66
Belt	AX51			
Condenser Fan/Coil				
Condenser Fan Motors (Quantity)	2			
Horsepower - RPM	¼ – 1090		⅓ - 1075 ¹	
Fan Diameter/ Number of Blades	22/4		22/3	
Outdoor Nominal CFM	7,600	7,600	7,200	7,200
Face Area (ft ²)	32.4	16.19	32.4	35.3
Rows Deep/Fins per Inch	2/20	2/22	2/20	2×3/15 ⁵
Piston Size (Heating)	0.052	0.059	0.064	0.067
Compressor				
Quantity/Type	2/Scroll			
Stage	2			
Unit Weights				
Operating Weight (lbs)	1135	1285	1285	1325
Shipping Weight (lbs)	1175	1310	1310	1350

1. Condenser fan motor varies per unit size and voltage between 1075–1125 RPM
2. EER and IEER of 1-speed belt-drive shown
3. Size 120 and 150 also available in 2-speed belt-drive
4. 2-speed belt-drive indoor nominal CFM is 3500
5. One 2-row and one 3-row coil

Table 25: Electrical Data—Compressor and Motor, DCC/DCG 090–150

Voltage–Phase–Frequency	208/230-3-60		460-3-60		575-3-60	
090						
Evaporator Motor	Belt-Drive		Belt-Drive		Belt-Drive	
Indoor Motor FLA (Cooling)	5.0		2.5		2.3	
Compressor Motor						
Compressor RLA / LRA ea.	13.1/83.1		6.1/41.0		4.4/33.0	
Electrical Data						
Outdoor Fan FLA ea.	1.4		0.8		0.6	
Total Unit Amps	34.0		16.3		12.3	
Min. Circuit Ampacity ¹	37		18		13	
Max. Overcurrent Protection (amps) ²	50		20		15	
Power Supply/Control Voltage Entrance	Use Locating Dimple					
102						
Evaporator Motor	Belt-Drive		Belt-Drive		Belt-Drive	
Indoor Motor FLA (Cooling)	7.8		3.9		2.3	
Compressor Motor						
Compressor RLA / LRA ea.	14.5 / 98		6.3 / 55		6.0 / 41	
Electrical Data						
Outdoor Fan FLA ea.	1.4		0.8		0.6	
Total Unit Amps	39.6		18.1		15.5	
Min. Circuit Ampacity ¹	43		20		17	
Max. Overcurrent Protection (amps) ²	50		25		20	
Power Supply/Control Voltage Entrance	Use Locating Dimple					
120						
Evaporator Motor	Belt-Drive	Belt-Drive, 2-Sp	Belt-Drive	Belt-Drive, 2-Sp	Belt-Drive	Belt-Drive, 2-Sp
Indoor Motor FLA (Cooling)	7.8	6.4	3.9	3.3	2.5	2.4
Compressor Motor						
Compressor RLA / LRA ea.	16 / 110.0	16 / 110.0	7.8 / 52.0	7.8 / 52.0	5.7 / 38.9	5.7 / 38.9
Electrical Data						
Outdoor Fan FLA ea.	2.4	2.4	1.2	1.2	0.9	0.9
Total Unit Amps	45.0	43.0	22.0	21.0	16.0	16.0
Min. Circuit Ampacity ¹	49	47	24	23	17	17
Max. Overcurrent Protection (amps) ²	60	60	30	30	20	20
Power Supply/Control Voltage Entrance	Use Locating Dimple					
150						
Evaporator Motor	Belt-Drive	Belt-Drive, 2-Sp	Belt-Drive	Belt-Drive, 2-Sp	Belt-Drive	Belt-Drive, 2-Sp
Indoor Motor FLA (Cooling)	9.4	9.1	4.7	4.3	4.2	3.5
Compressor Motor						
Compressor RLA / LRA ea.	22.4/149	22.4/149	10.6/75	10.6/75	7.7/54	7.7/54
Electrical Data						
Outdoor Fan FLA ea.	2.4	2.0	1.2	0.85	0.9	0.9
Total Unit Amps	59.0	57.9	28.0	26.9	21.4	20.7
Min. Circuit Ampacity ¹	65.0	63.5	31.0	29.9	23.0	23.0
Max. Overcurrent Protection (amps) ²	80.0		40.0		30.0	
Power Supply/Control Voltage Entrance	Use Locating Dimple					

1. Wire size should be determined in accordance with National Electric Codes. Extensive wire runs will require larger wire sizes

2. May use fuses or HACR-type circuit breakers of the same size as noted.

Note: Always check the S&R plate for electrical data on the unit being installed.

Table 26: Electrical Data—Compressor and Motor, DCH 090–150

Voltage–Phase–Frequency	208/230-3-60		460-3-60		575-3-60	
DCH090						
Evaporator Motor	Belt-Drive		Belt-Drive		Belt-Drive	
Indoor motor FLA (Cooling)	7.8		3.9		2.5	
Compressor Motor						
Compressor RLA/LRA	13.1/83.1		6.1/41.0		4.4/33.0	
Electrical Data						
Outdoor Fan FLA	1.4		0.8		0.6	
Total Unit Amps	36.9		17.7		12.5	
Min. Circuit Ampacity ¹	40.0		19.0		14.0	
Max. Overcurrent Protection (amps) ²	50		25		15	
Power Supply/Control Voltage Entrance	Use Locating Dimple					
DCH102						
Evaporator Motor	Belt-Drive		Belt-Drive		Belt-Drive	
Indoor Motor FLA (Cooling)	7.8		3.9		2.3	
Compressor Motor						
Compressor RLA/LRA	14.5/98		6.3/55		6.0/41	
Electrical Data						
Outdoor Fan FLA	1.4		0.8		0.6	
Total Unit Amps	39.6		18.1		15.5	
Min. Circuit Ampacity ¹	43.2		19.7		17.0	
Max. Overcurrent Protection (amps) ²	50		25		20	
Power Supply/Control Voltage Entrance	Use Locating Dimple					
DCH120						
Evaporator Motor	Belt-Drive	Belt-Drive, 2-Sp	Belt-Drive	Belt-Drive, 2-Sp	Belt-Drive	Belt-Drive, 2-Sp
Indoor Motor FLA (Cooling)	7.8	6.4	3.9	3.3	2.5	2.4
Compressor Motor						
Compressor RLA / LRA	16/110.0		7.8/52.0		5.7/38.9	
Electrical Data						
Outdoor Fan HP / FLA	2.4		1.2		0.9	
Total Unit Amps	45	43	22	21	16	
Min. Circuit Ampacity ¹	49	47	24	23	17	
Max. Overcurrent Protection (amps) ²	60		30		20	
Power Supply Conduit and Voltage Conduit Hole	Use Locating Dimple					
DCH150						
Evaporator Motor	Belt-Drive	Belt-Drive, 2-Sp	Belt-Drive	Belt-Drive, 2-Sp	Belt-Drive	Belt-Drive, 2-Sp
Indoor Motor FLA (Cooling)	9.4	9.1	4.7	4.3	4.2	3.1
Compressor Motor						
Compressor RLA / LRA ea.	22.4/149		10.6/75		7.7/54	
Electrical Data						
Outdoor Fan FLA ea.	2.4	2.0	1.2	0.85	0.9	0.9
Total Unit Amps	59.0	57.9	28.0	26.9	21.4	20.7
Min. Circuit Ampacity ¹	65.0	63.5	31.0	29.9	23.0	23.0
Max. Overcurrent Protection (amps) ²	80		40		30	
Power Supply/Control Voltage Entrance	Use Locating Dimple					

1. Wire size should be determined in accordance with National Electric Codes. Extensive wire runs will require larger wire sizes

2. May use fuses or HACR-type circuit breakers of the same size as noted.

Note: Always check the S&R plate for electrical data on the unit being installed.

Table 27: Electrical Data—Heat Kit (Blower Only, Heat Mode), DCC 090–150

Model & Heat Kit Usage	MCA ¹			MOP ² Amps			Actual kW			Recommended Airflow Range (CFM)
	208/240V	480V	575V	208/240V	480V	575V	240V	480V	575V	
7.5 Ton										
DCC090										
EHK3-16	51 ⁴	—	—	60 ⁴	—	—	15	—	—	3000–3375
EHK3-30	97 ⁴	—	—	100 ⁴	—	—	30	—	—	
EHK3-45	136 ⁴	—	—	150 ⁴	—	—	43	—	—	
EHK4-16	—	26	—	—	30	—	—	15	—	
EHK4-30	—	48	—	—	50	—	—	30	—	
EHK4-45	—	68	—	—	70	—	—	43	—	
EHK7-16	—	—	22	—	—	25	—	—	15	
EHK7-30	—	—	41	—	—	45	—	—	30	
EHK7-45	—	—	57	—	—	60	—	—	43	
8.5 Ton										
DCC102										
EHK3-16	55 ⁴	—	—	60 ⁴	—	—	15	—	—	3400–3825
EHK3-30	100 ⁴	—	—	100 ⁴	—	—	30	—	—	
EHK3-45	139 ⁴	—	—	150 ⁴	—	—	43	—	—	
EHK4-16	—	27	—	—	30	—	—	15	—	
EHK4-30	—	50	—	—	50	—	—	30	—	
EHK4-45	—	70	—	—	70	—	—	43	—	
EHK7-16	—	—	22	—	—	25	—	—	15	
EHK7-30	—	—	41	—	—	45	—	—	30	
EHK7-45	—	—	57	—	—	60	—	—	43	
10.0 Ton										
DCC120										
EHK3-16	48/55	—	—	50/60	—	—	15	—	—	3500–4500
EHK3-30	87/100	—	—	90/110	—	—	30	—	—	
EHK3-45	121/139	—	—	125/150	—	—	43	—	—	4000/4500
EHK4-16	—	27	—	—	30	—	—	15	—	
EHK4-30	—	50	—	—	50	—	—	30	—	3500–4500
EHK4-45	—	70	—	—	70	—	—	43	—	
EHK7-16	—	—	22	—	—	25	—	—	15	3500–4500
EHK7-30	—	—	41	—	—	45	—	—	30	
EHK7-45	—	—	57	—	—	60	—	—	43	4000–4500
12.5 Ton										
DCC150										
EHK3-16	65 ⁴	—	—	80 ⁴	—	—	15	—	—	4000–5600
EHK3-30	102 ⁴	—	—	110 ⁴	—	—	30	—	—	4300–5600
EHK3-45	141 ⁴	—	—	150 ⁴	—	—	43	—	—	4500–5600
EHK4-16	—	31	—	—	40	—	—	15	—	4000–5600
EHK4-30	—	51	—	—	60	—	—	30	—	4300–5600
EHK4-45	—	71	—	—	80	—	—	43	—	4500–5600
EHK7-16	—	—	24	—	—	30	—	—	15	4000–5600
EHK7-30	—	—	43	—	—	45	—	—	30	4300–5600
EHK7-45	—	—	59	—	—	60	—	—	43	4500–5600

1. Minimum circuit ampacity (standard drive)
 2. Maximum overcurrent protection device (standard drive)
 3. See page 45 for optional high static ESP amps
 4. 240V values are shown
 Note: All heaters have single-point entry kit

kW Correction Factors	208 thru 240V Units					430 thru 480V Units				575V Units			
	240	230	220	210	208	480	460	440	430	575	560	550	540
Supply Voltage	240	230	220	210	208	480	460	440	430	575	560	550	540
Correction Factor	1	0.93	0.82	0.78	0.76	1.00	0.92	0.84	0.80	1.00	0.95	0.91	0.88

**7.5–12.5 Ton
Packaged Air Conditioners**

Table 28: Electrical Data—Heat Kit, DCH 090–150

Model & Heat Kit Usage	MCA ¹			MOP ² Amps			Actual kW			Recommended Airflow Range (CFM)
	208/240V	480V	575V	208/240V	480V	575V	240V	480V	575V	
7.5 Ton										
DCH090										
EHK3-16	74/85	—	—	80/90	—	—	15	—	—	3000–3375
EHK3-30	113/130	—	—	120/150	—	—	30	—	—	
EHK3-45	147/169	—	—	150/175	—	—	43	—	—	
EHK4-16	—	42	—	—	45	—	—	15	—	
EHK4-30	—	64	—	—	70	—	—	30	—	
EHK4-45	—	84	—	—	90	—	—	43	—	
EHK7-16	—	—	32	—	—	35	—	—	15	
EHK7-30	—	—	51	—	—	60	—	—	30	
EHK7-45	—	—	68	—	—	70	—	—	43	
8.5 Ton										
DCH102										
EHK3-16	88 ⁴	—	—	90 ⁴	—	—	15	—	—	3400–3825
EHK3-30	133 ⁴	—	—	150 ⁴	—	—	35	—	—	
EHK3-45	173 ⁴	—	—	175 ⁴	—	—	43	—	—	
EHK4-16	—	42	—	—	45	—	—	15	—	
EHK4-30	—	65	—	—	70	—	—	30	—	
EHK4-45	—	84	—	—	90	—	—	43	—	
EHK7-16	—	—	36	—	—	40	—	—	15	
EHK7-30	—	—	55	—	—	60	—	—	30	
EHK7-45	—	—	71	—	—	80	—	—	43	
10.0 Ton										
DCH120										
EHK3-16	81/94	—	—	90/100	—	—	15	—	—	3500–4500
EHK3-30	122/139	—	—	125/150	—	—	35	—	—	3500–4500
EHK3-45	154/178	—	—	175/200	—	—	43	—	—	4000–4500
EHK4-16	—	46	—	—	50	—	—	15	—	3500–4500
EHK4-30	—	69	—	—	70	—	—	30	—	
EHK4-45	—	89	—	—	90	—	—	43	—	4000–4500
EHK7-16	—	—	36	—	—	40	—	—	15	3500–4500
EHK7-30	—	—	55	—	—	60	—	—	30	
EHK7-45	—	—	71	—	—	80	—	—	43	4000–4500
12.5 Ton										
DCH150										
EHK3-16	110 ⁴	—	—	110 ⁴	—	—	15	—	—	4000–5600
EHK3-30	155 ⁴	—	—	175 ⁴	—	—	30	—	—	4300–5600
EHK3-45	194 ⁴	—	—	200 ⁴	—	—	43	—	—	4500–5600
EHK4-16	—	54	—	—	60	—	—	15	—	4000–5600
EHK4-30	—	76	—	—	80	—	—	30	—	4300–5600
EHK4-45	—	96	—	—	100	—	—	43	—	4500–5600
EHK7-16	—	—	42	—	—	45	—	—	15	4000–5600
EHK7-30	—	—	61	—	—	70	—	—	30	4300–5600
EHK7-45	—	—	77	—	—	80	—	—	43	4500–5600

1. Minimum circuit ampacity (standard drive)
 2. Maximum overcurrent protection device (standard drive)
 3. See page 45 for optional high static ESP amps
 4. 240V values are shown
 Note: All heaters have single-point entry kit

kW Correction Factors	208 thru 240V Units					430 thru 480V Units				575V Units			
	240	230	220	210	208	480	460	440	430	575	560	550	540
Supply Voltage	240	230	220	210	208	480	460	440	430	575	560	550	540
Correction Factor	1	0.93	0.82	0.78	0.76	1.00	0.92	0.84	0.80	1.00	0.95	0.91	0.88

Table 29: Standard vs. High Static Motor Detail, 7.5–12.5 Ton

Size (Tons)	Voltage	Standard IFM				High Static IFM				Increase in MCA and MROPD			
		P/N	HP	FLA	LRA	P/N	HP	FLA	LRA	208V	230V	460V	575V
DCC/DCH 7.5	230/460	B3240007	1.5	5.0/2.5	18	Same Motor				0.0	0.0	0.0	0.0
	575	0131L00004	1.5	2.3	11								
DCG 7.5	230/460	B3240007	1.5	5.0/2.5	18	B3240006	2	7.8/3.9	40	2.8	2.8	1.4	0.0
	575	0131L00004	1.5	2.3	11	0131L00005	2	2.3	20.3				
8.5	230/460	B3240006	2	7.8/3.9	40	Same Motor				0.0	0.0	0.0	0.0
	575	0131L00005	2	2.3	20.3								
10	230/460	B3240006	2	7.8/3.9	40	B3240004	3	9.2/4.6	66	1.4	1.4	0.7	1.9
	575	0131L00005	2	2.3	20.3	0131L00006	3	4.2	34				
12.5	208-230/460	B3240006	3	9.2/4.6	66	0131M00274	5	13.8–12.6/6.3	90	4.6	3.4	1.7	0.9
	575	0131L00006	3	4.2	34	0131L00007	5	5.1	35				

Table 30: Airflow Data—Belt-Drive, DCC/DCH090 7.5 Tons

Standard Belt-Drive — Horizontal																							
ESP (Inches W.C.)	Turns Open																						
	0			1			2			3			4			5							
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP					
0.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3625	701	1.08	3309	660	0.86			
0.3	—	—	—	—	—	—	3815	797	1.44	3468	747	1.11	3177	703	0.88	2796	663	0.68	—	—			
0.5	—	—	—	3780	841	1.52	3405	803	1.23	3053	753	0.94	2608	709	0.68	2225	665	0.53	—	—			
0.7	3687	885	1.6	3327	847	1.29	2968	805	1.02	2423	758	0.73	—	—	—	—	—	—	—	—			
0.9	3236	891	1.39	2850	852	1.1	2352	807	0.8	—	—	—	—	—	—	—	—	—	—	—			
1.1	2713	896	1.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Standard Belt-Drive — Down Shot																							
ESP (Inches W.C.)	Turns Open																						
	0			1			2			3			4			5							
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP					
0.1	—	—	—	—	—	—	—	—	—	—	—	—	3617	704	1.07	3293	653	0.84	—	—			
0.3	—	—	—	—	—	—	—	—	—	3541	749	1.15	3179	704	0.88	2757	656	0.66	—	—			
0.5	—	—	—	—	—	—	3447	798	1.23	3049	754	0.94	2606	710	0.71	—	—	—	—	—			
0.7	—	—	—	3400	848	1.33	2950	798	1.01	2474	754	0.75	—	—	—	—	—	—	—	—			
0.9	3303	890	1.41	2871	848	1.11	2408	804	0.82	—	—	—	—	—	—	—	—	—	—	—			
1.1	2838	897	1.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
High-Static Belt-Drive — Horizontal (for A Models only)																							
ESP (Inches W.C.)	Turns Open																						
	0			1			2			3			4			5							
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP					
0.9	DO NOT OPERATE			—	—	—	—	—	—	—	—	—	—	—	—	3447	902	1.54	—	—			
1.1				—	—	—	—	—	—	—	—	—	—	—	3398	956	1.65	3006	908	1.31	—	—	
1.3				—	—	—	—	—	—	—	—	3486	1008	1.87	2960	962	1.44	—	—	—	—	—	
1.5				—	—	—	3514	1057	2.07	2949	1019	1.62	—	—	—	—	—	—	—	—	—	—	
1.7				3388	1103	2.18	3036	1069	1.84	—	—	—	—	—	—	—	—	—	—	—	—	—	
1.9				2959	1114	2.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2.1				2527	1124	1.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High-Static Belt-Drive — Down Shot (for A Models only)																							
ESP (Inches W.C.)	Turns Open																						
	0			1			2			3			4			5							
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP					
0.9	DO NOT OPERATE			—	—	—	—	—	—	—	—	—	—	—	—	3401	909	1.51	—	—			
1.1				—	—	—	—	—	—	—	—	—	—	—	3428	965	1.71	2943	915	1.3	—	—	
1.3				—	—	—	—	—	—	—	—	3471	1015	1.9	3012	971	1.5	2423	920	1.12	—	—	
1.5				—	—	—	3722	1063	2.25	3041	1023	1.67	2503	976	1.31	—	—	—	—	—	—	—	
1.7				—	—	—	3359	1075	2.04	2540	1031	1.5	—	—	—	—	—	—	—	—	—	—	
1.9				3381	1119	2.22	2890	1080	1.78	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2.1				3089	1129	2.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Notes:
 Assume dry coil with filter in place; CFM correction for wet coil = 3%
 Any adjustment made to the blower should not cause the motor to draw more than the motor rated RLA. Applications that exceed the above could require a larger motor.
 Minimum rated SCFM is 350 per ton.

7.5–12.5 Ton
 Packaged Air Conditioners

Table 31: Airflow Data—Belt-Drive, DCC/DCH102 8.5 Tons

Standard Belt-Drive — Horizontal																		
ESP (Inches W.C.)	Turns Open																	
	0			1			2			3			4			5		
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP
0.1	—	—	—	—	—	—	—	—	—	—	—	—	3475	698	1.05	3159	657	0.83
0.3	—	—	—	—	—	—	3665	794	1.41	3318	744	1.08	3027	700	0.85	2646	660	0.65
0.5	—	—	—	3630	838	1.49	3255	800	1.2	2903	750	0.91	2458	706	0.65	—	—	—
0.7	3537	882	1.57	3177	844	1.26	2818	802	0.99	—	—	—	—	—	—	—	—	—
0.9	3086	888	1.36	2700	849	1.07	—	—	—	—	—	—	—	—	—	—	—	—
1.1	2563	893	1.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Standard Belt-Drive — Down Shot																		
ESP (Inches W.C.)	Turns Open																	
	0			1			2			3			4			5		
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP
0.1	—	—	—	—	—	—	—	—	—	—	—	—	3467	701	1.04	3143	650	0.81
0.3	—	—	—	—	—	—	—	—	—	3391	746	1.12	3029	701	0.85	2607	653	0.63
0.5	—	—	—	—	—	—	3297	795	1.20	2899	751	0.91	2456	707	0.68	—	—	—
0.7	—	—	—	3250	845	1.30	2800	795	0.98	—	—	—	—	—	—	—	—	—
0.9	3153	887	1.38	2721	845	1.08	—	—	—	—	—	—	—	—	—	—	—	—
1.1	2688	894	1.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High-Static Belt-Drive — Horizontal																		
ESP (Inches W.C.)	Turns Open																	
	0			1			2			3			4			5		
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP
0.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3297	899	1.51
1.1	—	—	—	—	—	—	—	—	—	—	—	—	3248	953	1.62	2856	905	1.28
1.3	—	—	—	—	—	—	—	—	—	3336	1005	1.84	2810	959	1.41	—	—	—
1.5	—	—	—	—	—	—	3364	1054	2.04	2799	1016	1.59	—	—	—	—	—	—
1.7	—	—	—	3238	1100	2.15	2886	1066	1.81	—	—	—	—	—	—	—	—	—
1.9	3188	1146	2.23	2809	1111	1.97	—	—	—	—	—	—	—	—	—	—	—	—
High-Static Belt-Drive — Down Shot																		
ESP (Inches W.C.)	Turns Open																	
	0			1			2			3			4			5		
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP
0.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3251	906	1.48
1.1	—	—	—	—	—	—	—	—	—	—	—	—	3278	962	1.68	2793	912	1.27
1.3	—	—	—	—	—	—	—	—	—	3321	1012	1.87	2862	968	1.47	—	—	—
1.5	—	—	—	—	—	—	3572	1060	2.22	2891	1020	1.64	—	—	—	—	—	—
1.7	—	—	—	—	—	—	3209	1072	2.01	—	—	—	—	—	—	—	—	—
1.9	—	—	—	3231	1116	2.19	2740	1077	1.75	—	—	—	—	—	—	—	—	—
2.1	3256	1156	2.31	2939	1126	2.01	—	—	—	—	—	—	—	—	—	—	—	—

Notes:

Assume dry coil with filter in place; CFM correction for wet coil = 3%

Any adjustment made to the blower should not cause the motor to draw more than the motor rated RLA. Applications that exceed the above could require a larger motor.

Minimum rated SCFM is 350 per ton.

Table 32: Airflow Data—Belt-Drive, DCC120 10.0 Tons

Standard Belt-Drive & Two-Speed Standard Belt-Drive at High Speed — Horizontal																				
ESP (Inches W.C.)	Turns Open																			
	0			1			2			3			4			5				
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP		
0.2	—	—	—	—	—	—	—	—	—	4562	736	1.58	4253	691	1.29	3893	642	1		
0.4	—	—	—	—	—	—	4497	780	1.7	4200	736	1.41	3735	691	1.06	3322	648	0.83		
0.6	—	—	—	4467	824	1.81	4221	784	1.55	3689	741	1.18	—	—	—	—	—	—		
0.8	4564	873	2.06	4170	830	1.68	3677	785	1.29	—	—	—	—	—	—	—	—	—		
1	4129	875	1.81	3498	835	1.34	—	—	—	—	—	—	—	—	—	—	—	—		
1.2	3558	879	1.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Standard Belt-Drive & Two-Speed Standard Belt-Drive at High Speed — Down Shot																				
ESP (Inches W.C.)	Turns Open																			
	0			1			2			3			4			5				
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP		
0.2	—	—	—	—	—	—	4632	781	1.76	4203	742	1.41	3927	691	1.17	3510	658	0.9		
0.4	—	—	—	4488	825	1.85	4183	783	1.54	3733	748	1.23	3512	693	1	—	—	—		
0.6	4442	880	2.02	4066	830	1.63	3717	786	1.31	—	—	—	—	—	—	—	—	—		
0.8	4001	885	1.77	3622	835	1.41	—	—	—	—	—	—	—	—	—	—	—	—		
1	3603	890	1.55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
High-Static Belt-Drive — Horizontal																				
ESP (Inches W.C.)	Turns Open																			
	0			1			2			3			4			5				
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP		
0.8	DO NOT OPERATE			—	—	—	—	—	—	—	—	—	—	—	4602	884	2.13			
1				—	—	—	—	—	—	—	—	—	—	—	4749	940	2.44	4180	885	1.89
1.2				—	—	—	—	—	—	—	—	—	—	—	4251	945	2.12	3642	896	1.58
1.4				—	—	—	—	—	—	—	—	4443	1001	2.5	3744	951	1.8	—	—	—
1.6				—	—	—	—	—	4587	1056	2.82	3971	1006	2.17	—	—	—	—	—	—
1.8				—	—	—	4760	1105	3.23	4071	1061	2.43	3342	1012	1.86	—	—	—	—	—
2				—	—	—	4364	1114	2.91	3579	1067	2.05	—	—	—	—	—	—	—	—
High-Static Belt-Drive — Down Shot																				
ESP (Inches W.C.)	Turns Open																			
	0			1			2			3			4			5				
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP		
0.8	—	—	—	—	—	—	—	—	—	—	—	—	4435	940	2.22	4078	886	1.82		
1	—	—	—	—	—	—	—	—	—	4462	997	2.47	4103	945	2.05	3539	892	1.52		
1.2	—	—	—	—	—	—	4513	1054	2.75	4127	1003	2.26	3568	950	1.71	—	—	—		
1.4	—	—	—	—	—	—	4126	1064	2.52	3597	1008	1.92	—	—	—	—	—	—		
1.6	—	—	—	4438	1116	2.97	3759	1069	2.25	—	—	—	—	—	—	—	—	—		
1.8	—	—	—	3956	1124	2.55	—	—	—	—	—	—	—	—	—	—	—	—		
2	4050	1179	3.05	3473	1132	2.32	—	—	—	—	—	—	—	—	—	—	—	—		

Notes:

Assume dry coil with filter in place; CFM correction for wet coil = 3%

Any adjustment made to the blower should not cause the motor to draw more than the motor rated RLA. Applications that exceed the above could require a larger motor.

Minimum rated SCFM is 350 per ton.

Table 33: Airflow Data—Belt-Drive, DCH120 10.0 Tons

Standard Belt-Drive & Two-Speed Belt-Drive at High Speed — Horizontal																				
ESP (Inches W.C.)	Turns Open																			
	0			1			2			3			4			5				
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP		
0.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
0.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4679	774	1.78	4235	730	1.4
0.6	—	—	—	—	—	—	—	—	—	4595	822	1.91	4223	780	1.55	3679	735	1.16		
0.8	—	—	—	—	—	—	4468	862	1.96	4121	824	1.64	3596	785	1.26	—	—	—		
1.0	—	—	—	4349	907	2.06	3990	868	1.72	3463	829	1.31	—	—	—	—	—	—		
1.2	4486	962	2.35	3923	918	1.84	3267	879	1.33	—	—	—	—	—	—	—	—	—		
1.4	3990	967	2.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Standard Belt-Drive & Two-Speed Belt-Drive at High Speed — Down shot																				
ESP (Inches W.C.)	Turns Open																			
	0			1			2			3			4			5				
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP		
0.2	—	—	—	—	—	—	—	—	—	—	—	—	4629	774	1.76	4269	733	1.42		
0.4	—	—	—	—	—	—	—	—	—	4539	824	1.86	4198	781	1.53	3797	735	1.21		
0.6	—	—	—	—	—	—	4511	868	2.01	4103	829	1.63	3752	787	1.33	3312	745	1.03		
0.8	—	—	—	4445	912	2.14	4144	873	1.81	3695	833	1.45	3180	790	1.07	—	—	—		
1.0	4418	956	2.3	4073	917	1.92	3661	879	1.55	—	—	—	—	—	—	—	—	—		
1.2	4064	967	2.09	3518	923	1.6	—	—	—	—	—	—	—	—	—	—	—	—		
1.4	3555	972	1.77	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
High-Static Belt-Drive — Horizontal																				
ESP (Inches W.C.)	Turns Open																			
	0			1			2			3			4			5				
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP		
0.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
1.0	—	—	—	—	—	—	—	—	—	—	—	—	4737	940	2.48	4236	890	1.93		
1.2	—	—	—	—	—	—	—	—	—	4792	984	2.69	4347	946	2.19	3675	901	1.64		
1.4	—	—	—	—	—	—	4431	998	2.46	4404	995	2.45	3710	956	1.82	—	—	—		
1.6	—	—	—	4652	1061	2.93	4183	1028	2.42	3845	1006	2.08	—	—	—	—	—	—		
1.8	—	—	—	4418	1083	2.81	3847	1050	2.22	—	—	—	—	—	—	—	—	—		
2.0	4823	1149	3.5	4055	1105	2.6	—	—	—	—	—	—	—	—	—	—	—	—		
High-Static Belt-Drive — Down Shot																				
ESP (Inches W.C.)	Turns Open																			
	0			1			2			3			4			5				
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP		
0.8	—	—	—	—	—	—	—	—	—	—	—	—	4681	937	2.38	4206	891	1.91		
1.0	—	—	—	—	—	—	—	—	—	4634	985	2.57	4288	948	2.19	3721	897	1.63		
1.2	—	—	—	—	—	—	4533	1020	2.63	4367	995	2.41	3845	954	1.91	—	—	—		
1.4	—	—	—	4550	1064	2.83	4290	1042	2.56	3913	1006	2.13	—	—	—	—	—	—		
1.6	—	—	—	4327	1087	2.73	3990	1057	2.37	—	—	—	—	—	—	—	—	—		
1.8	4652	1148	3.33	4023	1105	2.58	—	—	—	—	—	—	—	—	—	—	—	—		
2.0	4306	1162	3.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		

Note: Tables represent dry coil without filter; to compensate for filter, add 0.08" to measured E.S.P. SCFM correction for wet coil = 4%.

7.5–12.5 Ton
Packaged Air Conditioners

Table 34: Airflow Data—Belt-Drive, DCC/DCH150 12.5 Tons

Standard Belt-Drive & Two-Speed Belt-Drive at High Speed — Horizontal												
ESP (Inches W.C.)	Turns Open											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2	—	—	—	—	—	—	5570	2.27	4935	1.70	4584	1.36
0.4	5871	3.20	5639	2.77	5307	2.31	4902	1.88	4637	1.55	4178	1.19
0.6	5610	3.00	5358	2.57	5051	2.15	4603	1.72	4341	1.41	—	—
0.8	5391	2.83	5010	2.33	4799	2.00	4393	1.61	—	—	—	—
1.0	5078	2.59	4676	2.11	4448	1.79	—	—	—	—	—	—
1.2	4521	2.20	4226	1.83	—	—	—	—	—	—	—	—
Standard Belt-Drive & Two-Speed Belt-Drive at High Speed — Down shot												
ESP (Inches W.C.)	Turns Open											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2	—	—	—	—	5378	2.35	4967	1.92	4710	1.59	4512	1.33
0.4	5514	2.92	5349	2.56	4750	1.97	4583	1.71	4319	1.40	4030	1.13
0.6	5204	2.69	4919	2.27	4488	1.81	4258	1.54	—	—	—	—
0.8	4830	2.42	4649	2.09	4019	1.55	—	—	—	—	—	—
1.0	4497	2.19	4264	1.86	—	—	—	—	—	—	—	—
High-Static Belt-Drive — Horizontal												
ESP (Inches W.C.)	Turns Open											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.8	—	—	—	—	—	—	—	—	5858	3.51	5538	2.97
1.0	—	—	—	—	—	—	5894	3.85	5502	3.20	5282	2.78
1.2	—	—	—	—	5780	4.04	5570	3.55	5110	2.88	4869	2.47
1.4	—	—	5900	4.49	5501	3.77	5312	3.33	4793	2.64	4598	2.28
1.6	5860	4.76	5514	4.08	5257	3.54	4945	3.01	4382	2.34	—	—
1.8	5615	4.49	5315	3.88	5020	3.32	4504	2.66	—	—	—	—
2.0	5529	4.40	4906	3.49	4601	2.96	—	—	—	—	—	—
2.2	4938	3.78	4541	3.15	4222	2.65	—	—	—	—	—	—
High-Static Belt-Drive — Down Shot												
ESP (Inches W.C.)	Turns Open											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.8	—	—	—	—	—	—	5978	3.87	5691	3.38	5324	2.81
1.0	—	—	—	—	5947	4.16	5656	3.58	5376	3.12	4933	2.52
1.2	—	—	—	—	5708	3.93	5459	3.40	4950	2.79	4441	2.18
1.4	5776	4.64	5510	4.07	5245	3.48	4844	2.88	4525	2.45	—	—
1.6	5465	4.30	5199	3.74	4894	3.17	4404	2.54	—	—	—	—
1.8	5145	3.97	4871	3.41	4495	2.83	—	—	—	—	—	—
2.0	4805	3.63	4565	3.13	4142	2.55	—	—	—	—	—	—
2.2	4429	3.27	4233	2.85	—	—	—	—	—	—	—	—

Notes:

Assume dry coil with filter in place; CFM correction for wet coil = 3%

Any adjustment made to the blower should not cause the motor to draw more than the motor rated RLA. Applications that exceed the above could require a larger motor.

Minimum rated SCFM is 350 per ton.

Table 35: Airflow Data—Belt-Drive, DCG090 7.5 Tons

Standard Belt-Drive — Horizontal																		
ESP (Inches W.C.)	Turns Open																	
	0			1			2			3			4			5		
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP
0.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
0.3	—	—	—	—	—	—	3560	796	1.26	3271	747	1.02	2946	703	0.82	2604	659	0.63
0.5	—	—	—	3492	841	1.36	3159	799	1.09	2819	752	0.86	—	—	—	—	—	—
0.7	3453	891	1.5	3094	846	1.18	—	—	—	—	—	—	—	—	—	—	—	—
0.9	2964	896	1.29	2524	852	0.96	—	—	—	—	—	—	—	—	—	—	—	—
1.1	2537	902	1.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Standard Belt-Drive — Down Shot																		
ESP (Inches W.C.)	Turns Open																	
	0			1			2			3			4			5		
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP
0.1	—	—	—	—	—	—	—	—	—	3522	750	1.14	3228	706	0.94	2964	661	0.73
0.3	—	—	—	—	—	—	3337	800	1.19	3102	756	1	2800	706	0.76	2504	661	0.59
0.5	—	—	—	3387	844	1.32	2834	806	0.99	2603	757	0.8	—	—	—	—	—	—
0.7	3453	893	1.5	2903	850	1.12	—	—	—	—	—	—	—	—	—	—	—	—
0.9	2957	899	1.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High-Static Belt-Drive — Horizontal																		
ESP (Inches W.C.)	Turns Open																	
	0			1			2			3			4			5		
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP
0.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3567	903	1.58
0.9	—	—	—	—	—	—	—	—	—	—	—	—	3596	953	1.79	3145	906	1.39
1.1	—	—	—	—	—	—	—	—	—	3630	1007	1.97	3168	963	1.56	2675	909	1.18
1.3	—	—	—	—	—	—	3649	1063	2.19	3255	1021	1.8	2724	965	1.35	—	—	—
1.5	—	—	—	—	—	—	3316	1068	2.0	2823	1058	1.61	—	—	—	—	—	—
1.7	—	—	—	3287	1112	2.16	2869	1074	1.78	—	—	—	—	—	—	—	—	—
1.9	—	—	—	2970	1122	2.0	—	—	—	—	—	—	—	—	—	—	—	—
2.1	—	—	—	2644	1133	1.92	—	—	—	—	—	—	—	—	—	—	—	—
High-Static Belt-Drive — Down Shot																		
ESP (Inches W.C.)	Turns Open																	
	0			1			2			3			4			5		
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP
0.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3575	904	1.66
0.9	—	—	—	—	—	—	—	—	—	—	—	—	3258	925	1.56	3113	909	1.41
1.1	—	—	—	—	—	—	—	—	—	3580	1013	1.97	3001	948	1.42	2722	915	1.25
1.3	—	—	—	—	—	—	3616	1063	2.17	3247	1019	1.79	2646	959	1.3	—	—	—
1.5	—	—	—	—	—	—	3275	1069	2.05	2803	1025	1.68	—	—	—	—	—	—
1.7	—	—	—	3346	1118	2.24	2885	1074	1.97	—	—	—	—	—	—	—	—	—
1.9	—	—	—	3009	1125	2.05	—	—	—	—	—	—	—	—	—	—	—	—
2.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Notes:

Assume dry coil with filter in place; CFM correction for wet coil = 3%

Any adjustment made to the blower should not cause the motor to draw more than the motor rated RLA. Applications that exceed the above could require a larger motor.

Minimum rated SCFM is 350 per ton.

7.5–12.5 Ton
Packaged Air Conditioners

Table 36: Airflow Data—Belt-Drive, DCG102 8.5 Tons

Standard Belt-Drive — Horizontal																		
ESP (Inches W.C.)	Turns Open																	
	0			1			2			3			4			5		
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP
0.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
0.3	—	—	—	—	—	—	3410	793	1.23	3121	744	0.99	2796	700	0.96	2928	656	0.75
0.5	—	—	—	3342	838	1.33	3009	796	1.06	2669	749	0.83	—	—	—	—	—	—
0.7	3303	888	1.47	2944	843	1.15	—	—	—	—	—	—	—	—	—	—	—	—
0.9	2814	893	1.26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Standard Belt-Drive — Down Shot																		
ESP (Inches W.C.)	Turns Open																	
	0			1			2			3			4			5		
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP
0.1	—	—	—	—	—	—	—	—	—	3372	747	1.11	3078	703	0.91	2814	658	0.70
0.3	—	—	—	—	—	—	3187	797	1.16	2952	753	0.97	2650	703	0.73	—	—	—
0.5	—	—	—	3237	841	1.29	2684	803	0.96	2453	754	0.77	—	—	—	—	—	—
0.7	3303	890	1.47	2753	847	1.09	—	—	—	—	—	—	—	—	—	—	—	—
0.9	2807	896	1.26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High-Static Belt-Drive — Horizontal																		
ESP (Inches W.C.)	Turns Open																	
	0			1			2			3			4			5		
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP
0.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3417	900	1.55
0.9	—	—	—	—	—	—	—	—	—	—	—	—	3446	950	1.76	2995	903	1.36
1.1	—	—	—	—	—	—	—	—	—	3480	1004	1.94	3018	960	1.53	2525	906	1.15
1.3	—	—	—	—	—	—	3499	1060	2.16	3105	1018	1.77	2574	962	1.32	—	—	—
1.5	—	—	—	—	—	—	3166	1065	1.97	2673	1055	1.58	—	—	—	—	—	—
1.7	—	—	—	3137	1109	2.13	2719	1071	1.75	—	—	—	—	—	—	—	—	—
1.9	3107	1154	2.28	2820	1119	1.97	—	—	—	—	—	—	—	—	—	—	—	—
2.1	2790	1164	2.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High-Static Belt-Drive — Down Shot																		
ESP (Inches W.C.)	Turns Open																	
	0			1			2			3			4			5		
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP
0.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3425	901	1.63
0.9	—	—	—	—	—	—	—	—	—	—	—	—	3108	922	1.53	2963	906	1.38
1.1	—	—	—	—	—	—	—	—	—	3430	1010	1.94	2851	945	1.39	2572	912	1.22
1.3	—	—	—	—	—	—	3466	1060	2.14	3097	1016	1.76	2496	956	1.27	—	—	—
1.5	—	—	—	—	—	—	3125	1066	2.02	2653	1022	1.65	—	—	—	—	—	—
1.7	—	—	—	3196	1115	2.21	2735	1071	1.94	—	—	—	—	—	—	—	—	—
1.9	3251	1160	2.36	2859	1122	2.02	—	—	—	—	—	—	—	—	—	—	—	—
2.1	2914	1167	2.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Notes:

Assume dry coil with filter in place; CFM correction for wet coil = 3%

Any adjustment made to the blower should not cause the motor to draw more than the motor rated RLA. Applications that exceed the above could require a larger motor.

Minimum rated SCFM is 350 per ton.

Table 37: Airflow Data—Belt-Drive, DCG120 10.0 Tons

Standard & Two-Speed Belt-Drive at High Speed — Horizontal																				
ESP (Inches W.C.)	Turns Open																			
	0			1			2			3			4			5				
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP		
0.2	—	—	—	—	—	—	—	—	—	4391	737	1.48	4054	693	1.22	3760	645	0.97		
0.4	—	—	—	—	—	—	4314	781	1.61	3969	737	1.29	3534	693	1	—	—	—		
0.6	—	—	—	4255	826	1.69	3894	781	1.38	3447	743	1.09	—	—	—	—	—	—		
0.8	4234	876	1.85	3792	832	1.47	—	—	—	—	—	—	—	—	—	—	—	—		
1.0	3724	877	1.59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
1.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Standard & Two-Speed Belt-Drive at High Speed — Down Shot																				
ESP (Inches W.C.)	Turns Open																			
	0			1			2			3			4			5				
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP		
0.2	—	—	—	—	—	—	4316	780	1.57	4118	738	1.36	3771	687	1.08	3376	644	0.85		
0.4	—	—	—	4282	830	1.76	3928	786	1.4	3595	740	1.13	—	—	—	—	—	—		
0.6	4232	874	1.87	3872	830	1.52	3444	786	1.2	—	—	—	—	—	—	—	—	—		
0.8	3839	880	1.64	3367	836	1.27	—	—	—	—	—	—	—	—	—	—	—	—		
1.0	3326	885	1.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
1.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
High-Static Belt-Drive — Horizontal																				
ESP (Inches W.C.)	Turns Open																			
	0			1			2			3			4			5				
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP		
0.8	DO NOT OPERATE			—	—	—	—	—	—	—	—	—	—	—	4408	885	2.02			
1.0				—	—	—	—	—	—	—	—	—	—	—	4464	940	2.29	3929	891	1.76
1.2				—	—	—	—	—	—	—	—	4585	996	2.58	4026	946	2	3436	897	1.46
1.4				—	—	—	4697	1049	2.92	4141	1001	2.26	3509	951	1.7	—	—	—	—	
1.6				—	—	—	4264	1056	2.58	3663	1007	1.96	—	—	—	—	—	—	—	
1.8				—	—	—	4359	1105	2.85	3785	1061	2.22	—	—	—	—	—	—	—	
2.0				—	—	—	3907	1114	2.49	—	—	—	—	—	—	—	—	—	—	
High-Static Belt-Drive — Down Shot																				
ESP (Inches W.C.)	Turns Open																			
	0			1			2			3			4			5				
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP		
0.8	—	—	—	—	—	—	—	—	—	—	—	—	4188	943	2.11	3793	889	1.67		
1.0	—	—	—	—	—	—	—	—	—	4305	1002	2.39	3836	946	1.89	3416	893	1.45		
1.2	—	—	—	—	—	—	4324	1053	2.63	3879	1003	2.11	3425	951	1.63	—	—	—		
1.4	—	—	—	4428	1109	2.92	3973	1056	2.35	3434	1009	1.8	—	—	—	—	—	—		
1.6	4465	1160	3.2	4088	1113	2.67	3506	1068	2.1	—	—	—	—	—	—	—	—	—		
1.8	4129	1168	2.9	3625	1122	2.3	—	—	—	—	—	—	—	—	—	—	—	—		
2.0	3694	1175	2.65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		

Notes:

Assume dry coil with filter in place; CFM correction for wet coil = 3%

Any adjustment made to the blower should not cause the motor to draw more than the motor rated RLA. Applications that exceed the above could require a larger motor.

Minimum rated SCFM is 350 per ton.

7.5–12.5 Ton
Packaged Air Conditioners

Table 38: Airflow Data—Belt-Drive, DCG150 12.5 Tons

Standard & Two-Speed Belt-Drive at High Speed — Horizontal												
ESP (Inches W.C.)	Turns Open											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2	5762	3.08	5485	2.63	5140	2.21	4855	1.84	4513	1.48	4197	1.20
0.4	5550	2.91	5207	2.44	4857	2.03	4489	1.64	4100	1.29	—	—
0.6	5202	2.65	4922	2.25	4487	1.81	4113	1.45	—	—	—	—
0.8	4898	2.43	4515	1.99	4074	1.58	—	—	—	—	—	—
1.0	4549	2.20	4135	1.76	—	—	—	—	—	—	—	—
1.2	4258	2.01	—	—	—	—	—	—	—	—	—	—
Standard Belt-Drive & Two-Speed Belt-Drive at High Speed — Down shot												
ESP (Inches W.C.)	Turns Open											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2	5514	2.92	5604	3.22	5064	2.16	4775	1.81	4514	1.49	4271	1.23
0.4	5279	2.74	5110	2.40	4696	1.94	4447	1.63	4123	1.31	—	—
0.6	5185	2.67	4813	2.20	4352	1.74	4039	1.43	—	—	—	—
0.8	4766	2.37	4526	2.02	—	—	—	—	—	—	—	—
1.0	4223	2.01	—	—	—	—	—	—	—	—	—	—
High-Static Belt-Drive — Horizontal												
ESP (Inches W.C.)	Turns Open											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.6	—	—	—	—	—	—	5967	3.92	5451	3.16	5275	2.77
0.8	—	—	—	—	—	—	5628	3.61	5223	2.97	4959	2.54
1.0	—	—	—	—	5840	4.10	5385	3.39	4999	2.80	4635	2.31
1.2	—	—	—	—	5643	3.90	5003	3.06	4803	2.65	4160	1.99
1.4	6007	4.93	5740	4.32	5229	3.51	4576	2.71	4440	2.38	—	—
1.6	5752	4.64	5401	3.97	4917	3.23	—	—	—	—	—	—
1.8	5380	4.24	5033	3.61	4397	2.79	—	—	—	—	—	—
2.0	5065	3.91	4573	3.18	—	—	—	—	—	—	—	—
High-Static Belt-Drive — Down Shot												
ESP (Inches W.C.)	Turns Open											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.6	—	—	—	—	—	—	—	—	5515	3.21	5124	2.68
0.8	—	—	—	—	5840	4.06	5781	3.73	5344	3.07	4721	2.37
1.0	—	—	5908	4.49	5643	3.86	5369	3.36	4887	2.71	4365	2.13
1.2	5869	4.74	5542	4.11	5229	3.47	4853	2.92	4404	2.35	3986	1.88
1.4	5464	4.30	5180	3.75	4917	3.19	4584	2.71	4197	2.21	—	—
1.6	5229	4.05	4960	3.53	4397	2.75	4204	2.41	—	—	—	—
1.8	4961	3.78	4553	3.16	—	—	—	—	—	—	—	—
2.0	4790	3.61	4315	2.95	—	—	—	—	—	—	—	—

Notes:

Assume dry coil with filter in place; CFM correction for wet coil = 3%

Any adjustment made to the blower should not cause the motor to draw more than the motor rated RLA. Applications that exceed the above could require a larger motor.

