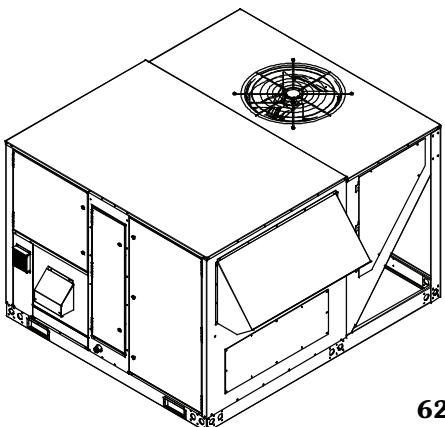




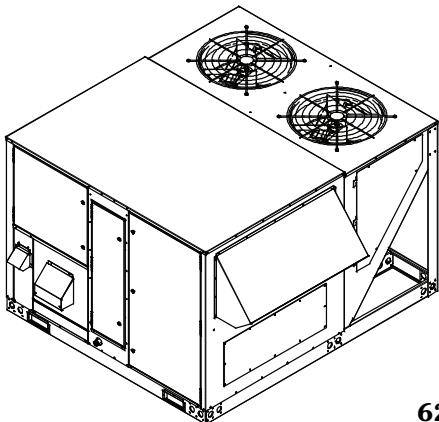
# Product Data

## 62DA,DB,DC,DD,DE,DF07-38 Dedicated Vertical or Horizontal Outdoor Air Unit with Optional Energy Wheel

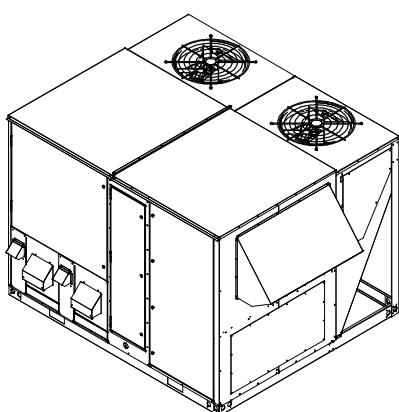
6 to 35 Nominal Tons



62D07-09



62D12-20



62D22-38

Carrier's 62D Series commercial dedicated outdoor air units offer:

- Capacities up to 35 nominal tons
- Vertical or horizontal configurations
- Puron® environmentally sound refrigerant (R-410A) as standard
- Double wall construction
- Optional AHRI (Air Conditioning, Heating, and Refrigeration Institute) listed energy recovery wheel
- Multiple heating options
- Multiple fan options
- Microprocessor control with accessory keypad and easy to view display
- Slide-out supply fan tray
- Remote communication capability
- Digital compressor option
- 100% outdoor air or recirculating capability

## Features/Benefits

**Carrier's 62D commercial packaged, dedicated, outdoor air unit offers efficiency, application flexibility, quality, reliability and easy maintenance.**

### High efficiency

The Carrier dedicated outdoor air unit utilizes highly efficient scroll compressors that have been optimally designed for use with Puron refrigerant (R-410A). Operating efficiency of the unit may be increased by adding the optional energy recovery system.

# Features/Benefits (cont)



The energy recovery system uses an AHRI listed energy recovery wheel to transfer sensible and latent heat between the incoming air and the exhaust air, reducing energy consumption and improving indoor conditions.

## Flexibility to suit many applications

The Carrier 62D units are designed to meet customer's requirements for new construction, replacement opportunities, and special applications. The customer can choose from vertical or horizontal supply configurations and over 6 supply fan motor horsepower ratings, with backward curved, forward curved, airfoil or backward inclined plenum supply fans.

Supply fans may be provided with spring isolation and seismic restraints to address earthquake design requirements.

The modulating heating system controls 4 sizes of gas heat or a wide range electric heat options. Steam or hydronic heating coils are also available.

Also available are digital compressor, hot gas reheat, power exhaust, 2 or 4-in. filters, and a motorized outdoor air damper or economizer.

Roof curbs that follow the NRCA (National Roofing Contractors Association) guidelines are available for vertical applications in 14-in. and 24-in. heights and are installed and weather-proofed by the roofing contractor. Units with horizontal connections may be either curb or slab mounted.

All 62DA and DB units bring in 100% outdoor air through the outdoor air intake hood and do not have a return air connection. The 62DA units have a vertical supply duct opening in the bottom of the unit. The 62DB units have a horizontal supply duct opening in the side of the unit.

All 62DC and DD units bring in 100% outdoor air through the outdoor air intake hood. They may also be equipped with factory-installed power exhaust and/or an energy conservation wheel. The return air to these units is not re-circulated or mixed with the incoming outdoor air. The return air may be used to transfer energy to the incoming air via the energy conservation wheel and is then exhausted. The 62DC units have a vertical supply

and return duct opening in the bottom of the unit. The 62DD units have a horizontal supply duct opening in the side of the unit and a vertical return opening in the bottom of the unit.