Minimum rated SCFM is 350 per ton.

7.5-12.5 Ton
Packaged Air Conditioners

Table 39: Expanded Cooling Data, DCC090 7.5 Tons

IDB		Outdoor Ambient Temperature																								
		65°F				75°F				85°F				95°F				105°F				115°F				
		Entering Indoor Wet Bulb Temperature																								
Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71		
70	3375	MBh	86.2	89.4	97.9	—	84.2	87.3	95.6	—	82.2	85.2	93.4	—	80.2	83.1	91.1	—	76.2	79.0	86.5	—	70.6	73.2	80.2	—
		S/T	0.74	0.62	0.43	—	0.77	0.64	0.45	—	0.79	0.66	0.46	—	0.82	0.68	0.47	—	0.85	0.71	0.49	—	0.85	0.71	0.49	—
		ΔT	17	15	11	—	18	15	12	—	18	15	12	—	18	15	12	—	18	15	12	—	16	14	11	—
		kW	6.12	6.24	6.42	—	6.56	6.69	6.89	—	6.94	7.08	7.30	—	7.28	7.43	7.66	—	7.57	7.73	7.97	—	7.82	7.99	8.24	—
		Amps	20	21	21	—	22	22	23	—	23	23	24	—	24	25	25	—	25	26	26	—	26	27	28	—
		Hi PR	234	252	266	—	262	282	298	—	298	321	339	—	340	366	386	—	382	411	434	—	422	454	480	—
	Lo PR	108	115	126	—	114	122	133	—	119	126	138	—	125	133	145	—	131	139	152	—	135	144	157	—	
	3000	MBh	83.7	86.8	95.1	—	81.8	84.8	92.9	—	79.8	82.7	90.7	—	77.9	80.7	88.4	—	74.0	76.7	84.0	—	68.5	71.0	77.8	—
		S/T	0.71	0.59	0.41	—	0.73	0.61	0.43	—	0.75	0.63	0.44	—	0.78	0.65	0.45	—	0.81	0.67	0.47	—	0.81	0.68	0.47	—
		ΔT	18.19	15.74	11.95	—	18.41	15.94	12.10	—	18.43	15.95	12.11	—	18.56	16.06	12.19	—	18.30	15.84	12.02	—	17.09	14.80	11.23	—
		kW	6	6	6	—	7	7	7	—	7	7	7	—	7	7	8	—	8	8	8	—	8	8	8	—
		Amps	20	21	21	—	21	22	22	—	23	23	24	—	24	24	25	—	25	26	26	—	26	27	28	—
		Hi PR	231	249	263	—	260	279	295	—	295	317.8	335.6	—	336	361.9	382.2	—	378	407.2	430.0	—	418	449.9	475.1	—
	Lo PR	107	114	124	—	113	120	132	—	118	125	137	—	124	132	144	—	130	138	150	—	134	143	156	—	
	2400	MBh	77	80	88	—	75	78	86	—	74	76	84	—	72	75	82	—	68	71	78	—	63	66	72	—
		S/T	0.68	0.57	0.40	—	0.71	0.59	0.41	—	0.73	0.61	0.42	—	0.75	0.63	0.43	—	0.78	0.65	0.45	—	0.78	0.66	0.45	—
		ΔT	20	18	13	—	20	18	13	—	21	18	13	—	21	18	14	—	20	18	13	—	19	16	12	—
		kW	6	6	6	—	6	6	7	—	7	7	7	—	7	7	7	—	7	7	8	—	8	8	8	—
Amps		19.9	20.2	20.7	—	21.0	21.4	21.9	—	22.3	22.7	23.3	—	23.5	23.9	24.5	—	24.6	25.1	25.7	—	25.7	26.2	26.9	—	
Hi PR		224	242	255	—	252	271	286	—	286	308.3	325.5	—	326	351.1	370.7	—	367	395.0	417.1	—	406	436.4	460.8	—	
Lo PR	104	111	121	—	110	117	128	—	114	121	133	—	120	128	139	—	126	134	146	—	130	138	151	—		
75	3375	MBh	88	90	98	105	86	88	95	102	84	86	93	100	82	84	91	98	77	80	86	93	72	74	80	85.9
		S/T	0.84	0.76	0.57	0.4	0.88	0.78	0.59	0.4	0.90	0.80	0.61	0.4	0.93	0.83	0.63	0.4	0.96	0.86	0.65	0.4	0.97	0.87	0.66	0.4
		ΔT	20	19	15	10.5	20	19	15	10.6	20	19	15	10.7	21	19	16	10.7	20	19	15	10.6	19	17	14	9.9
		kW	6	6	6	6.7	7	7	7	7.2	7	7	7	7.6	7	7	8	8.0	8	8	8	8.3	8	8	8	8.6
		Amps	20.5	20.9	21.4	22.0	21.7	22.1	22.7	23.3	23.1	23.5	24.1	24.8	24.3	24.8	25.4	26.2	25.5	26.0	26.7	27.5	26.7	27.2	27.9	28.8
		Hi PR	236	254	268	280	265	285	301	314	301.3	324	342	357	343.2	369	390	407	386	415	439	458	427	459	485	506
	Lo PR	109	116	127	135	116	123	134	143	120	128	139	149	126	134	146	156	132	141	154	163	137	145	159	169.1	
	3000	MBh	85	88	95	102	83	86	93	99	81	84	90	97	79	82	88	95	75	77	84	90	70	72	78	83.4
		S/T	0.81	0.72	0.55	0.4	0.84	0.75	0.57	0.4	0.86	0.77	0.58	0.4	0.88	0.79	0.60	0.4	0.92	0.82	0.62	0.4	0.93	0.83	0.63	0.4
		ΔT	21	19	16	11.0	21	20	16	11.1	21	20	16	11.1	21	20	16	11.2	21	19	16	11.0	20	18	15	10.3
		kW	6	6	6	6.6	7	7	7	7.1	7	7	7	7.5	7	7	8	7.9	8	8	8	8.2	8	8	8	8.5
		Amps	20.4	20.8	21.2	21.8	21.6	22.0	22.5	23.1	23.0	23.4	24.0	24.7	24.1	24.6	25.2	26.0	25.3	25.8	26.5	27.3	26.5	27.0	27.7	28.6
		Hi PR	234	252	266	277	262	282	298	311	298.3	321	339	354	339.8	366	386	403	382	411	434	453	422	454	480	501
	Lo PR	108	115	126	134	114	122	133	141	119	126	138	147	125	133	145	154	131	139	152	162	135	144	157	167	
	2400	MBh	79	81	88	94	77	79	86	92	75	77	84	90	73	75	81	87	69	72	77	83	64	66	72	76.9
		S/T	0.78	0.69	0.53	0.3	0.81	0.72	0.55	0.4	0.83	0.74	0.56	0.4	0.85	0.76	0.58	0.4	0.88	0.79	0.60	0.4	0.89	0.80	0.60	0.4
		ΔT	23	22	18	12.2	24	22	18	12.3	24	22	18	12.3	24	22	18	12.4	24	22	18	12.3	22	20	17	11.5
		kW	6	6	6	6.5	6	7	7	6.9	7	7	7	7.4	7	7	7	7.7	7	8	8	8.0	8	8	8	8.3
Amps		20.0	20.3	20.8	21.4	21.2	21.5	22.0	22.7	22.5	22.9	23.5	24.1	23.6	24.1	24.7	25.4	24.8	25.3	25.9	26.7	25.9	26.4	27.1	27.9	
Hi PR		227	244	258	269	254	274	289	302	289.4	311	329	343	329.6	355	375	391	371	399	421	439	410	441	466	486	
Lo PR	105	112	122	130	111	118	129	137	115	123	134	143	121	129	141	150	127	135	147	157	131	140	153	162		

IDB = Entering Indoor Dry Bulb Temperature
 Shaded area reflects ACCA (TVA) conditions
 kW = Total system power
 High and low pressures are measured at the liquid and suction service ports.
 Amps: Unit amps (comp. + evaporator + condenser fan motors)

NOTE: DCC and DCG are approximately the same, DCH variance shown below:
 • QT ≈ 1% > DCC
 • QS ≈ 6% > DCC
 • ΔT ≈ 5% > DCC
 • Kw ≈ 1% > DCC

7.5-12.5 Ton Packaged Air Conditioners

Table 39 continued: Expanded Cooling Data, DCC090 7.5 Tons

IDB		Outdoor Ambient Temperature																								
		65°F				75°F				85°F				95°F				105°F				115°F				
		Entering Indoor Wet Bulb Temperature																								
Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71		
80	3375	MBh	89.3	91.2	97.4	104.2	87.2	89.1	95.2	101.7	85.1	87.0	92.9	99.3	83.0	84.8	90.6	96.9	78.9	80.6	86.1	92.0	73.1	74.7	79.8	85.3
		S/T	0.93	0.87	0.71	0.5	0.96	0.90	0.73	0.5	1.00	0.92	0.75	0.6	1.00	0.95	0.78	0.6	1.00	1.00	0.81	0.6	1.00	1.00	0.81	0.6
		ΔT	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	21	22	19	15	20	20	18	14.1
		kW	6.21	6.33	6.52	6.7	6.66	6.79	7.00	7.2	7.05	7.20	7.42	7.6	7.40	7.55	7.79	8.0	7.69	7.86	8.10	8.4	7.95	8.12	8.37	8.6
		Amps	21	21	22	22.1	22	22	23	23.5	23	24	24	25.0	24	25	26	26.3	26	26	27	27.7	27	27	28	29.0
		Hi PR	238	257	271	283	268	288	304	317	304	328	346	361	347	373	394	411	390	420	443	462	431	464	490	511
		Lo PR	110	118	128	137	117	124	136	144	121	129	141	150	127	136	148	158	133.5	142	155	165	138	147	160	171
	3000	MBh	86.65	88.55	94.60	101.1	84.64	86.49	92.40	98.8	82.62	84.43	90.20	96.4	80.61	82.37	88.00	94.1	76.58	78.25	83.60	89.4	70.94	72.48	77.44	82.8
		S/T	0.88	0.83	0.67	0.50	0.92	0.86	0.70	0.52	0.94	0.88	0.72	0.54	0.97	0.91	0.74	0.55	1.00	0.94	0.77	0.57	1.00	0.95	0.77	0.58
		ΔT	23.47	22.49	19.56	15.6	23.76	22.77	19.80	15.8	23.78	22.79	19.82	15.8	23.95	22.95	19.96	15.9	23.47	22.63	19.68	15.7	21.74	21.14	18.38	14.7
		kW	6	6	6	6.7	7	7	7	7.2	7	7	7	7.6	7	7	8	8.0	8	8	8	8.3	8	8	8	8.6
		Amps	21	21	21	22.0	22	22	23	23.3	23	24	24	24.8	24	25	25	26.2	26	26	27	27.5	27	27	28	28.8
		Hi PR	236	254	268	280	265	285	301	314	301	324	342	357	343	369	390	407	386	415	439	458	427	459	485	506
		Lo PR	109	116	127	135	116	123	134	143	120	128	139	149	126	134	147	156	132.19	141	154	164	137	145	159	169
	2400	MBh	80	82	87	93	78	80	85	91	76	78	83	89	74	76	81	87	71	72	77	82	65	67	71	76.4
		S/T	0.85	0.80	0.65	0.5	0.88	0.83	0.67	0.5	0.91	0.85	0.69	0.5	0.93	0.88	0.71	0.5	0.97	0.91	0.74	0.6	0.98	0.92	0.75	0.6
		ΔT	26	25	22	17.4	26	25	22	17.6	26	25	22	17.6	27	26	22	17.7	26	25	22	17.5	25	24	20	16.3
		kW	6	6	6	6.5	6	7	7	7.0	7	7	7	7.4	7	7	8	7.8	7	8	8	8.1	8	8	8	8.4
		Amps	20.1	20.5	21.0	21.5	21.3	21.7	22.2	22.8	22.6	23.1	23.6	24.3	23.8	24.2	24.9	25.6	25.0	25.4	26.1	26.9	26.1	26.6	27.3	28.1
		Hi PR	229	246	260	271	257	277	292	305	292	315	332	346	333	358	378	395	375	403	426	444	414	445	470	490
		Lo PR	106	113	123	131	112	119	130	139	116	124	135	144	122	130	142	151	128	136	149	159	133	141	154	164.1
85	3375	MBh	90.8	92.6	97.0	103.4	88.7	90.4	94.7	101.0	86.6	88.3	92.4	98.6	84.5	86.1	90.2	96.2	80.3	81.8	85.7	91.4	74.3	75.8	79.4	84.7
		S/T	0.97	0.94	0.85	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.93	0.75	1.00	1.00	0.96	0.78	1.00	1.00	0.97	0.79
		ΔT	24	24	22	19	24	24	23	20	24	24	23	20	23	23	23	20	22	22	22	19	20	21	21	18.2
		kW	6.26	6.38	6.57	6.8	6.71	6.84	7.05	7.3	7.11	7.25	7.47	7.7	7.46	7.61	7.85	8.1	7.75	7.92	8.17	8.4	8.01	8.18	8.44	8.7
		Amps	21	21	22	22.3	22	22	23	23.6	23	24	24	25.2	25	25	26	26.5	26	26	27	27.9	27	28	28	29.2
		Hi PR	241	259	274	285	270	291	307	320	307	331	349	364	350	377	398	415	394	424	448	467	435	468	495	516
		Lo PR	112	119	130	138	118	125	137	146	122	130	142	152	129	137	149	159	135	143	157	167	139	148	162	173
	3000	MBh	88.17	89.87	94.13	100.4	86.12	87.78	91.94	98.1	84.07	85.69	89.75	95.7	82.02	83.60	87.56	93.4	77.92	79.42	83.18	88.7	72.17	73.57	77.05	82.2
		S/T	0.93	0.89	0.81	0.65	0.96	0.93	0.84	0.68	0.98	0.95	0.86	0.70	1.00	0.98	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.93	0.75
		ΔT	25.03	24.62	23.27	20.1	25.34	24.92	23.56	20.4	25.37	24.95	23.58	20.4	25.13	25.12	23.75	20.6	23.88	24.34	23.42	20.3	22.12	22.55	21.87	18.9
		kW	6	6	7	6.7	7	7	7	7.2	7	7	7	7.6	7	8	8	8.0	8	8	8	8.4	8	8	8	8.6
		Amps	21	21	22	22.1	22	22	23	23.5	23	24	24	25.0	24	25	26	26.3	26	26	27	27.7	27	27	28	29.0
		Hi PR	238	257	271	283	268	288	304	317	304	328	346	361	347	373	394	411	390	420	443	462	431	464	490	511
		Lo PR	110	118	128	137	117	124	136	144	121	129	141	150	127	136	148	158	134	142	155	165	138	147	160	171
	2400	MBh	81	83	87	93	79	81	85	91	78	79	83	88	76	77	81	86	72	73	77	82	67	68	71	75.9
		S/T	0.89	0.86	0.78	0.6	0.93	0.89	0.81	0.7	0.95	0.92	0.83	0.7	0.98	0.95	0.85	0.7	1.00	0.98	0.89	0.7	1.00	0.99	0.89	0.7
		ΔT	28	27	26	22.4	28	28	26	22.7	28	28	26	22.7	28	28	26	22.9	28	28	26	22.5	26	26	24	21.1
		kW	6	6	6	6.6	7	7	7	7.0	7	7	7	7.5	7	7	8	7.8	8	8	8	8.2	8	8	8	8.4
		Amps	20.3	20.6	21.1	21.7	21.4	21.8	22.3	23.0	22.8	23.2	23.8	24.5	24.0	24.4	25.0	25.8	25.1	25.6	26.3	27.1	26.3	26.8	27.5	28.4
		Hi PR	231	249	263	274	260	279	295	308	295	318	335	350	336	362	382	399	378	407	430	448	418	450	475	495
		Lo PR	107	114	124	133	113	120	131	140	118	125	137	146	124	131	144	153	130	138	150	160	134	143	156	166

IDB = Entering Indoor Dry Bulb Temperature
 Shaded area reflects AHRI conditions
 kW = Total system power
 High and low pressures are measured at the liquid and suction service ports.
 Amps: Unit amps (comp. + evaporator + condenser fan motors)

7.5-12.5 Ton Packaged Air Conditioners

Table 40: Expanded Cooling Data, DCC102 8.5 Tons

IDB		Outdoor Ambient Temperature																								
		65°F				75°F				85°F				95°F				105°F				115°F				
		Entering Indoor Wet Bulb Temperature																								
Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71		
3600	MBh	100.0	103.6	113.5	—	97.6	101.2	110.9	—	95.3	98.8	108.2	—	93.0	96.4	105.6	—	88.3	91.6	100.3	—	81.8	84.8	92.9	—	
	S/T	0.69	0.58	0.40	—	0.72	0.60	0.42	—	0.74	0.62	0.43	—	0.76	0.64	0.44	—	0.79	0.66	0.46	—	0.80	0.67	0.46	—	
	ΔT	18	15	12	—	18	16	12	—	18	16	12	—	18	16	12	—	18	15	12	—	17	14	11	—	
	kW	8.90	8.90	8.90	—	8.90	8.90	8.90	—	8.90	8.90	8.90	—	8.90	8.90	8.90	—	8.90	8.90	8.90	—	8.90	8.90	8.90	—	
	HI PR	245	263	278	—	274	295	312	—	312	336	355	—	355	382	404	—	400	430	454	—	442	475	502	—	
	LO PR	104	110	120	—	109	116	127	—	114	121	132	—	119	127	139	—	125	133	145	—	130	138	150	—	
70	3200	MBh	97.0	100.6	110.2	—	94.8	98.2	107.6	—	92.5	95.9	105.1	—	90.3	93.6	102.5	—	85.8	88.9	97.4	—	79.4	82.3	90.2	—
		S/T	0.66	0.55	0.38	—	0.69	0.57	0.40	—	0.70	0.59	0.41	—	0.73	0.61	0.42	—	0.75	0.63	0.44	—	0.76	0.63	0.44	—
		ΔT	18	16	12	—	19	16	12	—	19	16	12	—	19	16	12	—	19	16	12	—	17	15	11	—
		kW	8.90	8.90	8.90	—	8.90	8.90	8.90	—	8.90	8.90	8.90	—	8.90	8.90	8.90	—	8.90	8.90	8.90	—	8.90	8.90	8.90	—
		HI PR	242	261	275	—	272	292	309	—	309	332	351	—	352	379	400	—	396	426	450	—	437	471	497	—
		LO PR	103	109	119	—	108	115	126	—	113	120	131	—	118	126	137	—	124	132	144	—	128	136	149	—
2800	MBh	89.6	92.8	101.7	—	87.5	90.7	99.3	—	85.4	88.5	97.0	—	83.3	86.4	94.6	—	79.2	82.0	89.9	—	73.3	76.0	83.3	—	
	S/T	0.64	0.53	0.37	—	0.66	0.55	0.38	—	0.68	0.57	0.39	—	0.70	0.58	0.41	—	0.73	0.61	0.42	—	0.73	0.61	0.42	—	
	ΔT	19	16	12	—	19	16	12	—	19	16	12	—	19	17	13	—	19	16	12	—	18	15	12	—	
	kW	8.90	8.90	8.90	—	8.90	8.90	8.90	—	8.90	8.90	8.90	—	8.90	8.90	8.90	—	8.90	8.90	8.90	—	8.90	8.90	8.90	—	
	HI PR	235	253	267	—	264	284	299	—	300	323	341	—	341	367	388	—	384	413	436	—	424	457	482	—	
	LO PR	99	106	116	—	105	112	122	—	109	116	127	—	115	122	133	—	120	128	140	—	124	132	144	—	
75	3600	MBh	101.6	104.7	113.3	121.6	99.3	102.2	110.6	118.8	96.9	99.8	108.0	115.9	94.6	97.4	105.4	113.1	89.8	92.5	100.1	107.4	83.2	85.7	92.7	99.5
		S/T	0.79	0.71	0.53	0.34	0.82	0.73	0.55	0.36	0.84	0.75	0.57	0.37	0.87	0.77	0.59	0.38	0.90	0.80	0.61	0.39	0.91	0.81	0.61	0.39
		ΔT	20	19	15	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	19	18	15	10
		kW	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90
		HI PR	247	266	281	293	277	298	315	329	315	339	358	374	359	386	408	426	404	435	459	479	446	480	507	529
		LO PR	105	111	122	129	111	118	128	137	115	122	133	142	121	128	140	149	126	135	147	156	131	139	152	162
3200	MBh	98.7	101.6	110.0	118.0	96.4	99.2	107.4	115.3	94.1	96.9	104.9	112.5	91.8	94.5	102.3	109.8	87.2	89.8	97.2	104.3	80.8	83.2	90.0	96.6	
	S/T	0.75	0.67	0.51	0.33	0.78	0.70	0.53	0.34	0.80	0.72	0.54	0.35	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.37	0.86	0.77	0.58	0.38	
	ΔT	21	20	16	11	22	20	16	11	22	20	16	11	22	20	16	11	21	20	16	11	20	18	15	10	
	kW	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	
	HI PR	245	263	278	290	274	295	312	325	312	336	355	370	355	383	404	421	400	430	454	474	442	476	502	524	
	LO PR	104	110	120	128	109	116	127	135	114	121	132	141	120	127	139	148	125	133	145	155	130	138	150	160	
2800	MBh	91.1	93.8	101.5	108.9	89.0	91.6	99.1	106.4	86.8	89.4	96.8	103.9	84.7	87.2	94.4	101.3	80.5	82.9	89.7	96.3	74.6	76.8	83.1	89.2	
	S/T	0.73	0.65	0.49	0.32	0.75	0.67	0.51	0.33	0.77	0.69	0.52	0.34	0.80	0.71	0.54	0.35	0.83	0.74	0.56	0.36	0.83	0.74	0.56	0.36	
	ΔT	22	20	16	11	22	20	17	11	22	20	17	11	22	20	17	12	22	20	16	11	20	19	15	11	
	kW	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	
	HI PR	237	255	270	281	266	286	303	316	303	326	344	359	345	371	392	409	388	417	441	460	429	461	487	508	
	LO PR	101	107	117	124	106	113	123	131	110	117	128	137	116	123	135	143	121	129	141	150	126	134	146	155	

IDB = Entering Indoor Dry Bulb Temperature
 Shaded area reflects ACCA (TVA) conditions
 kW = Total system power
 High and low pressures are measured at the liquid and suction service ports.
 Amps: Unit amps (comp. + evaporator + condenser fan motors)

NOTE: DCC and DCG are approximately the same, DCH variance shown below:

- QT ≈ 1% > DCC
- QS ≈ 6% > DCC
- ΔT ≈ 5% > DCC
- Kw ≈ 1% > DCC

7.5-12.5 Ton Packaged Air Conditioners

Table 40 continued: Expanded Cooling Data, DCC102 8.5 Tons

IDB		Outdoor Ambient Temperature																									
		65°F				75°F				85°F				95°F				105°F				115°F					
		Entering Indoor Wet Bulb Temperature																									
Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71			
80	3600	MBh	103.5	105.7	112.9	120.7	101.0	103.3	110.3	117.9	98.6	100.8	107.7	115.1	96.2	98.3	105.1	112.3	91.4	93.4	99.8	106.7	84.7	86.5	92.5	98.8	
		S/T	0.87	0.81	0.66	0.49	0.90	0.84	0.68	0.51	0.92	0.86	0.70	0.52	0.95	0.89	0.72	0.54	1.00	0.92	0.75	0.56	1.00	0.93	0.76	0.57	
		ΔT	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	16	23	22	19	15	22	21	18	14	
		kW	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90
		HI PR	250	269	284	296	280	301	318	332	318	343	362	377	363	390	412	430	408	439	464	484	451	485	512	534	
		LO PR	106	112	123	131	112	119	130	138	116	123	135	144	122	130	142	151	128	136	148	158	132	141	153	163	
	3200	MBh	100.4	102.6	109.7	117.2	98.1	100.2	107.1	114.5	95.8	97.9	104.6	111.8	93.4	95.5	102.0	109.0	88.8	90.7	96.9	103.6	82.2	84.0	89.8	96.0	
		S/T	0.83	0.77	0.63	0.47	0.86	0.80	0.65	0.49	0.88	0.82	0.67	0.50	0.91	0.85	0.69	0.52	0.94	0.88	0.72	0.54	0.95	0.89	0.72	0.54	
		ΔT	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	22	21	19	15	
		kW	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90
		HI PR	247	266	281	293	277	298	315	329	315	339	358	374	359	386	408	426	404	435	459	479	446	480	507	529	
		LO PR	105	111	122	129	111	118	128	137	115	122	133	142	121	128	140	149	127	135	147	156	131	139	152	162	
	2800	MBh	92.7	94.7	101.2	108.2	90.5	92.5	98.9	105.7	88.4	90.3	96.5	103.2	86.2	88.1	94.1	100.6	81.9	83.7	89.4	95.6	75.9	77.5	82.8	88.6	
		S/T	0.80	0.75	0.61	0.45	0.82	0.77	0.63	0.47	0.85	0.79	0.65	0.48	0.87	0.82	0.67	0.50	0.91	0.85	0.69	0.52	0.91	0.86	0.70	0.52	
		ΔT	24	23	20	16	25	23	20	16	25	24	20	16	25	24	21	16	24	23	20	16	23	22	19	15	
		kW	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90
		HI PR	240	258	272	284	269	289	306	319	306	329	348	362	348	375	396	413	392	422	445	464	433	466	492	513	
		LO PR	102	108	118	126	107	114	125	133	111	119	129	138	117	125	136	145	123	131	143	152	127	135	147	157	
85	3600	MBh	105.3	107.3	112.4	119.9	102.8	104.8	109.8	117.1	100.4	102.3	107.1	114.3	97.9	99.8	104.5	111.5	93.0	94.8	99.3	105.9	86.2	87.8	92.0	98.1	
		S/T	0.91	0.88	0.79	0.64	0.94	0.91	0.82	0.66	0.96	0.93	0.84	0.68	0.99	0.96	0.87	0.70	1.00	1.00	0.90	0.73	1.00	1.00	0.91	0.74	
		ΔT	24	24	23	20	25	24	23	20	25	24	23	20	25	24	23	20	24	24	23	20	22	22	21	18	
		kW	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90
		HI PR	252	271	286	299	283	304	321	335	322	346	365	381	366	394	416	434	412	443	468	488	455	490	517	540	
		LO PR	107	114	124	132	113	120	131	140	117	125	136	145	123	131	143	152	129	137	150	160	133	142	155	165	
	3200	MBh	102.2	104.2	109.1	116.4	99.8	101.7	106.6	113.7	97.4	99.3	104.0	111.0	95.1	96.9	101.5	108.3	90.3	92.1	96.4	102.9	83.7	85.3	89.3	95.3	
		S/T	0.87	0.83	0.75	0.61	0.90	0.86	0.78	0.63	0.92	0.89	0.80	0.65	0.95	0.92	0.83	0.67	0.98	0.95	0.86	0.70	0.99	0.96	0.86	0.70	
		ΔT	25	25	24	20	26	25	24	21	26	25	24	21	26	25	24	21	26	25	24	21	24	23	22	19	
		kW	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90
		HI PR	250	269	284	296	280	301	318	332	318	343	362	377	363	390	412	430	408	439	464	484	451	485	512	534	
		LO PR	106	112	123	131	112	119	130	138	116	123	135	144	122	130	142	151	128	136	148	158	132	141	153	163	
	2800	MBh	94.3	96.2	100.7	107.4	92.1	93.9	98.4	104.9	89.9	91.7	96.0	102.4	87.7	89.4	93.7	99.9	83.4	85.0	89.0	94.9	77.2	78.7	82.4	87.9	
		S/T	0.83	0.80	0.73	0.59	0.86	0.83	0.75	0.61	0.89	0.86	0.77	0.63	0.91	0.88	0.80	0.65	0.95	0.92	0.83	0.67	0.96	0.92	0.83	0.68	
		ΔT	26	25	24	21	26	26	24	21	26	26	24	21	26	26	25	21	26	26	24	21	24	24	23	20	
		kW	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90
		HI PR	242	260	275	287	272	292	309	322	309	332	351	366	352	379	400	417	396	426	450	469	437	471	497	518	
		LO PR	103	109	119	127	108	115	126	134	113	120	131	139	118	126	137	146	124	132	144	153	128	136	149	159	

IDB = Entering Indoor Dry Bulb Temperature
 Shaded area reflects AHRI conditions
 kW = Total system power
 High and low pressures are measured at the liquid and suction service ports.
 Amps: Unit amps (comp. + evaporator + condenser fan motors)

7.5-12.5 Ton
 Packaged Air Conditioners

Table 41: Expanded Cooling Data, DCC120 10.0 Tons

IDB		Outdoor Ambient Temperature																							
		65°F				75°F				85°F				95°F				105°F				115°F			
		Entering Indoor Wet Bulb Temperature																							
Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	
3938	MBh	114	118	129	—	111	115	126	—	108	112	123	—	106	110	120	—	100	104	114	—	93	96	106	—
	S/T	0.73	0.61	0.42	—	0.76	0.63	0.44	—	0.78	0.65	0.45	—	0.80	0.67	0.47	—	0.83	0.70	0.48	—	0.84	0.70	0.49	—
	ΔT	19	17	13	—	20	17	13	—	20	17	13	—	20	17	13	—	20	17	13	—	18	16	12	—
	kW	8.22	8.37	8.60	—	8.77	8.94	9.19	—	9.25	9.43	9.70	—	9.68	9.87	10.16	—	10.04	10.24	10.55	—	10.36	10.56	10.88	—
	Amps	36	37	38	—	39	39	40	—	41	42	43	—	43	44	46	—	46	47	48	—	48	49	50	—
	Hi PR	247	266	281	—	277	298	315	—	315	339	358	—	359	386	408	—	404	435	459	—	446	480	507	—
Lo PR	105	111	122	—	111	118	128	—	115	122	134	—	121	128	140	—	127	135	147	—	131	139	152	—	
70 3500	MBh	110	114	125	—	108	112	122	—	105	109	119	—	103	106	117	—	98	101	111	—	90	94	103	—
	S/T	0.70	0.58	0.40	—	0.72	0.61	0.42	—	0.74	0.62	0.43	—	0.77	0.64	0.44	—	0.80	0.66	0.46	—	0.80	0.67	0.46	—
	ΔT	20.27	17.55	13.32	—	20.52	17.76	13.48	—	20.54	17.78	13.50	—	20.69	17.91	13.59	—	20.40	17.66	13.40	—	19.05	16.49	12.52	—
	kW	8.2	8.3	8.5	—	8.7	8.9	9.1	—	9.2	9.4	9.6	—	9.6	9.8	10.1	—	10.0	10.2	10.5	—	10.3	10.5	10.8	—
	Amps	36.1	36.7	37.7	—	38.3	39.0	40.1	—	40.9	41.7	42.8	—	43.2	44.0	45.2	—	45.4	46.3	47.6	—	47.6	48.6	49.9	—
	Hi PR	245	263	278	—	274	295	312	—	312	336	355	—	355	383	404	—	400	430	454	—	442	476	502	—
Lo PR	104	110	120	—	110	117	127	—	114	121	132	—	120	127	139	—	125	133	146	—	130	138	151	—	
2800	MBh	102	106	116	—	99	103	113	—	97	101	110	—	95	98	108	—	90	93	102	—	83	86	95	—
	S/T	0.67	0.56	0.39	—	0.70	0.58	0.40	—	0.72	0.60	0.41	—	0.74	0.62	0.43	—	0.77	0.64	0.44	—	0.77	0.65	0.45	—
	ΔT	23	20	15	—	23	20	15	—	23	20	15	—	23	20	15	—	23	20	15	—	21	18	14	—
	kW	8	8	8	—	9	9	9	—	9	9	9	—	9	10	10	—	10	10	10	—	10	10	11	—
	Amps	35.3	36.0	36.9	—	37.5	38.2	39.2	—	40.0	40.8	41.9	—	42.2	43.0	44.2	—	44.4	45.3	46.5	—	46.5	47.5	48.8	—
	Hi PR	237	255	270	—	266	286	302	—	303	326	344	—	345	371	392	—	388	417	441	—	429	461	487	—
Lo PR	101	107	117	—	106	113	123	—	110	117	128	—	116	123	135	—	122	129	141	—	126	134	146	—	
75 3938	MBh	116	119	129	138	113	116	126	135	110	113	123	132	108	111	120	129	102	105	114	122	95	97	105	113
	S/T	0.83	0.75	0.56	0.4	0.86	0.77	0.58	0.4	0.89	0.79	0.60	0.4	0.91	0.82	0.62	0.4	0.95	0.85	0.64	0.4	0.96	0.86	0.65	0.4
	ΔT	22.5	20.7	17.0	11.7	22.8	21.0	17.2	11.9	22.8	21.0	17.2	11.9	23.0	21.1	17.3	12.0	22.6	20.8	17.1	11.8	21.1	19.5	15.9	11.0
	kW	8.3	8.4	8.7	8.9	8.8	9.0	9.3	9.5	9.3	9.5	9.8	10.1	9.8	9.9	10.2	10.5	10.1	10.3	10.6	10.9	10.4	10.6	11.0	11.3
	Amps	36.6	37.3	38.2	39.3	38.9	39.6	40.6	41.9	41.5	42.3	43.5	44.8	43.8	44.7	45.9	47.3	46.1	47.0	48.3	49.9	48.4	49.3	50.7	52.4
	Hi PR	250	269	284	296	280	301	318	332	318	343	362	377	363	390	412	430	408	439	464	484	451	485	512	534
Lo PR	106	113	123	131	112	119	130	138	116	124	135	144	122	130	142	151	128	136	148	158	132	141	154	164	
75 3500	MBh	112	116	125	134	110	113	122	131	107	110	119	128	104	107	116	125	99	102	111	119	92	95	102	110
	S/T	0.79	0.71	0.54	0.3	0.82	0.74	0.56	0.4	0.84	0.76	0.57	0.4	0.87	0.78	0.59	0.4	0.90	0.81	0.61	0.4	0.91	0.82	0.62	0.4
	ΔT	23.4	21.6	17.7	12.2	23.7	21.8	17.9	12.4	23.7	21.9	17.9	12.4	23.9	22.0	18.0	12.5	23.6	21.7	17.8	12.3	22.0	20.3	16.6	11.5
	kW	8.2	8.4	8.6	8.8	8.8	8.9	9.2	9.5	9.3	9.4	9.7	10.0	9.7	9.9	10.2	10.5	10.0	10.2	10.5	10.9	10.4	10.6	10.9	11.2
	Amps	36.3	37.0	37.9	39.0	38.6	39.3	40.3	41.5	41.2	42.0	43.1	44.5	43.5	44.3	45.6	47.0	45.8	46.7	48.0	49.5	48.0	49.0	50.3	51.9
	Hi PR	247	266	281	293	277	298	315	329	315	339	358	374	359	386	408	426	404	435	459	479	446	480	507	529
Lo PR	105	111	122	130	111	118	128	137	115	122	134	142	121	128	140	149	127	135	147	157	131	139	152	162	
2800	MBh	104	107	115	124	101	104	113	121	99	102	110	118	96	99	107	115	92	94	102	109	85	87	95	101
	S/T	0.77	0.69	0.52	0.3	0.79	0.71	0.54	0.3	0.81	0.73	0.55	0.4	0.84	0.75	0.57	0.4	0.87	0.78	0.59	0.4	0.88	0.79	0.60	0.4
	ΔT	26.1	24.0	19.7	13.6	26.4	24.3	19.9	13.7	26.4	24.3	19.9	13.8	26.6	24.5	20.1	13.9	26.2	24.2	19.8	13.7	24.5	22.6	18.5	12.8
	kW	8.1	8.2	8.4	8.7	8.6	8.7	9.0	9.2	9.1	9.2	9.5	9.8	9.5	9.7	9.9	10.2	9.8	10.0	10.3	10.6	10.1	10.3	10.6	11.0
	Amps	35.6	36.2	37.1	38.2	37.8	38.5	39.5	40.6	40.3	41.1	42.2	43.5	42.5	43.3	44.5	45.9	44.7	45.6	46.9	48.3	46.9	47.8	49.2	50.7
	Hi PR	240	258	272	284	269	289	306	319	306	329	348	362	348	375	396	413	392	422	445	464	433	466	492	513
Lo PR	102	108	118	126	107	114	125	133	112	119	130	138	117	125	136	145	123	131	143	152	127	135	148	157	

IDB = Entering Indoor Dry Bulb Temperature
 Shaded area reflects ACCA (TVA) conditions
 kW = Total system power
 High and low pressures are measured at the liquid and suction service ports.
 Amps: Unit amps (comp. + evaporator + condenser fan motors)

NOTE: DCC and DCG are approximately the same, DCH variance shown below:
 • QT ≈ 1% > DCC
 • QS ≈ 6% > DCC
 • ΔT ≈ 5% > DCC
 • Kw ≈ 1% > DCC

7.5-12.5 Ton Packaged Air Conditioners

Table 41 continued: Expanded Cooling Data, DCC120 10.0 Tons

		Outdoor Ambient Temperature																									
		65°F				75°F				85°F				95°F				105°F				115°F					
		Entering Indoor Wet Bulb Temperature																									
IDB	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71		
80	3938	MBh	118	120	128	137	115	117	125	134	112	115	122	131	109	112	119	128	104	106	114	121	96	98	105	112	
		S/T	0.91	0.86	0.70	0.5	0.95	0.89	0.72	0.5	1.00	0.91	0.74	0.6	1.00	0.94	0.77	0.6	1.00	1.00	0.79	0.6	1.00	1.00	0.80	0.6	
		ΔT	25.1	24.1	20.9	16.7	25.4	24.4	21.2	16.9	26.2	24.4	21.2	16.9	25.6	24.6	21.4	17.1	24.3	24.8	21.1	16.8	22.5	23.0	19.7	15.7	
		kW	8.34	8.49	8.73	9.0	8.90	9.07	9.32	9.6	9.39	9.57	9.85	10.1	9.83	10.02	10.31	10.6	10.20	10.40	10.71	11.0	10.52	10.73	11.05	11.4	
		Amps	36.8	37.5	38.5	39.6	39.2	39.9	40.9	42.2	41.8	42.6	43.8	45.1	44.1	45.0	46.2	47.7	46.5	47.4	48.7	50.3	48.7	49.7	51.1	52.8	
		Hi PR	252	271	286	299	283	304	321	335	322	346	366	381	366	394	416	434	412	444	468	489	455	490	517	540	
	Lo PR	107	114	124	132	113	120	131	140	117	125	136	145	123	131	143	152	129	137	150	160	134	142	155	165		
	3500	MBh	114	117	125	133	112	114	122	130	109	111	119	127	106	109	116	124	101	103	110	118	94	96	102	109	
		S/T	0.87	0.82	0.67	0.50	0.90	0.85	0.69	0.52	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	0.99	0.93	0.76	0.57	1.00	0.94	0.76	0.57	
		ΔT	26.16	25.07	21.80	17.4	26.48	25.38	22.07	17.6	26.51	25.40	22.09	17.6	26.69	25.58	22.24	17.8	26.32	25.22	21.93	17.5	24.56	23.56	20.49	16.4	
		kW	8.3	8.4	8.7	8.9	8.8	9.0	9.3	9.5	9.3	9.5	9.8	10.1	9.8	9.9	10.2	10.5	10.1	10.3	10.6	11.0	10.4	10.6	11.0	11.3	
		Amps	36.6	37.3	38.2	39.3	38.9	39.6	40.6	41.9	41.5	42.3	43.5	44.8	43.8	44.7	45.9	47.3	46.1	47.0	48.3	49.9	48.4	49.3	50.7	52.4	
		Hi PR	250	269	284	296	280	301	318	332	318	343	362	377	363	390	412	430	408	439	464	484	451	485	512	534	
	Lo PR	106	113	123	131	112	119	130	138	116	124	135	144	122	130	142	151	128	136	149	158	132	141	154	164		
	2800	MBh	105	108	115	123	103	105	112	120	101	103	110	117	98	100	107	114	93	95	102	109	86	88	94	101	
		S/T	0.84	0.79	0.64	0.5	0.87	0.82	0.67	0.5	0.89	0.84	0.68	0.5	0.92	0.86	0.70	0.5	0.96	0.90	0.73	0.5	0.97	0.91	0.74	0.6	
		ΔT	29	28	24	19.4	29	28	25	19.6	29	28	25	19.6	30	28	25	19.8	29	28	24	19.5	27	26	23	18.2	
		kW	8.1	8.3	8.5	8.7	8.6	8.8	9.1	9.3	9.1	9.3	9.6	9.8	9.5	9.7	10.0	10.3	9.9	10.1	10.4	10.7	10.2	10.4	10.7	11.0	
		Amps	35.8	36.5	37.4	38.5	38.0	38.8	39.8	40.9	40.6	41.4	42.5	43.8	42.8	43.7	44.9	46.2	45.1	46.0	47.2	48.7	47.2	48.2	49.5	51.1	
		Hi PR	242	261	275	287	272	292	309	322	309	332	351	366	352	379	400	417	396	426	450	469	437	471	497	518	
	Lo PR	103	109	119	127	108	115	126	134	113	120	131	139	118	126	137	146	124	132	144	153	128	136	149	159		
	85	3938	MBh	120	122	128	136	117	119	125	133	114	116	122	130	111	114	119	127	106	108	113	120	98	100	105	112
			S/T	0.96	0.92	0.83	0.7	0.99	0.96	0.86	0.7	1.00	0.98	0.89	0.7	1.00	1.00	0.92	0.7	1.00	1.00	0.95	0.8	1.00	1.00	0.96	0.8
			ΔT	26.8	26.3	24.9	21.6	27.1	26.7	25.2	21.8	26.7	26.7	25.2	21.8	26.0	26.5	25.4	22.0	24.7	25.2	25.1	21.7	22.9	23.3	23.4	20.3
kW			8.40	8.55	8.79	9.0	8.96	9.13	9.39	9.7	9.46	9.64	9.92	10.2	9.90	10.09	10.39	10.7	10.27	10.48	10.79	11.1	10.59	10.81	11.13	11.5	
Amps			37.1	37.8	38.8	39.9	39.4	40.2	41.2	42.5	42.1	43.0	44.1	45.5	44.5	45.4	46.6	48.1	46.8	47.8	49.1	50.6	49.1	50.1	51.5	53.2	
Hi PR			255	274	289	302	286	307	325	339	325	350	369	385	370	398	420	439	416	448	473	493	460	495	523	545	
Lo PR		108	115	125	133	114	121	132	141	118	126	138	147	124	132	145	154	130	139	151	161	135	144	157	167		
3500		MBh	116	118	124	132	114	116	121	129	111	113	118	126	108	110	115	123	103	105	110	117	95	97	102	108	
		S/T	0.91	0.88	0.80	0.65	0.95	0.91	0.82	0.67	0.97	0.94	0.85	0.69	1.00	0.97	0.87	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.91	0.74	
		ΔT	27.90	27.44	25.94	22.5	28.24	27.78	26.26	22.7	28.27	27.81	26.28	22.8	28.40	28.00	26.47	22.9	26.98	27.50	26.10	22.6	24.99	25.47	24.38	21.1	
		kW	8.3	8.5	8.7	9.0	8.9	9.1	9.3	9.6	9.4	9.6	9.8	10.1	9.8	10.0	10.3	10.6	10.2	10.4	10.7	11.0	10.5	10.7	11.0	11.4	
		Amps	36.8	37.5	38.5	39.6	39.2	39.9	40.9	42.2	41.8	42.6	43.8	45.1	44.1	45.0	46.2	47.7	46.5	47.4	48.7	50.3	48.7	49.7	51.1	52.8	
		Hi PR	252	271	286	299	283	304	321	335	322	346	366	381	366	394	416	434	412	444	468	489	455	490	517	540	
Lo PR		107	114	124	132	113	120	131	140	117	125	136	145	123	131	143	152	129	137	150	160	134	142	155	165		
2800		MBh	107	109	115	122	105	107	112	119	102	104	109	116	100	102	107	114	95	97	101	108	88	90	94	100	
		S/T	0.88	0.85	0.77	0.6	0.91	0.88	0.80	0.6	0.94	0.90	0.82	0.7	0.97	0.93	0.84	0.7	1.00	0.97	0.87	0.7	1.00	0.98	0.88	0.7	
		ΔT	31.0	30.5	28.9	25.0	31.4	30.9	29.2	25.3	31.5	30.9	29.2	25.3	31.7	31.2	29.4	25.5	31.1	30.7	29.0	25.1	28.8	28.7	27.1	23.5	
		kW	8.2	8.3	8.5	8.8	8.7	8.9	9.1	9.4	9.2	9.4	9.6	9.9	9.6	9.8	10.1	10.4	10.0	10.2	10.5	10.8	10.3	10.5	10.8	11.1	
		Amps	36.1	36.7	37.7	38.7	38.3	39.0	40.0	41.2	40.9	41.7	42.8	44.1	43.1	44.0	45.2	46.6	45.4	46.3	47.6	49.1	47.6	48.6	49.9	51.5	
		Hi PR	244	263	278	290	274	295	312	325	312	336	355	370	355	382	404	421	400	430	454	474	442	475	502	524	
Lo PR		104	110	120	128	109	116	127	135	114	121	132	141	120	127	139	148	125	133	145	155	130	138	150	160		