All 62DE and DF units may bring in up to 100% outdoor air through the outdoor air intake hood. These units are equipped with an economizer that allows a portion the return air to be re-circulated or mixed with the incoming outdoor air. They may also be equipped with factory-installed power exhaust and/or an energy conservation wheel. The return air may be used to transfer energy to the incoming air via the energy conservation wheel and is then exhausted. The 62DE units have a vertical supply and return duct opening in the bottom of the unit. The 62DF units have a horizontal supply duct opening in the side of the unit and a vertical return opening in the bottom of the unit.

## Durable construction

Cabinets are constructed of heavy gage galvanized steel with a pre-painted exterior finish to protect the cabinet and preserve the appearance through a long operating life.

The cabinet features a double wall design with a galvanized inner liner. The double wall design is insulated with closed-cell foam which adds rigidity to the structure and resists moisture intrusion.

## Quality and reliability

All units are run tested prior to leaving the factory to help ensure proper operation and enhance life expectancy of

key components. Components undergo numerous checks and inspections throughout the manufacturing process to eliminate components that do not meet Carrier's high quality standards.

Reliable, hermetic scroll compressors, equipped with crankcase heaters, are mounted on rubber isolation mounts for smooth, quiet operation.

Mechanically and electrically independent dual refrigeration circuits (size 12 and larger) provide redundancy in the event that one circuit should require service. All refrigerant circuits utilize a thermostatic expansion valve (TXV) to ensure proper refrigerant metering throughout the unit's broad operating envelope. The refrigeration circuits are protected by filter driers specifically designed for Puron® refrigerant (R-410A).

Standard warranty coverage provides a one-year parts warranty, 5-year compressor warranty, and 5 years on the stainless steel gas heat exchanger.

## Easy to install, maintain and service

Maintaining and servicing a dedicated outdoor air unit is critical in maximizing the life expectancy and efficient operation of the unit. The Carrier unit has been designed for easy access with simple maintenance procedures.

Hinged access panels provide easy access to controls, fans, coils and filters. Slide-out supply fan system allows easy maintenance of belts, bearings, blower wheels and motors.

## Table of contents

	Page
Features/Benefits . . . . .	1-3
Model Number Nomenclature . . . . .	4,5
Ratings and Capacities . . . . .	6,7
Physical Data . . . . .	8-12
Options and Accessories . . . . .	13
Base Unit Dimensions . . . . .	14-22
Accessory Dimensions . . . . .	23
Selection Procedure . . . . .	23
Performance Data . . . . .	24-47
Electrical Data . . . . .	48
Controls . . . . .	49-51
Typical Wiring Schematics . . . . .	52-56
Guide Specifications . . . . .	57-61

A dedicated vertical or horizontal design does not require conversion time during the unit installation. Through the curb power connection minimizes roof penetrations.

Power connections are in a protected area, away from harsh environmental conditions. All units feature heavy gage formed galvanized steel base rails with rigging openings to simplify handling and lifting at the job site.

### Indoor air quality

The Carrier dedicated outdoor air unit offers 2 and 4-in. filter tracks that accept a variety of filter types and filter MERV ratings.

The condensate drain pan is double sloped to eliminate standing water per ASHRAE (American Society of Heating, Refrigerating, and Air Conditioning Engineers) Standard 62-1089R. The drain pan is fabricated of heavy gage stainless steel to resist corrosion and is insulated on the bottom with closed cell insulation.

The double wall design of the unit with galvanized interior liners allows easy cleaning of the interior surfaces.

### Energy recovery

The Carrier dedicated outdoor air unit may be optionally equipped with an energy recovery (enthalpy) wheel. The enthalpy wheel meets the requirements of AHRI standard 1060 and is certified by AHRI. This energy recovery wheel

is sized to provide increased energy recovery and humidity control based on the application requirements. The energy wheel is mounted in a slide-out cassette for simplified maintenance.

### Heating systems

Carrier dedicated outdoor air units may be equipped with a variety of heat system types: gas heat (natural gas or liquefied petroleum gas), electric, steam, or hot water. Precise leaving air temperature control is provided via staged or modulating heat control systems.

The gas heating systems are of the induced draft design that draws hot combustion gases through the heat exchanger at the ideal rate for maximum heat transfer. Induced-draft systems are an inherently safer design than forced draft, positive pressure designs.

Induced-draft designs operate the heat exchanger under negative pressure, helping to prevent leakage of flue gases into the supply airstream. The gas heat system utilizes a direct-spark ignition and is protected by numerous safety circuits.

### Microprocessor control

The microprocessor-based controller provides complete system control of unit operation. The controller monitors all system sensors and makes operating decisions based upon the user's configuration inputs.

Local access to the microprocessor control may be accomplished via the accessory BACview handheld keypad/display unit. The BACview handheld or unit-mounted keypad/display features a numeric keypad, direction keys, four programmable function keys, and a backlit LCD (liquid crystal diode) display. The display is a large 4-line by 40-character display that is easy to read, even in low light conditions. Access to the microprocessor may also be accomplished via a PC using Carrier software.