IDB = Entering Indoor Dry Bulb Temperature
 Shaded area reflects AHRI conditions
 kW = Total system power
 High and low pressures are measured at the liquid and suction service ports.
 Amps: Unit amps (comp. + evaporator + condenser fan motors)

7.5-12.5 Ton
 Packaged Air Conditioners

Table 42: Expanded Cooling Data, DCC150 12.5 Tons

IDB		Outdoor Ambient Temperature																								
		65°F				75°F				85°F				95°F				105°F				115°F				
		Entering Indoor Wet Bulb Temperature																								
Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71		
70	4725	MBh	139.1	144.1	157.9	—	135.8	140.8	154.2	—	132.6	137.4	150.6	—	129.4	134.1	146.9	—	122.9	127.4	139.5	—	113.8	118.0	129.3	—
		S/T	0.69	0.58	0.40	—	0.72	0.60	0.41	—	0.73	0.61	0.42	—	0.76	0.63	0.44	—	0.79	0.66	0.45	—	0.79	0.66	0.46	—
		ΔT	21	18	13	—	21	18	14	—	21	18	14	—	21	18	14	—	21	18	14	—	19	17	13	—
		kW	10.12	10.34	10.68	—	10.92	11.16	11.53	—	11.63	11.88	12.28	—	12.25	12.52	12.94	—	12.77	13.07	13.51	—	13.23	13.53	13.99	—
		HI PR	251	270	285	—	282	303	320	—	320	345	364	—	365	393	414	—	410	442	466	—	453	488	515	—
		LO PR	103	110	120	—	109	116	127	—	113	120	132	—	119	127	138	—	125	133	145	—	129	137	150	—
	4200	MBh	137.0	142.0	155.6	—	133.8	138.7	152.0	—	130.6	135.4	148.3	—	127.4	132.1	144.7	—	121.1	125.5	137.5	—	112.1	116.2	127.4	—
		S/T	0.66	0.55	0.38	—	0.69	0.57	0.40	—	0.70	0.59	0.41	—	0.73	0.61	0.42	—	0.75	0.63	0.44	—	0.76	0.63	0.44	—
		ΔT	21	18	14	—	22	19	14	—	22	19	14	—	22	19	14	—	21	19	14	—	20	17	13	—
		kW	10.07	10.28	10.62	—	10.86	11.10	11.46	—	11.56	11.82	12.21	—	12.17	12.45	12.87	—	12.70	12.99	13.43	—	13.15	13.45	13.91	—
		HI PR	249	268	283	—	280	301	318	—	318	342	361	—	362	390	412	—	407	439	463	—	450	485	512	—
		LO PR	102	109	119	—	108	115	126	—	112	120	131	—	118	126	137	—	124	132	144	—	128	136	149	—
	3360	MBh	130.1	134.9	147.8	—	127.1	131.8	144.4	—	124.1	128.6	140.9	—	121.1	125.5	137.5	—	115.0	119.2	130.6	—	106.5	110.4	121.0	—
		S/T	0.63	0.53	0.37	—	0.66	0.55	0.38	—	0.67	0.56	0.39	—	0.69	0.58	0.40	—	0.72	0.60	0.42	—	0.73	0.61	0.42	—
		ΔT	22	19	14	—	22	19	14	—	22	19	14	—	22	19	15	—	22	19	14	—	20	18	13	—
		kW	9.90	10.12	10.44	—	10.68	10.91	11.27	—	11.36	11.62	12.00	—	11.97	12.24	12.65	—	12.48	12.77	13.20	—	12.93	13.22	13.67	—
		HI PR	244	263	278	—	274	295	311	—	312	335	354	—	355	382	403	—	399	430	454	—	441	475	501	—
		LO PR	100	107	117	—	106	113	123	—	110	117	128	—	116	123	134	—	121	129	141	—	125	134	146	—
75	4725	MBh	141.4	145.6	157.6	169.1	138.1	142.2	153.9	165.2	134.8	138.8	150.3	161.3	131.5	135.4	146.6	157.3	125.0	128.7	139.3	149.5	115.8	119.2	129.0	138.5
		S/T	0.78	0.70	0.53	0.34	0.81	0.73	0.55	0.35	0.83	0.75	0.56	0.36	0.86	0.77	0.58	0.37	0.89	0.80	0.60	0.39	0.90	0.81	0.61	0.39
		ΔT	24	22	18	12	24	22	18	13	24	22	18	13	24	22	18	13	24	22	18	12	22	21	17	12
		kW	10.21	10.43	10.77	11.12	11.01	11.26	11.63	12.02	11.72	11.99	12.39	12.81	12.35	12.63	13.06	13.50	12.89	13.18	13.63	14.09	13.35	13.65	14.12	14.61
		HI PR	254	273	288	300	284	306	323	337	324	348	368	383	368	397	419	437	415	446	471	491	458	493	520	543
		LO PR	104	111	121	129	110	117	128	136	114	122	133	142	120	128	140	149	126	134	146	156	130	139	151	161
	4200	MBh	139.3	143.4	155.3	166.6	136.1	140.1	151.7	162.8	132.8	136.8	148.0	158.9	129.6	133.4	144.4	155.0	123.1	126.8	137.2	147.3	114.0	117.4	127.1	136.4
		S/T	0.75	0.67	0.51	0.33	0.78	0.70	0.53	0.34	0.80	0.71	0.54	0.35	0.82	0.74	0.56	0.36	0.86	0.77	0.58	0.37	0.86	0.77	0.58	0.38
		ΔT	25	23	19	13	25	23	19	13	25	23	19	13	25	23	19	13	25	23	19	13	23	21	17	12
		kW	10.15	10.37	10.70	11.06	10.95	11.19	11.56	11.95	11.66	11.92	12.31	12.73	12.28	12.56	12.98	13.42	12.81	13.10	13.54	14.01	13.27	13.57	14.03	14.52
		HI PR	252	271	286	298	282	304	321	335	321	346	365	381	366	394	416	434	412	443	468	488	455	489	517	539
		LO PR	103	110	120	128	109	116	127	135	114	121	132	141	119	127	139	148	125	133	145	155	129	138	150	160
	3360	MBh	132.4	136.3	147.5	158.3	129.3	133.1	144.1	154.6	126.2	129.9	140.6	150.9	123.1	126.8	137.2	147.3	117.0	120.4	130.3	139.9	108.3	111.6	120.7	129.6
		S/T	0.72	0.64	0.49	0.31	0.75	0.67	0.50	0.32	0.76	0.68	0.52	0.33	0.79	0.71	0.53	0.34	0.82	0.73	0.55	0.36	0.83	0.74	0.56	0.36
		ΔT	25	23	19	13	25	23	19	13	25	23	19	13	26	24	19	13	25	23	19	13	24	22	18	12
		kW	9.98	10.20	10.53	10.87	10.77	11.01	11.37	11.74	11.46	11.72	12.10	12.51	12.07	12.34	12.76	13.19	12.59	12.88	13.31	13.77	13.04	13.34	13.79	14.26
		HI PR	247	265	280	292	277	298	315	328	315	339	358	373	359	386	407	425	403	434	458	478	446	480	507	528
		LO PR	101	108	118	125	107	114	124	133	111	118	129	138	117	124	136	145	123	130	142	152	127	135	147	157

IDB = Entering Indoor Dry Bulb Temperature
 Shaded area reflects ACCA (TVA) conditions
 kW = Total system power
 High and low pressures are measured at the liquid and suction service ports.
 Amps: Unit amps (comp. + evaporator + condenser fan motors)

NOTE: DCC and DCG are approximately the same,
 DCH variance shown below:
 • QT ≈ 1% > DCC
 • QS ≈ 6% > DCC
 • ΔT ≈ 5% > DCC
 • Kw ≈ 1% > DCC

7.5-12.5 Ton
 Packaged Air Conditioners

Table 42 continued: Expanded Cooling Data, DCC150 12.5 Tons

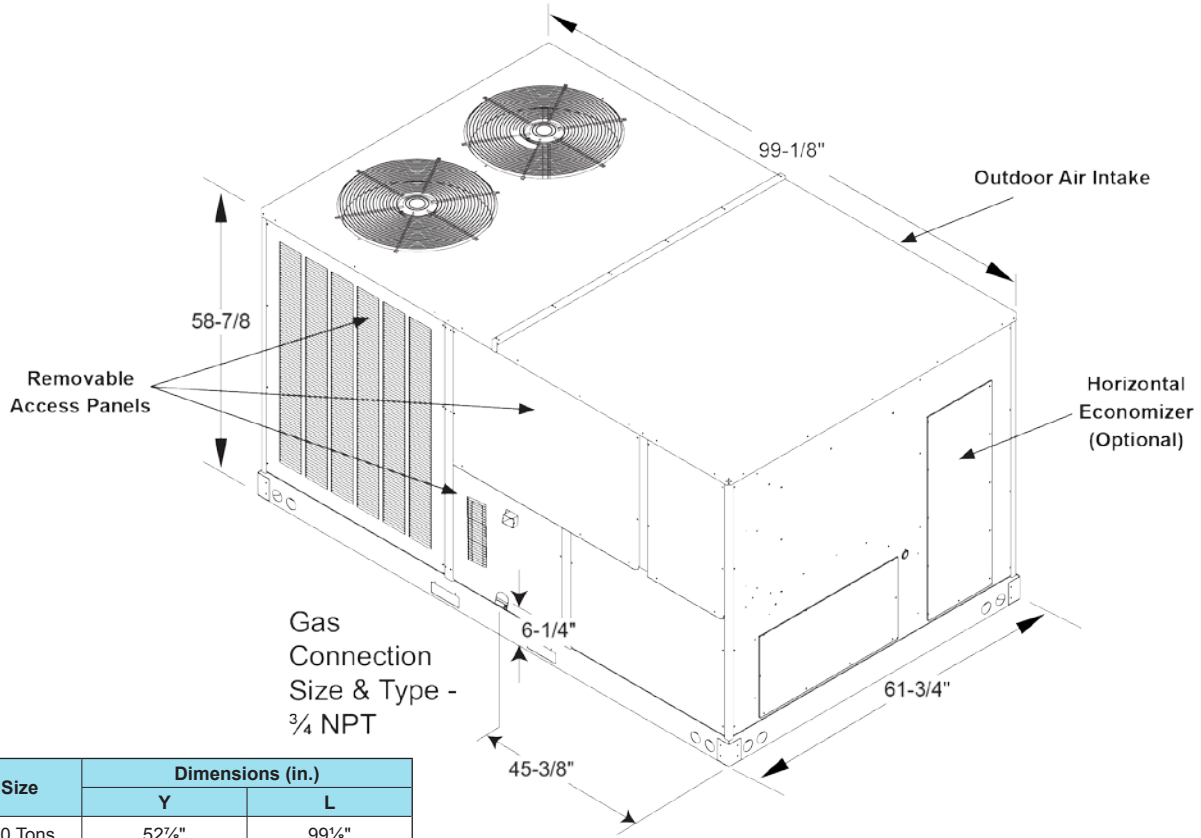
IDB		Outdoor Ambient Temperature																								
		65°F				75°F				85°F				95°F				105°F				115°F				
		Entering Indoor Wet Bulb Temperature																								
Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	
80	4725	MBh	143.9	147.1	157.1	168.0	140.6	143.6	153.5	164.1	137.2	140.2	149.8	160.2	133.9	136.8	146.2	156.2	127.2	130.0	138.9	148.4	117.8	120.4	128.6	137.5
		S/T	0.86	0.81	0.66	0.49	0.89	0.84	0.68	0.51	0.91	0.86	0.70	0.52	0.94	0.89	0.72	0.54	0.98	0.92	0.75	0.56	1.00	0.93	0.75	0.56
		ΔT	26	25	22	18	27	26	22	18	27	26	22	18	27	26	23	18	27	26	22	18	25	24	21	17
		kW	10.29	10.52	10.86	11.21	11.11	11.35	11.72	12.12	11.82	12.09	12.49	12.92	12.46	12.74	13.17	13.62	13.00	13.29	13.74	14.22	13.46	13.77	14.24	14.73
		HI PR	256	276	291	303	287	309	327	341	327	352	371	387	372	401	423	441	419	451	476	496	463	498	526	548
		LO PR	105	112	122	130	111	118	129	138	116	123	134	143	121	129	141	150	127	135	148	157	132	140	153	163
	4200	MBh	141.8	144.9	154.8	165.5	138.5	141.5	151.2	161.6	135.2	138.2	147.6	157.8	131.9	134.8	144.0	153.9	125.3	128.0	136.8	146.2	116.1	118.6	126.7	135.5
		S/T	0.82	0.77	0.63	0.47	0.85	0.80	0.65	0.49	0.88	0.82	0.67	0.50	0.90	0.85	0.69	0.52	0.94	0.88	0.72	0.54	0.95	0.89	0.72	0.54
		ΔT	28	26	23	18	28	27	23	19	28	27	23	19	28	27	23	19	28	27	23	18	26	25	22	17
		kW	10.23	10.46	10.79	11.15	11.04	11.29	11.66	12.05	11.75	12.02	12.42	12.84	12.38	12.66	13.09	13.54	12.92	13.21	13.66	14.13	13.38	13.69	14.15	14.64
		HI PR	254	274	289	301	285	307	324	338	325	349	369	385	370	398	420	438	416	447	473	493	459	494	522	545
		LO PR	105	111	121	129	110	117	128	137	115	122	133	142	121	128	140	149	126	134	147	156	131	139	152	162
	3360	MBh	134.7	137.6	147.1	157.2	131.6	134.4	143.6	153.6	128.4	131.2	140.2	149.9	125.3	128.0	136.8	146.2	119.0	121.6	130.0	138.9	110.3	112.7	120.4	128.7
		S/T	0.79	0.74	0.60	0.45	0.82	0.77	0.62	0.47	0.84	0.79	0.64	0.48	0.87	0.81	0.66	0.49	0.90	0.84	0.69	0.51	0.91	0.85	0.69	0.52
		ΔT	28	27	23	19	28	27	24	19	28	27	24	19	29	27	24	19	28	27	23	19	26	25	22	17
		kW	10.07	10.28	10.62	10.96	10.86	11.10	11.46	11.84	11.56	11.82	12.21	12.62	12.17	12.45	12.87	13.31	12.70	12.99	13.43	13.89	13.15	13.45	13.91	14.39
		HI PR	249	268	283	295	280	301	318	331	318	342	361	377	362	390	412	429	407	439	463	483	450	485	512	534
		LO PR	102	109	119	127	108	115	126	134	112	120	131	139	118	126	137	146	124	132	144	153	128	136	149	158
85	4725	MBh	146.4	149.3	156.3	166.8	143.0	145.8	152.7	162.9	139.6	142.3	149.1	159.0	136.2	138.9	145.4	155.2	129.4	131.9	138.2	147.4	119.9	122.2	128.0	136.5
		S/T	0.90	0.87	0.79	0.64	0.93	0.90	0.81	0.66	0.96	0.93	0.83	0.68	0.99	0.95	0.86	0.70	1.00	0.99	0.89	0.73	1.00	1.00	0.90	0.73
		ΔT	28	28	26	23	29	28	27	23	29	28	27	23	29	28	27	23	28	28	26	23	26	26	25	21
		kW	10.38	10.60	10.95	11.31	11.20	11.45	11.82	12.22	11.92	12.19	12.60	13.03	12.56	12.85	13.28	13.74	13.11	13.41	13.86	14.34	13.58	13.89	14.36	14.86
		HI PR	259	278	294	307	290	312	330	344	330	355	375	391	376	405	427	446	423	455	481	501	467	503	531	554
		LO PR	106	113	123	131	112	119	130	139	117	124	136	144	123	130	142	152	128	137	149	159	133	141	154	164
	4200	MBh	144.3	147.1	154.0	164.3	140.9	143.6	150.4	160.5	137.6	140.2	146.9	156.7	134.2	136.8	143.3	152.9	127.5	130.0	136.1	145.2	118.1	120.4	126.1	134.5
		S/T	0.86	0.83	0.75	0.61	0.90	0.86	0.78	0.63	0.92	0.89	0.80	0.65	0.95	0.91	0.83	0.67	0.98	0.95	0.86	0.69	0.99	0.96	0.86	0.70
		ΔT	29	29	27	24	30	29	28	24	30	29	28	24	30	29	28	24	30	29	27	24	28	27	26	22
		kW	10.32	10.54	10.88	11.24	11.13	11.38	11.75	12.15	11.85	12.12	12.52	12.95	12.49	12.77	13.20	13.65	13.03	13.33	13.78	14.25	13.50	13.81	14.28	14.77
		HI PR	257	276	292	304	288	310	327	342	328	353	372	388	373	402	424	442	420	452	477	498	464	499	527	550
		LO PR	106	112	123	131	112	119	130	138	116	123	135	143	122	130	141	151	128	136	148	158	132	140	153	163
	3360	MBh	137.1	139.7	146.3	156.1	133.9	136.5	142.9	152.5	130.7	133.2	139.5	148.8	127.5	130.0	136.1	145.2	121.1	123.5	129.3	138.0	112.2	114.4	119.8	127.8
		S/T	0.83	0.80	0.72	0.58	0.86	0.83	0.75	0.61	0.88	0.85	0.77	0.62	0.91	0.88	0.79	0.64	0.94	0.91	0.82	0.67	0.95	0.92	0.83	0.67
		ΔT	30	29	28	24	30	30	28	24	30	30	28	24	30	30	28	24	30	29	28	24	28	28	26	23
		kW	10.15	10.37	10.70	11.06	10.95	11.19	11.56	11.94	11.65	11.91	12.31	12.73	12.28	12.55	12.98	13.42	12.81	13.10	13.54	14.01	13.26	13.57	14.03	14.51
		HI PR	252	271	286	298	282	304	321	335	321	346	365	381	366	394	416	434	412	443	468	488	455	489	517	539
		LO PR	103	110	120	128	109	116	127	135	114	121	132	140	119	127	139	148	125	133	145	155	129	138	150	160

IDB = Entering Indoor Dry Bulb Temperature
 Shaded area reflects AHRI conditions
 kW = Total system power
 High and low pressures are measured at the liquid and suction service ports.
 Amps: Unit amps (comp.+ evaporator + condenser fan motors)

NOTE: DCC and DCG are approximately the same, DCH variance shown below:

- QT ≈ 1% > DCC
- QS ≈ 6% > DCC
- ΔT ≈ 5% > DCC
- Kw ≈ 1% > DCC

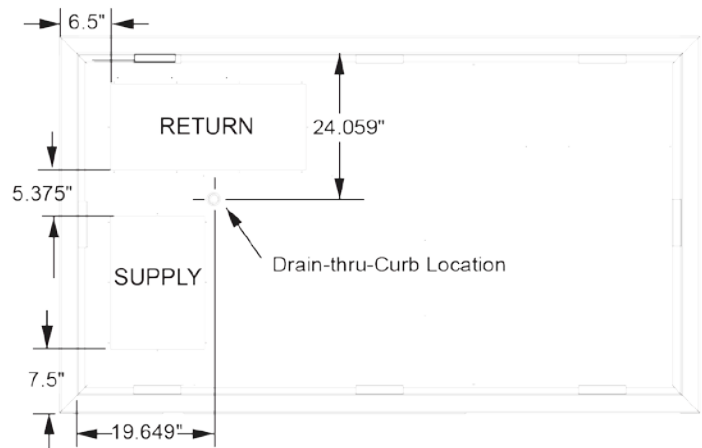
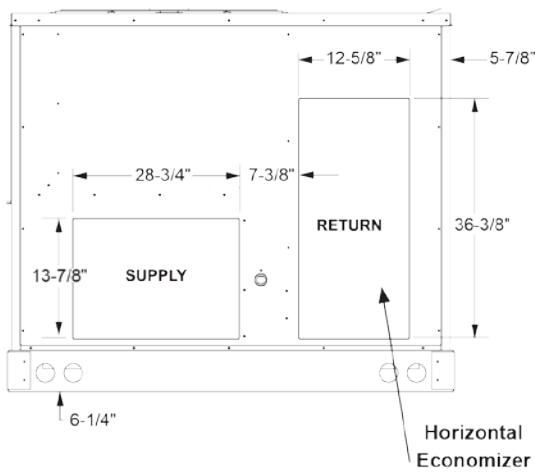
Figure 10: Dimensional Data 7.5–12.5 Ton Units



Unit Size	Dimensions (in.)	
	Y	L
7½ – 10 Tons	52 7/8"	99 1/8"
12½ Tons	58 7/8"	99 1/8"

Horizontal Discharge

Vertical Discharge Bottom View



7.5–12.5 Ton
Packaged Air Conditioners

Unit Clearances

Maintain an adequate clearance around the unit for safety, service, maintenance, and proper unit operation. Leave a total clearance of 75" on the main control panel side of the unit for possible removal of fan shaft, coil, electric heat, and gas furnace. Leave a clearance of 48" on all other sides of the unit for possible compressor removal or service access, and to ensure proper ventilation and condenser airflow. Do not install the unit beneath any obstruction. Install the unit away from all building exhausts to inhibit ingestion of exhaust air into the unit's fresh-air intake.

Figure 11: Unit Clearances

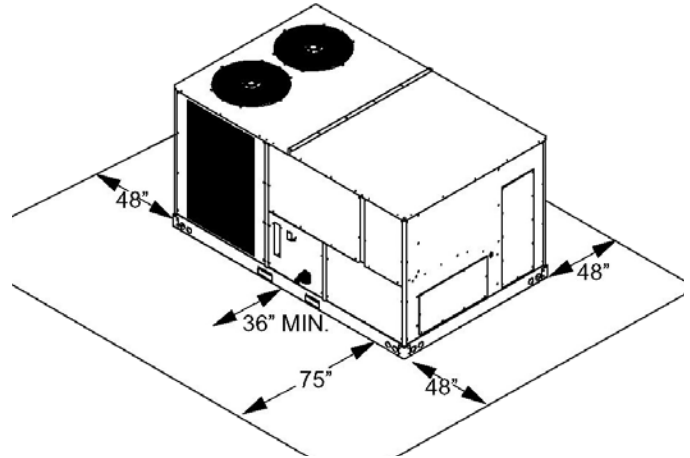
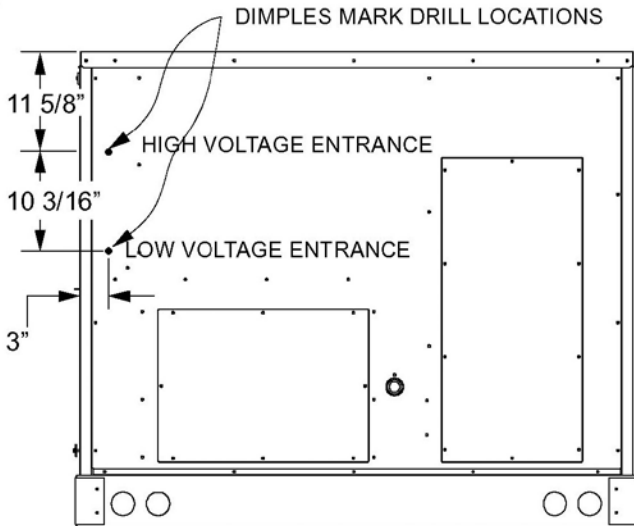
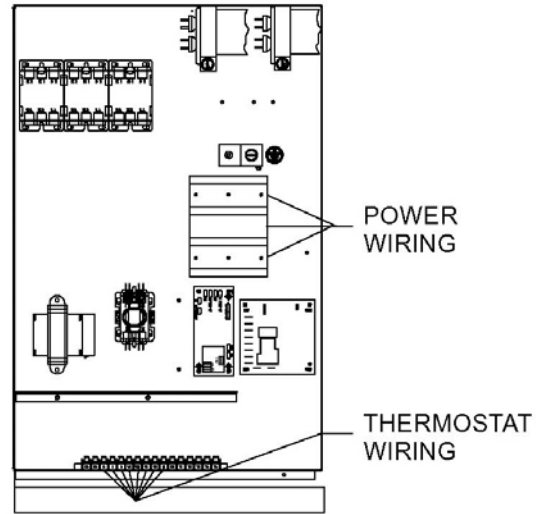


Figure 12: Electrical Entrance Locations



End View



Power and Low-Voltage Block Locations

Unit Rigging

Provisions for forks have been included in the unit base frame. No other fork locations are approved.

- Unit must be lifted by the four lifting holes located at the base frame corners.
- Lifting cables should be attached to the unit with shackles.
- The distance between the crane hook and the top of the unit must not be less than 60".
- Two spreader bars must span over the unit to prevent damage to the cabinet by the lift cables. Spreader bars must be of sufficient length so that cables do not come in contact with the unit during transport. Remove wood struts mounted beneath unit base frame before setting unit on roof curb. These struts are intended to protect unit base frame from fork lift damage. To remove the struts, extract the sheet metal retainers and pull the struts through the base of the unit. Refer to rigging label on the unit.

Important: If using bottom discharge with roof curb, duct-work should be attached to the curb prior to installing the unit. Duct-work dimensions are shown in Roof Curb Installation Instructions Manual.

Refer to the Roof Curb Installation Instructions for proper curb installation. Curbing must be installed in compliance with the National Roofing Contractors Association Manual.

Lower unit carefully onto roof mounting curb. While rigging the unit, the center of gravity will cause the condenser end to be lower than the supply air end.

Bring condenser end of unit into alignment with the curb. With condenser end of the unit resting on curb member and using curb as a fulcrum, lower opposite end of the unit until entire unit is seated on the curb. When a rectangular cantilever curb is used, take care to center the unit. Check for proper alignment and orientation of supply and return openings with duct.

Figure 13: Unit Rigging

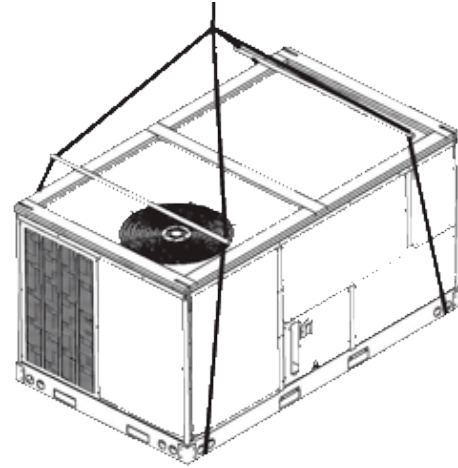


Figure 14: Corner and Center-of-Gravity Locations

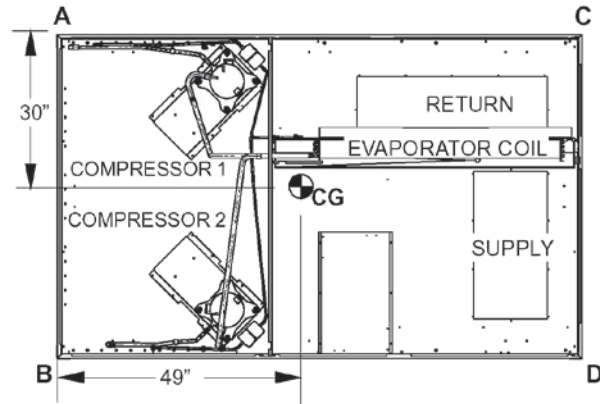


Table 43: 090–150 Weights

Weights Types (lbs.)	7.5 Ton			8.5 Ton			10.0 Ton			12.5 Ton		
	DCC	DCG	DCH	DCC	DCG	DCH	DCC	DCG	DCH	DCC	DCG	DCH
Corner Weight (A)	313	269	285	313	269	345	310	255	345	420	335	435
Corner Weight (B)	248	297	285	248	297	325	263	321	325	335	390	345
Corner Weight (C)	250	254	285	250	254	320	258	250	320	290	295	300
Corner Weight (D)	199	280	285	199	280	300	219	314	300	230	345	240
Unit Shipping Weight	1085	1175	1175	1085	1175	1310	1125	1215	1310	1300	1390	1350
Unit Operating Weight	1010	1100	1135	1010	1100	1285	1050	1140	1285	1275	1365	1325

Note: Weights are calculated without accessories installed.

Roof Curb Installation

Curb installations must comply with local codes and should follow the established guidelines of the National Roofing Contractors Association.

Proper unit installation requires that the roof curb be firmly and permanently attached to the roof structure. Check for adequate fastening method prior to setting the unit on the curb.

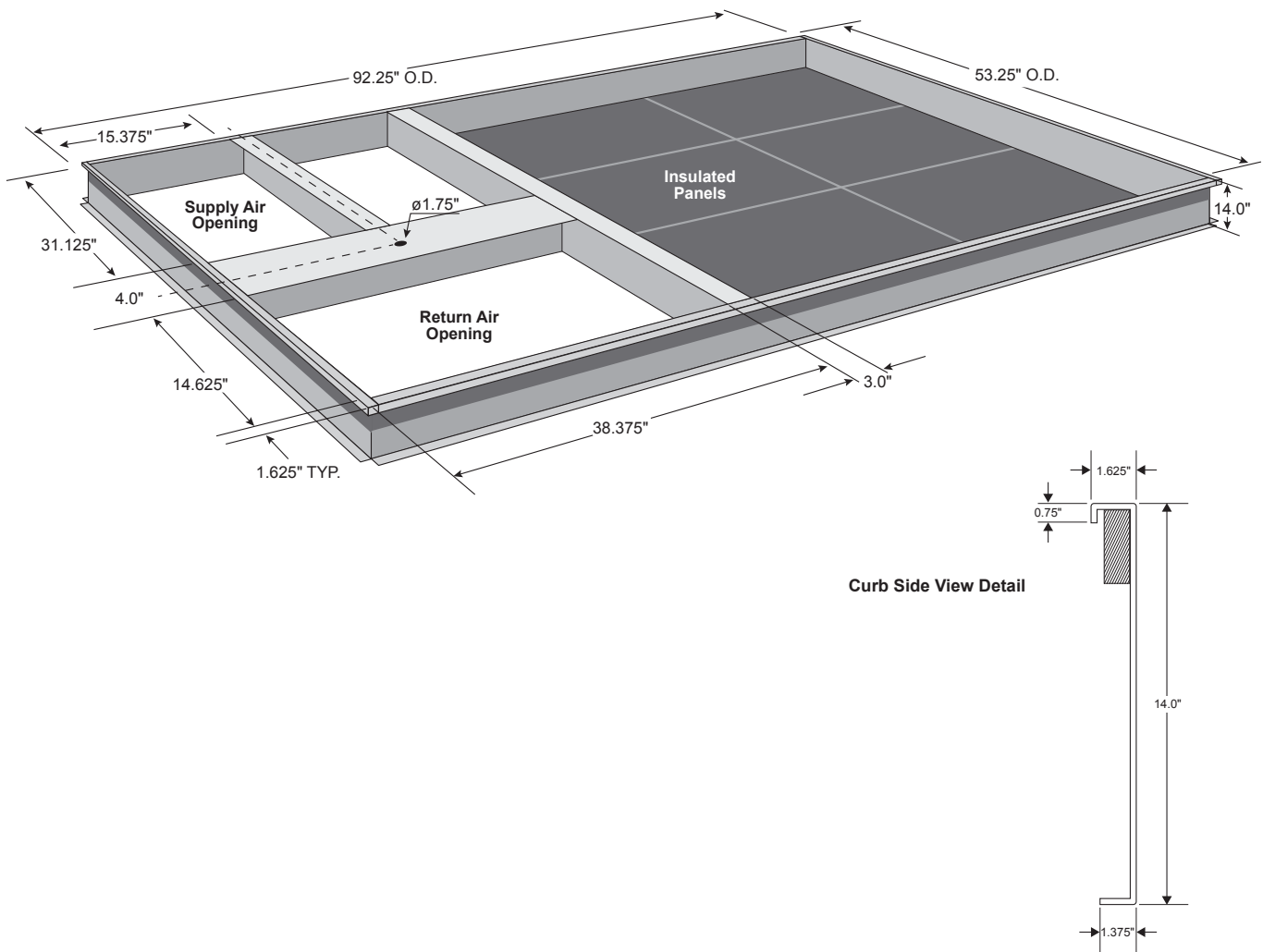
Full perimeter roof curbs are available from the factory and are shipped unassembled. The installing contractor is responsible for field assembly, squaring, leveling, and mounting on the roof structure. All required hardware necessary for the assembly of the sheet metal curb is included in the curb accessory package.

- Determine sufficient structural support before locating and mounting the curb and package unit.
- Duct-work must be constructed using industry guidelines. The duct-work must be placed into the roof curb before mounting the package unit. Our full perimeter curbs include duct connection frames to be assembled with the curb. Cantilevered-type curbs are not available from the factory.
- Contractor furnishes curb insulation, cant strips, flashing, and general roofing material.
- Support curbs on parallel sides with roof members. To prevent damage to the unit, the roof members cannot penetrate supply and return duct openings.

NOTE: The unit and curb accessories are designed to allow vertical duct installation before unit placement. Duct installation after unit placement is not recommended.

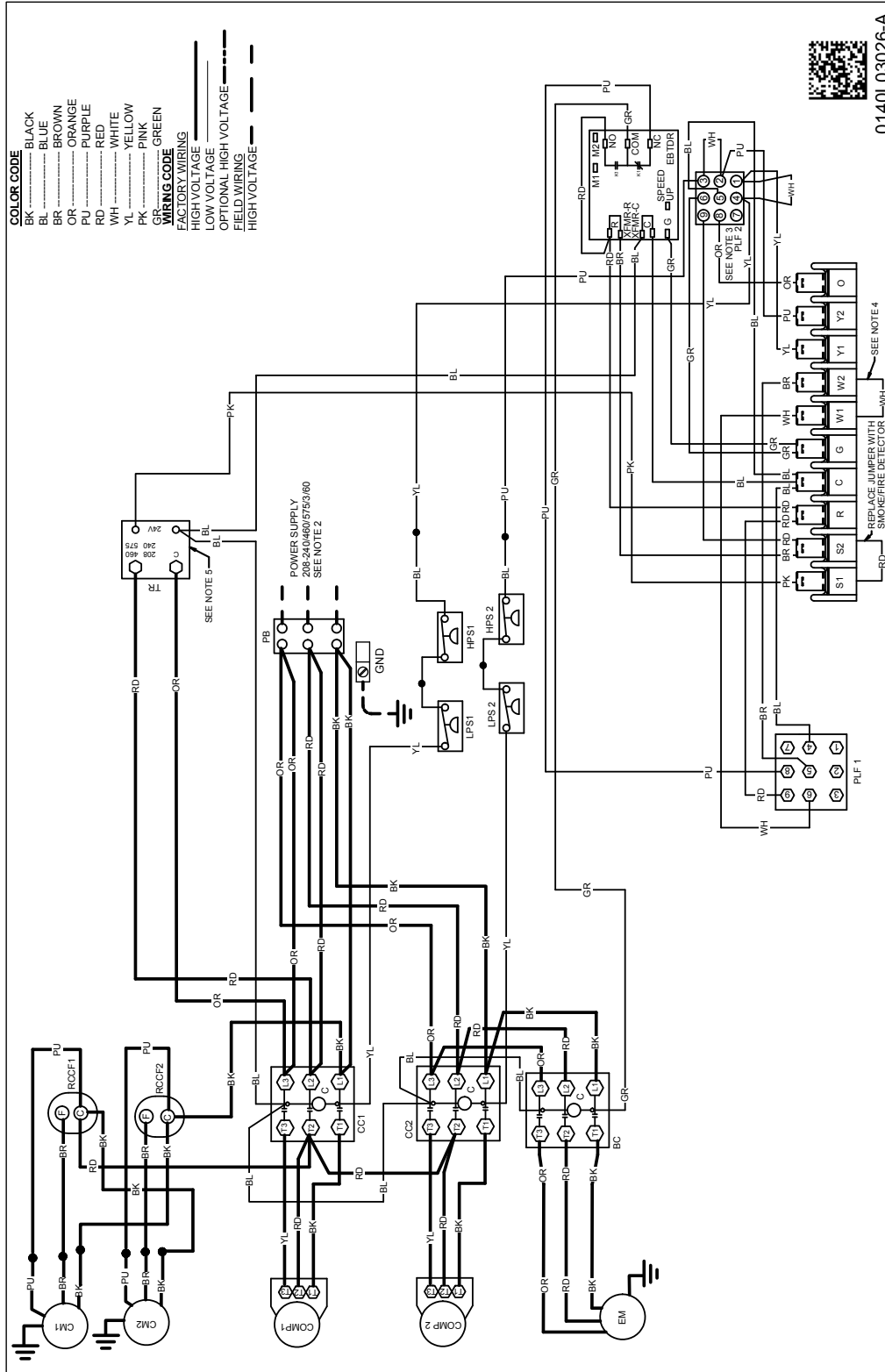
See the manual shipped with the roof curb for assembly and installation instructions.

Figure 15: 090-150 Roof Curb



7.5-12.5 Ton
Packaged Air Conditioners

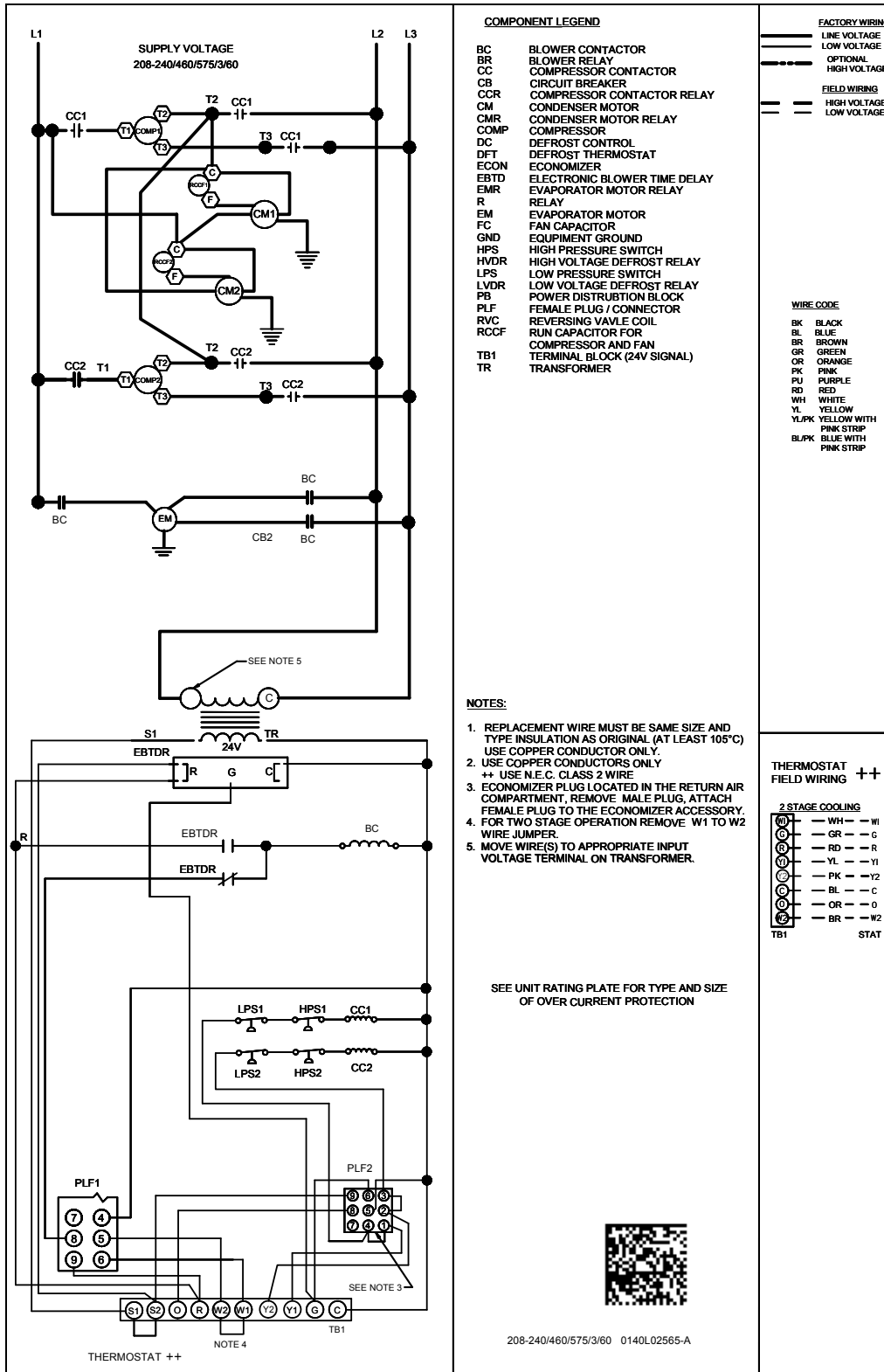
Figure 16: Wiring Diagram — DCC 7½ through 12½ Tons (230V/460V/ 575V, 3-Phase Belt-Drive)



7.5-12.5 Ton
Packaged Air Conditioners

WARNING
Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring. **High Voltage:** Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

Figure 16 continued: Wiring Diagram — DCC 7½ through 12½ Tons (230V/460V/ 575V, 3-Phase Belt-Drive)



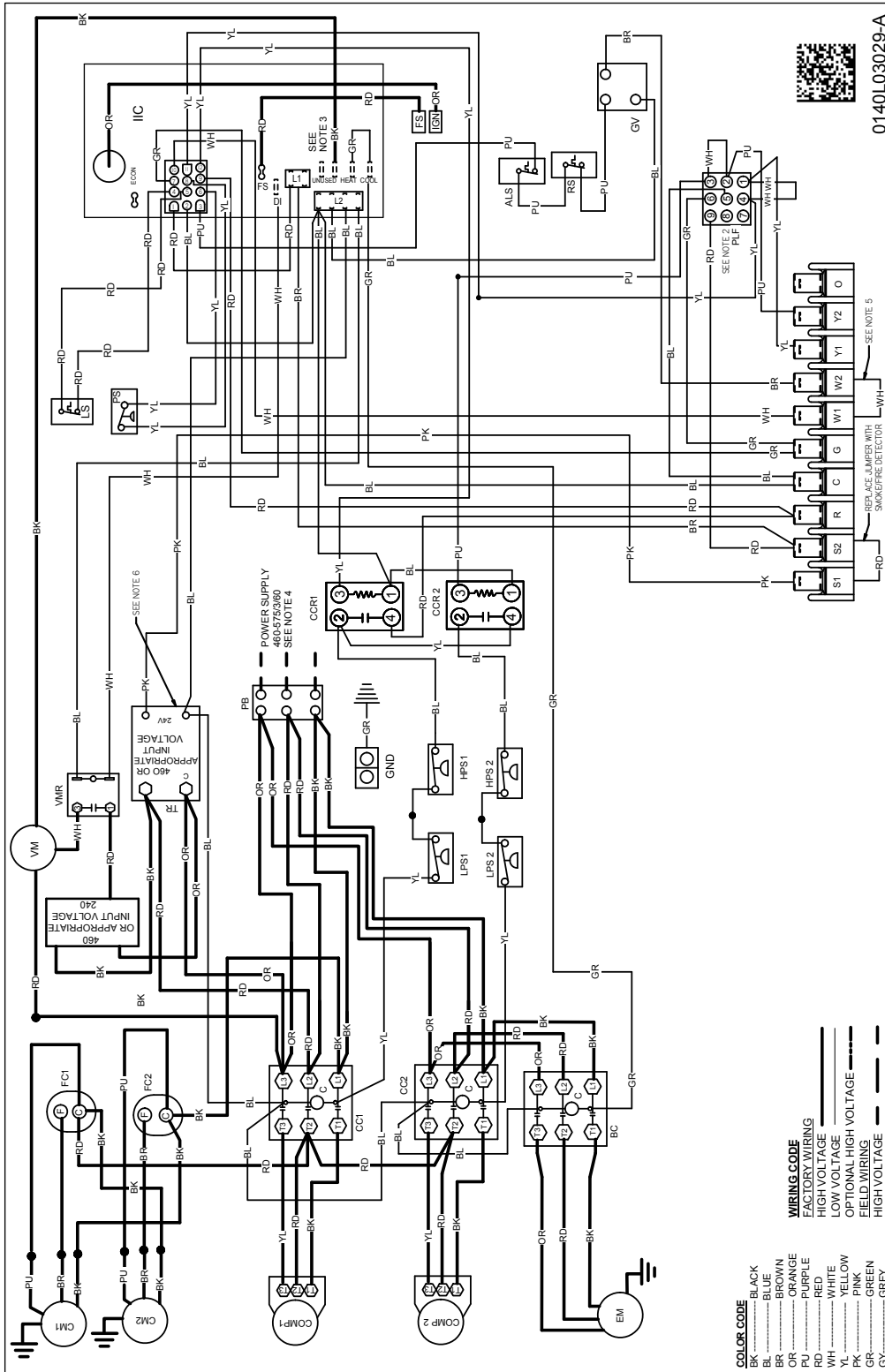
7.5-12.5 Ton
Packaged Air Conditioners

WARNING

Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring. **High Voltage:** Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

Figure 17: Wiring Diagram — DCG 7½ through 12½ Tons (460V/ 575V, 3-Phase Belt-Drive)