In addition, the microprocessor control has the following features:

- simple access to set points, time schedules, status values, and unit configuration parameters
- supports communications with BACnet\*, Modbus†, and optionally with LonWorks\*\* building automation protocols
- alarm conditions are indicated via an alarm LED and an audible signal
- alarm history is recorded and may be accessed via the BACview handheld keypad/display
- password protection
- compressor minimum run time (3 minutes) and minimum off time (5 minutes) feature
- service run test and a service diagnostic mode

\* Sponsored by ASHRAE (American Society of Heating, Refrigerating, and Air Conditioning Engineers).

† Registered trademark of Schneider Electric.

\*\* Registered trademark of Echelon Corporation.

# Model number nomenclature



62 – Dedicated Outdoor Air Unit

## Configuration

- DA** – 100% OA Vertical Supply / No Return
- DB** – 100% OA Horizontal Supply / No Return
- DC** – 100% OA Vertical Supply / Vertical Return
- DD** – 100% OA Horizontal Supply / Vertical Return
- DE** – Recirculating Vertical Supply / Vertical Return
- DF** – Recirculating Horizontal Supply / Vertical Return

## Heat Options\*

-	– None	<b>M</b>	– 150,000 Btuh	<b>1</b>	– 7.5 / 10 kW
<b>A</b>	– 75,000 Btuh		Gas Heat		Elect Heat
	Gas Heat		with Override†	<b>2</b>	– 11.3 / 15 kW
<b>B</b>	– 100,000 Btuh	<b>N</b>	– 200,000 Btuh		Elect Heat
	Gas Heat		Gas Heat	<b>3</b>	– 15 / 20 kW
<b>C</b>	– 150,000 Btuh		Gas Heat		Elect Heat
	Gas Heat	<b>P</b>	– 250,000 Btuh	<b>4</b>	– 18.8 / 25 kW
<b>D</b>	– 200,000 Btuh		Gas Heat		Elect Heat
	Gas Heat		with Override†	<b>5</b>	– 22.6 / 30 kW
<b>E</b>	– 250,000 Btuh	<b>Q</b>	– 300,000 Btuh		Elect Heat
	Gas Heat		Gas Heat	<b>6</b>	– 26.3 / 35 kW
<b>F</b>	– 300,000 Btuh		Gas Heat		Elect Heat
	Gas Heat	<b>R</b>	– 400,000 Btuh	<b>7</b>	– 30 / 40 kW
<b>G</b>	– 400,000 Btuh		Gas Heat		Elect Heat
	Gas Heat		with Override†	<b>8</b>	– 35.7 / 50 kW
<b>H</b>	– 500,000 Btuh	<b>S</b>	– 500,000 Btuh		Elect Heat
	Gas Heat		Gas Heat	<b>9</b>	– 45 / 60 kW
<b>J</b>	– 600,000 Btuh		Gas Heat		Elect Heat
	Gas Heat	<b>T</b>	– 600,000 Btuh		
<b>K</b>	– 75,000 Btuh		Gas Heat		
	Gas Heat		with Override†		
<b>L</b>	– 100,000 Btuh	<b>W</b>	– Hot Water		
	Gas Heat		Heating Coil**		
	with Override†	<b>Y</b>	– Steam		
			Heating Coil**		

## Energy Conservation Wheel (ECW) Options ††

<b>O</b>	– None	<b>J</b>	– ECW (36 in.) with VFD TD
<b>A</b>	– ECW (36 in.)	<b>K</b>	– ECW (42 in.) with VFD TD
<b>B</b>	– ECW (42 in.)	<b>L</b>	– ECW (48 in.) with VFD TD
<b>C</b>	– ECW (48 in.)	<b>M</b>	– ECW (54 in.) with VFD TD
<b>D</b>	– ECW (54 in.)	<b>N</b>	– ECW (36 in.) with Byp and VFD TD
<b>E</b>	– ECW (36 in.) with Byp	<b>P</b>	– ECW (42 in.) with Byp and VFD TD
<b>F</b>	– ECW (42 in.) with Byp	<b>Q</b>	– ECW (48 in.) with Byp and VFD TD
<b>G</b>	– ECW (48 in.) with Byp	<b>R</b>	– ECW (54 in.) with Byp and VFD TD
<b>H</b>	– ECW (54 in.) with Byp		

## Unit Size – Nominal Tons

<b>07</b> – 6	14 – 12 (11***)	<b>20</b> – 18	<b>30</b> – 27 (25***)
<b>08</b> – 7	15 – 14 (13***)	22 – 19 (18**)	34 – 30
<b>09</b> – 8	16 – 15	24 – 20	<b>38</b> – 35
<b>12</b> – 10 (9***)			

62 DA A 0 34 – A A 6 2 1 A A CA

**SEE NEXT PAGE  
FOR REMAINDER  
OF MODEL NUMBER  
NOMENCLATURE**

## Supply Fan Motor Options

<b>A</b>	– 1/2 HP	<b>H</b>	– 7 1/2 HP	<b>R</b>	– 3 HP with VFD
<b>B</b>	– 3/4 HP	<b>J</b>	– 10 HP	<b>S</b>	– 5 HP with VFD
<b>C</b>	– 1 HP	<b>K</b>	– 15 HP	<b>T</b>	– 7 1/2 HP with VFD
<b>D</b>	– 1 1/2 HP	<b>L</b>	– 20 HP	<b>V</b>	– 10 HP with VFD
<b>E</b>	– 2 HP	<b>N</b>	– 1 HP with VFD	<b>W</b>	– 15 HP with VFD
<b>F</b>	– 3 HP	<b>P</b>	– 1 1/2 HP with VFD	<b>X</b>	– 20 HP with VFD
<b>G</b>	– 5 HP	<b>Q</b>	– 2 HP with VFD		

## Control Options

-	– None	<b>V</b>	– Filter Status Switch and Firestat and RA Smoke Detector
<b>A</b>	– Filter Status Switch	<b>W</b>	– Filter Status Switch and Firestat and CO2 Sensor
<b>B</b>	– Phase / Voltage Monitor with EM Relay	<b>X</b>	– Filter Status Switch and RA Smoke Detector and CO2 Sensor
<b>C</b>	– Firestat	<b>Y</b>	– Phase / Voltage Monitor with EM Relay and Firestat and RA Smoke Detector
<b>D</b>	– RA Smoke Detector	<b>Z</b>	– Phase / Voltage Monitor with EM and RA Smoke Detector and CO2 Sensor
<b>E</b>	– Filter Status and Phase / Voltage Monitor with EM Relay	<b>1</b>	– Phase / Voltage Monitor with EM Relay and Firestat and CO2 Sensor
<b>F</b>	– Filter Status Switch and Firestat	<b>2</b>	– Firestat and RA Smoke Detector and CO2 Sensor
<b>G</b>	– Filter Status Switch and Fan Status Switch	<b>3</b>	– Filter Status Switch and Phase / Voltage Monitor with EM Relay and Firestat and RA Smoke Detector
<b>H</b>	– Phase / Voltage Monitor with EM Relay and Firestat	<b>4</b>	– Filter Status Switch and Phase / Voltage Monitor with EM Relay and Firestat and CO2 Sensor
<b>J</b>	– Phase / Voltage Monitor with EM Relay and RA Smoke Detector	<b>5</b>	– Filter Status Switch and Phase / Voltage monitor with EM Relay and RA Smoke Detector and CO2 Sensor
<b>K</b>	– Firestat and RA Smoke Detector	<b>6</b>	– Filter Status Switch and Firestat and RA Smoke Detector and CO2 Sensor
<b>L</b>	– Filter Status Switch and Phase / Voltage Monitor with EM Relay and Firestat	<b>7</b>	– Phase / Voltage Monitor with EM Relay and Firestat and RA Smoke Detector and CO2 Sensor
<b>M</b>	– Filter Status Switch and Phase / Voltage Monitor with EM Relay and RA Smoke Detector	<b>8</b>	– Filter Status Switch, Phase / Voltage with EM Relay, Firestat RA Smoke Detector and CO2 Sensor
<b>N</b>	– Filter Status Switch and Firestat and RA Smoke Detector		
<b>P</b>	– Phase / Voltage Monitor with EM Relay and Firestat and RA Smoke Detector		
<b>Q</b>	– Filter Status Switch and Phase / Voltage Monitor with EM Relay and Firestat and RA Smoke Detector		
<b>R</b>	– Filter Status Switch and Phase / Voltage Monitor with EM Relay and Firestat		
<b>S</b>	– Filter Status Switch and Phase / Voltage Monitor with EM Relay and RA Smoke Detector		
<b>T</b>	– Filter Status Switch and Phase / Voltage Monitor with EM Relay and CO2 Sensor		