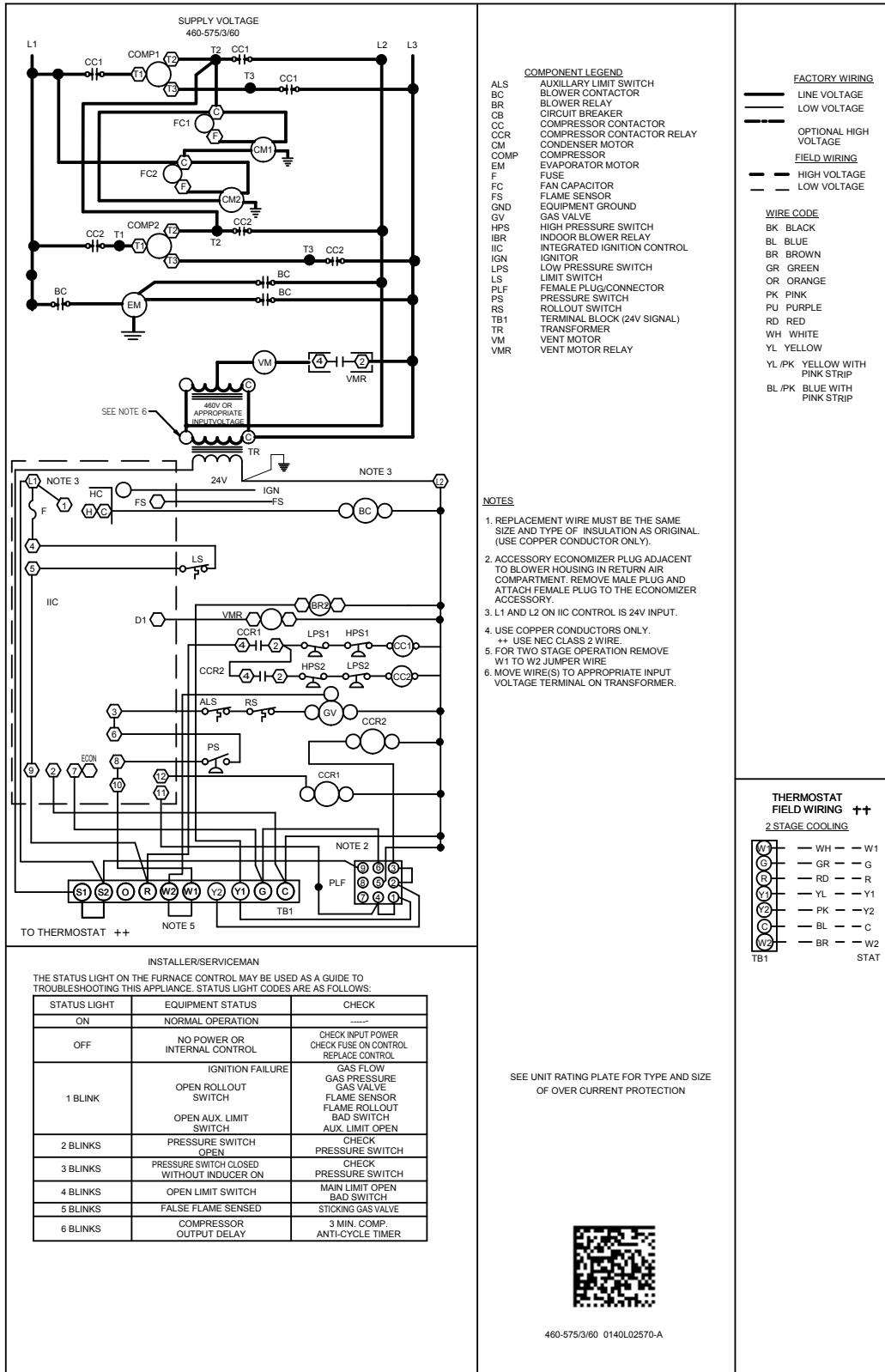
7.5–12.5 Ton
Packaged Air Conditioners



WARNING

Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring. **High Voltage:** Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

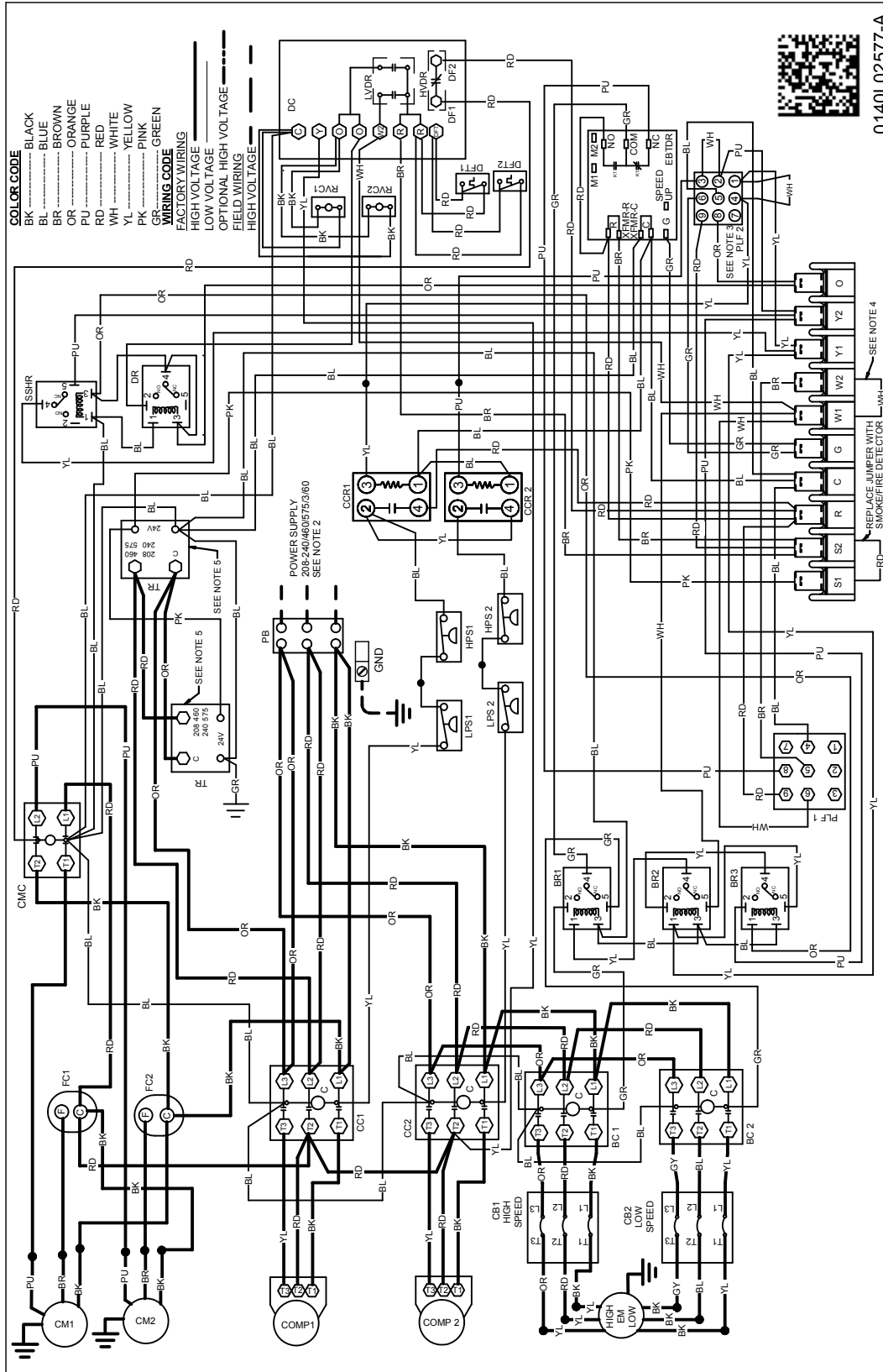
Figure 17 continued: Wiring Diagram — DCG 7½ through 12½ Tons (460V/ 575V, 3-Phase Belt-Drive)



7.5-12.5 Ton Packaged Air Conditioners

WARNING
Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring. **High Voltage:** Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

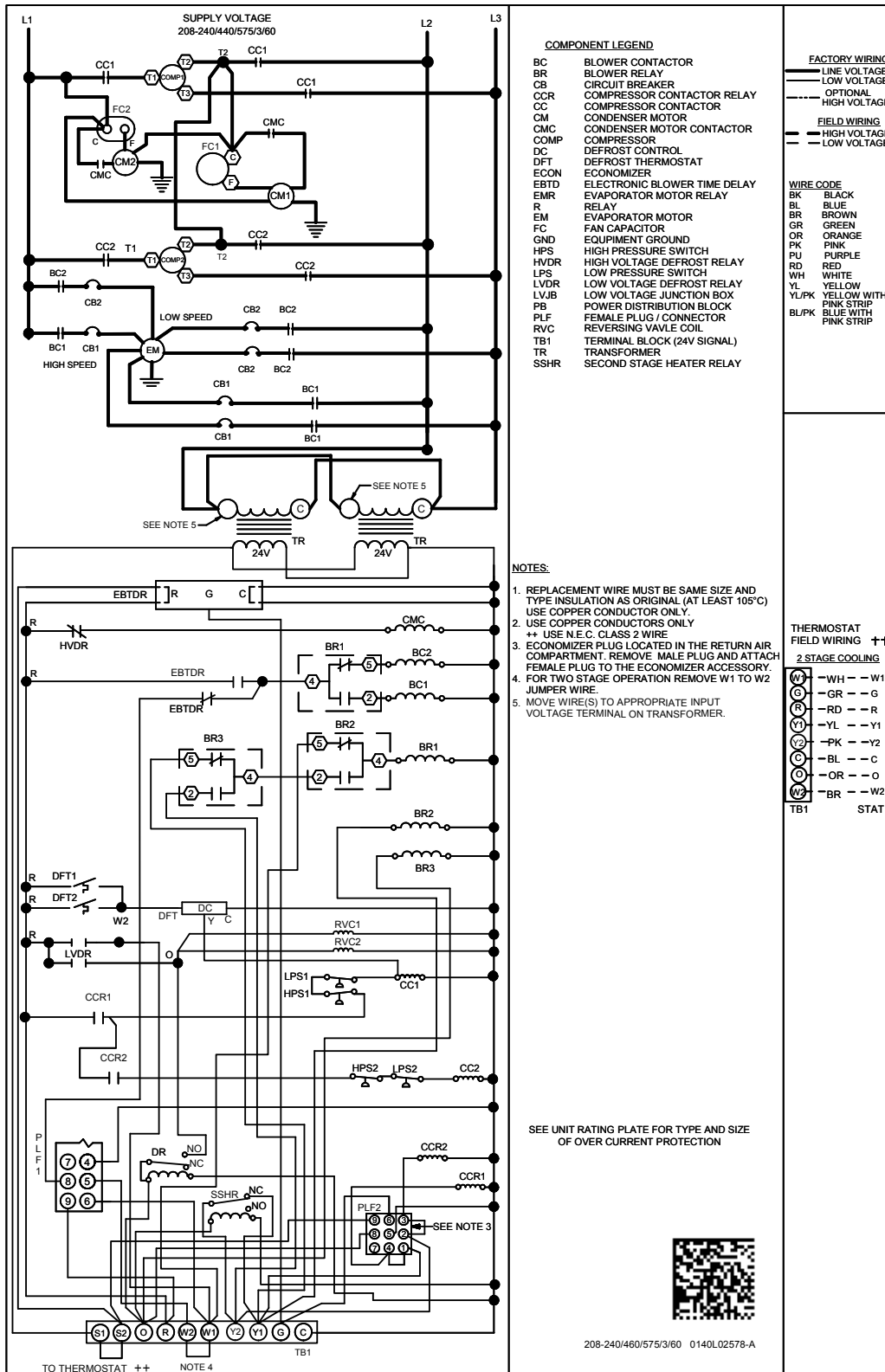
Figure 18: Wiring Diagram — DCH 10 through 12½ Tons (230V/ 460V/ 575V 2-Speed, 3-Phase Belt-Drive)



7.5-12.5 Ton
Packaged Air Conditioners

WARNING
 Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring. **High Voltage:** Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

Figure 18 continued: Wiring Diagram — DCH 10 through 12½ Tons (230V/ 460V/ 575V 2-Speed, 3-Phase Belt-Drive)



7.5-12.5 Ton
Packaged Air Conditioners

WARNING

Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring. **High Voltage:** Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

Table 44: Product Specifications—DCC 180–240

	DCC180	DCC240
Cooling Capacity		
Total BTU/h	180,000	240,000
Sensible BTU/h	134,600	181,000
EER/IEER	11/11.2	10.0/10.1
Decibels	88	
Evaporator Motor/Coil		
Motor Type	Standard Static Belt-Drive	
Number of Speeds	1	
Indoor Nominal CFM	6,000	7,000
Horsepower - RPM	3.0 - 1725	5.0 - 1725
Filter Size (Quantity)	(6) 20" × 25" × 2"	
Drain Size (NPT)	1"	
Evaporator Coil Face Area (ft ²)	20	
Expansion Device	TXV	
Rows Deep/Fins per inch	4/16	
Evaporator Fan		
Standard Belt-Drive (D×W)	15" × 12"	15" × 15"
High-Static Belt-Drive HP	5	7.5
Maximum External Static Pressure (In. W.C.) Standard/High Static Units	1.2/2.0	
Number of Wheels (D×W)	2	
Motor Sheave/Blower Sheave	1VM50 × 7/8"/BK100 × 1 ³ / ₁₆ "	1VP60 × 1 ¹ / ₈ "/BK100 × 1 ⁷ / ₁₆ "
Belt	BX45	BX46
Condenser Fan/Coil		
Condenser Fan Motors (Quantity)	3	
Horsepower - RPM	1/3 - 1075	
Fan Diameter/Number of Blades	22/3	
Outdoor Nominal CFM	9,000	7,200
Face Area (ft ²)	53.3	
Rows Deep/Fins per Inch	2/27	
Compressor		
Quantity/Type	2 / Scroll	
Stage	2	
Unit Weights		
Operating Weight (lbs)	1965	2085
Shipping Weight (lbs)	2080	2202

Note: Always check the S&R plate for electrical data on the unit being installed.

1. Wire size should be determined in accordance with National Electric Codes. Extensive wire runs will require larger wire sizes
2. May use fuses or HACR-type circuit breakers of the same size as noted.

Table 45: Product Specifications—DCG 180–240

	DCG180	DCG240
Cooling Capacity		
Total BTU/h	180,000	240,000
Sensible BTU/h	127,500	170,000
EER/IEER	10.8/11.0	9.8/10.0
Decibels	88	88.3
Heating Capacity		
Furnace Sizes	350	400
Number of Stages		2
Number of Burners	7	8
High Input/Output (kBTU/h)	350/280	400/320
Low Input/Output (kBTU/h)	262.5/210.0	300/240
Steady State Efficiency (%)		80
Temperature Rise High Range (°F)	30-60	25-55
Temperature Rise Low Range (°F)	20-50	15-45
Evaporator Motor/Coil		
Motor Type	Standard Static Belt-Drive	
Horsepower - RPM	5.0 - 1,725	
Indoor Nominal CFM	5,600	7,000
Filter Size (Quantity)	(6) 20" x 25" x 2"	
Drain Size (NPT)	1"	
Evaporator Coil Face Area (ft ²)	20	
Expansion Device	TXV	
Rows Deep/Fins per inch	4/16	
Evaporator Fan		
Standard Belt-Drive (D×W)	15" x 12"	15" x 15"
High-Static Belt-Drive HP	5	7.5
Maximum External Static Pressure (In. W.C.)	1.2/2.0	
Number of Wheels (D×W)	2	
Motor Sheave/Blower Sheave	1VP50 x 1 1/8"/BK90 x 1 3/16"	1VP60 x 1 1/8"/BK100 x 7/16"
Belt	BX42	BX46
Condenser Fan/Coil		
Condenser Fan Motors (Quantity)	3	
Horsepower - RPM	1/3 - 1075	
Fan Diameter/Number of Blades	22/3	
Outdoor Nominal CFM	9,000	
Face Area (ft ²)	53.3	
Rows Deep/Fins per Inch	2/27	
Compressor		
Quantity/Type	2 / Scroll	
Stage	2	
Unit Weights		
Operating Weight (lbs)	2083	2242
Shipping Weight (lbs)	2198	2357

Note: Always check the S&R plate for electrical data on the unit being installed.

1. Wire size should be determined in accordance with National Electric Codes. Extensive wire runs will require larger wire sizes
2. May use fuses or HACR-type circuit breakers of the same size as noted.

Table 46: Electrical Data—Compressor and Motor, DCC 180 and 240

Voltage—Phase—Frequency	208/230-3-60		460-3-60		575-3-60	
DCC180						
Evaporator Motor	Belt-Drive	Belt-Drive, 2-Sp	Belt-Drive	Belt-Drive, 2-Sp	Belt-Drive	Belt-Drive, 2-Sp
Indoor Motor FLA (Cooling)	9.2	9.1	4.6	4.3	4.2	3.5
Compressor Motor						
Compressor RLA / LRA ea.	25.0/164		12.2/100		9.0/78	
Electrical Data						
Outdoor Fan FLA ea.	2.0		0.9		0.9	
Total Unit Amps	65.2	65.1	31.7	31.4	24.9	24.2
Min. Circuit Ampacity ¹	72	71	35	35	27	27
Max. Overcurrent Protection (amps) ²	90		45		35	
Power Supply/Control Voltage Entrance	Use Locating Dimple					
DCC240						
Evaporator Motor	Belt-Drive	Belt-Drive, 2-Sp	Belt-Drive	Belt-Drive, 2-Sp	Belt-Drive	Belt-Drive, 2-Sp
Indoor Motor FLA (Cooling)	12.7	14.0	6.4	6.6	5.1	5.2
Compressor Motor						
Compressor RLA / LRA ea.	33.3/239		17.9/125		12.8/80	
Electrical Data						
Outdoor Fan FLA ea.	2.0		0.9		0.9	
Total Unit Amps	85.3	86.6	44.9	45.1	33.4	33.5
Min. Circuit Ampacity ¹	94	95	49	50	37	37
Max. Overcurrent Protection (amps) ²	125		60		45	
Power Supply/Control Voltage Entrance	Use Locating Dimple					

1. Wire size should be determined in accordance with National Electric Codes. Extensive wire runs will require larger wire sizes

2. May use fuses or HACR-type circuit breakers of the same size as noted.

Note: Always check the S&R plate for electrical data on the unit being installed.

Table 47: Electrical Data—Compressor and Motor, DCG 180 and 240

Voltage—Phase—Frequency	208/230-3-60		460-3-60		575-3-60	
DCG180						
Evaporator Motor	Belt-Drive	Belt-Drive, 2-Sp	Belt-Drive	Belt-Drive, 2-Sp	Belt-Drive	Belt-Drive, 2-Sp
Indoor Motor FLA (Cooling)	12.7	14.0	6.4	6.6	5.1	5.2
Compressor Motor						
Compressor RLA / LRA ea.	25.0/164		12.2/100		9.0/78	
Electrical Data						
Outdoor Fan FLA ea.	2.0		0.9		0.9	
Total Unit Amps	68.7	70.0	33.5	33.7	25.8	25.9
Min. Circuit Ampacity ¹	75.0	76.3	36.8	37.0	28.0	28.0
Max. Overcurrent Protection (amps) ²	90	100	45		35	
Power Supply/Control Voltage Entrance	Use Locating Dimple					
DCG240						
Evaporator Motor	Belt-Drive	Belt-Drive, 2-Sp	Belt-Drive	Belt-Drive, 2-Sp	Belt-Drive	Belt-Drive, 2-Sp
Indoor Motor FLA (Cooling)	12.7	14.0	6.4	6.6	5.1	5.2
Compressor Motor						
Compressor RLA / LRA ea.	33.3/239		17.9/125		12.8/80	
Electrical Data						
Outdoor Fan FLA ea.	2.0		0.9		0.9	
Total Unit Amps	85.3	86.6	44.9	45.1	33.4	33.5
Min. Circuit Ampacity ¹	94	95	49	50	37	37
Max. Overcurrent Protection (amps) ²	125		60		45	
Power Supply/Control Voltage Entrance	Use Locating Dimple					

1. Wire size should be determined in accordance with National Electric Codes. Extensive wire runs will require larger wire sizes

2. May use fuses or HACR-type circuit breakers of the same size as noted.

Note: Always check the S&R plate for electrical data on the unit being installed.

**Table 48: Electrical Data—Heat Kit
(Blower Only, Heat Mode), DCC 180**

Model & Heat Kit Usage	MCA ^{1,4}	MOP ^{2,4}	Actual kW	Recommended Airflow Range (CFM)
3-Phase Units @ 208/240V⁴ (Actual kW @ 240)				
EHK3-31	98	100	28.8	5250–6750
EHK3-46	141	150	43.2	
EHK3-60	185	200	57.6	
480 Volt Units @ 480V (Actual kW @ 480)				
EHK4-31	49	50	28.8	5250–6750
EHK4-46	71	80	43.2	
EHK4-60	92	100	57.6	
575 Volt Units @ 575V (Actual kW @ 575)				
EHK7-31	41	45	28.8	5250–6750
EHK7-46	59	60	43.2	
EHK7-60	78	80	57.6	

1. Minimum circuit ampacity (standard drive)
 2. Maximum overcurrent protection device (standard drive)
 3. See page 75 for optional high static ESP amps
 4. 240V values are shown
- Note: When using electric heat kit, the single-point kit installed in the unit is needed to meet UL requirements.

**Table 49: Electrical Data—Heat Kit
(Blower Only, Heat Mode), DCC 240**

Model & Heat Kit Usage	MCA ^{1,4}	MOP ^{2,4}	Actual kW	Recommended Airflow Range (CFM)
3-Phase Units @ 208/240V⁴ (Actual kW @ 240)				
EHK3-31	103	125	28.8	7200–8500
EHK3-46	146	150	43.2	
EHK3-60	189	200	57.6	
EHK3-75	232	250	72.0	
480 Volt Units @ 480V (Actual kW @ 480)				
EHK4-31	51	60	28.8	7200–8500
EHK4-46	73	80	43.2	
EHK4-60	95	100	57.6	
EHK4-75	116	125	72.0	
575 Volt Units @ 575V (Actual kW @ 575)				
EHK7-31	43	45	28.8	7200–8500
EHK7-46	61	70	43.2	
EHK7-60	79	80	57.6	
EHK7-75	97	100	72.0	

1. Minimum circuit ampacity (standard drive)
 2. Maximum overcurrent protection device (standard drive)
 3. See page 75 for optional high static ESP amps
 4. 208V values are shown
- Note: When using electric heat kit, the single-point kit installed in the unit is needed to meet UL requirements.

Table 50: Standard vs. High Static Motor Detail, 15–20 Ton

Size (Tons)	Voltage	Standard IFM				High Static IFM				Increase in MCA and MROCD			
		P/N	HP	FLA	LRA	P/N	HP	FLA	LRA	208V	230V	460V	575V
DCC 15	230/460	B3240004	3	9.2/4.6	66	0131M00274	5	13.8–12.6/6.3	90	4.6	3.4	1.7	0.9
	575	0131L00006	3	4.2	34	0131L00007	5	5.1	35				
DCG 15	230/460	0131M00274	5	13.8–12.6/6.3	90	Same Motor				0.0	0.0	0.0	0.0
	575	0131L00007	5	5.1	35								
20	208-230/460	0131M00274	5	13.8–12.6/6.3	90	0131L00012	7.5	20.5–18.5/9.2	112/56	6.7	5.9	3.0	2.5
	575	0131L00007	5	5.1	35	0131L00013	7.5	7.6	47				

kW Correction Factors	208 thru 240V Units					430 thru 480V Units				575V Units			
	240	230	220	210	208	480	460	440	430	575	560	550	540
Correction Factor	1	0.93	0.82	0.78	0.76	1.00	0.92	0.84	0.80	1.00	0.95	0.91	0.88

Table 51: Airflow Data—Belt-Drive, DCC180 15 Tons

Standard Belt-Drive & Two-Speed Standard Belt-Drive at High Speed — Down Shot														
ESP (Inches W.C.)	Turns Open													
	0		1		2		3		4		5		6	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2	—	—	—	—	—	—	—	—	—	—	7203	2.18	6718	1.84
0.4	—	—	—	—	—	—	7306	2.54	6777	2.14	6257	1.80	5711	1.48
0.6	—	—	7477	2.97	6899	2.51	6323	2.10	5716	1.72	5103	1.39	—	—
0.8	7112	2.96	6467	2.46	5795	2.01	5101	1.61	—	—	—	—	—	—
1.0	5983	2.38	5190	1.89	—	—	—	—	—	—	—	—	—	—
1.2	4426	1.71	—	—	—	—	—	—	—	—	—	—	—	—

High-Static Belt Drive — Down Shot														
ESP (Inches W.C.)	Turns Open													
	0		1		2		3		4		5		6	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
1.0	—	—	—	—	—	—	—	—	—	—	7120	3.26	6223	2.55
1.2	—	—	—	—	—	—	—	—	6927	3.39	5924	2.61	—	—
1.4	—	—	—	—	—	—	6739	3.52	5602	2.65	—	—	—	—
1.6	—	—	—	—	6587	3.69	5245	2.67	—	—	—	—	—	—
1.8	—	—	6419	3.84	4877	2.70	—	—	—	—	—	—	—	—
2.0	6261	4.01	—	—	—	—	—	—	—	—	—	—	—	—

Notes:

- Airflow table represent dry coil with filters installed; SCFM correction factor for wet coil is 4%.
- Any adjustment made to the blower should not cause the motor to draw more than the motor rated RLA. Application that exceed the above could require a larger motor. Minimum rated SCFM is 350 per ton.
- High-static airflow requires installation of high kit (HSKT240) or factory-built high-static model.
- Unit factory shipped with the sheave set at 2.5 turns open.

Table 52: Airflow Data—Belt-Drive, DCG180 15 Tons

Standard Belt-Drive & Two-Speed Standard Belt-Drive at High Speed — Down Shot														
ESP (Inches W.C.)	Turns Open													
	0		1		2		3		4		5		6	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2	—	—	—	—	—	—	0	6,827	2.6675	6,394	2.2792	5,982	1.9434	
0.4	—	—	—	—	7,079	3.2019	6,623	2.7551	6,161	2.3441	5,706	1.9787	5,271	1.6650
0.6	—	—	6,903	3.3168	6,405	2.8302	5,923	2.4063	5,434	2.0191	4,949	1.6776	—	—
0.8	6,717	3.4193	6,198	2.9169	5,668	2.4546	5,152	2.0544	—	—	—	—	—	—
1.0	5,975	2.9894	5,418	2.5110	—	—	—	—	—	—	—	—	—	—
1.2	5,147	2.5507	—	—	—	—	—	—	—	—	—	—	—	—

High-Static Belt Drive — Down Shot														
ESP (Inches W.C.)	Turns Open													
	0		1		2		3		4		5		6	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
1.0	—	—	—	—	—	—	—	—	6,690	3.6895	6,008	3.0189	5,321	2.4323
1.2	—	—	—	—	—	—	6,653	3.9517	5,922	3.2198	5,182	2.5787	—	—
1.4	—	—	—	—	6,634	2.8014	5,857	3.4408	5,056	2.7377	—	—	—	—
1.6	—	—	6,638	4.5544	5,808	2.4260	4,948	2.9127	—	—	—	—	—	—
1.8	6,683	4.9263	5,784	3.9520	4,855	2.0548	—	—	—	—	—	—	—	—
2.0	5,803	4.2723	4,788	3.3189	—	—	—	—	—	—	—	—	—	—

Notes:

- Airflow table represent dry coil with filters installed; SCFM correction factor for wet coil is 4%.
- Any adjustment made to the blower should not cause the motor to draw more than the motor rated RLA. Application that exceed the above could require a larger motor. Minimum rated SCFM is 350 per ton.
- High-static airflow requires installation of high kit (HSKT240) or factory-built high-static model.
- Unit factory shipped with the sheave set at 2.5 turns open.

Table 53: Airflow Data—Belt-Drive, DCC240 20 Tons

Standard Belt-Drive — Down Shot															
ESP (Inches W.C.)	Turns Open														
	0		1		2		3		4		5		6		
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	
0.2	—	—	—	—	—	—	—	—	—	—	—	—	—	9664	4.05
0.4	—	—	—	—	—	—	—	—	9570	4.08	9197	3.82	8702	3.51	
0.6	—	—	—	—	—	—	9038	3.82	8460	3.46	7949	3.14	—	—	
0.8	—	—	8171	2.93	7630	3.70	7068	2.79	—	—	—	—	—	—	
1.0	—	—	7901	2.85	7203	3.42	—	—	—	—	—	—	—	—	
1.2	7344	4.35	—	—	—	—	—	—	—	—	—	—	—	—	

High-Static Belt Drive — Down Shot														
ESP (Inches W.C.)	Turns Open													
	0		1		2		3		4		5		6	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
1.0	—	—	—	—	—	—	—	—	9090	5.79	8297	5.06	7479	3.62
1.2	—	—	—	—	—	—	8774	5.60	7914	4.83	6989	4.07	—	—
1.4	—	—	—	—	8471	5.43	7549	4.63	—	—	—	—	—	—
1.6	—	—	8209	6.14	7194	4.45	—	—	—	—	—	—	—	—
1.8	7967	6.02	6883	5.01	—	—	—	—	—	—	—	—	—	—
2.0	6594	4.87	—	—	—	—	—	—	—	—	—	—	—	—

Notes:

- Airflow table represent dry coil with filters installed; SCFM correction factor for wet coil is 4%.
- Any adjustment made to the blower should not cause the motor to draw more than the motor rated RLA. Application that exceed the above could require a larger motor. Minimum rated SCFM is 350 per ton.
- High-static airflow requires installation of high kit (HSKT240) or factory-built high-static model.
- Unit factory shipped with the sheave set at 2.5 turns open.

Table 54: Airflow Data—Belt-Drive, DCG240 20 Tons

Standard Belt-Drive — Down Shot														
ESP (Inches W.C.)	Turns Open													
	0		1		2		3		4		5		6	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2	—	—	—	—	9,359	4.9235	8,991	3.7928	8,621	3.5442	8,188	3.2694	7,826	3.0421
0.4	—	—	9,018	3.1834	8,632	4.3858	8,251	3.3897	7,867	3.1452	7,363	2.8481	6,992	2.6282
0.6	—	—	8,279	2.9618	7,879	3.8623	7,484	2.9949	7,085	2.7548	—	—	—	—
0.8	7,957	4.8180	7,513	2.7320	7,097	3.3548	—	—	—	—	—	—	—	—
1.0	7,179	4.2309	6,716	2.4930	—	—	—	—	—	—	—	—	—	—
1.2	6,368	3.6582	—	—	—	—	—	—	—	—	—	—	—	—

High-Static Belt Drive — Down Shot														
ESP (Inches W.C.)	Turns Open													
	0		1		2		3		4		5		6	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
1.0	—	—	—	—	—	—	9,001	6.8290	8,394	6.0087	7,797	4.7808	7,227	4.2762
1.2	—	—	—	—	8,891	6.8284	8,262	6.1503	7,632	5.3530	7,012	4.1965	—	—
1.4	—	—	8,811	6.8641	8,148	6.1510	7,495	5.4811	6,841	4.7084	—	—	—	—
1.6	—	—	8,065	6.1877	7,377	5.4834	—	—	—	—	—	—	—	—
1.8	7,998	6.8862	7,290	5.5213	—	—	—	—	—	—	—	—	—	—
2.0	7,221	6.1024	—	—	—	—	—	—	—	—	—	—	—	—

Notes:

- Airflow table represent dry coil with filters installed; SCFM correction factor for wet coil is 4%.
- Any adjustment made to the blower should not cause the motor to draw more than the motor rated RLA. Application that exceed the above could require a larger motor. Minimum rated SCFM is 350 per ton.
- High-static airflow requires installation of high kit (HSKT240) or factory-built high-static model.
- Unit factory shipped with the sheave set at 2.5 turns open.

15-20 Ton Packaged Air Conditioners

Table 55: Expanded Cooling Data, DCC180 15 Tons

IDB*	Airflow	Outdoor Ambient Temperature																								
		65				75				85				95				105				115				
		Entering Indoor Wet Bulb Temperature																								
		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	
6075	MBh	176.4	182.8	200.3	—	172.3	178.6	195.6	—	168.2	174.3	191.0	—	164.1	170.1	186.3	—	155.9	161.6	177.0	—	144.4	149.7	164.0	—	
	S/T	0.71	0.59	0.41	—	0.74	0.62	0.43	—	0.76	0.63	0.44	—	0.78	0.65	0.45	—	0.81	0.68	0.47	—	0.82	0.68	0.47	—	
	Delta T	19	16	12	—	19	17	13	—	19	17	13	—	19	17	13	—	19	17	13	—	18	15	12	—	
	KW	13.25	13.53	13.94	—	14.24	14.54	14.99	—	15.11	15.43	15.92	—	15.88	16.22	16.74	—	16.53	16.89	17.44	—	17.09	17.47	18.04	—	
	AMPS	41.5	42.4	43.5	—	44.3	45.2	46.5	—	47.6	48.5	49.9	—	50.4	51.4	52.9	—	53.1	54.3	55.9	—	55.9	57.1	58.8	—	
	HI PR	234	252	266	—	262	282	298	—	298	321	339	—	340	366	386	—	382	411	434	—	422	454	480	—	
	LO PR	102	109	119	—	108	115	126	—	112	120	131	—	118	126	137	—	124	132	144	—	128	136	149	—	
70	5400	MBh	171.2	177.5	194.5	—	167.3	173.4	189.9	—	163.3	169.2	185.4	—	159.3	165.1	180.9	—	151.3	156.9	171.9	—	140.2	145.3	159.2	—
	S/T	0.68	0.57	0.39	—	0.70	0.59	0.41	—	0.72	0.60	0.42	—	0.74	0.62	0.43	—	0.77	0.65	0.45	—	0.78	0.65	0.45	—	
	Delta T	20	17	13	—	20	17	13	—	20	17	13	—	20	17	13	—	20	17	13	—	19	16	12	—	
	KW	13.15	13.42	13.83	—	14.13	14.42	14.87	—	14.99	15.31	15.79	—	15.75	16.09	16.60	—	16.40	16.75	17.29	—	16.96	17.33	17.89	—	
	AMPS	41.2	42.0	43.2	—	44.0	44.9	46.1	—	47.2	48.2	49.5	—	50.0	51.0	52.5	—	52.7	53.9	55.4	—	55.5	56.6	58.3	—	
	HI PR	231	249	263	—	260	279	295	—	295	318	336	—	336	362	382	—	378	407	430	—	418	450	475	—	
	LO PR	101	108	118	—	107	114	124	—	111	118	129	—	117	124	136	—	122	130	142	—	127	135	147	—	
4320	MBh	158.1	163.8	179.5	—	154.4	160.0	175.3	—	150.7	156.2	171.1	—	147.0	152.4	167.0	—	139.7	144.8	158.6	—	129.4	134.1	146.9	—	
	S/T	0.65	0.55	0.38	—	0.68	0.57	0.39	—	0.70	0.58	0.40	—	0.72	0.60	0.42	—	0.74	0.62	0.43	—	0.75	0.63	0.43	—	
	Delta T	22	19	14	—	22	19	15	—	22	19	15	—	22	19	15	—	22	19	15	—	21	18	14	—	
	KW	12.85	13.11	13.51	—	13.80	14.08	14.52	—	14.63	14.94	15.41	—	15.37	15.70	16.20	—	16.00	16.34	16.87	—	16.54	16.90	17.44	—	
	AMPS	40.3	41.1	42.2	—	43.0	43.9	45.1	—	46.1	47.0	48.4	—	48.8	49.8	51.2	—	51.5	52.5	54.1	—	54.1	55.3	56.9	—	
	HI PR	224	242	255	—	252	271	286	—	286	308	326	—	326	351	371	—	367	395	417	—	406	436	461	—	
	LO PR	98	105	114	—	104	110	121	—	108	115	125	—	113	121	132	—	119	126	138	—	123	131	143	—	
75	6750	MBh	179.4	184.7	199.9	214.5	175.2	180.4	195.3	209.6	171.0	176.1	190.6	204.6	166.9	171.8	186.0	199.6	158.5	163.2	176.7	189.6	146.8	151.2	163.6	175.6
		S/T	0.81	0.72	0.55	0.35	0.84	0.75	0.57	0.37	0.86	0.77	0.58	0.37	0.89	0.79	0.60	0.39	0.92	0.82	0.62	0.40	0.93	0.83	0.63	0.40
		Delta T	22	20	17	11	22	20	17	12	22	20	17	12	22	21	17	12	22	20	17	12	21	19	16	11
		KW	13.36	13.63	14.05	14.49	14.35	14.66	15.11	15.59	15.23	15.56	16.05	16.57	16.01	16.35	16.88	17.43	16.67	17.03	17.58	18.16	17.24	17.62	18.19	18.79
		AMPS	41.9	42.7	43.9	45.2	44.7	45.6	46.9	48.4	47.9	48.9	50.3	52.0	50.8	51.8	53.3	55.1	53.6	54.7	56.3	58.2	56.4	57.6	59.3	61.3
		HI PR	236	254	268	280	265	285	301	314	301	324	342	357	343	369	390	407	386	415	439	458	427	459	485	506
		LO PR	103	110	120	128	109	116	127	135	114	121	132	140	119	127	138	147	125	133	145	155	129	138	150	160
	6000	MBh	174.2	179.3	194.1	208.3	170.1	175.1	189.6	203.5	166.1	171.0	185.1	198.6	162.0	166.8	180.5	193.8	153.9	158.5	171.5	184.1	142.6	146.8	158.9	170.5
		S/T	0.77	0.69	0.52	0.34	0.80	0.71	0.54	0.35	0.82	0.73	0.55	0.36	0.85	0.76	0.57	0.37	0.88	0.79	0.59	0.38	0.89	0.79	0.60	0.39
		Delta T	23	21	17	12	23	21	17	12	23	21	17	12	23	21	18	12	23	21	17	12	21	20	16	11
		KW	13.26	13.53	13.94	14.38	14.24	14.54	14.99	15.47	15.11	15.43	15.92	16.44	15.88	16.22	16.74	17.29	16.53	16.89	17.44	18.01	17.10	17.47	18.04	18.64
		AMPS	41.5	42.4	43.5	44.9	44.3	45.2	46.5	48.0	47.6	48.6	49.9	51.6	50.4	51.4	52.9	54.7	53.2	54.3	55.9	57.7	55.9	57.1	58.8	60.8
		HI PR	234	252	266	277	262	282	298	311	298	321	339	354	340	366	386	403	382	411	434	453	422	454	480	501
		LO PR	102	109	119	127	108	115	126	134	112	120	131	139	118	126	137	146	124	132	144	153	128	136	149	158
	4800	MBh	160.7	165.5	179.1	192.3	157.0	161.6	175.0	187.8	153.3	157.8	170.8	183.3	149.5	154.0	166.6	178.8	142.0	146.3	158.3	169.9	131.6	135.5	146.6	157.4
		S/T	0.74	0.67	0.50	0.32	0.77	0.69	0.52	0.34	0.79	0.71	0.53	0.34	0.82	0.73	0.55	0.36	0.85	0.76	0.57	0.37	0.85	0.76	0.58	0.37
		Delta T	25	23	19	13	26	24	19	13	26	24	19	13	26	24	20	14	26	24	19	13	24	22	18	12
		KW	12.95	13.22	13.62	14.04	13.91	14.20	14.64	15.10	14.75	15.06	15.54	16.04	15.50	15.83	16.33	16.86	16.13	16.48	17.01	17.57	16.68	17.04	17.59	18.17
		AMPS	40.6	41.4	42.5	43.8	43.3	44.2	45.4	46.9	46.5	47.4	48.8	50.3	49.2	50.2	51.6	53.3	51.9	53.0	54.5	56.3	54.5	55.7	57.4	59.3
		HI PR	227	244	258	269	254	274	289	302	289	311	329	343	330	355	375	391	371	399	421	439	410	441	466	486
		LO PR	99	106	115	123	105	112	122	130	109	116	127	135	115	122	133	142	120	128	139	148	124	132	144	154

IDB = Entering Indoor Dry Bulb Temperature
 Shaded area reflects ACCA (TVA) conditions
 kW = Total system power
 High and low pressures are measured at the liquid and suction service ports.
 Amps: Unit amps (comp.+ evaporator + condenser fan motors)

15-20 Ton
Packaged Air Conditioners

Table 55 continued: Expanded Cooling Data, DCC180 15 Tons

IDB*		Outdoor Ambient Temperature																								
		65				75				85				95				105				115				
		Entering Indoor Wet Bulb Temperature																								
Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71		
6750	MBh	182.6	186.5	199.3	213.1	178.3	182.2	194.7	208.1	174.1	177.9	190.0	203.1	169.8	173.5	185.4	198.2	161.3	164.9	176.1	188.3	149.4	152.7	163.2	174.4	
	S/T	0.89	0.83	0.68	0.51	0.92	0.86	0.70	0.52	0.94	0.88	0.72	0.54	1.00	0.91	0.74	0.56	1.00	0.95	0.77	0.58	1.00	0.95	0.78	0.58	
	Delta T	25	23	20	16	25	24	21	17	25	24	21	17	26	24	21	17	24	24	21	16	23	22	19	15	
	KW	13.46	13.74	14.16	14.60	14.47	14.77	15.23	15.72	15.36	15.68	16.18	16.71	16.14	16.49	17.02	17.58	16.81	17.17	17.73	18.31	17.38	17.76	18.34	18.95	
	AMPS	42.2	43.0	44.2	45.6	45.0	45.9	47.2	48.7	48.3	49.3	50.7	52.4	51.2	52.3	53.8	55.5	54.0	55.2	56.8	58.7	56.8	58.1	59.8	61.8	
	HI PR	238	257	271	283	268	288	304	317	304	328	346	361	347	373	394	411	390	420	443	462	431	464	490	511	
	LO PR	104	111	121	129	110	117	128	136	115	122	133	142	120	128	140	149	126	134	147	156	131	139	152	161	
80	6000	MBh	177.2	181.1	193.5	206.9	173.1	176.9	189.0	202.0	169.0	172.7	184.5	197.2	164.9	168.5	180.0	192.4	156.6	160.1	171.0	182.8	145.1	148.3	158.4	169.3
		S/T	0.85	0.79	0.65	0.48	0.88	0.82	0.67	0.50	0.90	0.84	0.69	0.51	0.93	0.87	0.71	0.53	0.96	0.90	0.74	0.55	0.97	0.91	0.74	0.55
		Delta T	26	24	21	17	26	25	22	17	26	25	22	17	26	25	22	17	26	25	21	17	24	23	20	16
		KW	13.36	13.63	14.05	14.49	14.36	14.66	15.11	15.59	15.23	15.56	16.05	16.57	16.01	16.36	16.88	17.43	16.67	17.03	17.58	18.16	17.24	17.62	18.19	18.80
		AMPS	41.9	42.7	43.9	45.2	44.7	45.6	46.9	48.4	47.9	48.9	50.3	52.0	50.8	51.8	53.3	55.1	53.6	54.7	56.3	58.2	56.4	57.6	59.3	61.3
		HI PR	236	254	268	280	265	285	301	314	301	324	342	357	343	369	390	407	386	415	439	458	427	459	485	506
		LO PR	103	110	120	128	109	116	127	135	114	121	132	140	119	127	139	148	125	133	145	155	129	138	150	160
85	6000	MBh	163.6	167.2	178.6	190.9	159.8	163.3	174.4	186.5	156.0	159.4	170.3	182.0	152.2	155.5	166.1	177.6	144.6	147.7	157.8	168.7	133.9	136.8	146.2	156.3
		S/T	0.82	0.76	0.62	0.47	0.85	0.79	0.65	0.48	0.87	0.81	0.66	0.49	0.89	0.84	0.68	0.51	0.93	0.87	0.71	0.53	0.94	0.88	0.71	0.53
		Delta T	28	27	24	19	29	28	24	19	29	28	24	19	29	28	24	19	29	27	24	19	27	26	22	18
		KW	13.05	13.32	13.72	14.15	14.02	14.31	14.75	15.22	14.87	15.18	15.66	16.17	15.62	15.96	16.47	17.00	16.26	16.61	17.15	17.71	16.81	17.18	17.74	18.32
		AMPS	40.9	41.7	42.9	44.2	43.6	44.5	45.8	47.2	46.8	47.8	49.1	50.7	49.6	50.6	52.1	53.8	52.3	53.4	55.0	56.8	55.0	56.2	57.8	59.8
		HI PR	229	246	260	271	257	277	292	305	292	315	332	346	333	358	378	395	375	403	426	444	414	445	470	490
		LO PR	100	107	116	124	106	113	123	131	110	117	128	136	116	123	134	143	121	129	141	150	125	133	146	155
85	6750	MBh	185.8	189.3	198.3	211.6	181.4	184.9	193.7	206.6	177.1	180.5	189.1	201.7	172.8	176.1	184.5	196.8	164.2	167.3	175.2	187.0	152.1	155.0	162.3	173.2
		S/T	0.93	0.90	0.81	0.66	0.96	0.93	0.84	0.68	0.99	0.95	0.86	0.70	1.00	0.98	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.93	0.75
		Delta T	26	26	24	21	26	26	25	21	26	26	25	21	26	26	25	21	25	25	24	21	23	23	23	20
		KW	13.57	13.85	14.27	14.72	14.58	14.89	15.36	15.85	15.48	15.81	16.31	16.84	16.27	16.62	17.16	17.72	16.94	17.31	17.88	18.47	17.52	17.91	18.49	19.11
		AMPS	42.5	43.3	44.5	45.9	45.4	46.3	47.6	49.1	48.7	49.7	51.1	52.8	51.6	52.7	54.2	56.0	54.5	55.6	57.3	59.2	57.3	58.5	60.3	62.3
		HI PR	241	259	274	285	270	291	307	320	307	331	349	364	350	377	398	415	394	424	448	467	435	468	495	516
		LO PR	105	112	122	130	111	119	129	138	116	123	135	143	122	129	141	150	127	136	148	158	132	140	153	163
	4800	MBh	180.3	183.8	192.5	205.4	176.1	179.6	188.1	200.6	172.0	175.3	183.6	195.8	167.8	171.0	179.1	191.1	159.4	162.5	170.1	181.5	147.6	150.5	157.6	168.1
		S/T	0.89	0.86	0.77	0.63	0.92	0.89	0.80	0.65	0.94	0.91	0.82	0.67	0.97	0.94	0.85	0.69	1.00	0.97	0.88	0.71	1.00	0.98	0.89	0.72
		Delta T	27	27	25	22	28	27	26	22	28	27	26	22	28	27	26	22	27	27	25	22	25	25	24	21
		KW	13.46	13.74	14.16	14.60	14.47	14.77	15.23	15.72	15.36	15.68	16.18	16.71	16.14	16.49	17.02	17.58	16.81	17.17	17.73	18.31	17.38	17.76	18.34	18.95
		AMPS	42.2	43.0	44.2	45.6	45.0	45.9	47.2	48.7	48.3	49.3	50.7	52.4	51.2	52.3	53.8	55.5	54.0	55.2	56.8	58.7	56.8	58.1	59.8	61.8
		HI PR	238	257	271	283	268	288	304	317	304	328	346	361	347	373	394	411	390	420	443	462	431	464	490	511
		LO PR	104	111	121	129	110	117	128	136	115	122	133	142	120	128	140	149	126	134	147	156	131	139	152	161
4800	MBh	166.5	169.7	177.7	189.6	162.6	165.7	173.6	185.2	158.7	161.8	169.4	180.8	154.8	157.8	165.3	176.4	147.1	149.9	157.0	167.5	136.3	138.9	145.5	155.2	
	S/T	0.86	0.83	0.74	0.60	0.89	0.86	0.77	0.63	0.91	0.88	0.79	0.64	0.94	0.91	0.82	0.66	0.97	0.94	0.85	0.69	0.98	0.95	0.85	0.69	
	Delta T	30	30	28	24	31	30	29	25	31	30	29	25	31	30	29	25	30	30	28	25	28	28	26	23	
	KW	13.15	13.42	13.83	14.26	14.13	14.42	14.87	15.34	14.99	15.31	15.79	16.30	15.75	16.09	16.60	17.14	16.39	16.75	17.29	17.86	16.95	17.32	17.88	18.48	
	AMPS	41.2	42.0	43.2	44.5	44.0	44.9	46.1	47.6	47.2	48.2	49.5	51.1	49.9	51.0	52.5	54.2	52.7	53.8	55.4	57.3	55.4	56.6	58.3	60.3	
	HI PR	231	249	263	274	260	279	295	308	295	318	335	350	336	362	382	399	378	407	430	448	418	450	475	495	
	LO PR	101	108	118	125	107	114	124	132	111	118	129	138	117	124	136	145	122	130	142	151	127	135	147	157	

IDB = Entering Indoor Dry Bulb Temperature
 Shaded area reflects AHRI conditions
 KW = Total system power
 High and low pressures are measured at the liquid and suction service ports.
 Amps: Unit amps (comp.+ evaporator + condenser fan motors)

15-20 Ton
Packaged Air Conditioners

Table 56: Expanded Cooling Data, DCG180 15 Tons

IDB		Outdoor Ambient Temperature																								
		65°F				75°F				85°F				95°F				105°F				115°F				
		Entering Indoor Wet Bulb Temperature																								
Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71		
6075	MBh	176.4	182.8	200.3	—	172.3	178.6	195.6	—	168.2	174.3	191.0	—	164.1	170.1	186.3	—	155.9	161.6	177.0	—	144.4	149.7	164.0	—	
	S/T	0.71	0.59	0.41	—	0.74	0.62	0.43	—	0.76	0.63	0.44	—	0.78	0.65	0.45	—	0.81	0.68	0.47	—	0.82	0.68	0.47	—	
	ΔT	19	16	12	—	19	17	13	—	19	17	13	—	19	17	13	—	19	17	13	—	18	15	12	—	
	kW	13.25	13.53	13.94	—	14.25	14.54	14.99	—	15.11	15.43	15.92	—	15.88	16.22	16.74	—	16.53	16.89	17.44	—	17.09	17.47	18.04	—	
	HI PR	234	252	266	—	262	282	298	—	298	321	339	—	340	366	386	—	382	411	434	—	422	454	480	—	
LO PR	102	109	119	—	108	115	126	—	112	120	131	—	118	126	137	—	124	132	144	—	128	136	149	—		
70 5400	MBh	171.2	177.5	194.5	—	167.3	173.4	189.9	—	163.3	169.2	185.4	—	159.3	165.1	180.9	—	151.3	156.9	171.9	—	140.2	145.3	159.2	—	
	S/T	0.68	0.57	0.39	—	0.70	0.59	0.41	—	0.72	0.60	0.42	—	0.74	0.62	0.43	—	0.77	0.65	0.45	—	0.78	0.65	0.45	—	
	ΔT	20	17	13	—	20	17	13	—	20	17	13	—	20	17	13	—	20	17	13	—	19	16	12	—	
	kW	13.15	13.42	13.83	—	14.13	14.42	14.87	—	14.99			—				—				—				—	
	HI PR	231	249	263	—	260	279	295	—	295	318	336	—	336	362	382	—	378	407	430	—	418	450	475	—	
LO PR	101	108	118	—	107	114	124	—	111	118	129	—	117	124	136	—	122	130	142	—	127	135	147	—		
4320	MBh	158.1	163.8	179.5	—	154.4	160.0	175.3	—	150.7	156.2	171.1	—	147.0	152.4	167.0	—	139.7	144.8	158.6	—	129.4	134.1	146.9	—	
	S/T	0.65	0.55	0.38	—	0.68	0.57	0.39	—	0.70	0.58	0.40	—	0.72	0.60	0.42	—	0.74	0.62	0.43	—	0.75	0.63	0.43	—	
	ΔT	22	19	14	—	22	19	15	—	22	19	15	—	22	19	15	—	22	19	15	—	21	18	14	—	
	kW	12.85	13.11	13.51	—	13.80	14.08	14.52	—	14.63	14.94	15.41	—	15.37	15.70	16.20	—	16.00	16.34	16.87	—	16.54	16.90	17.44	—	
	HI PR	224	242	255	—	252	271	286	—	286	308	326	—	326	351	371	—	367	395	417	—	406	436	461	—	
LO PR	98	105	114	—	104	110	121	—	108	115	125	—	113	121	132	—	119	126	138	—	123	131	143	—		
75	6750	MBh	179.4	184.7	199.9	214.5	175.2	180.4	195.3	209.6	171.0	176.1	190.6	204.6	166.9	171.8	186.0	199.6	158.5	163.2	176.7	189.6	146.8	151.2	163.6	175.6
		S/T	0.81	0.72	0.55	0.35	0.84	0.75	0.57	0.37	0.86	0.77	0.58	0.37	0.89	0.79	0.60	0.39	0.92	0.82	0.62	0.40	0.93	0.83	0.63	0.40
		ΔT	22	20	17	11	22	20	17	12	22	20	17	12	22	21	17	12	22	20	17	12	21	19	16	11
		kW	13.36	13.63	14.05	14.49	14.35	14.66	15.11	15.59	15.23	15.56	16.05	16.57	16.01	16.35	16.88	17.43	16.67	17.03	17.58	18.16	17.24	17.62	18.19	18.79
		HI PR	236	254	268	280	265	285	301	314	301	324	342	357	343	369	390	407	386	415	439	458	427	459	485	506
	LO PR	103	110	120	128	109	116	127	135	114	121	132	140	119	127	138	147	125	133	145	155	129	138	150	160	
	6000	MBh	174.2	179.3	194.1	208.3	170.1	175.1	189.6	203.5	166.1	171.0	185.1	198.6	162.0	166.8	180.5	193.8	153.9	158.5	171.5	184.1	142.6	146.8	158.9	170.5
		S/T	0.77	0.69	0.52	0.34	0.80	0.71	0.54	0.35	0.82	0.73	0.55	0.36	0.85	0.76	0.57	0.37	0.88	0.79	0.59	0.38	0.89	0.79	0.60	0.39
		ΔT	23	21	17	12	23	21	17	12	23	21	17	12	23	21	18	12	23	21	17	12	21	20	16	11
		kW	13.26	13.53	13.94	14.38	14.24	14.54	14.99	15.47	15.11	15.43	15.92	16.44	15.88	16.22	16.74	17.29	16.53	16.89	17.44	18.01	17.10	17.47	18.04	18.64
		HI PR	234	252	266	277	262	282	298	311	298	321	339	354	340	366	386	403	382	411	434	453	422	454	480	501
	LO PR	102	109	119	127	108	115	126	134	112	120	131	139	118	126	137	146	124	132	144	153	128	136	149	158	
	4800	MBh	160.7	165.5	179.1	192.3	157.0	161.6	175.0	187.8	153.3	157.8	170.8	183.3	149.5	154.0	166.6	178.8	142.0	146.3	158.3	169.9	131.6	135.5	146.6	157.4
		S/T	0.74	0.67	0.50	0.32	0.77	0.69	0.52	0.34	0.79	0.71	0.53	0.34	0.82	0.73	0.55	0.36	0.85	0.76	0.57	0.37	0.85	0.76	0.58	0.37
		ΔT	25	23	19	13	26	24	19	13	26	24	19	13	26	24	20	14	26	24	19	13	24	22	18	12
kW		12.95	13.22	13.62	14.04	13.91	14.20	14.64	15.10	14.75	15.06	15.54	16.04	15.50	15.83	16.33	16.86	16.13	16.48	17.01	17.57	16.68	17.04	17.59	18.17	
HI PR		227	244	258	269	254	274	289	302	289	311	329	343	330	355	375	391	371	399	421	439	410	441	466	486	
LO PR	99	106	115	123	105	112	122	130	109	116	127	135	115	122	133	142	120	128	139	148	124	132	144	154		

IDB = Entering Indoor Dry Bulb Temperature
 Shaded area reflects ACCA (TVA) conditions
 kW = Total system power
 High and low pressures are measured at the liquid and suction service ports.
 Amps: Unit amps (comp. + evaporator + condenser fan motors)

Table 56 continued: Expanded Cooling Data, DCG180 15 Tons

IDB		Outdoor Ambient Temperature																								
		65°F				75°F				85°F				95°F				105°F				115°F				
		Entering Indoor Wet Bulb Temperature																								
Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71		
80	6750	MBh	182.6	186.5	199.3	213.1	178.3	182.2	194.7	208.1	174.1	177.9	190.0	203.1	169.8	173.5	185.4	198.2	161.3	164.9	176.1	188.3	149.4	152.7	163.2	174.4
		S/T	0.89	0.83	0.68	0.51	0.92	0.86	0.70	0.52	0.94	0.88	0.72	0.54	1.00	0.91	0.74	0.56	1.00	0.95	0.77	0.58	1.00	0.95	0.78	0.58
		ΔT	25	23	20	16	25	24	21	17	25	24	21	17	26	24	21	17	24	24	21	16	23	22	19	15
		kW	13.46	13.74	14.16	14.60	14.47	14.77	15.23	15.72	15.36	15.68	16.18	16.71	16.14	16.49	17.02	17.58	16.81	17.17	17.73	18.31	17.38	17.76	18.34	18.95
		HI PR	238	257	271	283	268	288	304	317	304	328	346	361	347	373	394	411	390	420	443	462	431	464	490	511
		LO PR	104	111	121	129	110	117	128	136	115	122	133	142	120	128	140	149	126	134	147	156	131	139	152	161
	6000	MBh	177.2	181.1	193.5	206.9	173.1	176.9	189.0	202.0	169.0	172.7	184.5	197.2	164.9	168.5	180.0	192.4	156.6	160.1	171.0	182.8	145.1	148.3	158.4	169.3
		S/T	0.85	0.79	0.65	0.48	0.88	0.82	0.67	0.50	0.90	0.84	0.69	0.51	0.93	0.87	0.71	0.53	0.96	0.90	0.74	0.55	0.97	0.91	0.74	0.55
		ΔT	26	24	21	17	26	25	22	17	26	25	22	17	26	25	22	17	26	25	21	17	24	23	20	16
		kW	13.36	13.63	14.05	14.49	14.36	14.66	15.11	15.59	15.23	15.56	16.05	16.57	16.01	16.36	16.88	17.43	16.67	17.03	17.58	18.16	17.24	17.62	18.19	18.80
		HI PR	236	254	268	280	265	285	301	314	301	324	342	357	343	369	390	407	386	415	439	458	427	459	485	506
		LO PR	103	110	120	128	109	116	127	135	114	121	132	140	119	127	139	148	125	133	145	155	129	138	150	160
4800	MBh	163.6	167.2	178.6	190.9	159.8	163.3	174.4	186.5	156.0	159.4	170.3	182.0	152.2	155.5	166.1	177.6	144.6	147.7	157.8	168.7	133.9	136.8	146.2	156.3	
	S/T	0.82	0.76	0.62	0.47	0.85	0.79	0.65	0.48	0.87	0.81	0.66	0.49	0.89	0.84	0.68	0.51	0.93	0.87	0.71	0.53	0.94	0.88	0.71	0.53	
	ΔT	28	27	24	19	29	28	24	19	29	28	24	19	29	28	24	19	29	27	24	19	27	26	22	18	
	kW	13.05	13.32	13.72	14.15	14.02	14.31	14.75	15.22	14.87	15.18	15.66	16.77	15.62	15.96	16.47	17.00	16.26	16.61	17.15	17.71	16.81	17.18	17.74	18.32	
	HI PR	229	246	260	271	257	277	292	305	292	315	332	346	333	358	378	395	375	403	426	444	414	445	470	490	
	LO PR	100	107	116	124	106	113	123	131	110	117	128	136	116	123	134	143	121	129	141	150	125	133	146	155	
85	6750	MBh	185.8	189.3	198.3	211.6	181.4	184.9	193.7	206.6	177.1	180.5	189.1	201.7	172.8	176.1	184.5	196.8	164.2	167.3	175.2	187.0	152.1	155.0	162.3	173.2
		S/T	0.93	0.90	0.81	0.66	0.96	0.93	0.84	0.68	0.99	0.95	0.86	0.70	1.00	0.98	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.93	0.75
		ΔT	26	26	24	21	26	26	25	21	26	26	25	21	26	26	25	21	25	25	24	21	23	23	20	20
		kW	13.57	13.85	14.27	14.72	14.58	14.89	15.36	15.85	15.48	15.81	16.31	16.84	16.27	16.62	17.16	17.72	16.94	17.31	17.88	18.47	17.52	17.91	18.49	19.11
		HI PR	241	259	274	285	270	291	307	320	307	331	349	364	350	377	398	415	394	424	448	467	435	468	495	516
		LO PR	105	112	122	130	111	119	129	138	116	123	135	143	122	129	141	150	127	136	148	158	132	140	153	163
	6000	MBh	180.3	183.8	192.5	205.4	176.1	179.6	188.1	200.6	172.0	175.3	183.6	195.8	167.8	171.0	179.1	191.1	159.4	162.5	170.1	181.5	147.6	150.5	157.6	168.1
		S/T	0.89	0.86	0.77	0.63	0.92	0.89	0.80	0.65	0.94	0.91	0.82	0.67	0.97	0.94	0.85	0.69	1.00	0.97	0.88	0.71	1.00	0.98	0.89	0.72
		ΔT	27	27	25	22	28	27	26	22	28	27	26	22	28	27	26	22	27	27	25	22	25	25	24	21
		kW	13.46	13.74	14.16	14.60	14.47	14.77	15.23	15.72	15.36	15.68	16.18	16.71	16.14	16.49	17.02	17.58	16.81	17.17	17.73	18.31	17.38	17.76	18.34	18.95
		HI PR	238	257	271	283	268	288	304	317	304	328	346	361	347	373	394	411	390	420	443	462	431	464	490	511
		LO PR	104	111	121	129	110	117	128	136	115	122	133	142	120	128	140	149	126	134	147	156	131	139	152	161
	4800	MBh	166.5	169.7	177.7	189.6	162.6	165.7	173.6	185.2	158.7	161.8	169.4	180.8	154.8	157.8	165.3	176.4	147.1	149.9	157.0	167.5	136.3	138.9	145.5	155.2
		S/T	0.86	0.83	0.74	0.60	0.89	0.86	0.77	0.63	0.91	0.88	0.79	0.64	0.94	0.91	0.82	0.66	0.97	0.94	0.85	0.69	0.98	0.95	0.85	0.69
		ΔT	30	30	28	24	31	30	29	25	31	30	29	25	31	30	29	25	30	30	28	25	28	28	26	23
		kW	13.15	13.42	13.83	14.26	14.13	14.42	14.87	15.34	14.99	15.31	15.79	16.30	15.75	16.09	16.60	17.14	16.39	16.75	17.29	17.86	16.95	17.32	17.88	18.48
		HI PR	231	249	263	274	260	279	295	308	295	318	335	350	336	362	382	399	378	407	430	448	418	450	475	495
		LO PR	101	108	118	125	107	114	124	132	111	118	129	138	117	124	136	145	122	130	142	151	127	135	147	157

IDB = Entering Indoor Dry Bulb Temperature
 Shaded area reflects AHRI conditions
 kW = Total system power
 High and low pressures are measured at the liquid and suction service ports.
 Amps: Unit amps (comp. + evaporator + condenser fan motors)

15-20 Ton
Packaged Air Conditioners

Table 57: Expanded Cooling Data, DCC240 20 Tons

IDB		Outdoor Ambient Temperature																								
		65°F				75°F				85°F				95°F				105°F				115°F				
		Entering Indoor Wet Bulb Temperature																								
Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71		
7875	MBh	235.2	243.8	267.1	—	229.7	238.1	260.9	—	224.2	232.4	254.6	—	218.8	226.8	248.4	—	207.8	215.4	236.0	—	192.5	199.5	218.6	—	
	S/T	0.76	0.63	0.44	—	0.78	0.66	0.45	—	0.80	0.67	0.47	—	0.83	0.69	0.48	—	0.86	0.72	0.50	—	0.87	0.73	0.50	—	
	Delta T	21	18	14	—	21	18	14	—	21	18	14	—	21	18	14	—	21	18	14	—	20	17	13	—	
	kW	19.42	19.83	20.46	—	20.92	21.37	22.06	—	22.25	22.73	23.48	—	23.41	23.93	24.73	—	24.41	24.96	25.79	—	25.27	25.84	26.70	—	
	Amps	60.3	61.5	63.2	—	64.4	65.7	67.5	—	69.1	70.5	72.6	—	73.2	74.7	76.9	—	77.2	78.9	81.2	—	81.2	83.0	85.5	—	
	HI PR	259	279	294	—	290	313	330	—	330	356	375	—	376	405	428	—	423	456	481	—	468	503	531	—	
LO PR	100	106	116	—	105	112	122	—	110	117	127	—	115	122	134	—	121	128	140	—	125	133	145	—		
70	7000	MBh	228.3	236.7	259.3	—	223.0	231.2	253.3	—	217.7	225.7	247.2	—	212.4	220.1	241.2	—	201.8	209.1	229.1	—	186.9	193.7	212.3	—
	S/T	0.72	0.60	0.42	—	0.75	0.63	0.43	—	0.77	0.64	0.44	—	0.79	0.66	0.46	—	0.82	0.69	0.48	—	0.83	0.69	0.48	—	
	Delta T	22	19	14	—	22	19	14	—	22	19	14	—	22	19	15	—	22	19	14	—	20	18	13	—	
	kW	19.26	19.67	20.30	—	20.75	21.20	21.88	—	22.06	22.55	23.28	—	23.22	23.74	24.52	—	24.21	24.75	25.57	—	25.06	25.62	26.48	—	
	Amps	59.9	61.1	62.7	—	63.9	65.2	67.0	—	68.6	70.0	72.0	—	72.6	74.1	76.3	—	76.6	78.3	80.5	—	80.6	82.3	84.8	—	
	HI PR	256	276	291	—	288	310	327	—	327	352	372	—	373	401	423	—	419	451	476	—	463	498	526	—	
LO PR	99	105	115	—	104	111	121	—	108	115	126	—	114	121	132	—	119	127	139	—	123	131	143	—		
5600	MBh	210.7	218.4	239.3	—	205.8	213.4	233.8	—	200.9	208.3	228.2	—	196.0	203.2	222.6	—	186.2	193.0	211.5	—	172.5	178.8	195.9	—	
	S/T	0.70	0.58	0.40	—	0.72	0.60	0.42	—	0.74	0.62	0.43	—	0.76	0.64	0.44	—	0.79	0.66	0.46	—	0.80	0.67	0.46	—	
	Delta T	24	21	16	—	24	21	16	—	24	21	16	—	25	21	16	—	24	21	16	—	23	20	15	—	
	kW	18.80	19.20	19.81	—	20.25	20.68	21.34	—	21.52	21.99	22.70	—	22.64	23.14	23.90	—	23.60	24.12	24.92	—	24.42	24.97	25.80	—	
	Amps	58.5	59.7	61.3	—	62.4	63.7	65.5	—	67.0	68.3	70.3	—	70.9	72.4	74.4	—	74.8	76.4	78.6	—	78.6	80.3	82.7	—	
	HI PR	249	268	283	—	279	300	317	—	317	341	361	—	361	389	411	—	407	438	462	—	449	483	510	—	
LO PR	96	102	111	—	101	108	118	—	105	112	122	—	110	118	128	—	116	123	134	—	120	127	139	—		
75	7875	MBh	239.2	246.2	266.5	286.1	233.6	240.5	260.3	279.4	228.0	234.8	254.1	272.8	222.5	229.1	247.9	266.1	211.4	217.6	235.5	252.8	195.8	201.6	218.2	234.2
		S/T	0.86	0.77	0.58	0.37	0.89	0.80	0.60	0.39	0.91	0.82	0.62	0.40	0.94	0.84	0.64	0.41	0.98	0.88	0.66	0.43	0.99	0.88	0.67	0.43
		Delta T	24	22	18	13	24	22	18	13	24	22	18	13	25	23	19	13	24	22	18	13	23	21	17	12
		kW	19.58	19.99	20.63	21.30	21.09	21.55	22.25	22.98	22.43	22.93	23.68	24.47	23.61	24.14	24.94	25.78	24.62	25.17	26.01	26.89	25.48	26.06	26.93	27.86
		Amps	60.8	62.0	63.7	65.7	64.9	66.2	68.1	70.3	69.7	71.1	73.1	75.5	73.8	75.3	77.5	80.1	77.9	79.5	81.9	84.6	81.9	83.7	86.2	89.1
		HI PR	262	281	297	310	293	316	333	348	334	359	379	396	380	409	432	451	428	460	486	507	472	508	537	560
	LO PR	101	107	117	125	106	113	124	132	111	118	129	137	116	124	135	144	122	130	141	151	126	134	146	156	
	7000	MBh	232.2	239.1	258.8	277.7	226.8	233.5	252.8	271.3	221.4	228.0	246.7	264.8	216.0	222.4	240.7	258.4	205.2	211.3	228.7	245.4	190.1	195.7	211.8	227.4
		S/T	0.82	0.73	0.56	0.36	0.85	0.76	0.58	0.37	0.87	0.78	0.59	0.38	0.90	0.81	0.61	0.39	0.93	0.84	0.63	0.41	0.94	0.84	0.64	0.41
		Delta T	25	23	19	13	25	23	19	13	25	23	19	13	26	24	19	13	25	23	19	13	24	22	18	12
		kW	19.42	19.84	20.46	21.13	20.92	21.38	22.07	22.79	22.25	22.74	23.48	24.26	23.42	23.94	24.73	25.56	24.41	24.96	25.79	26.67	25.27	25.84	26.71	27.62
		Amps	60.3	61.5	63.2	65.2	64.4	65.7	67.6	69.7	69.1	70.6	72.6	74.9	73.2	74.7	76.9	79.4	77.2	78.9	81.2	83.9	81.3	83.0	85.5	88.4
HI PR		259	279	294	307	291	313	330	344	330	356	376	392	376	405	428	446	423	456	481	502	468	503	532	554	
LO PR	100	106	116	123	105	112	122	130	110	117	127	136	115	122	134	142	121	128	140	149	125	133	145	154		
5600	MBh	214.3	220.7	238.8	256.3	209.3	215.5	233.3	250.4	204.4	210.4	227.7	244.4	199.4	205.3	222.2	238.5	189.4	195.0	211.1	226.5	175.4	180.6	195.5	209.8	
	S/T	0.79	0.71	0.54	0.34	0.82	0.73	0.56	0.36	0.84	0.75	0.57	0.37	0.87	0.78	0.59	0.38	0.90	0.81	0.61	0.39	0.91	0.81	0.62	0.40	
	Delta T	28	26	21	15	28	26	21	15	28	26	21	15	28	26	21	15	28	26	21	15	26	24	20	14	
	kW	18.96	19.36	19.97	20.61	20.41	20.85	21.52	22.23	21.70	22.17	22.89	23.65	22.83	23.34	24.11	24.91	23.80	24.33	25.13	25.98	24.63	25.18	26.02	26.91	
	Amps	59.0	60.2	61.8	63.7	62.9	64.2	66.0	68.1	67.5	68.9	70.8	73.1	71.4	72.9	75.0	77.5	75.4	77.0	79.2	81.9	79.3	81.0	83.4	86.2	
	HI PR	251	270	285	298	282	303	320	334	321	345	364	380	365	393	415	433	411	442	467	487	454	488	516	538	
LO PR	97	103	112	120	102	109	119	126	106	113	123	131	112	119	130	138	117	124	136	145	121	129	141	150		

IDB = Entering Indoor Dry Bulb Temperature
 Shaded area reflects AHRI conditions
 kW = Total system power
 High and low pressures are measured at the liquid and suction service ports.
 Amps: Unit amps (comp. + evaporator + condenser fan motors)

15-20 Ton
Packaged Air Conditioners

Table 57 continued: Expanded Cooling Data, DCC240 20 Tons

IDB		Outdoor Ambient Temperature																								
		65°F				75°F				85°F				95°F				105°F				115°F				
		Entering Indoor Wet Bulb Temperature																								
Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71		
7875	MBh	243.4	248.7	265.7	284.1	237.8	242.9	259.6	277.5	232.1	237.2	253.4	270.9	226.4	231.4	247.2	264.3	215.1	219.8	234.8	251.0	199.3	203.6	217.5	232.5	
	S/T	0.94	0.89	0.72	0.54	1.00	0.92	0.75	0.56	1.00	0.94	0.77	0.57	1.00	1.00	0.79	0.59	1.00	1.00	0.82	0.61	1.00	1.00	0.83	0.62	
	Delta T	27	26	22	18	28	26	23	18	27	26	23	18	26	27	23	18	25	26	22	18	23	24	21	17	
	KW	19.73	20.16	20.80	21.47	21.27	21.73	22.43	23.17	22.62	23.12	23.88	24.67	23.81	24.34	25.15	26.00	24.83	25.39	26.23	27.13	25.70	26.28	27.17	28.10	
	AMPS	61.3	62.5	64.2	66.2	65.4	66.7	68.6	70.8	70.2	71.7	73.7	76.1	74.4	75.9	78.1	80.7	78.5	80.2	82.5	85.3	82.6	84.4	86.9	89.8	
	HI PR	264	284	300	313	296	319	337	351	337	363	383	400	384	413	436	455	432	465	491	512	477	514	542	566	
	LO PR	102	108	118	126	108	114	125	133	112	119	130	138	117	125	136	145	123	131	143	152	127	135	148	157	
80	7000	MBh	236.3	241.5	258.0	275.8	230.8	235.9	252.0	269.4	225.3	230.3	246.0	263.0	219.8	224.6	240.0	256.6	208.8	213.4	228.0	243.7	193.5	197.7	211.2	225.8
	S/T	0.90	0.84	0.69	0.51	0.93	0.88	0.71	0.53	0.96	0.90	0.73	0.55	0.99	0.93	0.75	0.56	1.00	0.96	0.78	0.58	1.00	0.97	0.79	0.59	
	Delta T	28	27	23	19	28	27	24	19	28	27	24	19	29	27	24	19	27	27	23	19	25	25	22	17	
	KW	19.58	20.00	20.63	21.30	21.09	21.55	22.25	22.98	22.43	22.93	23.68	24.47	23.62	24.14	24.94	25.78	24.62	25.17	26.01	26.90	25.49	26.06	26.94	27.86	
	AMPS	60.8	62.0	63.7	65.7	64.9	66.2	68.1	70.3	69.7	71.1	73.1	75.5	73.8	75.3	77.5	80.1	77.9	79.5	81.9	84.6	81.9	83.7	86.2	89.1	
	HI PR	262	281	297	310	293	316	334	348	334	359	379	396	380	409	432	451	428	460	486	507	473	509	537	560	
	LO PR	101	107	117	125	106	113	124	132	111	118	129	137	116	124	135	144	122	130	141	151	126	134	146	156	
5600	MBh	218.1	222.9	238.1	254.6	213.1	217.7	232.6	248.6	208.0	212.5	227.1	242.7	202.9	207.3	221.5	236.8	192.8	197.0	210.4	225.0	178.6	182.5	194.9	208.4	
	S/T	0.87	0.81	0.66	0.50	0.90	0.84	0.69	0.51	0.92	0.87	0.70	0.53	0.95	0.89	0.73	0.54	0.99	0.93	0.75	0.56	1.00	0.93	0.76	0.57	
	Delta T	31	30	26	21	31	30	26	21	32	30	26	21	32	30	26	21	31	30	26	21	29	28	24	19	
	KW	19.11	19.51	20.13	20.78	20.58	21.02	21.70	22.41	21.88	22.36	23.09	23.85	23.02	23.53	24.31	25.12	24.00	24.53	25.35	26.21	24.84	25.40	26.25	27.14	
	AMPS	59.4	60.6	62.3	64.2	63.4	64.7	66.5	68.6	68.0	69.4	71.4	73.7	72.0	73.5	75.6	78.1	76.0	77.6	79.9	82.5	79.9	81.6	84.1	86.9	
	HI PR	254	273	288	301	285	306	323	337	324	348	368	384	369	397	419	437	415	446	471	492	458	493	521	543	
	LO PR	98	104	114	121	103	110	120	128	107	114	125	133	113	120	131	139	118	126	137	146	122	130	142	151	
85	7875	MBh	247.7	252.5	264.4	282.1	241.9	246.6	258.3	275.5	236.2	240.7	252.1	269.0	230.4	234.8	246.0	262.4	218.9	223.1	233.7	249.3	202.7	206.7	216.4	230.9
		S/T	0.99	0.96	0.86	0.70	1.00	0.99	0.89	0.72	1.00	1.00	0.92	0.74	1.00	1.00	0.95	0.77	1.00	1.00	0.98	0.80	1.00	1.00	0.99	0.80
		Delta T	29	28	27	23	28	28	27	23	28	28	27	23	27	27	27	24	26	26	27	23	24	24	25	22
		KW	19.89	20.32	20.97	21.65	21.44	21.91	22.62	23.37	22.81	23.31	24.08	24.88	24.01	24.55	25.36	26.22	25.04	25.60	26.46	27.36	25.92	26.51	27.40	28.34
		AMPS	61.7	63.0	64.7	66.7	65.9	67.3	69.2	71.4	70.8	72.2	74.3	76.7	74.9	76.5	78.8	81.4	79.1	80.8	83.2	86.0	83.3	85.1	87.6	90.6
		HI PR	267	287	303	316	299	322	340	355	340	366	387	404	388	417	441	460	436	469	496	517	482	519	548	571
		LO PR	103	109	119	127	109	116	126	134	113	120	131	140	119	126	138	147	124	132	144	154	129	137	149	159
	7000	MBh	240.5	245.1	256.7	273.9	234.9	239.4	250.7	267.5	229.3	233.7	244.8	261.1	223.7	228.0	238.8	254.8	212.5	216.6	226.9	242.0	196.8	200.6	210.1	224.2
		S/T	0.94	0.91	0.82	0.67	0.98	0.94	0.85	0.69	1.00	0.97	0.87	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.94	0.76	1.00	1.00	0.94	0.77
		Delta T	30	29	28	24	30	30	28	24	30	30	28	24	29	30	28	24	28	28	28	24	26	26	26	23
		KW	19.73	20.16	20.80	21.47	21.27	21.73	22.43	23.17	22.62	23.12	23.88	24.67	23.81	24.34	25.15	26.00	24.83	25.39	26.23	27.13	25.70	26.28	27.17	28.10
		AMPS	61.3	62.5	64.2	66.2	65.4	66.7	68.6	70.8	70.2	71.7	73.7	76.1	74.4	75.9	78.1	80.7	78.5	80.2	82.5	85.3	82.6	84.4	86.9	89.8
		HI PR	264	284	300	313	296	319	337	351	337	363	383	400	384	413	436	455	432	465	491	512	477	514	542	566
		LO PR	102	108	118	126	108	114	125	133	112	119	130	138	117	125	136	145	123	131	143	152	127	135	148	157
5600	MBh	221.9	226.2	236.9	252.8	216.8	221.0	231.4	246.9	211.6	215.7	225.9	241.0	206.5	210.5	220.4	235.1	196.1	199.9	209.4	223.4	181.7	185.2	194.0	206.9	
	S/T	0.91	0.88	0.79	0.64	0.94	0.91	0.82	0.67	0.97	0.93	0.84	0.68	1.00	0.96	0.87	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.91	0.74	
	Delta T	33	33	31	27	34	33	31	27	34	33	31	27	34	33	31	27	32	33	31	27	30	30	29	25	
	KW	19.26	19.67	20.29	20.95	20.75	21.19	21.88	22.60	22.06	22.54	23.28	24.05	23.22	23.73	24.51	25.34	24.20	24.74	25.56	26.43	25.05	25.61	26.47	27.37	
	AMPS	59.9	61.1	62.7	64.7	63.9	65.2	67.0	69.1	68.6	70.0	72.0	74.3	72.6	74.1	76.2	78.7	76.6	78.2	80.5	83.2	80.6	82.3	84.7	87.6	
	HI PR	256	276	291	304	288	309	327	341	327	352	372	388	372	401	423	441	419	451	476	497	463	498	526	549	
	LO PR	99	105	115	122	104	111	121	129	108	115	126	134	114	121	132	141	119	127	139	148	123	131	143	153	

IDB = Entering Indoor Dry Bulb Temperature
 Shaded area reflects ACCA (TVA) conditions
 kW = Total system power
 High and low pressures are measured at the liquid and suction service ports.
 Amps: Unit amps (comp.+ evaporator + condenser fan motors)

15-20 Ton Packaged Air Conditioners

Table 58: Expanded Cooling Data, DCG240 20 Tons

IDB*	Airflow	Outdoor Ambient Temperature																								
		65				75				85				95				105				115				
		Entering Indoor Wet Bulb Temperature																								
		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	
7875	MBh	235.2	243.8	267.1	—	229.7	238.1	260.9	—	224.2	232.4	254.6	—	218.8	226.8	248.4	—	207.8	215.4	236.0	—	192.5	199.5	218.6	—	
	S/T	0.71	0.59	0.41	—	0.74	0.62	0.43	—	0.76	0.63	0.44	—	0.78	0.65	0.45	—	0.81	0.68	0.47	—	0.82	0.68	0.47	—	
	Delta T	20	17	13	—	20	17	13	—	20	17	13	—	20	17	13	—	20	17	13	—	18	16	12	—	
	KW	19.73	20.15	20.78	—	21.24	21.70	22.39	—	22.58	23.07	23.82	—	23.75	24.28	25.07	—	24.76	25.31	26.14	—	25.62	26.19	27.06	—	
	AMPS	62.3	63.5	65.3	—	66.4	67.8	69.6	—	71.2	72.6	74.7	—	75.3	76.9	79.0	—	79.4	81.1	83.4	—	83.5	85.2	87.7	—	
	HI PR	268	289	305	—	301	324	342	—	343	369	389	—	390	420	443	—	439	472	499	—	485	522	551	—	
LO PR	99	105	115	—	105	111	121	—	109	116	126	—	114	121	133	—	120	127	139	—	124	132	144	—		
70	7000	MBh	228.3	236.7	259.3	—	223.0	231.2	253.3	—	217.7	225.7	247.2	—	212.4	220.1	241.2	—	201.8	209.1	229.1	—	186.9	193.7	212.3	—
	S/T	0.68	0.57	0.39	—	0.70	0.59	0.41	—	0.72	0.60	0.42	—	0.74	0.62	0.43	—	0.77	0.65	0.45	—	0.78	0.65	0.45	—	
	Delta T	20	18	13	—	21	18	14	—	21	18	14	—	21	18	14	—	20	18	13	—	19	17	13	—	
	KW	19.57	19.99	20.61	—	21.07	21.52	22.21	—	22.39	22.88	23.62	—	23.56	24.08	24.87	—	24.55	25.10	25.92	—	25.41	25.97	26.84	—	
	AMPS	61.9	63.1	64.8	—	65.9	67.3	69.1	—	70.7	72.1	74.1	—	74.7	76.3	78.4	—	78.8	80.4	82.8	—	82.8	84.6	87.0	—	
	HI PR	266	286	302	—	298	321	339	—	339	365	385	—	386	416	439	—	435	468	494	—	480	517	546	—	
LO PR	98	104	114	—	104	110	120	—	108	115	125	—	113	120	131	—	118	126	138	—	123	130	142	—		
5600	MBh	210.7	218.4	239.3	—	205.8	213.4	233.8	—	200.9	208.3	228.2	—	196.0	203.2	222.6	—	186.2	193.0	211.5	—	172.5	178.8	195.9	—	
	S/T	0.65	0.55	0.38	—	0.68	0.57	0.39	—	0.70	0.58	0.40	—	0.72	0.60	0.42	—	0.74	0.62	0.43	—	0.75	0.63	0.43	—	
	Delta T	23	20	15	—	23	20	15	—	23	20	15	—	23	20	15	—	23	20	15	—	21	18	14	—	
	KW	19.11	19.51	20.12	—	20.56	21.00	21.67	—	21.84	22.32	23.04	—	22.98	23.48	24.24	—	23.94	24.47	25.27	—	24.77	25.32	26.16	—	
	AMPS	60.5	61.7	63.3	—	64.5	65.7	67.5	—	69.0	70.4	72.4	—	73.0	74.5	76.6	—	76.9	78.5	80.8	—	80.8	82.5	84.9	—	
	HI PR	258	277	293	—	289	311	329	—	329	354	374	—	375	403	426	—	422	454	479	—	466	501	529	—	
LO PR	95	101	110	—	100	107	117	—	104	111	121	—	110	117	127	—	115	122	133	—	119	126	138	—		
75	7875	MBh	239.2	246.2	266.5	286.1	233.6	240.5	260.3	279.4	228.0	234.8	254.1	272.8	222.5	229.1	247.9	266.1	211.4	217.6	235.5	252.8	195.8	201.6	218.2	234.2
		S/T	0.81	0.72	0.55	0.35	0.84	0.75	0.57	0.37	0.86	0.77	0.58	0.37	0.89	0.79	0.60	0.39	0.92	0.82	0.62	0.40	0.93	0.83	0.63	0.40
		Delta T	23	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	21	20	16	11
		KW	19.89	20.31	20.95	21.62	21.42	21.88	22.58	23.32	22.76	23.26	24.02	24.81	23.95	24.48	25.29	26.13	24.97	25.52	26.37	27.26	25.84	26.42	27.30	28.23
		AMPS	62.8	64.0	65.7	67.8	66.9	68.3	70.2	72.4	71.8	73.2	75.3	77.7	75.9	77.5	79.7	82.3	80.0	81.7	84.1	86.9	84.1	85.9	88.4	91.4
		HI PR	271	292	308	321	304	327	346	361	346	372	393	410	394	424	448	467	443	477	504	526	490	527	557	581
	LO PR	100	106	116	124	106	112	123	131	110	117	128	136	115	123	134	143	121	129	140	150	125	133	145	155	
	7000	MBh	232.2	239.1	258.8	277.7	226.8	233.5	252.8	271.3	221.4	228.0	246.7	264.8	216.0	222.4	240.7	258.4	205.2	211.3	228.7	245.4	190.1	195.7	211.8	227.4
		S/T	0.77	0.69	0.52	0.34	0.80	0.71	0.54	0.35	0.82	0.73	0.55	0.36	0.85	0.76	0.57	0.37	0.88	0.79	0.59	0.38	0.89	0.79	0.60	0.39
		Delta T	24	22	18	12	24	22	18	12	24	22	18	12	24	22	18	13	24	22	18	12	22	20	17	12
		KW	19.73	20.15	20.78	21.45	21.24	21.70	22.40	23.13	22.58	23.07	23.82	24.61	23.76	24.28	25.08	25.92	24.76	25.31	26.15	27.03	25.62	26.20	27.07	27.99
		AMPS	62.3	63.6	65.3	67.3	66.5	67.8	69.6	71.8	71.2	72.7	74.7	77.1	75.3	76.9	79.1	81.6	79.4	81.1	83.4	86.2	83.5	85.2	87.7	90.7
		HI PR	269	289	305	318	301	324	342	357	343	369	389	406	390	420	444	463	439	473	499	520	485	522	551	575
	LO PR	99	105	115	122	105	111	122	129	109	116	126	135	114	122	133	141	120	127	139	148	124	132	144	153	
	5600	MBh	214.3	220.7	238.8	256.3	209.3	215.5	233.3	250.4	204.4	210.4	227.7	244.4	199.4	205.3	222.2	238.5	189.4	195.0	211.1	226.5	175.4	180.6	195.5	209.8
		S/T	0.74	0.67	0.50	0.32	0.77	0.69	0.52	0.34	0.79	0.71	0.53	0.34	0.82	0.73	0.55	0.36	0.85	0.76	0.57	0.37	0.85	0.76	0.58	0.37
		Delta T	26	24	20	14	26	24	20	14	27	24	20	14	27	25	20	14	26	24	20	14	25	23	19	13
		KW	19.26	19.67	20.28	20.93	20.73	21.17	21.85	22.56	22.03	22.50	23.23	23.99	23.17	23.68	24.45	25.26	24.14	24.67	25.49	26.34	24.98	25.53	26.38	27.27
AMPS		61.0	62.1	63.8	65.7	65.0	66.2	68.0	70.1	69.6	71.0	72.9	75.3	73.6	75.1	77.2	79.7	77.5	79.2	81.4	84.1	81.5	83.2	85.6	88.4	
HI PR		260	280	296	309	292	315	332	346	332	358	378	394	379	407	430	449	426	458	484	505	471	506	535	558	
LO PR	96	102	112	119	101	108	118	126	105	112	123	130	111	118	129	137	116	124	135	144	120	128	139	149		

IDB = Entering Indoor Dry Bulb Temperature
 Shaded area reflects ACCA (TVA) conditions
 KW = Total system power
 High and low pressures are measured at the liquid and suction service ports.
 Amps: Unit amps (comp.+ evaporator + condenser fan motors)

15-20 Ton
Packaged Air Conditioners

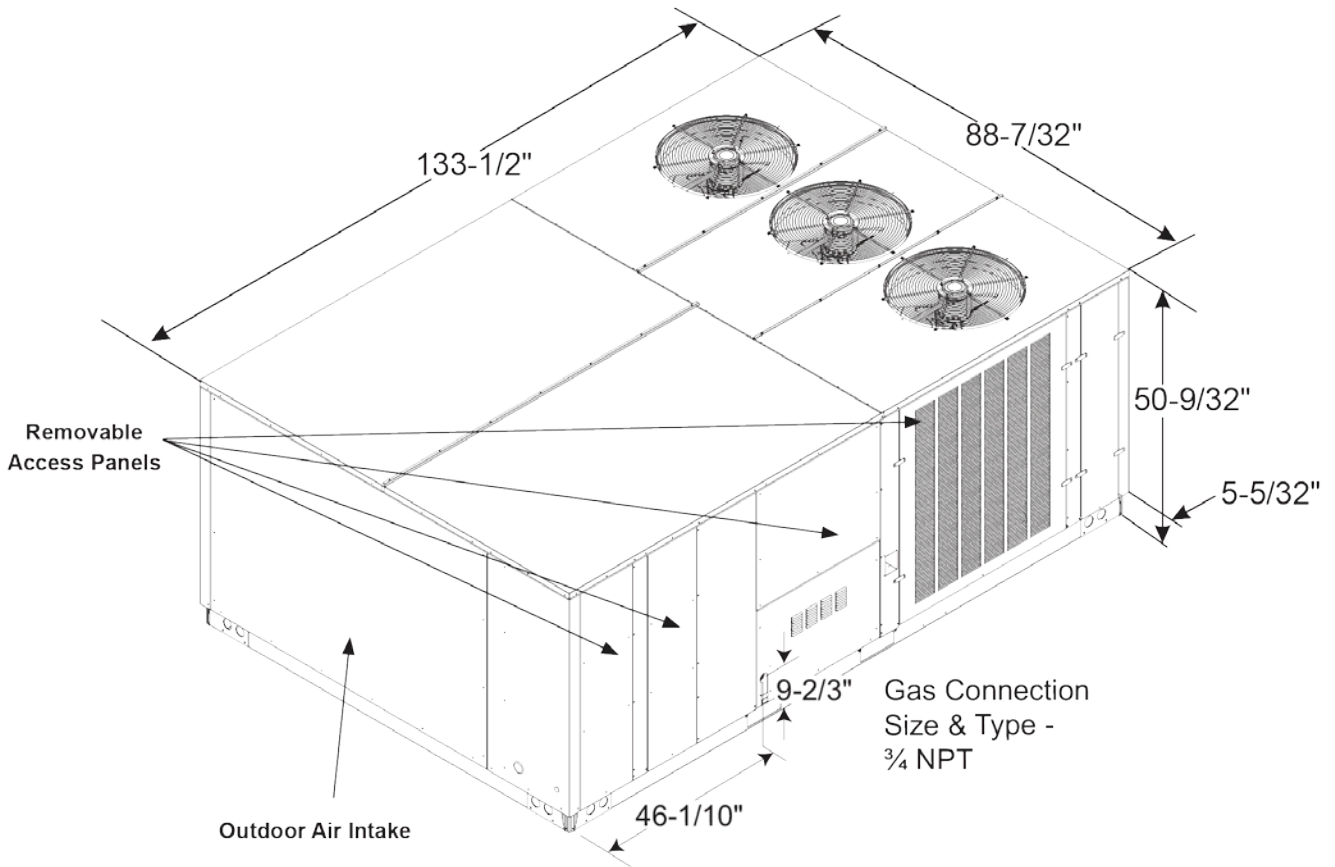
Table 58 continued: Expanded Cooling Data, DCG240 20 Tons