62 DA A 0 34 - A A 6 2 1 A A CA

**SEE PREVIOUS PAGE  
FOR REMAINDER  
OF MODEL NUMBER  
NOMENCLATURE**

**Coil Options**

- A - Al/Cu Cond, Al/Cu 4-Row Evap
- B - Al/Cu Cond, Al/Cu 4-Row Evap with Cycling HGRH on Lead Circuit
- C - Al/Cu Cond, Al/Cu 4-Row Evap with Cycling HGRH on All Circuits
- E - Al/Cu Cond, Al/Cu 6-Row Evap
- F - Al/Cu Cond, Al/Cu 6-Row Evap with Cycling HGRH on Lead Circuit
- G - Al/Cu Cond, Al/Cu 6-Row Evap with Cycling HGRH on All Circuits
- H - Al/Cu Cond, Al/Cu 6-Row Evap with Cycling HGRH on Lead Circuit and LSC on All Circuits
- J - Al/Cu Cond, Al/Cu 4-Row Evap with Modulating HGRH on Lead Circuit
- K - Al/Cu Cond, Al/Cu 4-Row Evap with Modulating HGRH on All Circuits
- M - Al/Cu Cond, Al/Cu 6-Row Evap with Modulating HGRH on Lead Circuit
- N - Al/Cu Cond, Al/Cu 6-Row Evap with Modulating HGRH on All Circuits
- P - Al/Cu Cond, Al/Cu 6-Row Evap with Modulating HGRH on Lead Circuits and LSC on All Circuits
- Q - Al/Cu Cond, Al/Cu 6-Row Evap, no HGBP, no HGRH, Non Cycling Cond Fan
- R - Al/Cu Cond, Al/Cu 6-Row Evap, no HGBP, no HGRH, with Cycling Cond Fan
- S - Al/Cu Cond, Al/Cu 6-Row Evap, no HGBP, no HGRH, with Vari-Speed Cond Fan
- T - Al/Cu Cond, Al/Cu 6-Row, with Lead Circuit HGBP, no HGRH, with Cycling Cond Fan
- V - Al/Cu Cond, Al/Cu 6-Row Evap, with Lead Circuit HGBP, no HGRH, with Vari-Speed Cond Fan
- W - Al/Cu Cond, Al/Cu 6-Row Evap, no HGBP, Cycling HGRH on Lead Circuit, with Vari-Speed Cond Fan
- X - Al/Cu Cond, Al/Cu 6-Row Evap, no HGBP, Cycling HGRH on Both Circuits with Vari-Speed Cond Fan
- Y - Al/Cu Cond, Al/Cu 6-Row Evap, with Lead Circuit HGBP, Cycling HGRH on Lead Circuit with Vari-Speed Cond Fan
- Z - Al/Cu Cond, Al/Cu 6-Row Evap, with Lead Circuit HGBP, Cycling HGRH on Both Circuits with Vari-Speed Cond Fan
- 1 - Al/Cu Cond, Al/Cu 6-Row Evap, no HGBP, Modulating HGRH on Lead Circuits, with Vari-Speed Cond Fan
- 2 - Al/Cu Cond, Al/Cu 6-Row Evap, no HGBP, Modulating HGRH on Both Circuits, with Vari-Speed Cond Fan
- 3 - Al/Cu Cond, Al/Cu 6-Row Evap, with Lead Circuit HGBP, Modulating HGRH on Lead Circuit with Vari-Speed Cond Fan
- 4 - Al/Cu Cond, Al/Cu 6-Row Evap, with Lead circuit HGBP, Modulating HGRH on Both Circuits, with Vari-Speed Cond Fan
- 5 - Al/Cu Cond, Al/Cu 6-Row Evap, no HGBP, Cycling HGRH on Both Circuits, with Vari-Speed Cond Fans, with Sub Cooling on All Circuits
- 6 - Al/Cu Cond, Al/Cu 6-Row Evap, no HGBP, Modulating HGRH on both circuits, with Vari-Speed Cond Fan, with Sub Cooling on All Circuits
- 7 - Al/Cu Cond, Al/Cu 6-Row Evap, with Lead Circuit HGBP, Cycling HGRH on Both Circuits, with Vari-Speed Cond Fan, with Sub Cooling on All Circuits
- 8 - Al/Cu Cond, Al/Cu 6-Row Evap, with Lead Circuit HGBP, Modulating HGRH on Both Circuits, with Vari-Speed Cond Fan, with Sub Cooling on All Circuits

**Voltage Options**

- 1 - 575-3-60 with Std Compressor
- 4 - 208-3-60 with Std Compressor
- 5 - 230-3-60 with Std Compressor
- 6 - 460-3-60 with Std Compressor
- A - 575-3-60 with Digital Compressor
- B - 208-3-60 with Digital Compressor
- C - 230-3-60 with Digital Compressor
- D - 460-3-60 with Digital Compressor
- E - 575-3-60 with Std Compressor and LonWorks
- F - 208-3-60 with Std Compressor and LonWorks
- G - 230-3-60 with Std Compressor and LonWorks
- H - 460-3-60 with Std Compressor and LonWorks
- J - 575-3-60 with Digital Compressor and LonWorks
- K - 208-3-60 with Digital Compressor and LonWorks
- L - 230-3-60 with Digital Compressor and LonWorks
- M - 460-3-60 with Digital Compressor and LonWorks

**LEGEND**

<b>AF</b>	- Airfoil	<b>HGBP</b>	- Hot Gas Bypass
<b>AI</b>	- Aluminum	<b>HGRH</b>	- Hot Gas Reheat
<b>BC</b>	- Backward Curve	<b>LSC</b>	- Liquid Subcooling
<b>BI</b>	- Backward Inclined	<b>OA</b>	- Outdoor Air
<b>Byp</b>	- Bypass	<b>RA</b>	- Return Air
<b>Cu</b>	- Copper	<b>TD</b>	- Temperature Defrost
<b>EM</b>	- Energy Management	<b>VFD</b>	- Variable Frequency Drive
<b>FC</b>	- Forward Curve		

**Factory Installed Options**  
Refer to price pages for available option codes

**Fan Size**

- A** - Standard FC Supply Fan
- B** - Standard BC Supply Fan
- C** - Standard AF Supply Fan
- D** - Oversize AF Supply Fan
- E** - Standard BI Supply Fan
- F** - Oversize BI Supply Fan
- G** - Standard FC Supply Fan and Standard FC Exhaust Fan
- H** - Standard FC Supply Fan and Oversize FC Exhaust Fan
- J** - Standard FC Supply Fan and Standard BC Supply Fan
- K** - Standard FC Supply Fan and Standard AF Exhaust Fan
- L** - Standard BC Supply Fan and Standard FC Exhaust Fan
- M** - Standard BC Supply Fan and Oversize FC Exhaust Fan
- N** - Standard BC Supply Fan and Standard BC Exhaust Fan
- P** - Standard BC Supply Fan and Standard AF Exhaust Fan
- Q** - Standard AF Supply Fan and Standard FC Exhaust Fan
- R** - Standard AF Supply Fan and Oversize FC Exhaust Fan
- S** - Standard AF Supply Fan and Standard BC Exhaust Fan
- T** - Standard AF Supply Fan and Standard AF Exhaust Fan
- V** - Standard AF Supply Fan and Oversize AF Exhaust Fan
- W** - Oversize AF Supply Fan and Standard BC Exhaust Fan
- X** - Oversize AF Supply Fan and Standard AF Exhaust Fan
- Y** - Oversize AF Supply Fan and Oversize AF Exhaust Fan
- Z** - Standard BI Supply Fan and Standard FC Exhaust Fan
- 1** - Standard BI Supply Fan and Oversize FC Exhaust fan
- 2** - Standard BI Supply Fan and Standard BC Exhaust Fan
- 3** - Standard BI Supply Fan and Standard AF Exhaust Fan
- 4** - Standard BI Supply Fan and Oversize AF Exhaust Fan
- 5** - Oversize BI Supply Fan and Standard Exhaust Fan
- 6** - Oversize BI Supply Fan and Oversize FC Exhaust Fan
- 7** - Oversize BI Supply Fan and Standard BC Exhaust Fan
- 8** - Oversize BI Supply Fan and Standard AF Exhaust Fan
- 9** - Oversize BI Supply Fan and Oversize AF Exhaust Fan

**Exhaust Fan Motor Options**

- None
- L** - 20 HP
- A** - 1/2 HP
- N** - 1 HP with VFD
- B** - 3/4 HP
- P** - 1 1/2 HP with VFD
- C** - 1 HP
- Q** - 2 HP with VFD
- D** - 1 1/2 HP
- R** - 3 HP with VFD
- E** - 2 HP
- S** - 5 HP with VFD
- F** - 3 HP
- T** - 7 1/2 HP with VFD
- G** - 5 HP
- V** - 10 HP with VFD
- H** - 7 1/2 HP
- W** - 15 HP with VFD
- J** - 10 HP
- X** - 20 HP with VFD
- K** - 15 HP

**Packaging / Filter Options**

- 1 - Domestic / 2" MERV 8 Filter
- A** - Domestic / 2" Metal Mesh Filter
- B** - Domestic / 4" MERV 8 Filter
- C** - Domestic / 4" MERV 11 Filter
- D** - Domestic / 4" MERV 15 Filter
- E** - Domestic / 2" MERV 8 Filter and 2" MERV 8 ECW Filter
- F** - Domestic / 2" Metal Mesh Filter and 2" MERV 8 ECW Filter
- G** - Domestic / 4" MERV 8 Filter and 4" MERV 8 ECW Filter
- H** - Domestic / 4" MERV 11 Filter and 4" MERV 8 ECW Filter
- J** - Domestic / 4" MERV 14 Filter and 4" MERV 8 ECW Filter

**Design Series**

- 2 - Revision 2

\* Horizontal units with heat require a BI fan.

† Use with modulating gas heat only.

\*\* Control valves must be field supplied.

†† Energy Conservation Wheel (ECW) options are not available on DA and DB models.

\*\*\* Recirculating unit.

# Ratings and capacities



## GAS HEAT CAPACITIES

UNIT SIZE 62D	INPUT (Btuh)	OUTPUT (Btuh)	NO. OF GAS HEAT SECTIONS	NO. OF STAGES	MODULATION RANGE (%)	MINIMUM ENTERING AIR TEMP (F)	MAXIMUM ENTERING AIR TEMP (F)	MINIMUM TEMP RISE (F)	MAXIMUM TEMP RISE (F)	MINIMUM LEAVING AIR TEMP (F)	MAXIMUM LEAVING AIR TEMP (F)
07-09	75,000	60,000	1	2	25-100	-20	75	25	90	50	165
	100,000	80,000	1	2	25-100						
	150,000	120,000	1	2	25-100						
	200,000	160,000	1	2	25-100						
12-20	150,000	120,000	1	2	25-100	-20	75	25	90	50	165
	200,000	160,000	1	2	25-100						
	250,000	200,000	1	2	25-100						
	300,000	240,000	1	2	25-100						
22-38	300,000	240,000	1	2	25-100	-20	75	25	90	50	165
	400,000	320,000	1	2	25-100						
	500,000	400,000	2	4	12.5-100						
	600,000	480,000	2	4	12.5-100						