IDB*	Airflow	Outdoor Ambient Temperature																								
		65				75				85				95				105				115				
		Entering Indoor Wet Bulb Temperature																								
	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71		
7875	MBh	243.4	248.7	265.7	284.1	237.8	242.9	259.6	277.5	232.1	237.2	253.4	270.9	226.4	231.4	247.2	264.3	215.1	219.8	234.8	251.0	199.3	203.6	217.5	232.5	
	S/T	0.89	0.83	0.68	0.51	0.92	0.86	0.70	0.52	0.94	0.88	0.72	0.54	1.00	0.91	0.74	0.56	1.00	0.95	0.77	0.58	1.00	0.95	0.78	0.58	
	Delta T	25	24	21	17	26	24	21	17	26	24	21	17	26	25	21	17	25	24	21	17	23	23	20	16	
	KW	20.05	20.47	21.12	21.80	21.59	22.06	22.76	23.51	22.95	23.46	24.22	25.02	24.15	24.69	25.50	26.36	25.18	25.74	26.59	27.49	26.06	26.64	27.53	28.47	
	AMPS	63.3	64.5	66.2	68.3	67.5	68.8	70.7	72.9	72.3	73.8	75.9	78.3	76.5	78.1	80.3	82.9	80.7	82.4	84.8	87.6	84.8	86.6	89.2	92.1	
	HI PR	274	295	311	325	307	331	349	364	350	376	397	414	398	428	452	472	448	482	509	531	495	533	562	587	
	LO PR	101	107	117	125	107	114	124	132	111	118	129	137	117	124	135	144	122	130	142	151	126	134	147	156	
80	7000	MBh	236.3	241.5	258.0	275.8	230.8	235.9	252.0	269.4	225.3	230.3	246.0	263.0	219.8	224.6	240.0	256.6	208.8	213.4	228.0	243.7	193.5	197.7	211.2	225.8
	S/T	0.85	0.79	0.65	0.48	0.88	0.82	0.67	0.50	0.90	0.84	0.69	0.51	0.93	0.87	0.71	0.53	0.96	0.90	0.74	0.55	0.97	0.91	0.74	0.55	
	Delta T	26	25	22	17	27	25	22	18	27	25	22	18	27	26	22	18	26	25	22	18	25	24	21	16	
	KW	19.89	20.31	20.95	21.62	21.42	21.88	22.58	23.32	22.77	23.26	24.02	24.82	23.96	24.49	25.29	26.14	24.97	25.52	26.37	27.26	25.84	26.42	27.30	28.23	
	AMPS	62.8	64.0	65.8	67.8	67.0	68.3	70.2	72.4	71.8	73.2	75.3	77.7	75.9	77.5	79.7	82.3	80.1	81.7	84.1	86.9	84.1	85.9	88.5	91.4	
	HI PR	271	292	308	321	304	328	346	361	346	372	393	410	394	424	448	467	444	477	504	526	490	527	557	581	
	LO PR	100	106	116	124	106	112	123	131	110	117	128	136	115	123	134	143	121	129	140	150	125	133	145	155	
5600	MBh	218.1	222.9	238.1	254.6	213.1	217.7	232.6	248.6	208.0	212.5	227.1	242.7	202.9	207.3	221.5	236.8	192.8	197.0	210.4	225.0	178.6	182.5	194.9	208.4	
	S/T	0.82	0.76	0.62	0.47	0.85	0.79	0.65	0.48	0.87	0.81	0.66	0.49	0.89	0.84	0.68	0.51	0.93	0.87	0.71	0.53	0.94	0.88	0.71	0.53	
	Delta T	29	28	24	19	30	28	25	20	30	28	25	20	30	29	25	20	29	28	24	20	27	26	23	18	
	KW	19.42	19.82	20.45	21.10	20.90	21.35	22.03	22.74	22.21	22.69	23.42	24.19	23.36	23.87	24.65	25.48	24.34	24.88	25.70	26.57	25.19	25.75	26.61	27.51	
	AMPS	61.4	62.6	64.3	66.2	65.4	66.7	68.6	70.7	70.1	71.5	73.5	75.8	74.1	75.7	77.8	80.3	78.2	79.8	82.1	84.8	82.1	83.9	86.3	89.2	
	HI PR	263	283	299	312	295	318	335	350	336	361	382	398	382	412	435	453	430	463	489	510	475	512	540	563	
	LO PR	97	103	113	120	103	109	119	127	107	113	124	132	112	119	130	138	117	125	136	145	121	129	141	150	
7875	MBh	247.7	252.5	264.4	282.1	241.9	246.6	258.3	275.5	236.2	240.7	252.1	269.0	230.4	234.8	246.0	262.4	218.9	223.1	233.7	249.3	202.7	206.7	216.4	230.9	
	S/T	0.93	0.90	0.81	0.66	0.96	0.93	0.84	0.68	0.99	0.95	0.86	0.70	1.00	0.98	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.93	0.75	
	Delta T	27	26	25	22	27	27	25	22	27	27	25	22	27	27	26	22	26	26	25	22	24	24	23	20	
	KW	20.21	20.64	21.29	21.98	21.76	22.24	22.95	23.70	23.14	23.65	24.42	25.23	24.35	24.89	25.72	26.58	25.39	25.95	26.82	27.72	26.28	26.87	27.77	28.71	
	AMPS	63.7	65.0	66.7	68.8	68.0	69.3	71.2	73.5	72.9	74.4	76.5	78.9	77.1	78.7	81.0	83.6	81.3	83.1	85.5	88.3	85.5	87.3	89.9	92.9	
	HI PR	277	298	314	328	310	334	353	368	353	380	401	419	402	433	457	477	452	487	514	536	500	538	568	592	
	LO PR	102	109	119	126	108	115	125	133	112	119	130	139	118	125	137	146	123	131	143	153	128	136	148	158	
85	7000	MBh	240.5	245.1	256.7	273.9	234.9	239.4	250.7	267.5	229.3	233.7	244.8	261.1	223.7	228.0	238.8	254.8	212.5	216.6	226.9	242.0	196.8	200.6	210.1	224.2
	S/T	0.89	0.86	0.77	0.63	0.92	0.89	0.80	0.65	0.94	0.91	0.82	0.67	0.97	0.94	0.85	0.69	1.00	0.97	0.88	0.71	1.00	0.98	0.89	0.72	
	Delta T	28	28	26	23	28	28	26	23	28	28	26	23	29	28	27	23	28	28	26	23	26	26	24	21	
	KW	20.05	20.47	21.12	21.80	21.59	22.06	22.76	23.51	22.95	23.46	24.22	25.02	24.15	24.69	25.50	26.36	25.18	25.74	26.59	27.49	26.06	26.64	27.53	28.47	
	AMPS	63.3	64.5	66.2	68.3	67.5	68.8	70.7	72.9	72.3	73.8	75.9	78.3	76.5	78.1	80.3	82.9	80.7	82.4	84.8	87.6	84.8	86.6	89.2	92.1	
	HI PR	274	295	311	325	307	331	349	364	350	376	397	414	398	428	452	472	448	482	509	531	495	533	562	587	
	LO PR	101	107	117	125	107	114	124	132	111	118	129	137	117	124	135	144	122	130	142	151	126	134	147	156	
5600	MBh	221.9	226.2	236.9	252.8	216.8	221.0	231.4	246.9	211.6	215.7	225.9	241.0	206.5	210.5	220.4	235.1	196.1	199.9	209.4	223.4	181.7	185.2	194.0	206.9	
	S/T	0.86	0.83	0.74	0.60	0.89	0.86	0.77	0.63	0.91	0.88	0.79	0.64	0.94	0.91	0.82	0.66	0.97	0.94	0.85	0.69	0.98	0.95	0.85	0.69	
	Delta T	31	31	29	25	32	31	29	25	32	31	29	25	32	31	30	26	31	31	29	25	29	29	27	24	
	KW	19.57	19.98	20.61	21.27	21.07	21.52	22.21	22.93	22.39	22.87	23.62	24.40	23.55	24.07	24.86	25.69	24.54	25.09	25.92	26.79	25.40	25.97	26.83	27.74	
	AMPS	61.9	63.1	64.8	66.7	65.9	67.2	69.1	71.2	70.6	72.1	74.1	76.4	74.7	76.2	78.4	80.9	78.8	80.4	82.7	85.4	82.8	84.5	87.0	89.9	
	HI PR	266	286	302	315	298	321	339	353	339	365	385	402	386	416	439	458	435	468	494	515	480	517	546	569	
	LO PR	98	104	114	121	104	110	120	128	108	114	125	133	113	120	131	140	118	126	138	147	123	130	142	152	

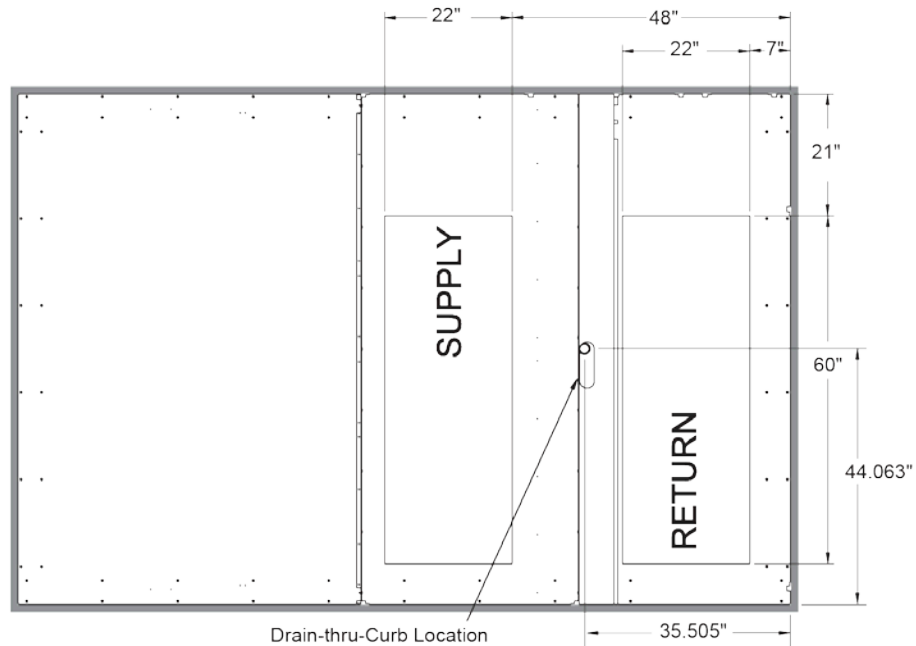
IDB = Entering Indoor Dry Bulb Temperature
 Shaded area reflects AHRI conditions
 KW = Total system power
 High and low pressures are measured at the liquid and suction service ports.
 Amps: Unit amps (comp.+ evaporator + condenser fan motors)

15-20 Ton
 Packaged Air Conditioners

Figure 19: Dimensional Data 15–20 Ton Units



Vertical Discharge Bottom View

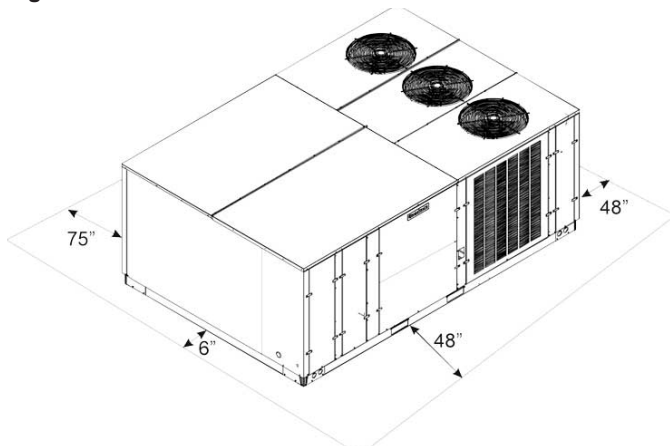


15–20 Ton
Packaged Air Conditioners

Unit Clearances

Maintain an adequate clearance around the unit for safety, service, maintenance, and proper unit operation. Leave a total clearance of 75" on the main control panel side of the unit for possible removal of fan shaft, coil, electric heat, and gas furnace. Leave a clearance of 48" on all other sides of the unit for possible compressor removal or service access, and to ensure proper ventilation and condenser airflow. Do not install the unit beneath any obstruction. Install the unit away from all building exhausts to inhibit ingestion of exhaust air into the unit's fresh-air intake.

Figure 20: Unit Clearances



Unit Rigging

Provisions for forklifts have been included in the unit base frame. No other forklift locations are approved.

- Unit must be lifted by the four lifting holes located at the base frame corners.
- Lifting cables should be attached to the unit with shackles.
- The distance between the crane hook and the top of the unit must not be less than 60".
- Two spreader bars must span over the unit to prevent damage to the cabinet by the lift cables. Spreader bars must be of sufficient length so that cables do not come in contact with the unit during transport. Remove wood struts mounted beneath unit base frame before setting unit on roof curb. These struts are intended to protect unit base frame from forklift damage. To remove the struts, extract the sheet metal retainers and pull the struts through the base of the unit. Refer to rigging label on the unit.

Important: If using bottom discharge with roof curb, duct-work should be attached to the curb prior to installing the unit. Duct-work dimensions are shown in Roof Curb Installation Instructions Manual.

Refer to the Roof Curb Installation Instructions for proper curb installation. Curbing must be installed in compliance with the National Roofing Contractors Association Manual.

Lower unit carefully onto roof mounting curb. While rigging the unit, the center of gravity will cause the condenser end to be lower than the supply air end.

Bring condenser end of unit into alignment with the curb. With condenser end of the unit resting on curb member and using curb as a fulcrum, lower opposite end of the unit until entire unit is seated on the curb. When a rectangular cantilever curb is used, take care to center the unit. Check for proper alignment and orientation of supply and return openings with duct.

Figure 21: Electrical Entrance Locations

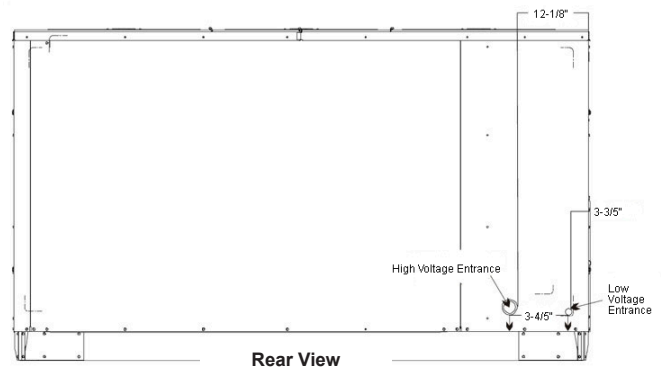


Figure 22: Unit Rigging

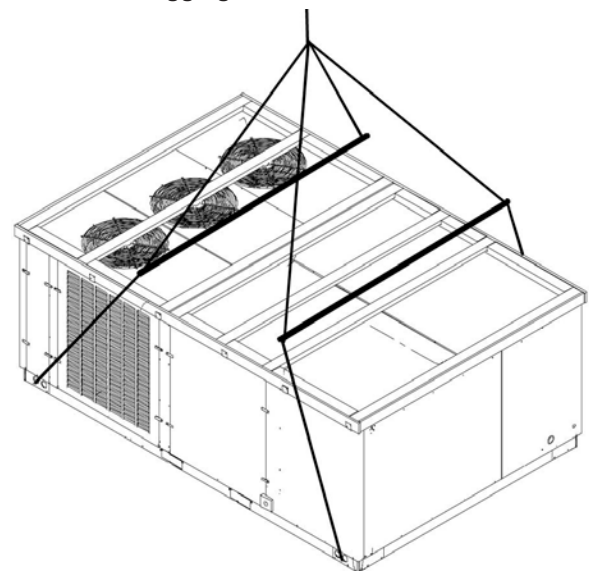


Figure 23: Corner and Center-of-Gravity Locations

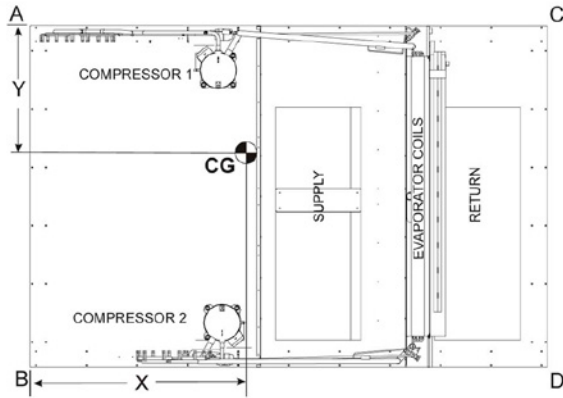


Table 59: 15–20 Ton Weights

Unit Weights (lbs.)	15 Ton		20 Ton	
	Gas	Cooler	Gas	Cooler
Corner Weight (A)	582	590	645	644
Corner Weight (B)	475	582	527	525
Corner Weight (C)	565	492	589	504
Corner Weight (D)	461	401	481	412
Unit Shipping Weight	2198	2080	2357	2202
Unit Operating Weight	2083	1965	2242	2085

Note: Weights are calculated without accessories installed.

Proper unit installation requires that the roof curb be firmly and permanently attached to the roof structure. Check for adequate fastening method prior to setting the unit on the curb.

Full perimeter roof curbs are available from the factory and are shipped unassembled. The installing contractor is responsible for field assembly, squaring, leveling, and mounting on the roof structure. All required hardware necessary for the assembly of the sheet metal curb is included in the curb accessory package.

- Determine sufficient structural support before locating and mounting the curb and package unit.
- Duct-work must be constructed using industry guidelines. The duct-work must be placed into the roof curb before mounting the package unit. Our full perimeter curbs include duct connection frames to be assembled with the curb. Cantilevered-type curbs are not available from the factory.
- Contractor furnishes curb insulation, cant strips, flashing, and general roofing material.
- Support curbs on parallel sides with roof members. To prevent damage to the unit, the roof members cannot penetrate supply and return duct openings.

NOTE: The unit and curb accessories are designed to allow vertical duct installation before unit placement. Duct installation after unit placement is not recommended.

See the manual shipped with the roof curb for assembly and installation instructions.

Roof Curb Installation

Curb installations must comply with local codes and should follow the established guidelines of the National Roofing Contractors Association.

Figure 24: 180–240 Roof Curb

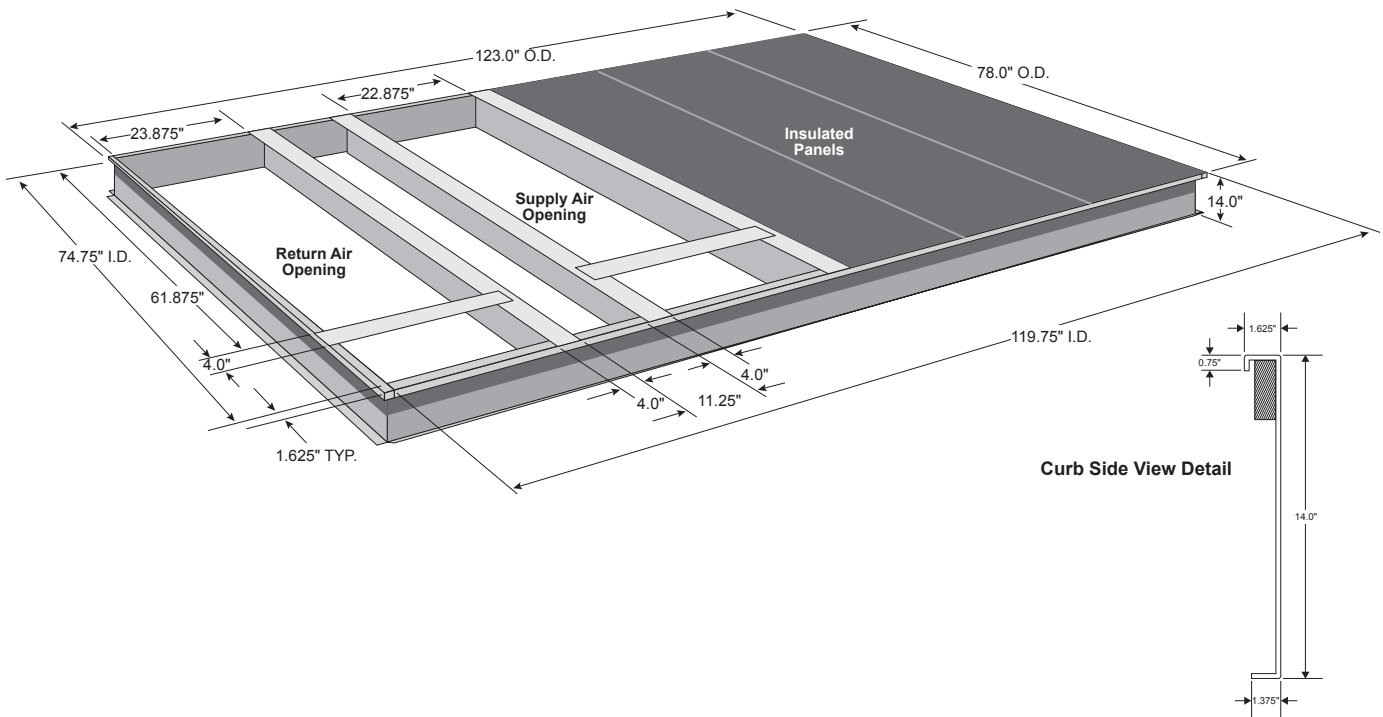
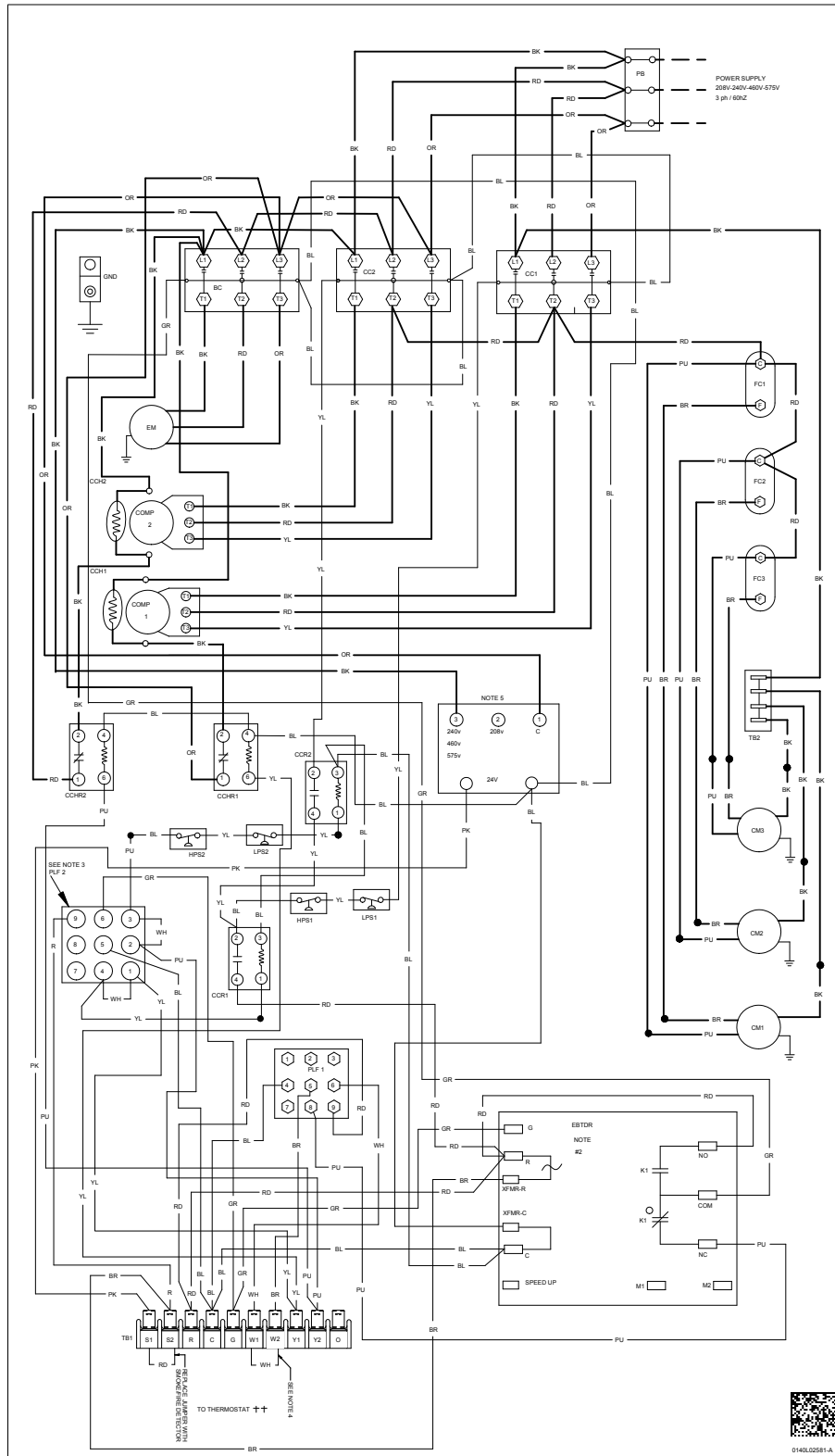


Figure 25: Wiring Diagram — DCC 15 and 20 Tons (230V/460V/575V, 3-Phase Belt-Drive)

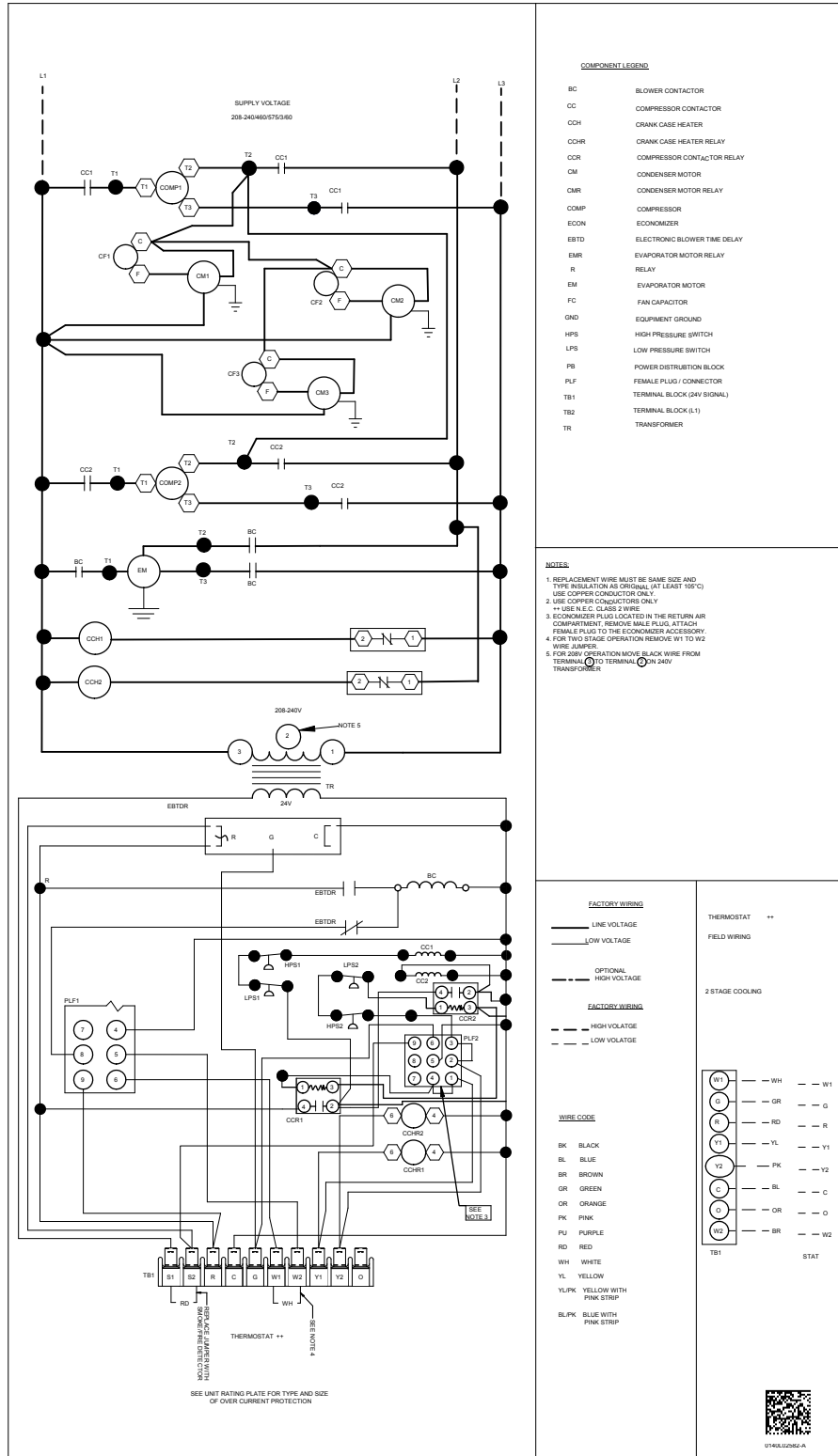


15-20 Ton
Packaged Air Conditioners

⚠ WARNING

Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring. **High Voltage:** Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

Figure 25 continued: Wiring Diagram — DCC 15 and 20 Tons (230V/460V/575V, 3-Phase Belt-Drive)



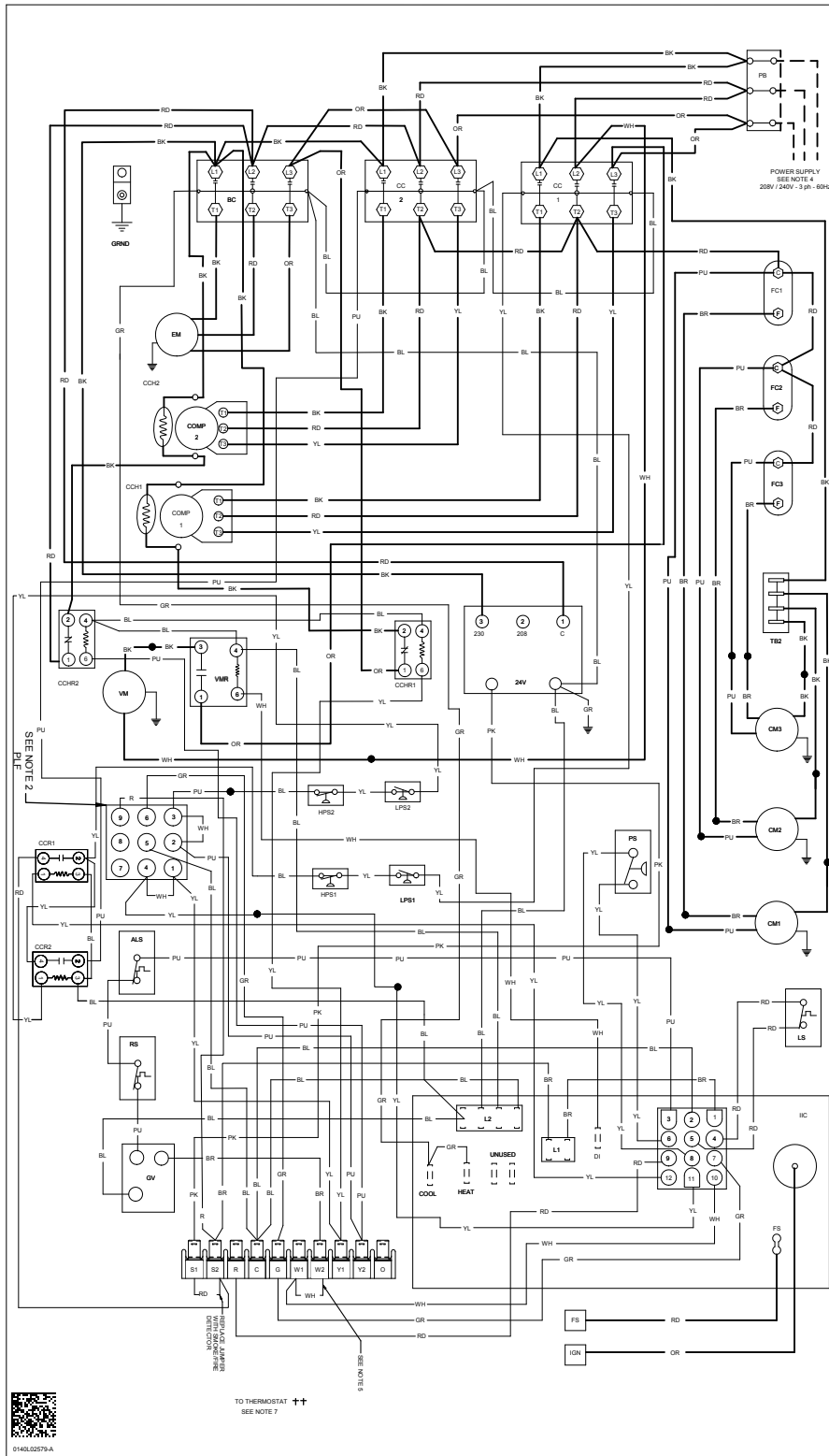
15-20 Ton
Packaged Air Conditioners



WARNING

Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring. **High Voltage:** Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

Figure 26: Wiring Diagram — DCG 15 and 20 Tons (230V Three-Phase Belt-Drive)

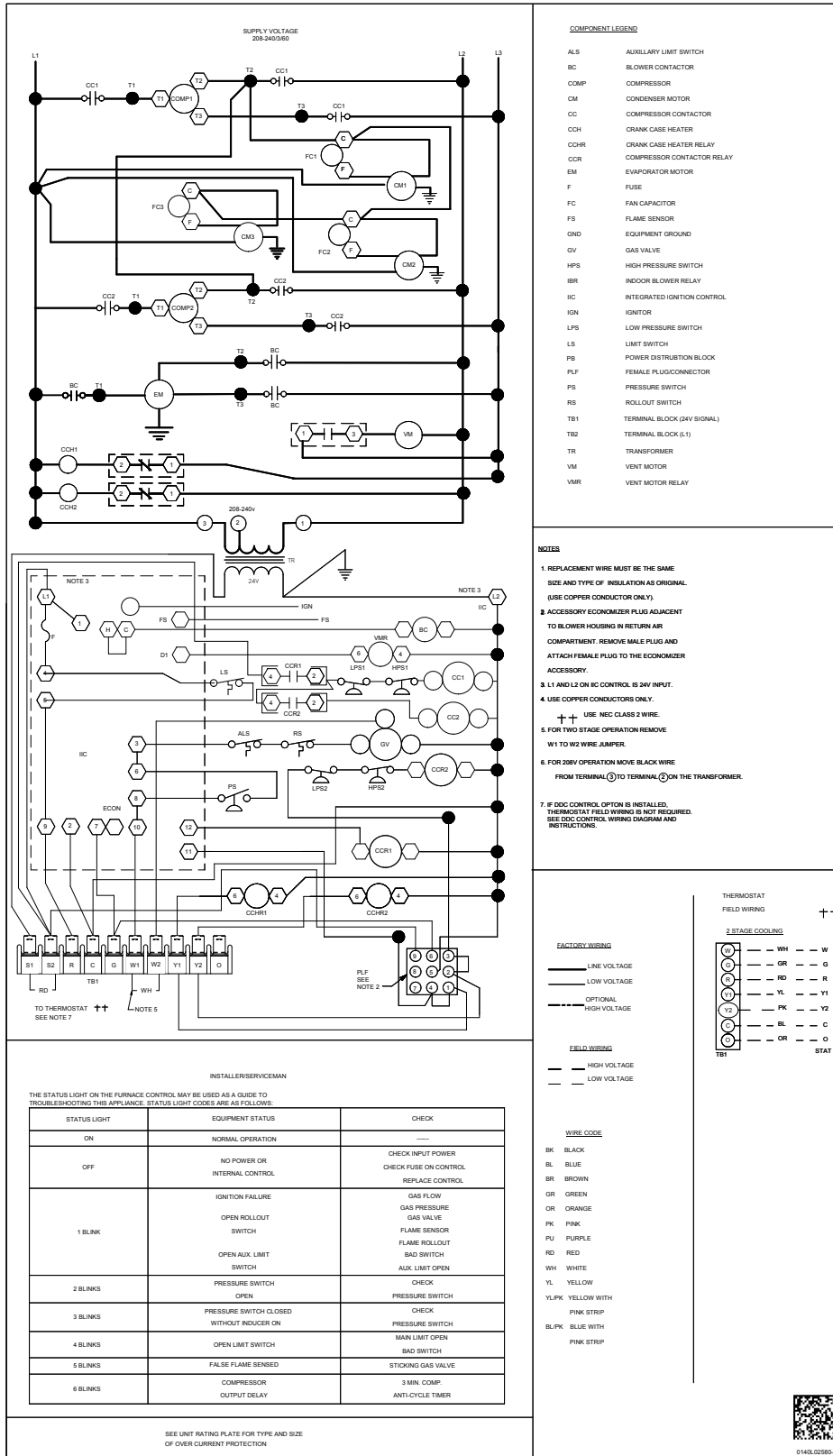


15-20 Ton
Packaged Air Conditioners

WARNING

Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring. **High Voltage:** Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

Figure 26 continued: Wiring Diagram — DCG 15 and 20 Tons (230V Three-Phase Belt-Drive)



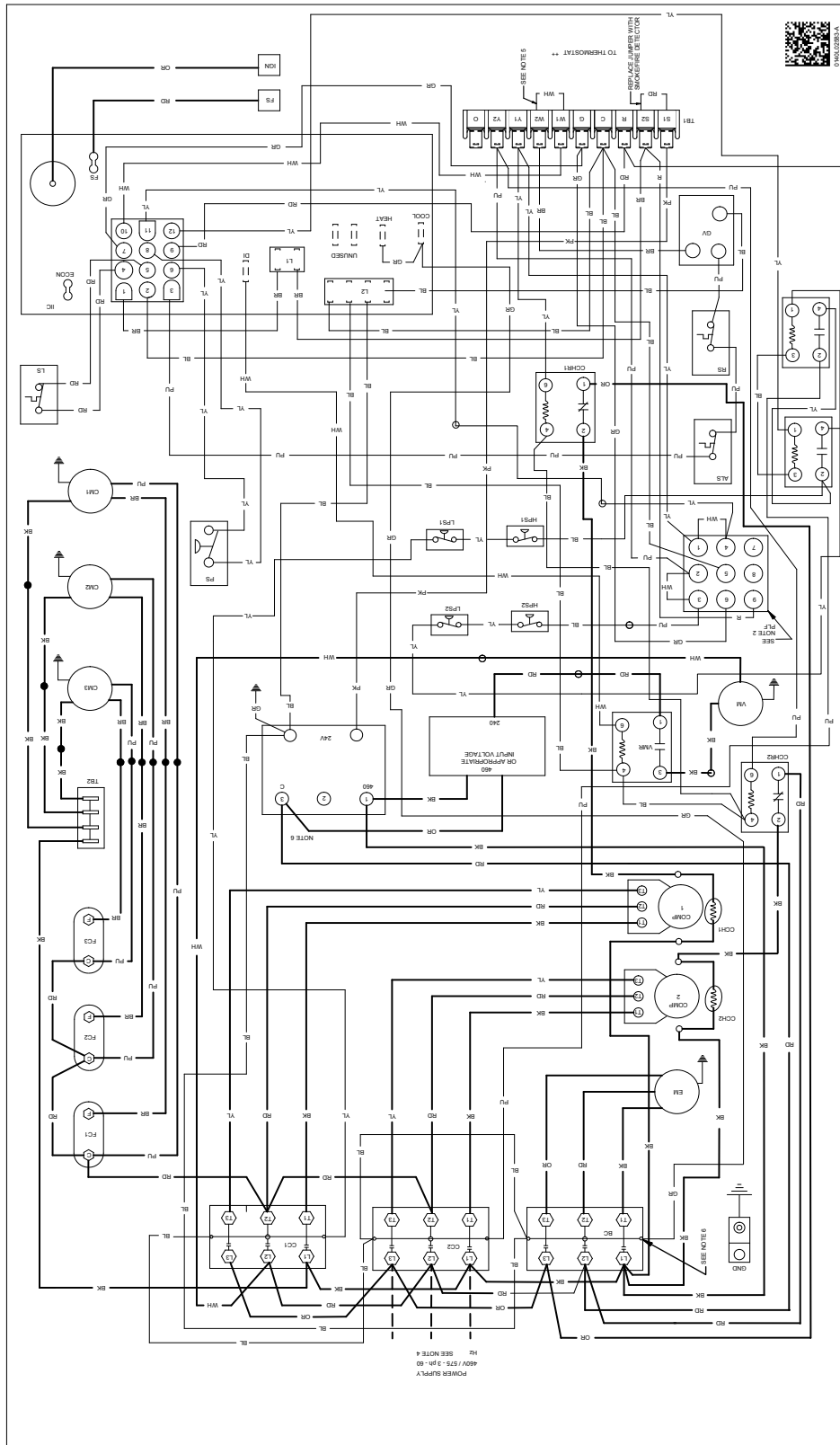
15-20 Ton Packaged Air Conditioners



WARNING

Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring. **High Voltage:** Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

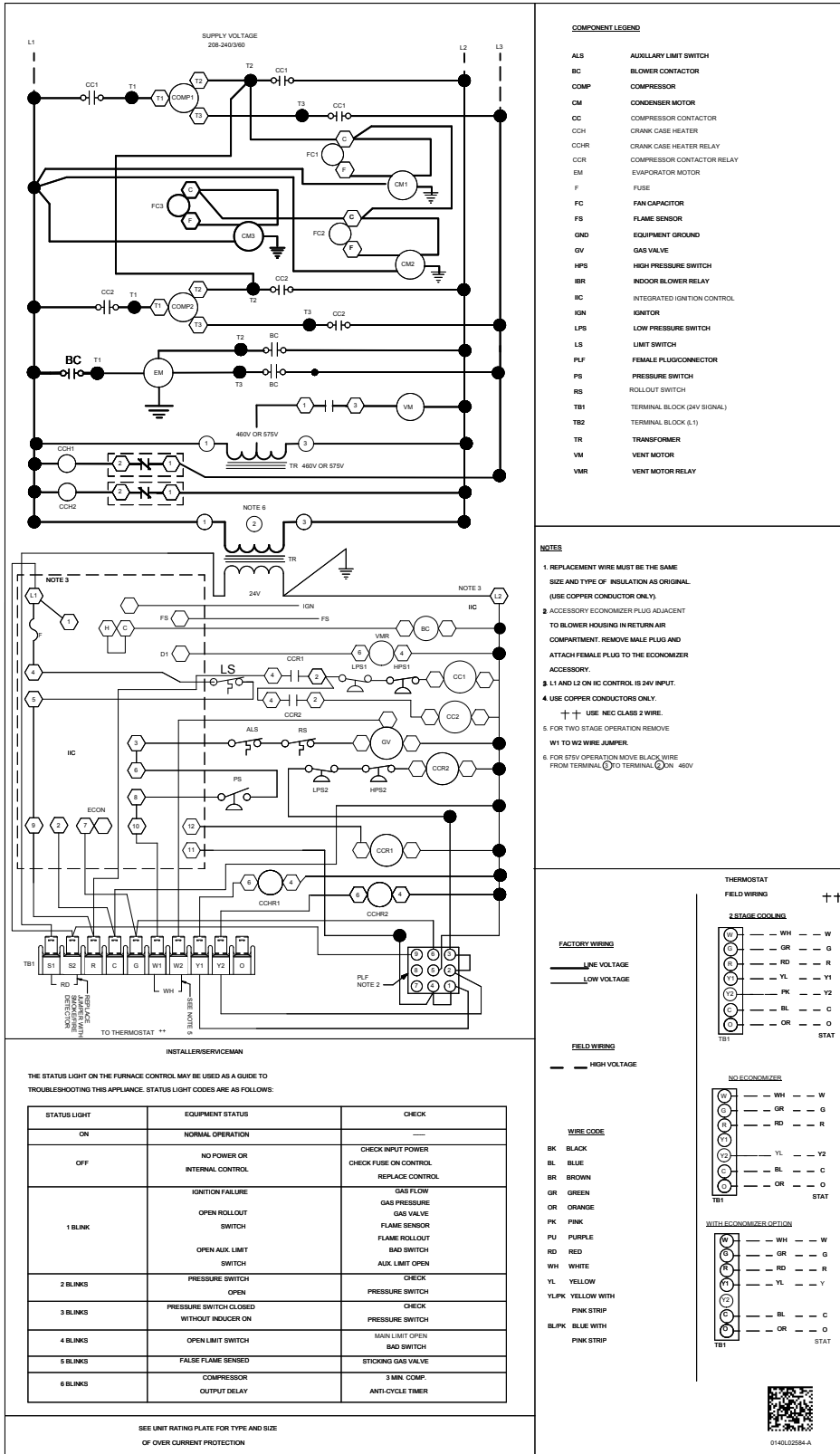
Figure 27: Wiring Diagram — DCG 15 and 20 Tons (460V/ 575V 3-Phase Belt-Drive)



15-20 Ton
Packaged Air Conditioners

WARNING
Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring. **High Voltage:** Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

Figure 27 continued: Wiring Diagram — DCG 15 and 20 Tons (460V/ 575V 3-Phase Belt-Drive)



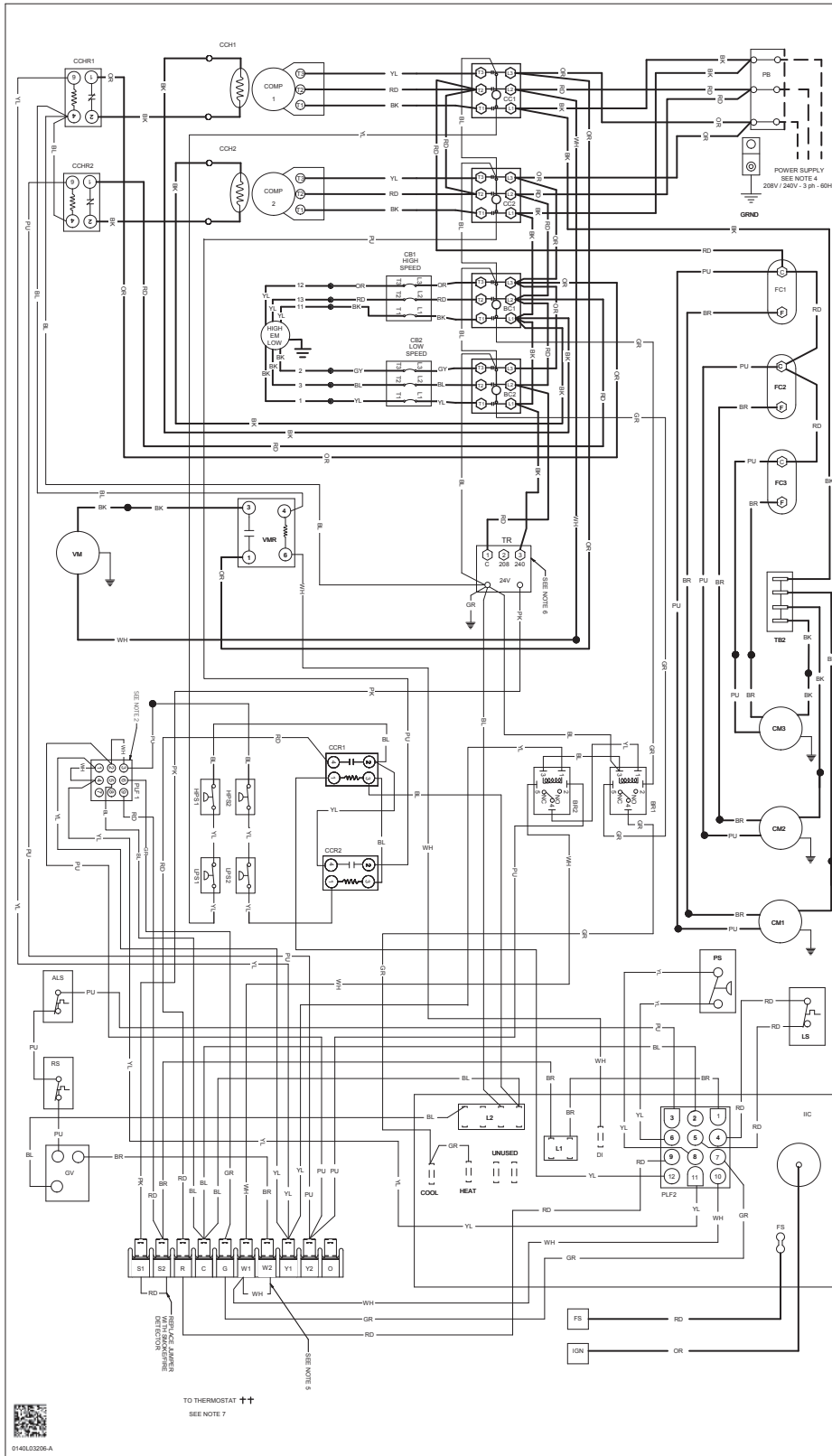
15-20 Ton
Packaged Air Conditioners



WARNING

Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring. **High Voltage:** Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

Figure 28: Wiring Diagram — DCG 15 and 20 Tons (230V 2-Speed Belt-Drive)



WARNING

High Voltage: Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

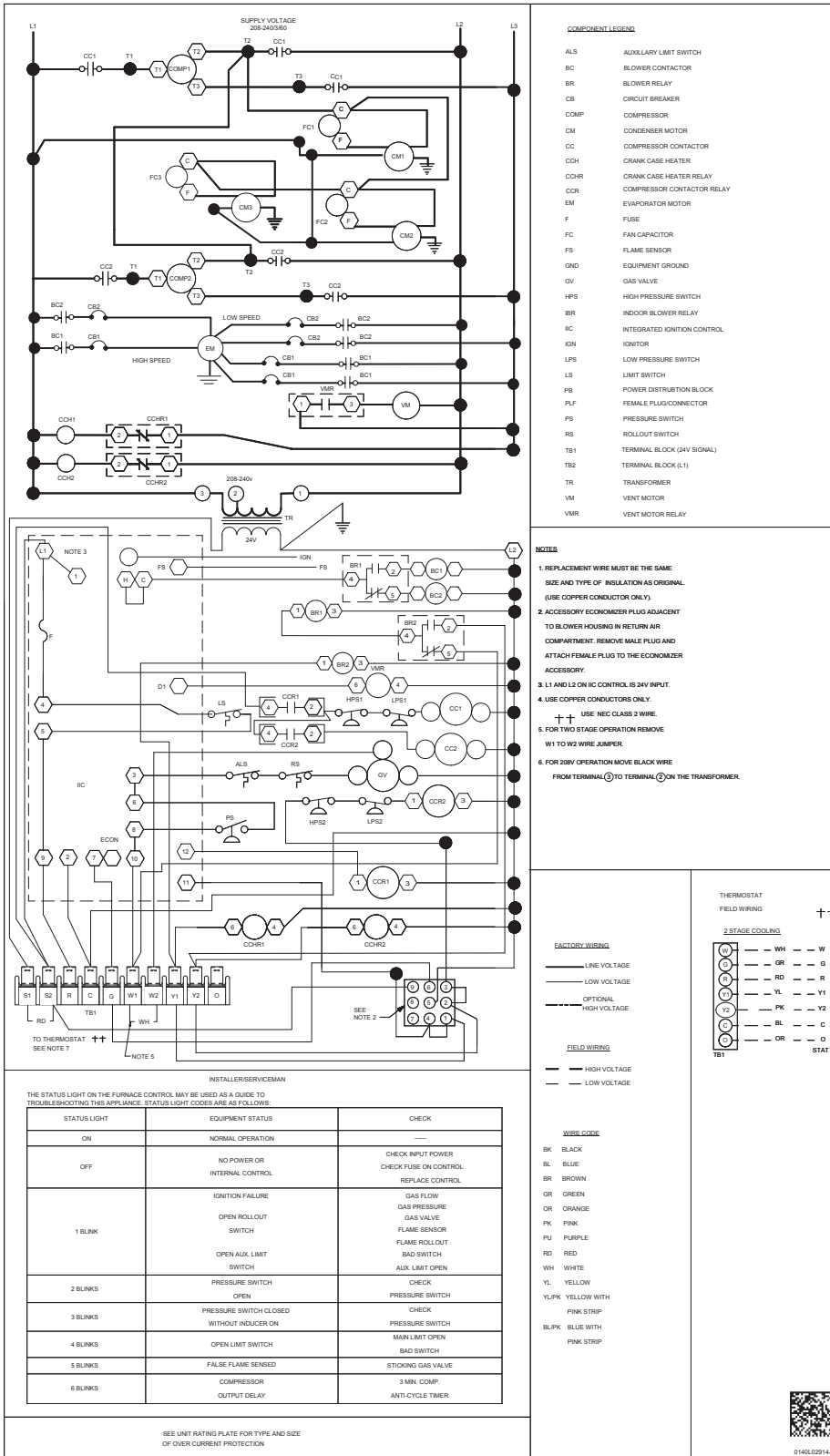
Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring.

15-20 Ton Packaged Air Conditioners

WARNING

Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring. **High Voltage:** Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

Figure 28 continued: Wiring Diagram — DCG 15 and 20 Tons (230V 2-Speed Belt-Drive)



High Voltage: Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

WARNING

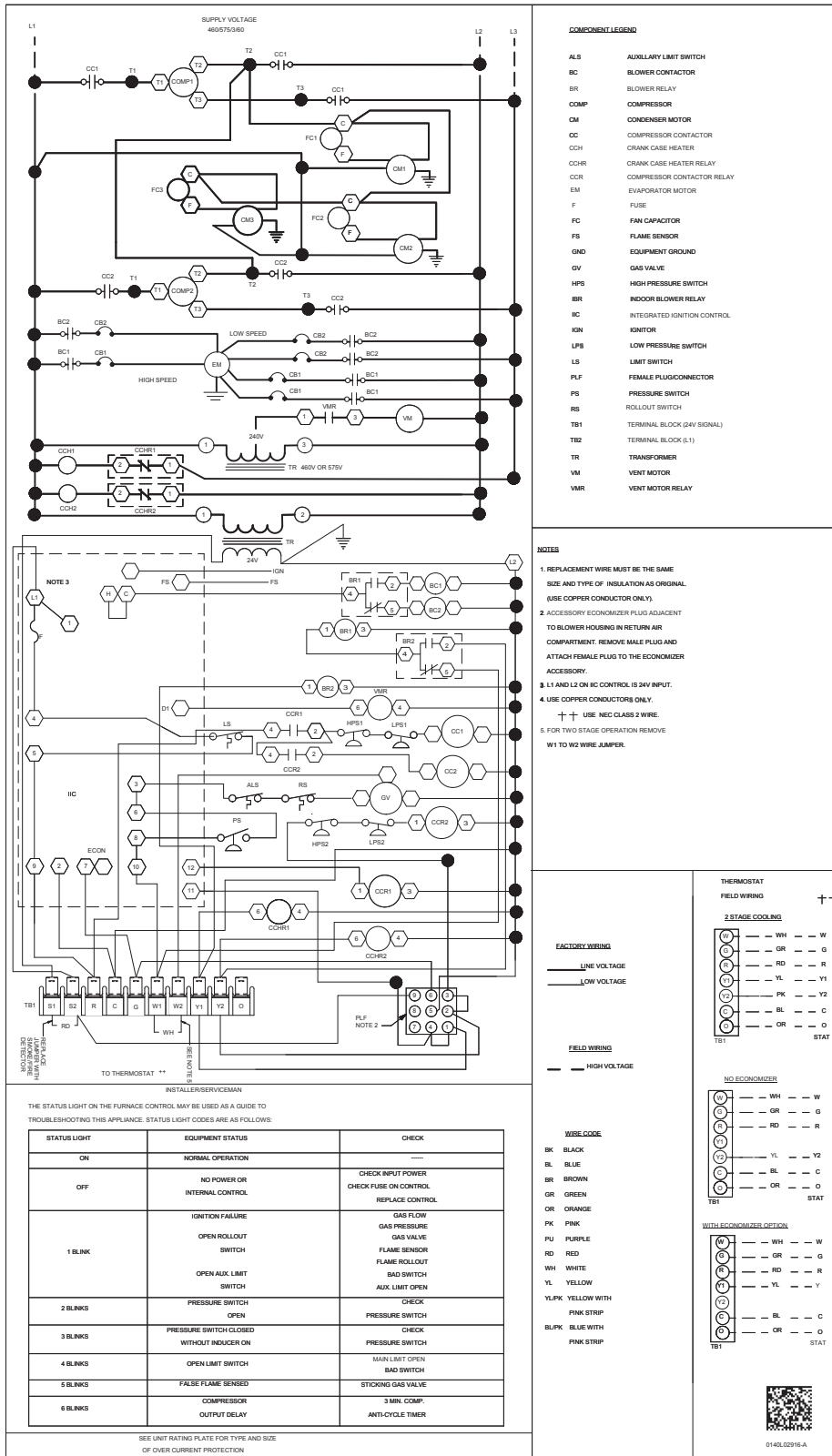
Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring.

15-20 Ton Packaged Air Conditioners

WARNING

Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring. **High Voltage:** Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

Figure 29 continued: Wiring Diagram — DCG 15 and 20 Tons (460V/ 575V 2-Speed Belt-Drive)



High Voltage: Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

WARNING

Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring.

WARNING

Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring. **High Voltage:** Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

Table 60: Field Accessories—Models DCC, DCG and DCH 036–240

Description	Item Number	Fits Model Sizes	Field-Installed	Factory-Installed	
14" Roof Curb	14CURB3672B	3–6 tons	✓		
	14CURB90150	7.5–12.5 tons	✓		
	14CURB180240	15–20 tons	✓		
25% Manual Fresh Air Damper	D25FD3672	3–6 tons	✓		
	D25FD90150	7.5–12.5 tons	✓		
	D25FD180240	15–20 tons	✓		
25% Motorized Fresh Air Damper	D25MFD3672	3–6 tons	✓		
	D25MFD90150	7.5–12.5 tons	✓		
	D25MFD180240	15–20 tons	✓		
Burglar Bar Sleeves Includes Supply & Return	DNBBS3672B	3–6 tons	✓		
	DNBBS90150	7.5–12.5 tons	✓		
	DNBBS180240	15–20 tons	✓		
Concentric Duct Kit	CDK36	3 tons	✓		
	CDK4872	4–6 tons	✓		
	CDK90102	7.5–8.5 tons	✓		
	CDK120	10.0 tons	✓		
	CDK150	12.5 tons	✓		
	CDK180	15 tons	✓		
Condenser Coil Hail Guard (Standard on 15–20 Ton Units)	CDK240	20 tons	✓		
	HAILGD03D	3–5 tons	✓		
	HAILGD04D	6 tons	✓		
	HAILGD02D	7.5–8.5 tons	✓		
	HAILGD05D	12 tons	✓		
Downflow Economizer	DDNECNJ3672	3–6 tons	✓	✓	
	DDNECNJ90150	7.5–12.5 tons	✓	✓	
	DDNECNJ180240B	15–20 tons	✓	✓	
Downflow Square-to-Round Adapter	16" Round DDNSQRD16	3 tons	✓		
	18" Round DDNSQRD18	4–6 tons	✓		
	20" Round DDNSQRD20	4–6 tons	✓		
High-Static Kit (230/460v)	HSKT036B	3 tons	✓		
	HSKT048B	4 tons	✓		
	HSKT060B	5 tons	✓		
	HSKT072B	6 tons	✓		
	HSKT090G ^{1,2}	7.5 tons	✓		
	HSKT090 ¹	7.5–8.5 tons	✓		
	HSKT120 ¹	10.0 tons	✓		
	HSKT150 ¹	12.5 tons	✓		
	HSKT180G	15 tons	✓		
	HSKT240	20 tons	✓		
Horizontal Economizer	DHZEENJ3672	3–6 tons	✓		
	DHZEENJ90150	7.5–12.5 tons	✓		
Horizontal Discharge Curb	Side Discharge; duct openings on non-service side HZCURB180240SDN	15–20 tons	✓		
	Side Discharge; duct openings on service side HZCURB180240SDS	15–20 tons	✓		
Low-Ambient Kit	LAKT01	3–6 tons	✓	✓	
	LAKT02	7.5–12.5 tons	✓	✓	
	LAKT03 (for units with serial numbers >0909)	7.5–12.5 tons	✓	✓	
	LAKT03	15–20 tons	✓	✓	
LP Conversion Kit	LPT-03 ³ (DCG036045 only)	3 tons	✓		
	LPM-06 ³	3–6 tons	✓		
	LPKT90150	7.5–12.5 tons	✓		
	LPKT180300A	15–20 tons	✓		
Power Exhaust	DPE36722	3–6 tons	✓		
	208/230 Volt	DPE901502	7.5–12.5 tons	✓	
		DPE1802402	15–20 tons	✓	
	460 Volt	DPE36724	3–6 tons	✓	
		DPE901504	7.5–12.5 tons	✓	
	DPE1802404	15–20 tons	✓		
Horizontal Barometric Relief Damper ⁴	DBRD3672	All Models	✓		
Electric Heat Kits*	—	All Models	✓	✓	
Hurricane Restraint Clip	GHRC-1	All Models	✓		
High-Altitude Kit	HA-02 ³	All Models	✓		
	HAKT36300	All Models	✓		
Convenience Outlet: Non Powered	—	All Models		✓	
Convenience Outlet: Powered	—	All Models		✓	
Disconnect Switch (non-fused)	—	All Models		✓	
Smoke Detector	—	All Models		✓	
Stainless-Steel Heat Exchanger (Type 409) ³	—	All Models		✓	

* DCC units only

1. DCG High Static Kit (HSKT) are provided for standard single-speed belt-drive units only

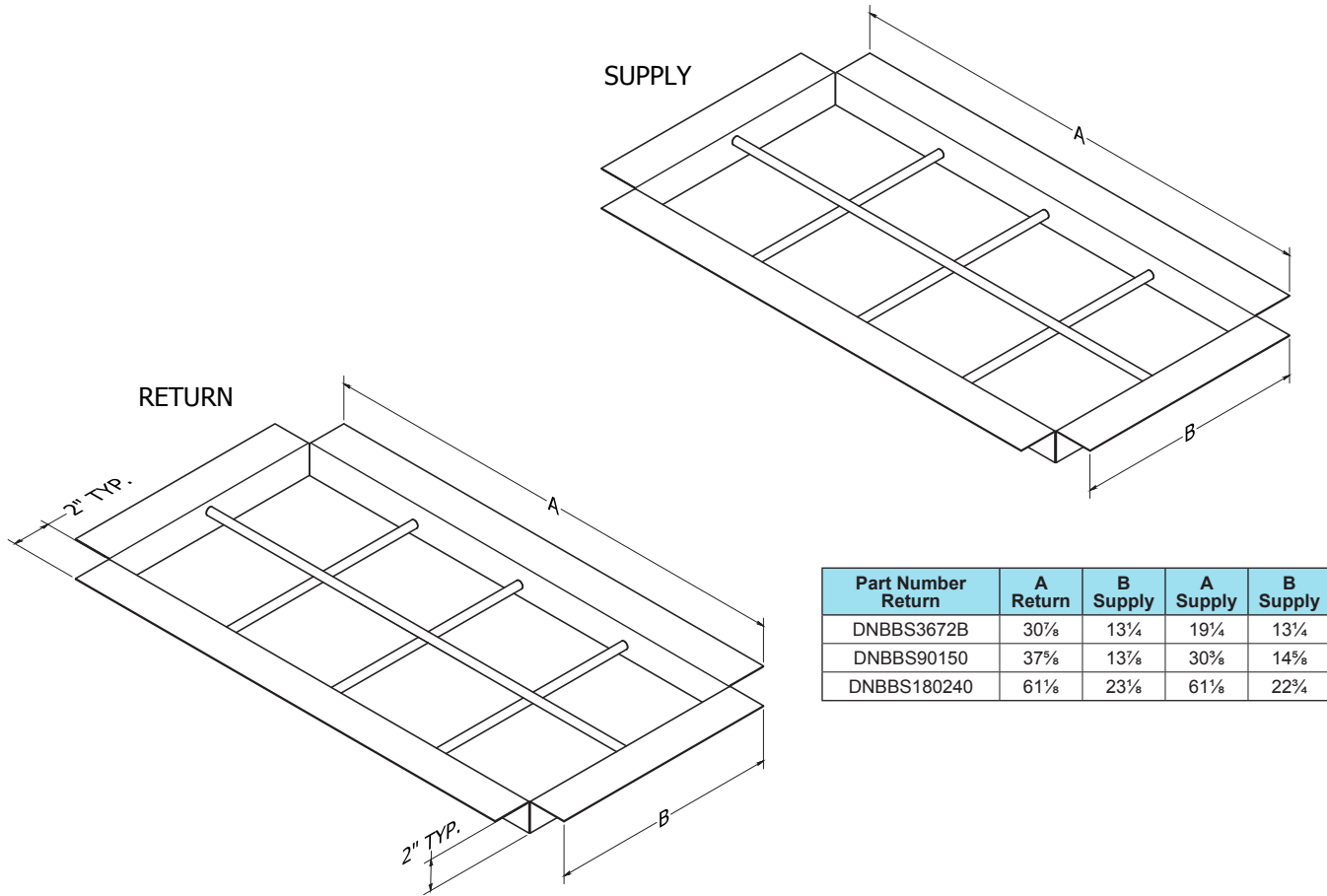
2. DCC and DCG units only

3. DCG units only

4. 3–6 ton units require (1); 7.5–12.5 ton units require (2)

Burglar Bar Sleeve

Figure 30: Dimensions—Burglar Bar Sleeve



Part Number Return	A Return	B Supply	A Supply	B Supply
DNBBS3672B	30 $\frac{1}{8}$ "	13 $\frac{3}{4}$ "	19 $\frac{1}{4}$ "	13 $\frac{3}{4}$ "
DNBBS90150	37 $\frac{1}{8}$ "	13 $\frac{3}{8}$ "	30 $\frac{1}{8}$ "	14 $\frac{1}{4}$ "
DNBBS180240	61 $\frac{1}{8}$ "	23 $\frac{3}{8}$ "	61 $\frac{1}{8}$ "	22 $\frac{3}{4}$ "

Specifications

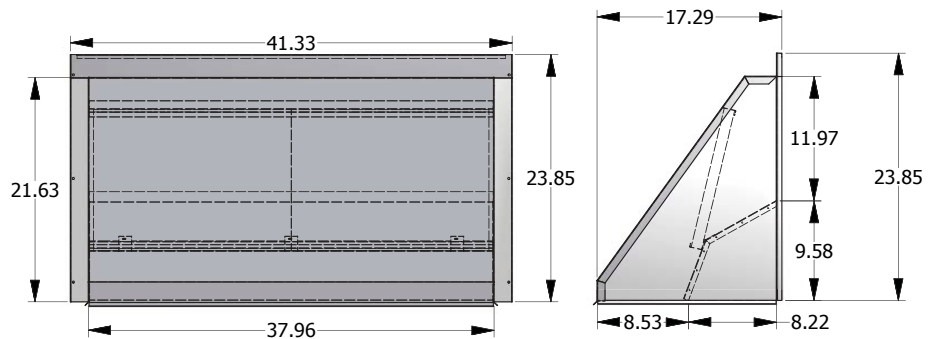
- Fully welded 18 gauge sleeve
- Fully welded 1/2" bars
- 8" openings standard
- Supply and return sleeves packaged together

Downflow Economizer

Figure 31: Dimensions—Downflow Economizer, 036–072 Model Sizes

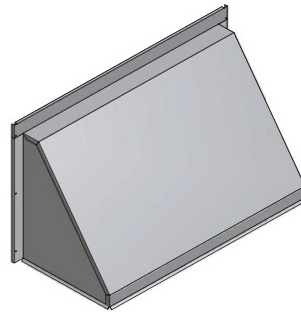


Damper

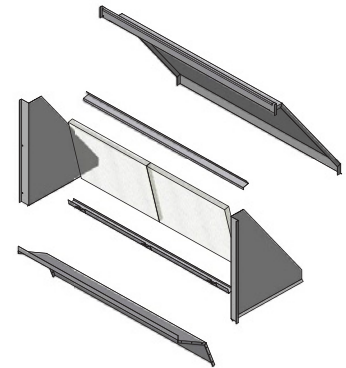


FRONT VIEW

SIDE VIEW



Hood

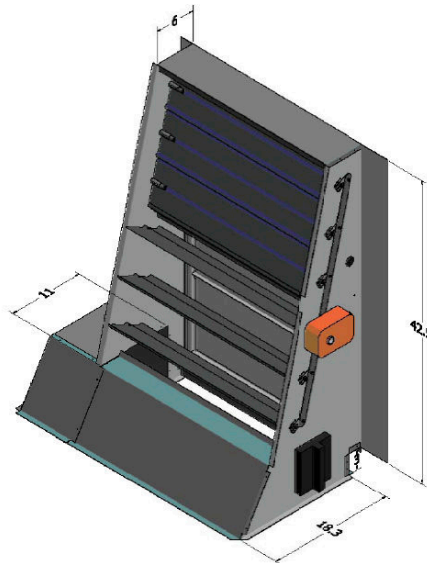


**BACK VIEW
Disassembled**

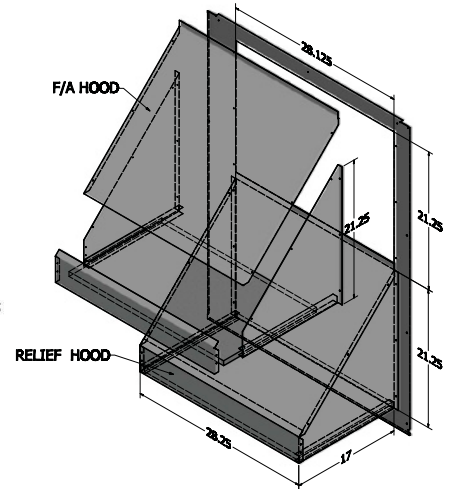
Specifications

- Fully modulating
- Up to 100% fresh air
- Integral barometric relief
- Hoods painted to match unit
- Honeywell economizer control
- Single adjustable enthalpy control convertible to dual enthalpy
- Adjustable minimum fresh air
- Factory wired
- Gas/electric (GS) and heat pump (HP) models available
- Fits all models 3 - 6 tons

Figure 32: Dimensions—Downflow Economizer, 090–150 Model Sizes



Damper Assembly

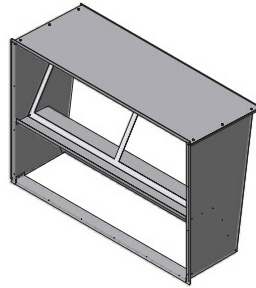


FRONT VIEW

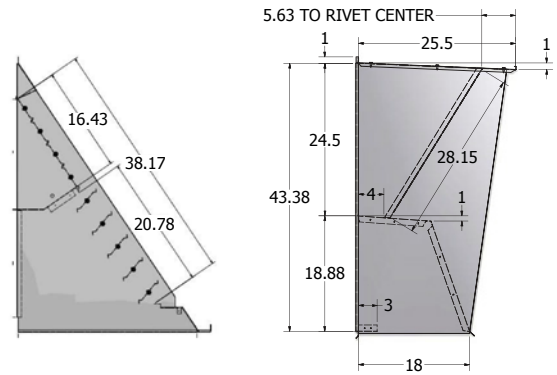
Specifications

- Fully modulating
- Up to 100% fresh air
- Integral barometric relief
- Hoods painted to match unit
- Honeywell economizer control
- Single adjustable enthalpy control convertible to dual enthalpy
- Adjustable minimum fresh air
- Factory wired
- Gas/electric (GS) and heat pump (HP) models available
- Fits all models 7.5 – 12.5 tons

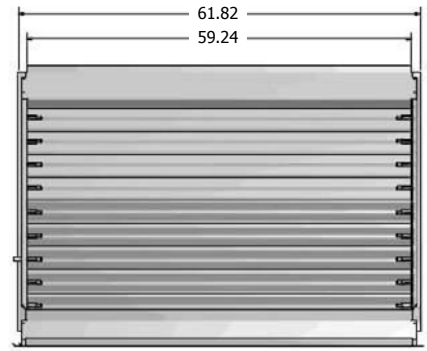
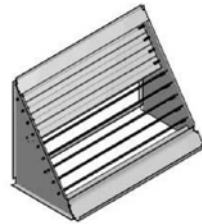
Figure 33: Dimensions—Downflow Economizer, 180–240 Model Sizes



BACK VIEW



SIDE VIEW



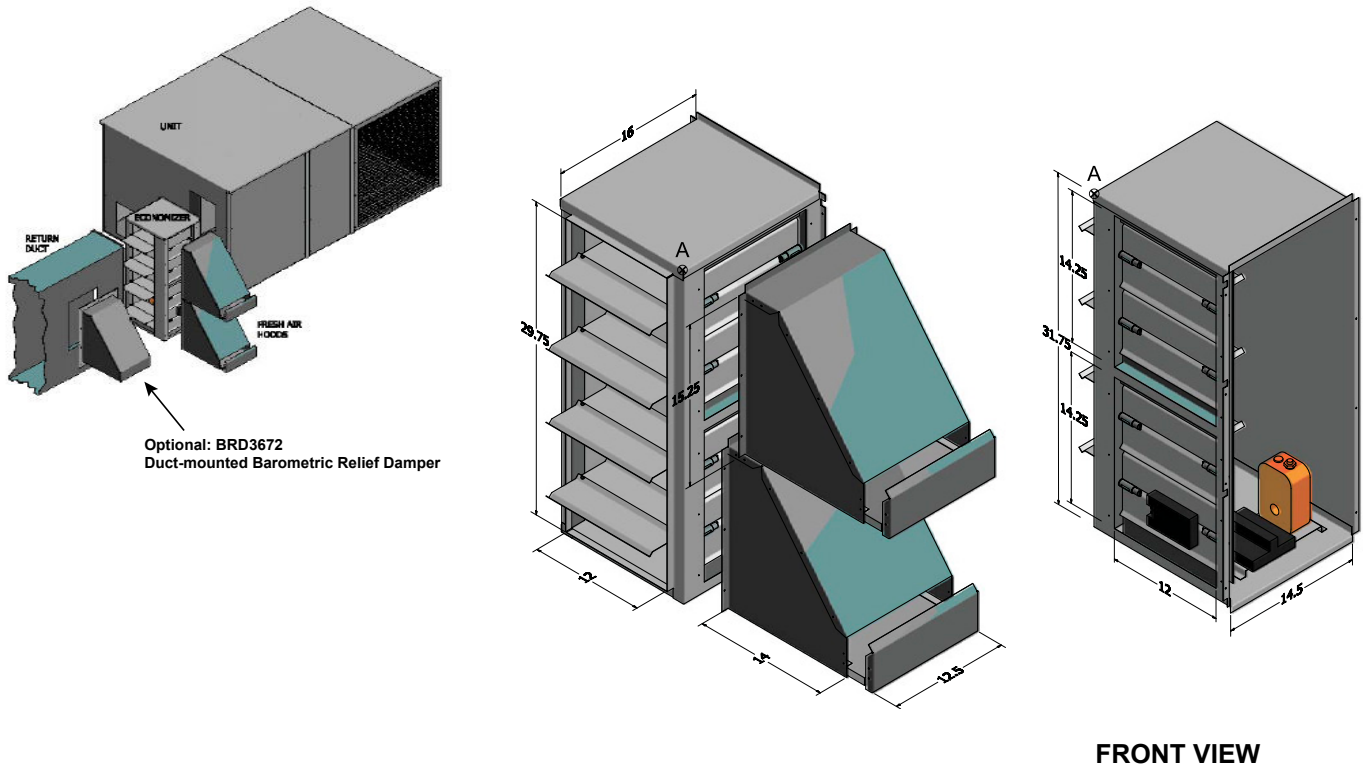
FRONT VIEW

Specifications

- Fully modulating
- Up to 100% fresh air
- Integral barometric relief
- Hoods painted to match unit
- Honeywell economizer control
- Single adjustable enthalpy control convertible to dual enthalpy
- Adjustable minimum fresh air
- Factory wired
- Gas/electric (gs) for 15 - 20 ton. Heat pump (hp) for 15 ton
- Fits all models 15 - 20 tons

Horizontal Economizer

Figure 34: Dimensions—Horizontal Economizer, 036–072 Model Sizes

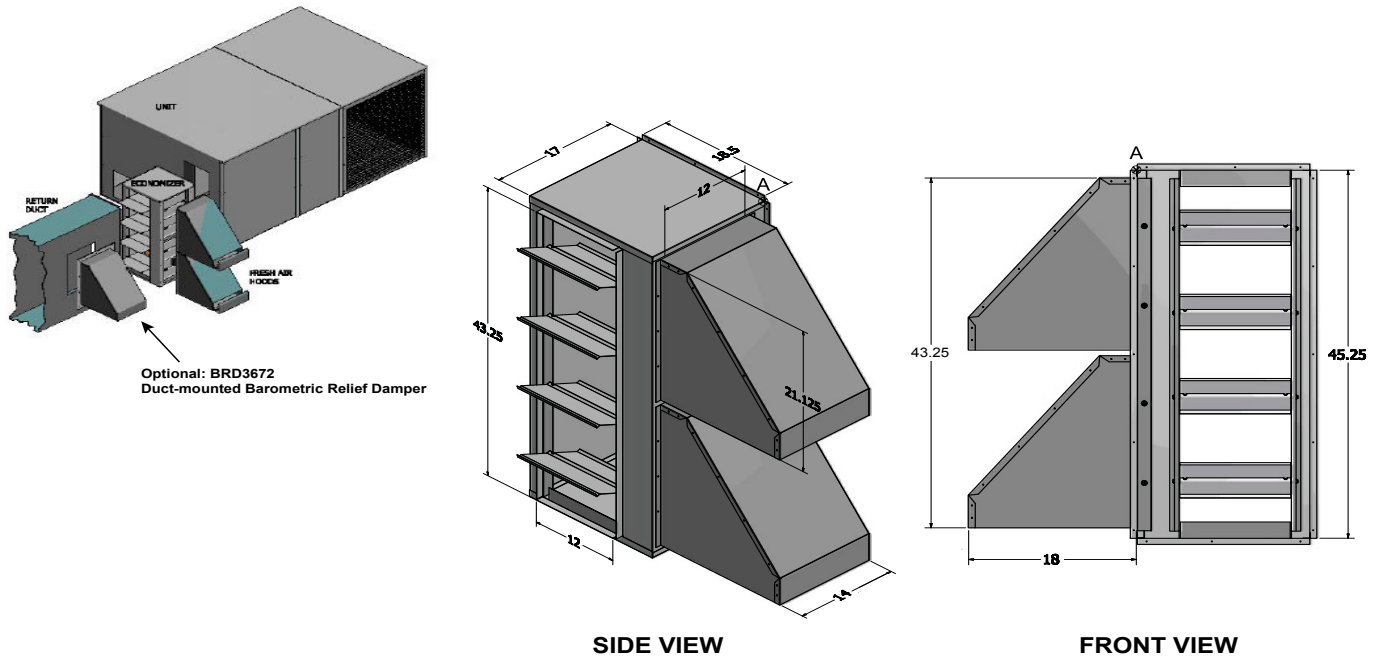


Specifications

- Fully modulating
- Up to 100% fresh air
- Honeywell economizer control
- Single adjustable enthalpy control convertible to dual enthalpy
- Adjustable minimum fresh air
- Factory wired
- Gas/electric (GS) and heat pump (HP) models available
- Fits all models 3 - 6 tons

3–6 ton units require (1); 7.5–12.5 ton units require (2)

Figure 35: Dimensions—Horizontal Economizer, 090–150 Model Sizes



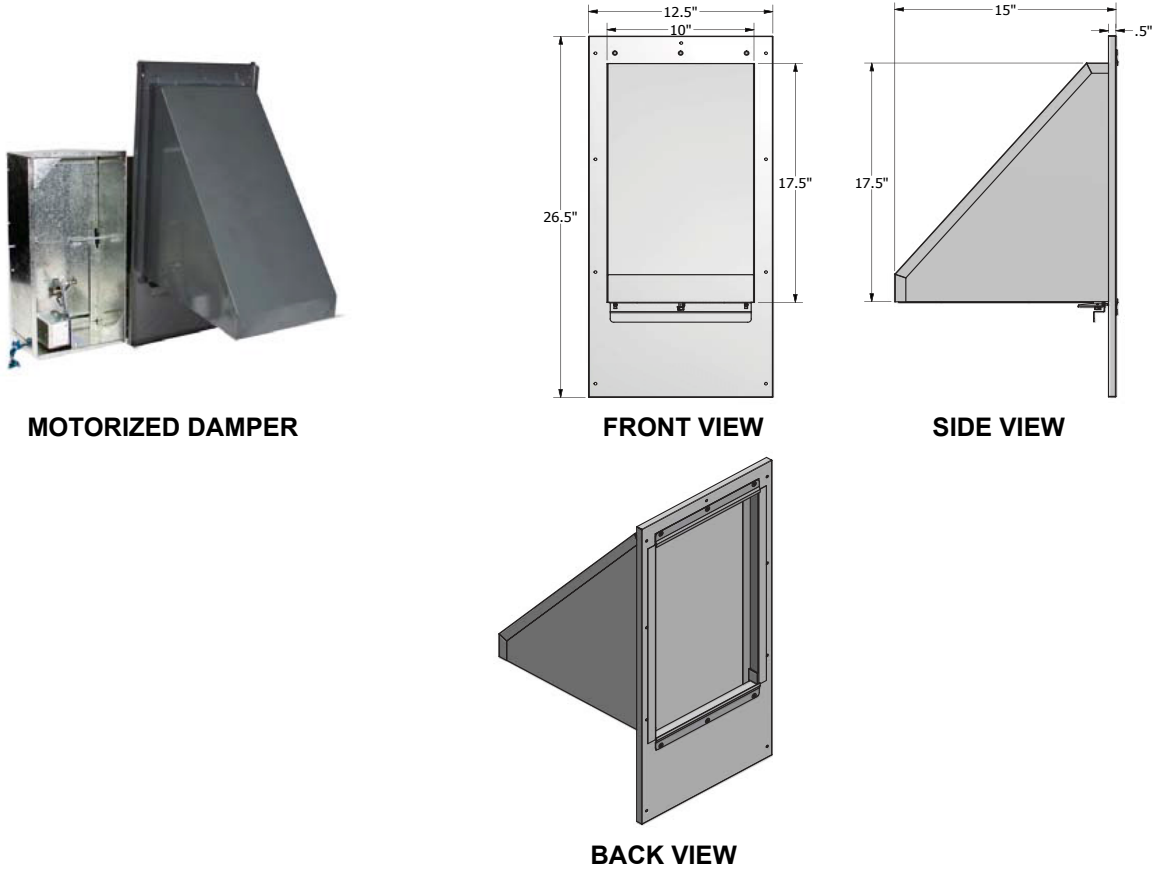
Specifications

- Fully modulating
- Up to 100% fresh air
- Honeywell economizer control
- Single adjustable enthalpy control convertible to dual enthalpy
- Adjustable minimum fresh air
- Factory wired
- Gas/electric (GS) and heat pump (HP) models available
- Fits all models 7.5 – 12.5 tons

3–6 ton units require (1); 7.5–12.5 ton units require (2)

Fresh Air Damper

Figure 36: Dimensions—Fresh Air Damper, 036–072 Model Sizes



Specifications

Manual damper

- Provides up to 25% fresh air
- Locking selection knob provides constant opening

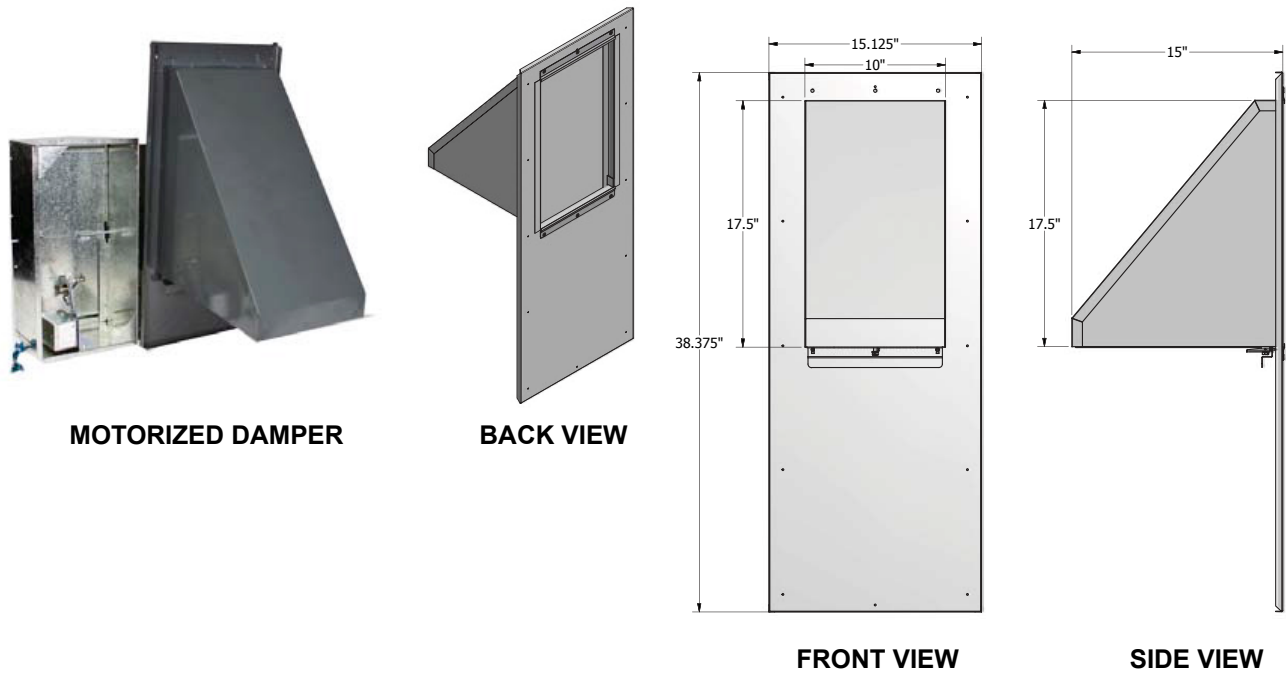
Motorized damper

- 24Vac damper motor with spring return
- Fully assembled and factory wired

Fits all 3 - 6 ton package units in all fuels

All dampers painted to match the unit

Figure 37: Dimensions—Fresh Air Damper, 090–150 Model Sizes



Specifications

Manual damper

- Provides up to 25% fresh air
- Locking selection knob provides constant opening

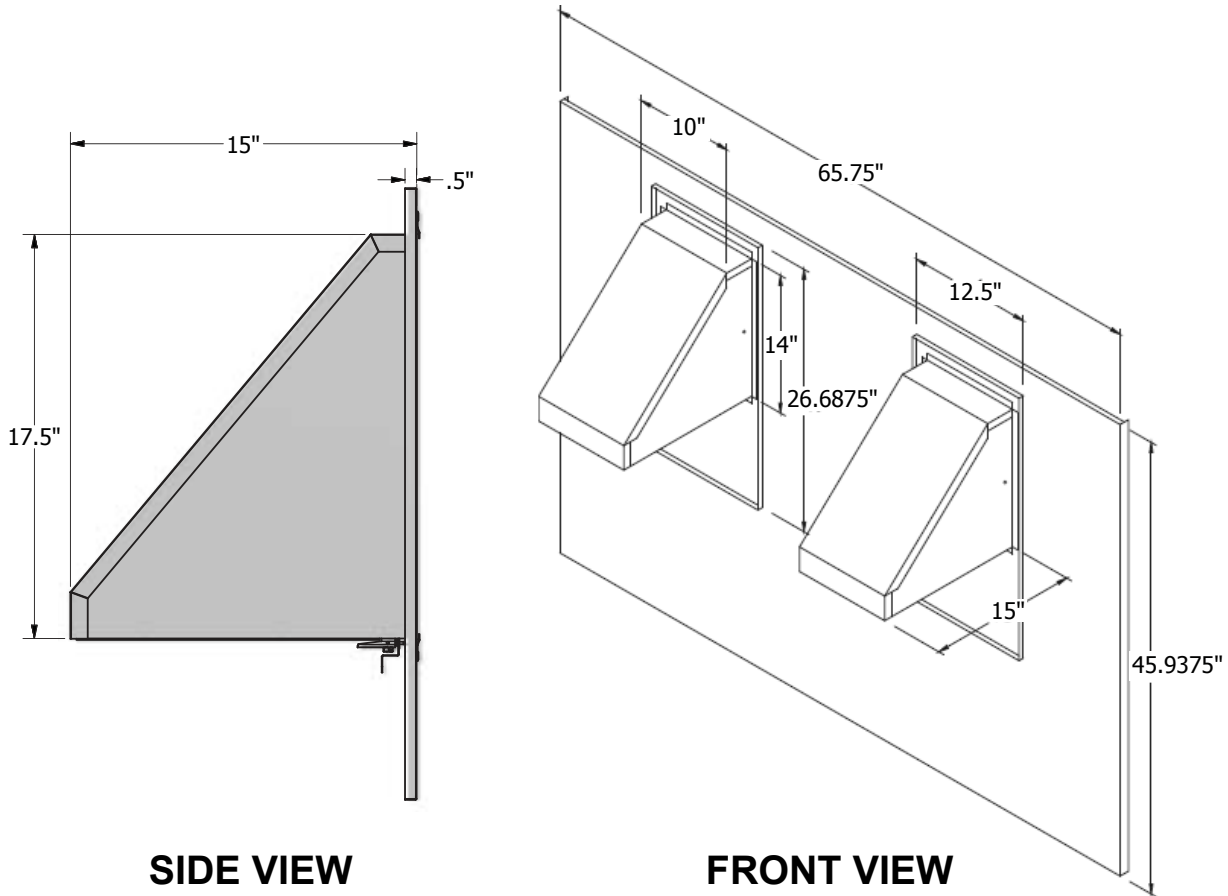
Motorized damper

- 24Vac damper motor with spring return
- Fully assembled and factory wired

Fits all 7.5 – 12.5 ton package units in all fuels

All dampers painted to match the unit

Figure 38: Dimensions—Fresh Air Damper, 180/181–240 Model Sizes



SIDE VIEW

FRONT VIEW

Specifications

Manual damper

- Provides up to 25% fresh air
- Locking selection knob provides constant opening

Motorized damper

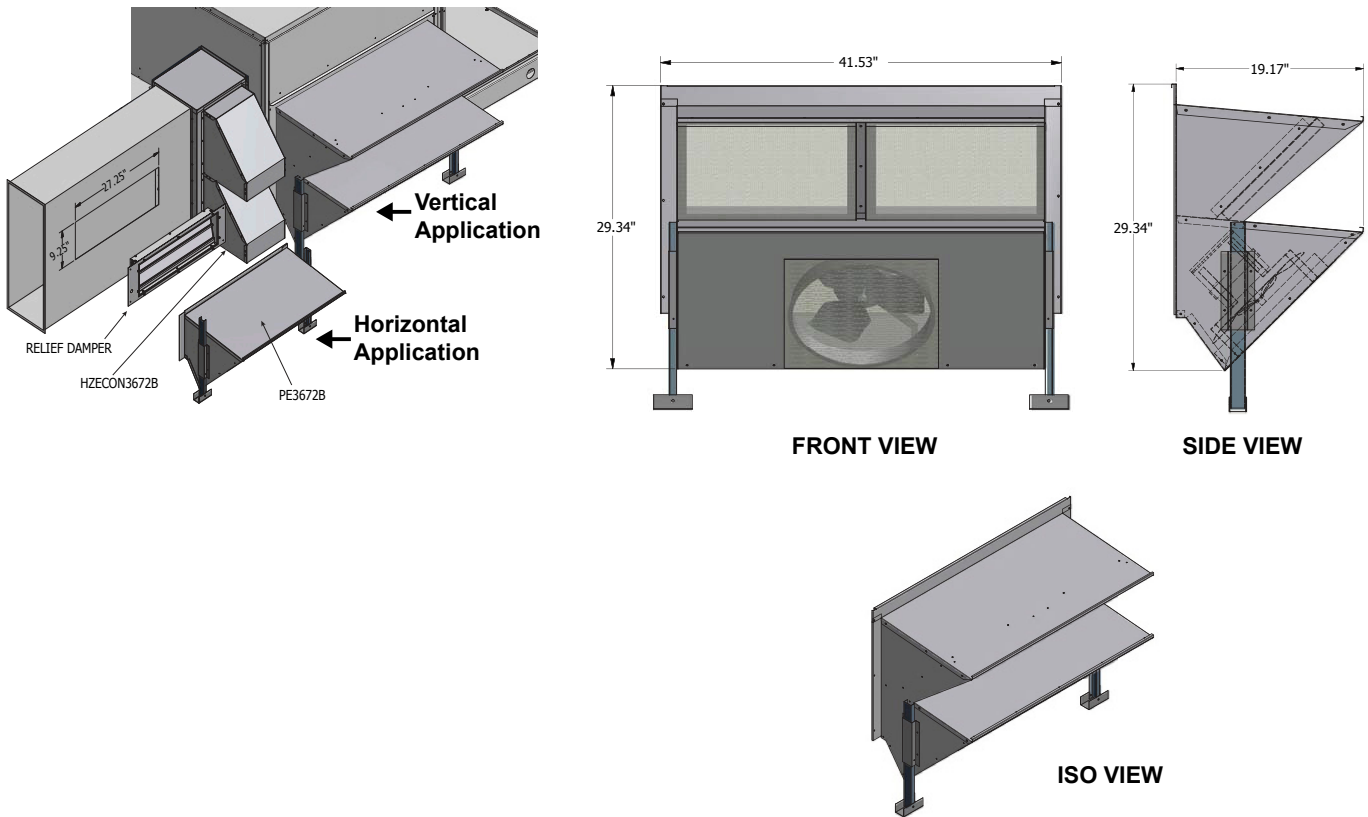
- 24Vac damper motor with spring return
- Fully assembled and factory wired