## HYDRONIC HEATING COIL CAPACITIES

UNIT SIZE 62D	CFM	ENTERING AIR TEMP (F)	STEAM COIL			HOT WATER COIL					
			Steam Temp at 5 psig (F)	Total Btuh (1000)	Leaving Air Temp (F)	Entering Water Temp (F)	Entering Water Flow (gpm)	Total Btuh (1000)	Leaving Air Temp (F)	Leaving Water Temp (F)	Water Pressure Drop (ft wg)
07-09	1,300	70	180	87.7	132.2	180	10.9	106.2	145.3	160.5	1.1
	3,000	70	180	200.0	130.1	180	20.1	200.4	131.6	160.1	1.9
12-20	1,300	70	180	87.7	132.2	180	10.9	106.2	145.3	160.5	1.1
	3,900	70	180	255.0	130.3	180	26.2	260.6	131.6	160.1	2.1
	6,500	70	180	345.2	118.9	180	35.7	346.7	119.2	160.6	3.7
22-38	5,000	70	180	370.3	138.3	180	48.9	475.5	157.6	160.6	1.4
	8,000	70	180	493.9	126.9	180	68.0	662.0	146.3	160.5	2.7
	11,000	70	180	590.2	119.5	180	84.4	810.9	137.9	160.8	3.9

## STEAM HEATING COIL CAPACITIES

UNIT SIZE 62D	SCFM		ENTERING AIR TEMPERATURE — EDB (F)						
			-20	-10	0	10	20	30	40
07-09	1,300	TC LDB	155.1 89.6	148.9 95.1	142.6 100.7	136.3 106.3	130.0 111.9	123.8 117.4	117.5 123.0
	2,100	TC LDB	206.3 70.2	197.9 76.5	189.6 82.9	181.2 89.3	172.9 95.6	164.6 102.0	156.2 108.3
	3,000	TC LDB	250.5 56.7	240.4 63.6	230.2 70.5	220.1 77.1	210.0 84.3	199.9 91.2	189.7 98.1
12-20	1,300	TC LDB	155.1 89.6	148.9 95.1	142.6 100.7	136.3 106.3	130.0 111.9	123.8 117.4	117.5 123.0
	3,900	TC LDB	297.7 40.1	286.1 47.4	263.0 61.9	251.4 69.2	239.9 76.5	228.3 83.8	216.8 91.0
	6,000	TC LDB	349.8 33.5	335.7 41.4	321.5 49.2	307.4 57.0	293.3 64.9	279.1 72.7	265.0 80.6
22-38	5,000	TC LDB	441.2 61.0	423.4 67.8	405.5 74.5	387.7 81.2	369.9 87.9	352.0 94.7	334.2 101.4
	8,000	TC LDB	560.5 44.3	537.8 51.7	515.2 59.1	492.5 66.5	469.9 73.9	447.2 81.3	424.6 88.7
	12,000	TC LDB	674.7 31.6	647.4 39.5	620.1 47.5	592.9 55.4	565.6 63.3	538.3 71.2	511.1 79.1

### LEGEND

NOTE: 6500 cfm is 542 ft per minute velocity (face).

- EDB — Entering Air Temperature (F)
- LDB — Leaving Dry Bulb Temperature (F)
- TC — Total Capacity (Btu/h)



### ENERGY CONSERVATION WHEEL CAPACITIES

UNIT SIZE 62D	WHEEL DIAMETER (in.)	WHEEL THICKNESS (in.)	MAXIMUM AIRFLOW (cfm)	AIR PRESSURE DROP (in. wg)	HEATING			
					Return Air Temp (db/wb)(F)	Entering Outdoor Air Temp (F)	Leaving Air Temp (F)	Sensible Btuh
07-09	36	4	3000	1.37	70.0/58.0	0.0	42.5	144,892
12-20	36	4	2700	1.23	70.0/58.0	0.0	42.5	136,215
	48	4	4500	1.15	70.0/58.0	0.0	47.3	233,423
22-38	42	4	3600	1.20	70.0/58.0	0.0	43.1	183,432
	48	4	4500	1.15	70.0/58.0	0.0	47.3	233,423
	54	4	8000	1.15	70.0/58.0	0.0	48.4	368,300