Fits all 15 - 20 ton package units in all fuels

All dampers painted to match the unit

Power Exhaust

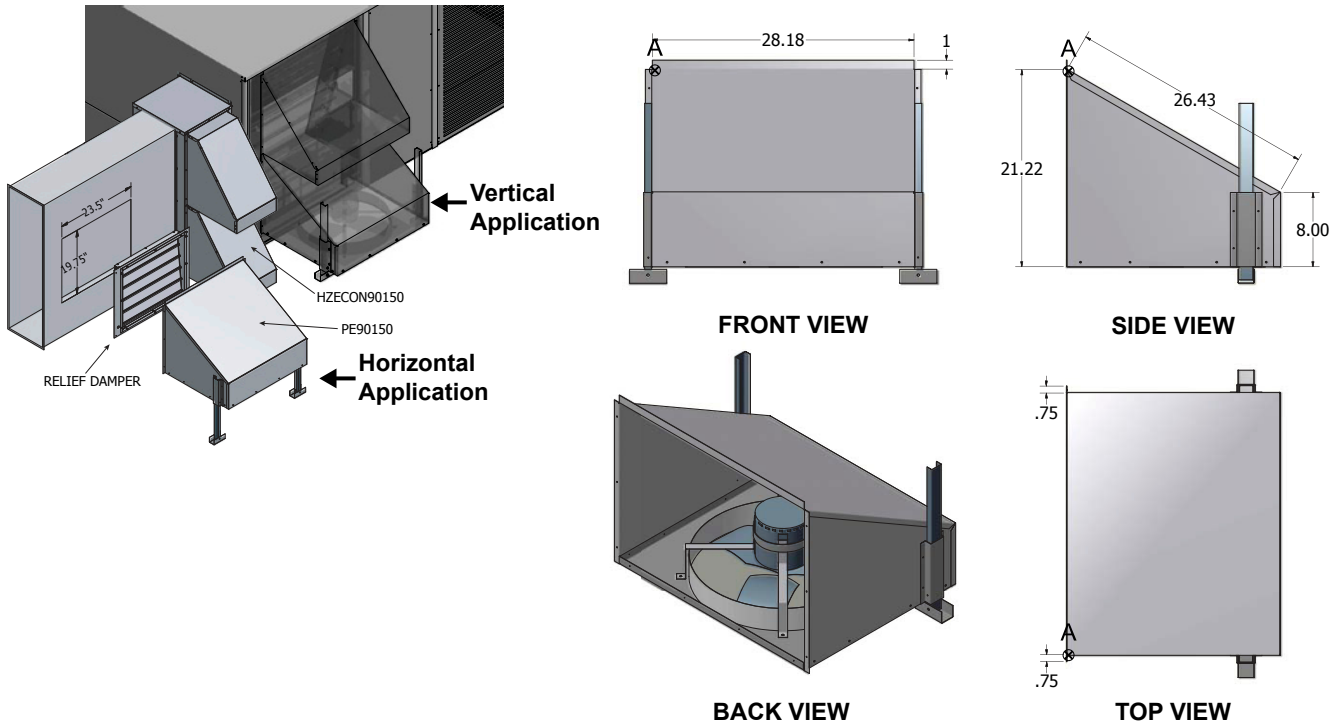
Figure 39: Dimensions—Power Exhaust, 036–072 Model Sizes



Features

- Propeller type fans
- 208/230V, 460V, 575v models available
- Used in conjunction with DNECONXX3672B
- Fans engage when economizer fresh air dampers are 70% open
- Up to 100% relief
- Replaces barometric relief hood

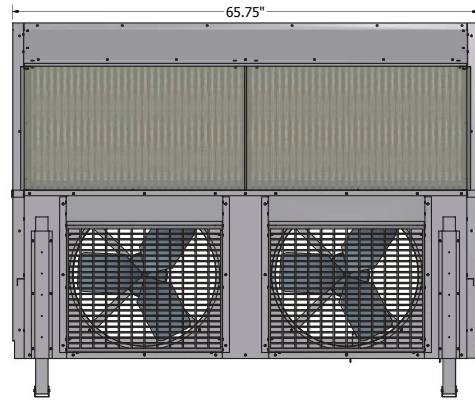
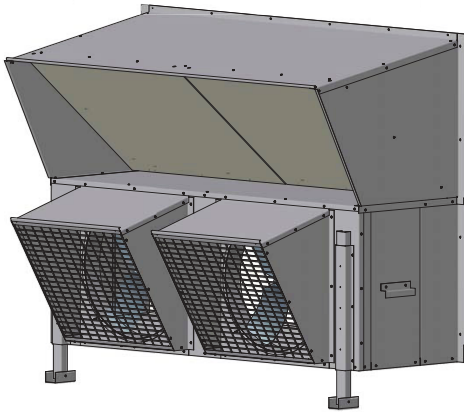
Figure 40: Dimensions—Power Exhaust, 090–120 Model Sizes



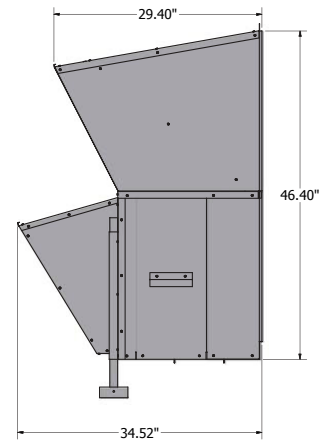
Features (7.5 through 10.0 Ton Units)

- Propeller type fans
- 208/230V, 460V, 575v models available
- Used in conjunction with DNECONXX90120 or DNECONXX150
- Fans engage when economizer fresh air dampers are 70% open
- Up to 100% relief
- Replaces barometric relief hood

Figure 41: Dimensions—Power Exhaust, 150–240 Model Sizes



FRONT VIEW



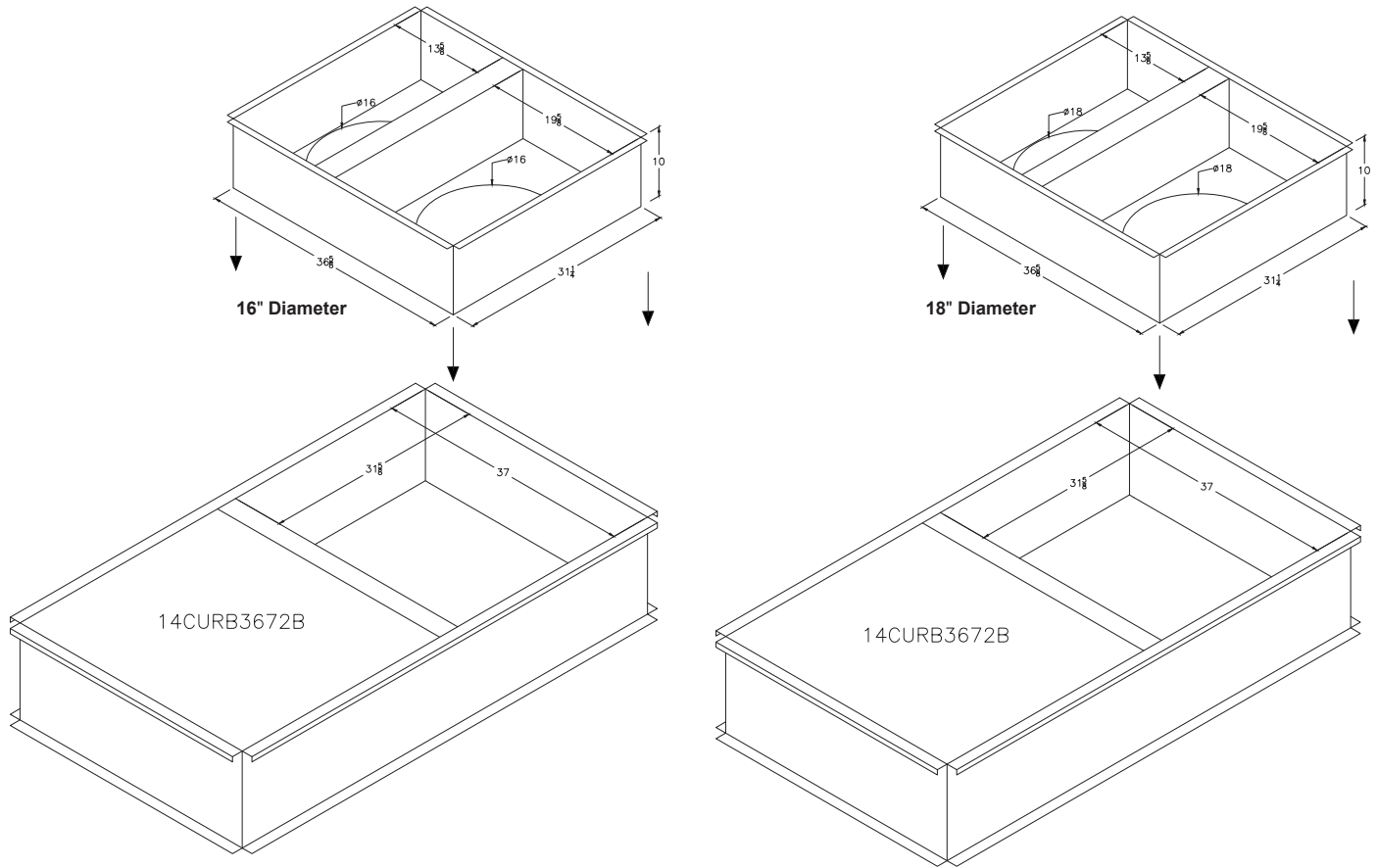
SIDE VIEW

Features (15.0 through 20.0 Ton Units)

- Propeller type fans
- 208/230V, 460V, 575v models available
- Used in conjunction with DNECONHP150 or DNECONGS180240
- Fans engage when economizer fresh air dampers are 70% open
- Up to 100% relief
- Integrated into downflow economizer hood

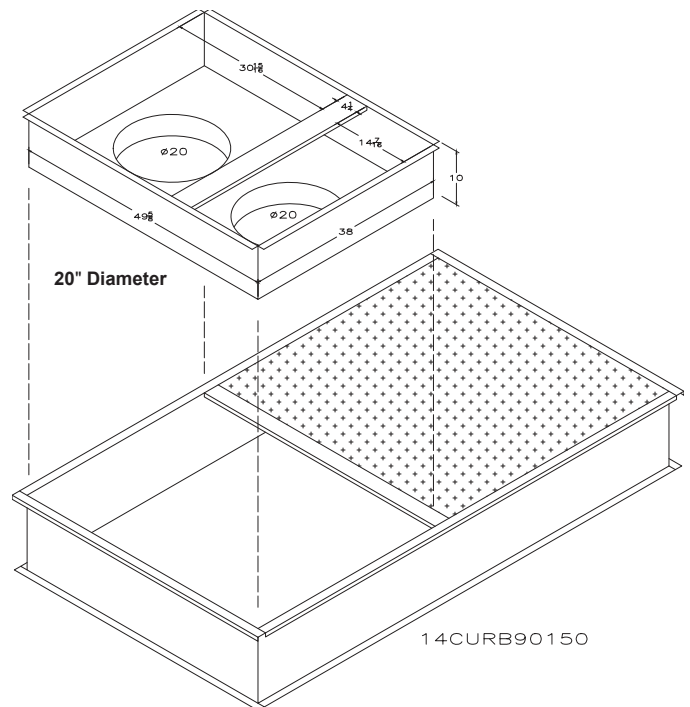
Adapter

Figure 42: Dimensions—Square-to-Round Adapter, All Model Sizes



Instructions

- Assemble the roof curb per curb installation instructions.
- Attach duct to the appropriate square to round.
- On the return, feed the duct through the opening created in the duct support and place the Square-to-Round into the opening with the flanges resting on top of the curb duct supports.
- On the supply, feed the duct through the supply opening and install the Square-to-Round with the flanges resting on the perimeter of the curb and the duct support that divides the supply and return.
- Install gasket material to the perimeter of the square opening and the rest of the roof curb.

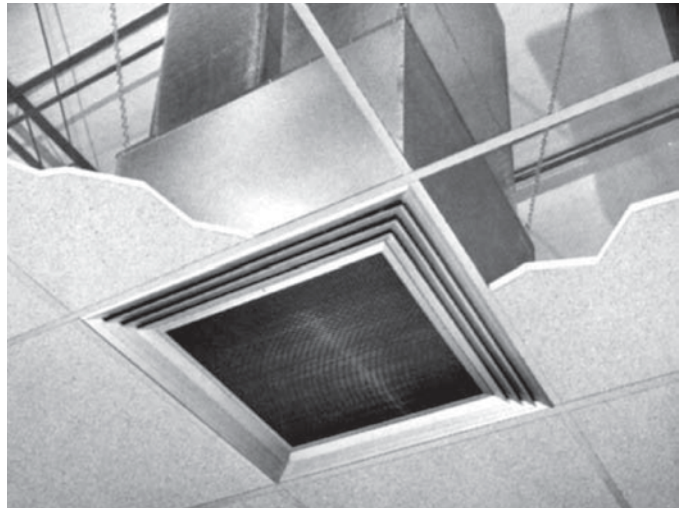


Diffuser System

Figure 43: 510 Series - Flush Mount Concentric Diffuser System



Light Commercial
"T" Bar Ceiling



Commercial
"T" Bar Ceiling

510 Series Concentric Diffuser Systems

Designed to provide a single point air distribution system. The systems may be used with either a "T-Bar" ceiling or a plaster ceiling.

Standard features include:

1. All aluminum diffuser with aluminum return air egg crate.
2. Built-in Anti-Sweat gasket.
3. Molded Fiberglass Transition (through five tons).
4. Built-in hanging supports.
5. Diffuser box constructed of fiberglass ductboard (through 7.5 tons) or sheet metal.

Standard benefits include:

1. Even four (4) way airflow.
2. Lightweight design.
3. Factory assembled and sealed.
4. Guaranteed not to "sweat".
5. Guaranteed not to recirculate air flow (short cycle).
6. Return air egg crate is easily removed.
7. Units are fully insulated (both supply and return).

Typical Specifications

Furnish and install McDaniel Metals, Inc. "510 SERIES" concentric diffuser systems. The system shall consist of an aluminum supply diffuser with an aluminum egg crate return. It shall also have a permanent (not adhesive) anti-sweat gasket and hanging supports. All units that are five (5) tons and smaller shall have a molded fiberglass interior transition.

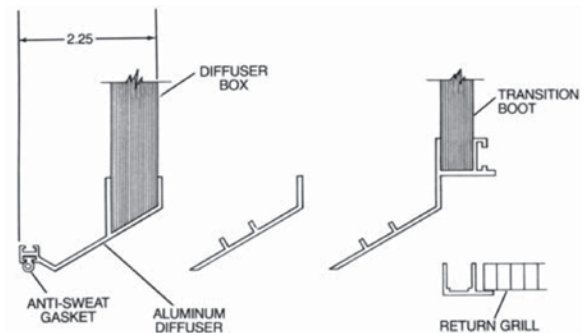
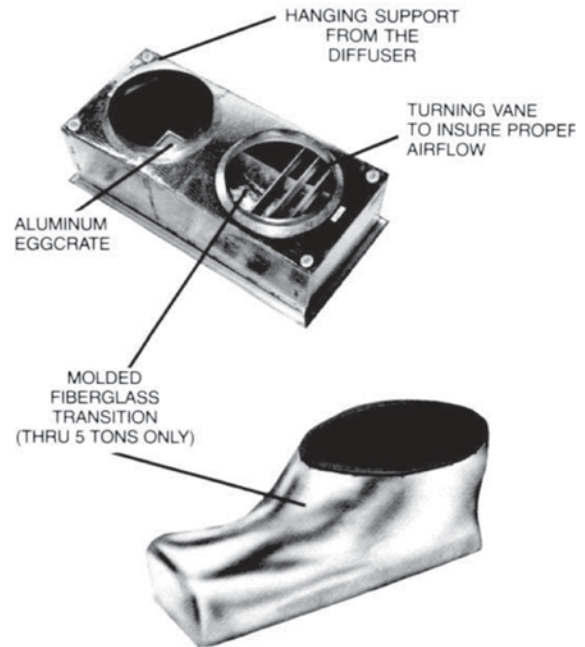
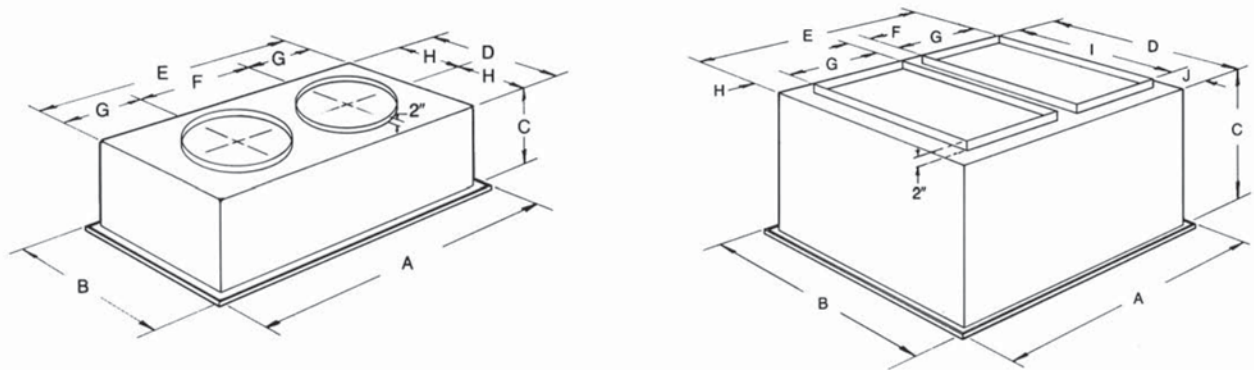


Figure 43 continued: 510 Series - Flush Mount Concentric Diffuser System

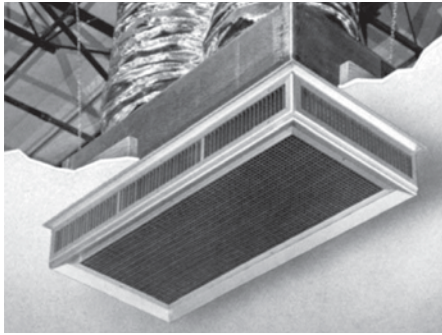


Dimensional Data											
Model Number	A	B	C	D	E	F	G	H	I	J	Duct Size
Round Duct											
CDK36	47-5/8	23-5/8	13-1/2	21	45	22-1/2	11-1/4	10-1/2	—	—	16RD
CDK4872											18RD
CDK90											29-5/8
Rectangular Duct											
CDK120	47-5/8	35-5/8	23-1/4	33	45	4-1/2	18	2-1/4	28	2-1/2	18×28
CDK150		41-5/8	29-1/4	39					32	3-1/4	18×32
CDK180		47-5/8		45					36	4-1/2	18×36
CDK140		59-5/8	35-1/4	57					24		48
CDK300	54				1-1/2	24×54					

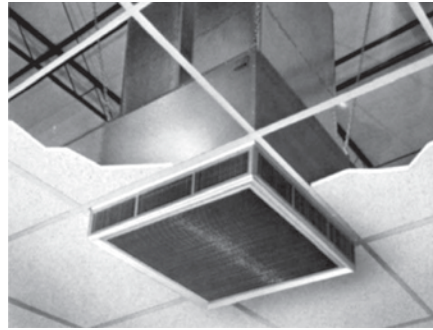
Engineering Data													
Part Number	CFM	Static Pressure	Throw Feet	Neck Velocity	Jet Velocity	Noise Level	Part Number	CFM	Static Pressure	Throw Feet	Neck Velocity	Jet Velocity	Noise Level
CDK36	600	0.09	10-14	234	417	18	CDK180	5600	0.36	28-37	1000	2082	45
	800	0.11	12-18	313	556	20		5800	0.39	29-38	1036	2156	45
	1000	0.14	15-20	391	694	20		6000	0.42	40-50	1071	2230	45
	1200	0.17	16-22	469	833	25		6200	0.46	42-51	1107	2308	50
	1400	0.20	17-24	547	972	30		6400	0.50	43-52	1143	2379	50
CDK4872	1000	0.14	15-20	391	694	20	CDK240	6600	0.54	45-56	1179	2454	50
	1200	0.17	16-22	469	833	25		7200	0.39	26-35	996	2093	45
	1400	0.20	17-24	547	972	30		7400	0.41	28-37	1024	2151	45
	1600	0.24	18-25	625	1111	30		7600	0.43	29-38	1051	2209	45
	1800	0.30	20-28	703	1250	35		7800	0.47	40-50	1079	2276	45
	2000	0.36	21-29	781	1389	40		8000	0.50	42-51	1107	2326	50
	2200	0.40	22-30	859	1528	40		8200	0.53	43-52	1134	2384	50
CDK90	2600	0.17	19-24	663	1294	30	CDK300	8400	0.56	44-54	1162	2442	50
	2800	0.20	20-28	714	1393	35		8600	0.59	46-57	1189	2500	50
	3000	0.25	21-29	765	1492	35		8800	0.63	48-59	1217	2558	50
	3200	0.31	22-29	816	1592	40		9400	0.39	30-40	1014	2114	45
	3400	0.37	22-30	867	1692	40		9600	0.41	32-41	1036	2159	45
CDK120	3600	0.17	22-29	844	1646	35	CDK300	9800	0.43	35-43	1057	2204	45
	3800	0.18	22-30	891	1737	40		10000	0.45	37-46	1079	2249	45
	4000	0.21	24-33	938	1829	40		10200	0.47	40-50	1101	2294	45
	4200	0.24	26-35	985	1920	40		10400	0.50	42-51	1122	2339	50
CDK150	4400	0.27	28-37	1032	2011	40	CDK300	10600	0.53	43-53	1144	2384	50
	4600	0.31	25-34	922	1795	40							
	4800	0.32	26-35	962	1873	40							
	5000	0.34	27-36	1002	1951	40							
	5200	0.36	30-39	1043	2029	45							
	5400	0.39	32-41	1083	2107	45							

Notes: 1. All data is based on the Air Diffusion Council Guidelines
 2. Throw data is based on Terminal Velocities of 75 FPM using isothermal air
 3. Actual noise levels are less than those shown.

Figure 44: 530 Series - Flush Mount Concentric Diffuser System



Light Commercial Plaster Ceiling



Commercial "T" Bar Ceiling

530 Series Concentric Diffuser Systems

Designed to provide a single point air distribution system with the added benefit of having directional air control. The systems may be used with either a "T-Bar" ceiling or a plaster ceiling.

Standard features include:

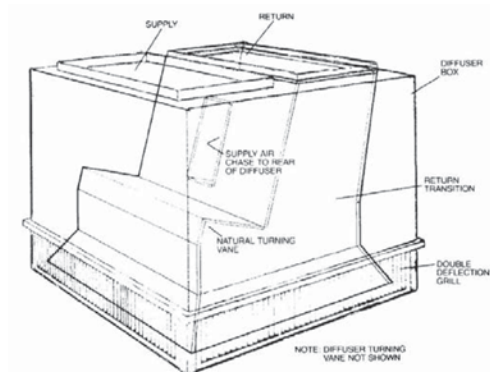
1. All aluminum diffuser with aluminum return air egg crate.
2. Double deflection diffuser with the blades secured by spring steel.
3. Built-in Anti-Sweat gasket.
4. Molded Fiberglass Transition (through five tons).
5. Built-in hanging supports.
6. Diffuser box constructed of fiberglass ductboard (through 7.5 tons) or sheet metal.

Standard benefits include:

1. Even four (4) way airflow.
2. All exposed surfaces (below ceiling) are brushed aluminum.
3. Factory assembled and sealed.
4. Guaranteed not to "sweat".
5. Guaranteed not to recirculate air flow (short cycle).
6. Return air egg crate is easily removed.
7. Units are fully insulated (both supply and return).
8. Lightweight design.

Typical Specifications

Furnish and install McDaniel Metals, Inc. "530 Series" Concentric Diffuser Systems. The system shall consist of an aluminum double supply diffuser with an aluminum egg crate return. ALL EXPOSED SURFACES (BELOW CEILING) MUST BE BRUSHED ALUMINUM. It shall also have a permanent (not adhesive) anti-sweat gasket and hanging supports. All units that are five (5) tons and smaller shall have a molded fiberglass interior transition.



Molded Fiberglass Transition (Thru 5 Tons Only)

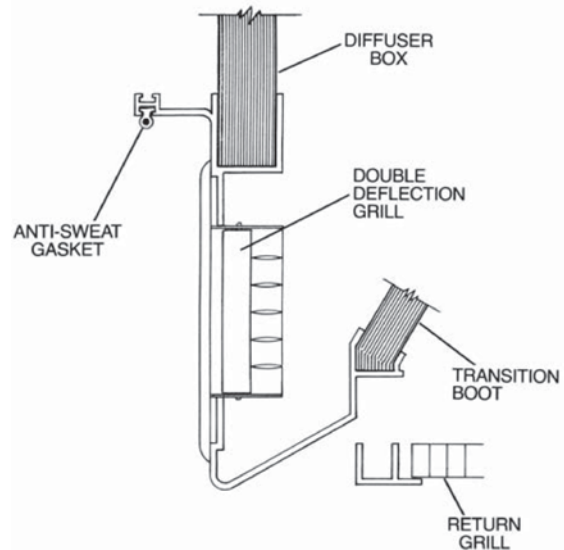
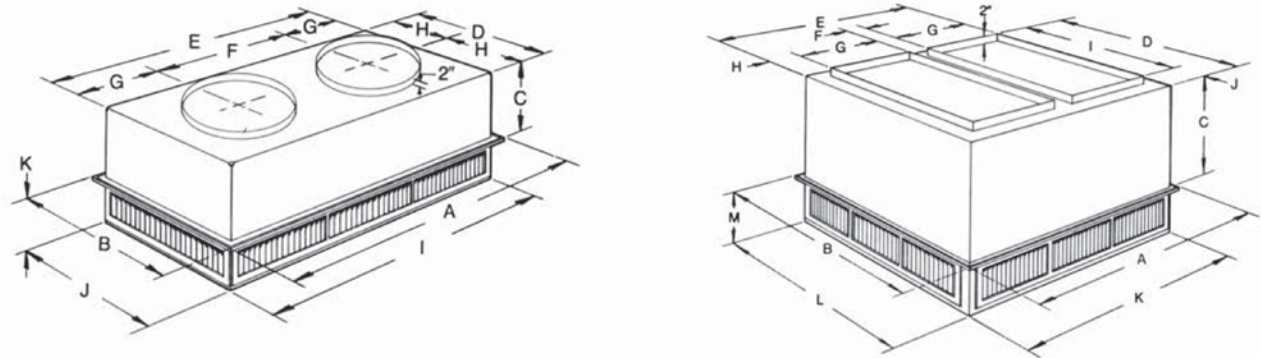


Figure 44 continued: 530 Series - Flush Mount Concentric Diffuser System



Dimensional Data															
Model Number	A	B	C	D	E	F	G	H	I	J	K	L	M	Duct Size	
Round Duct															
CDK 36-530	47-5/8	23-5/8	11-3/8	21-1/2	45	22-1/2	11-1/2	10-3/4	45-1/2	21-1/2	7-1/8	—	—	16RD	
CDK 4872-530			14-3/8	27-1/2				13-3/4		27-1/2				8-1/8	18RD
CDK 90-530			29-5/8	27-1/2				13-3/4		27-1/2				8-1/8	20RD
Rectangular Duct															
CDK 120-530	47-5/8	35-5/8	20-5/8	33-1/2	45-1/2	4-1/2	18	2-1/2	28	2-3/4	45-1/2	33-1/2	9-1/8	18x28	
CDK 180-530		47-5/8	24-5/8	45-1/2					36	4-3/4		45-1/2	10-1/8	18x36	
CDK 240-530		59-5/8	30-5/8	57-1/2					48	57-1/2		11-1/8	24x48		

Engineering Data						
Part Number	CFM	Statistic Pressure	Throw Feet	Neck Velocity	Jet Velocity	Noise Level
CDK 36-530	600	0.09	8-15	210	210	20
	800	0.11	9-16	281	281	20
	1000	0.14	10-17	351	351	20
	1200	0.17	11-18	421	421	20
	1400	0.20	12-19	491	491	20
CDK 4872-530	1000	0.14	10-17	351	351	20
	1200	0.17	11-18	421	421	20
	1400	0.20	12-19	491	491	20
	1600	0.24	12-20	561	561	20
	1800	0.30	13-21	632	632	20
	2000	0.36	14-23	702	702	20
	2200	0.40	16-25	772	772	20
CDK 90-530	2600	0.17	24-29	669	669	20
	2800	0.20	25-30	720	720	25
	3000	0.25	27-33	772	772	25
	3200	0.31	28-35	823	823	25
	3400	0.37	30-37	874	874	30
CDK 120-530	3600	0.17	25-33	851	851	30
	3800	0.18	27-35	898	898	30
	4000	0.21	29-37	946	946	30
	4200	0.24	32-40	993	993	30
	4400	0.27	34-42	1040	1040	30
CDK 180-530	5600	0.36	39-49	920	920	30
	5800	0.39	42-51	954	954	30
	6000	0.42	44-54	1022	1022	30
	6200	0.46	45-55	1056	1056	30
	6400	0.50	46-55	1090	1090	30
	6600	0.54	47-56	1124	1124	30
CDK 240-530	7200	0.39	33-38	827	827	25
	7400	0.41	35-40	850	850	25
	7600	0.43	36-41	873	873	25
	7800	0.47	38-43	896	896	30
	8000	0.50	39-44	918	918	30
	8200	0.53	41-46	941	941	30
	8400	0.56	43-49	964	964	30
	8600	0.59	44-50	987	987	30
	8800	0.63	47-55	1010	1010	30

Notes: 1. All data is based on the Air Diffusion Council Guidelines
 2. Throw data is based on Terminal Velocities of 75 FPM using isothermal air
 3. Actual noise levels are less than those shown.
 4. Throw is based on diffuser blades being directed in a straight pattern.

Roof Curb

Roof Curb Installation

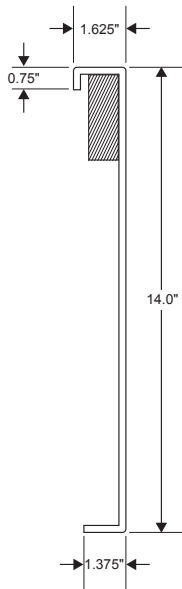
Curb installations must comply with local codes and should follow the established guidelines of the National Roofing Contractors Association.

Proper unit installation requires that the roof curb be firmly and permanently attached to the roof structure. Check for adequate fastening method prior to setting the unit on the curb.

Full perimeter roof curbs are available from the factory and are shipped unassembled. The installing contractor is responsible for field assembly, squaring, leveling, and mounting on the roof structure. All required hardware necessary for the assembly of the sheet metal curb is included in the curb accessory package.

- Determine sufficient structural support before locating and mounting the curb and package unit.
- Duct-work must be constructed using industry guidelines. The duct-work must be placed into the roof curb before mounting the package unit. Our full perimeter curbs include duct connection frames to be assembled with the curb. Cantilevered-type curbs are not available from the factory.
- Contractor furnishes curb insulation, cant strips, flashing, and general roofing material.
- Support curbs on parallel sides with roof members. To prevent damage to the unit, the roof members cannot penetrate supply and return duct openings.

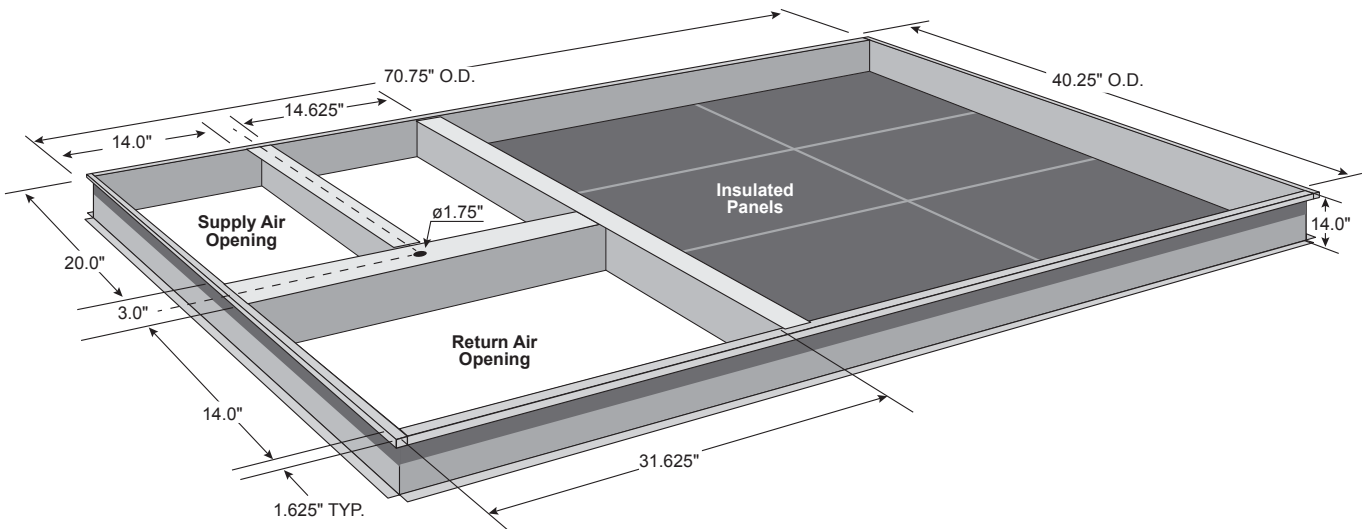
Figure 45: Roof Curb—Side Detail, All Model Sizes



NOTE: The unit and curb accessories are designed to allow vertical duct installation before unit placement. Duct installation after unit placement is not recommended.

See the manual shipped with the roof curb for assembly and installation instructions.

Figure 46: Roof Curb—036–072 Model Sizes



3-20 Ton Accessories for Packaged Air Conditioners

Figure 47: Roof Curb—090–150 Model Sizes

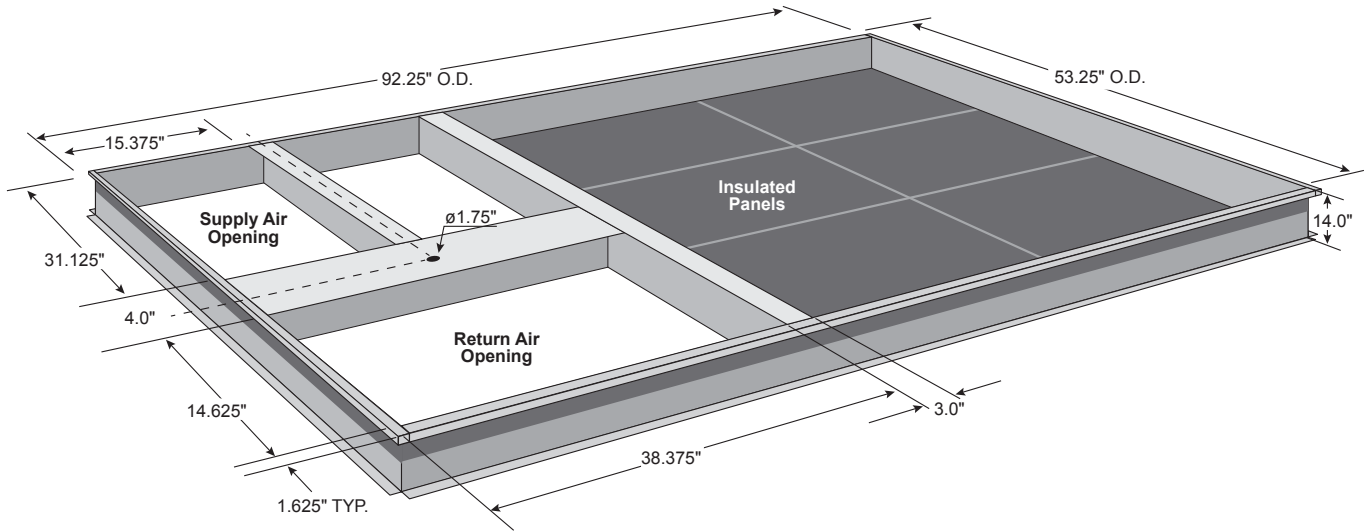
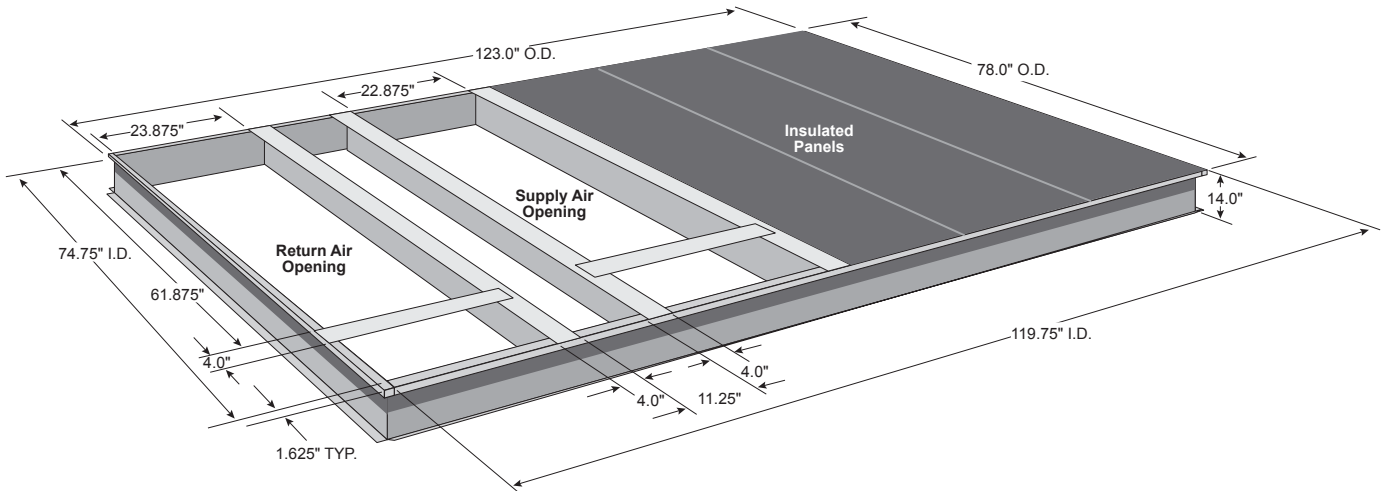
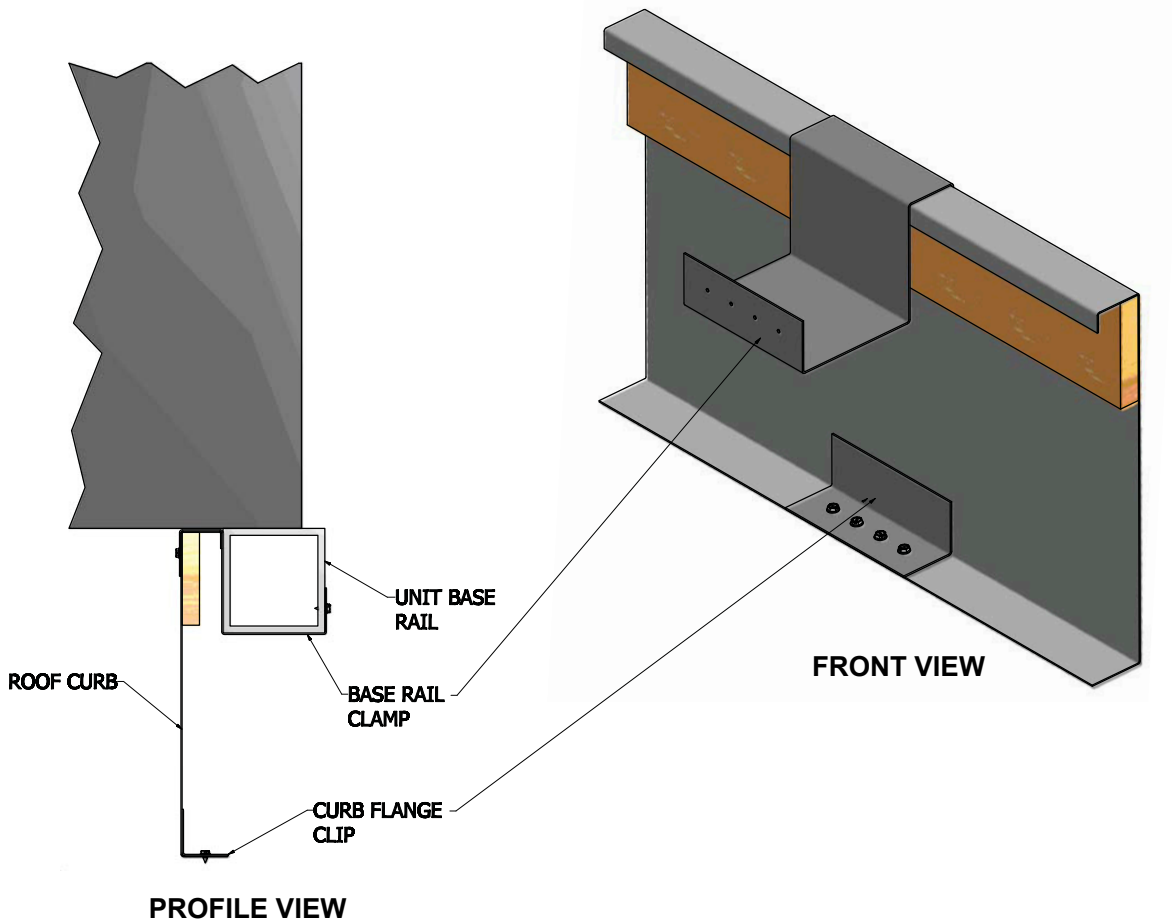


Figure 48: Roof Curb—180–240 Model Sizes



Hurricane Restraint Clip

Figure 49: Dimensions—Power Exhaust, 036–072 Model Sizes

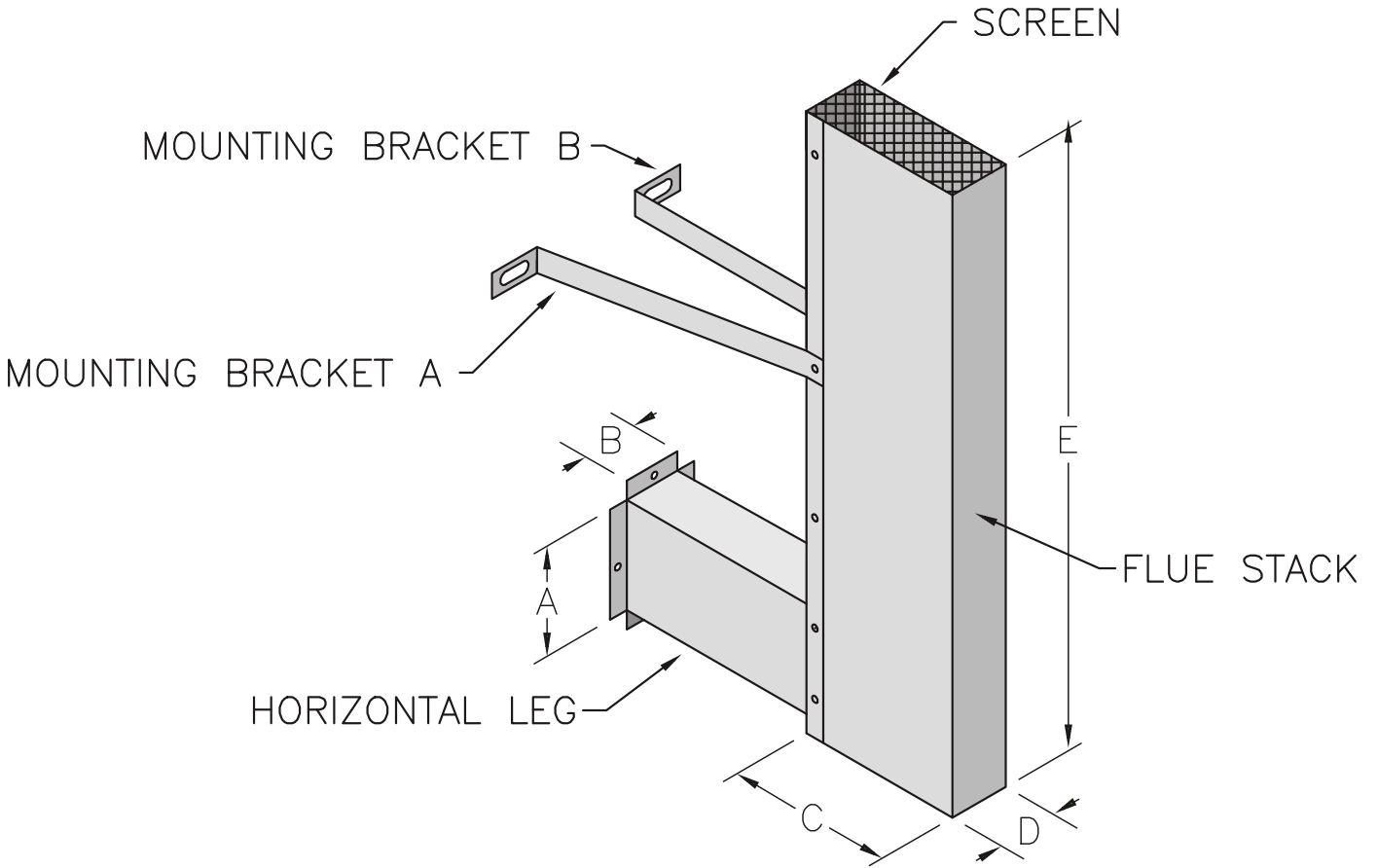


Specifications

- 14 gauge construction typical
- Location and quantity of clips are dictated by unit size
- Clips are attached to the unit and roof curb using sheet metal screws
- Seismic angle is fastened with an approved fastener of welded metal

Flue Stack

Figure 50: Dimensions—Power Exhaust, 090–120 Model Sizes



Unit Size	SKU	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)
036–072	220-GX-01	3.25	2.25	6.5	2.38	24.0
090–150	220-GX-02	3.25	2.25	6.5	2.38	24.0
180–240	220-GX-03	4.25	3.0	6.5	3.18	36.0



Daikin Applied Training and Development

Now that you have made an investment in modern, efficient Daikin equipment, its care should be a high priority. For training information on all Daikin HVAC products, please visit us at www.DaikinApplied.com and click on Training, or call 540-248-9646 and ask for the Training Department.

Warranty

All Daikin equipment is sold pursuant to its standard terms and conditions of sale, including Limited Product Warranty. Consult your local Daikin Applied Representative for warranty details. To find your local Daikin Applied Representative, go to www.DaikinApplied.com.

Aftermarket Services

To find your local parts office, visit www.DaikinApplied.com or call 800-37PARTS (800-377-2787). To find your local service office, visit www.DaikinApplied.com or call 800-432-1342.

This document contains the most current product information as of this printing. For the most up-to-date product information, please go to www.DaikinApplied.com.

Products manufactured in an ISO Certified Facility.