#### LEGEND

**db** — Dry Bulb Temperature  
**wb** — Wet Bulb Temperature

### ELECTRIC HEAT CAPACITIES

UNIT SIZE 62D	ELECTRIC HEAT kW (240,480 / 208)	AMPS			MINIMUM ENTERING AIR TEMP (F)	MAXIMUM ENTERING AIR TEMP (F)	MINIMUM TEMP RISE (F)	MAXIMUM TEMP RISE (F)	MINIMUM LEAVING AIR TEMP (F)	MAXIMUM LEAVING AIR TEMP (F)
		240 v	480 v	208 v						
07-09	10.0 / 7.5	24.1	12.0	20.8	-20	75	N/A	76	N/A	151
	15.0 / 11.3	36.1	18.0	31.4						
	20.0 / 15.0	48.1	24.1	41.6						
	25.0 / 18.8	60.1	30.1	52.2						
	30.0 / 22.5	72.2	36.1	62.5						
	35.0 / 26.3	84.2	42.1	73.0						
	40.0 / 30.0	96.2	48.1	83.3						
12-20	10.0 / 7.5	24.1	12.0	20.8	-20	75	N/A	76	N/A	151
	15.0 / 11.3	36.1	18.0	31.4						
	20.0 / 15.0	48.1	24.1	41.6						
	25.0 / 18.8	60.1	30.1	52.2						
	30.0 / 22.5	72.2	36.1	62.5						
	35.0 / 26.3	84.2	42.1	73.0						
	40.0 / 30.0	96.2	48.1	83.3						
22-38	50.0 / 37.5	120.3	60.1	104.1	-20	75	N/A	76	N/A	151
	60.0 / 45.0	144.3	72.2	124.9						
	10.0 / 7.5	24.1	12.0	20.8						
	15.0 / 11.3	36.1	18.0	31.4						
	20.0 / 15.0	48.1	24.1	41.6						
	30.0 / 22.5	72.2	36.1	62.5						
	40.0 / 30.0	96.2	48.1	83.3						
22-38	50.0 / 37.5	120.3	60.1	104.1	-20	75	N/A	76	N/A	151
	60.0 / 45.0	144.3	72.2	124.9						

### AIRFLOW LIMITS

UNIT SIZE 62D	62DA,DB,DC,DD*		62DC,DD,DE,DF†	
	Min. CFM	Max. CFM	Min. CFM	Max. CFM
07	700	1,500	1,500	2,500
08	800	1,800	1,800	3,000
09	900	2,100	2,100	3,500
12	1,100	2,200	2,200	3,700
14	1,350	2,900	2,900	4,600
15	1,700	3,600	3,600	5,800
16	2,000	4,400	4,400	6,500
20	2,400	4,400	4,400	6,500
22	2,400	4,400	4,400	6,500
24	2,400	6,000	6,000	9,000
30	3,400	9,000	7,000	11,000
34	4,000	8,000	8,000	12,000
38	4,800	9,000	9,000	12,000

\* 62DC and DD without ECW.

† 62DC and DD with ECW.

# Physical data — 62DA,DB units



UNIT 62DA,DB	07	08	09	12	14	15	16
<b>NOMINAL CAPACITY (TONS)</b>	6	7	8	10	12	14	15
<b>COMPRESSOR</b> Quantity/Unit ... Model Number of Refrigerant Circuits Oil	1 ... ZP51 1 Pre-Charged	1 ... ZP61 1 Pre-Charged	1 ... ZP72 2 Pre-Charged	2 ... ZP42 2 ... ZP51 2 Pre-Charged	2 ... ZP67 2 ... ZP83		
<b>REFRIGERANT TYPE</b> Operating Charge per circuit (lb-oz)		R-410A 15-1	15-3		R-410A 14-8	16-8	16-3
<b>CONDENSER COIL</b> Rows ... Fins/in. Face Area (sq ft)		2 ... 16 12.38			2 ... 16 24.75		
<b>CONDENSER FAN</b> Nominal Cfm (total) Quantity ... Diameter (in.) Motor Hp	4000 1 ... 24 1/2	5500 1 ... 26 3/4		8000 2 ... 24 1/2		11,000 2 ... 26 3/4	
<b>HIGH-PRESSURE SWITCH (PSIG)</b> Cutout Reset (Manual)		640 595			640 595		
<b>EVAPORATOR COIL</b> Tube Size (in.) Rows ... Fins/in. Face Area (sq ft)		3/8 6 ... 12 3.00	7.5		3/8 6 ... 12 8.0		12.0
<b>EVAPORATOR FAN</b> Backward Curved (mm) Forward Curved (in.) Airfoil (in.) Oversize Airfoil (in.) Backward Inclined (in.) Oversize Backward Inclined (in.) Nominal Cfm 100% OA Motor Hp Range		180 12 x 9		12 x 12 15 18.5		N/A N/A 15 x 15	
	1000 1/2 - 5	1200 1/2 - 5	1400	1500 3/4 - 5	1900	2300 1 - 10	2800
<b>OPTIONAL REHEAT COIL</b>	24 x 38 in., 1 Row, 12 FPI, with 3/8-in. Tube Size						
<b>OPTIONAL SUBCOOLING COIL</b>	24 x 38 in., 1 Row, 12 FPI, with 3/8-in. Tube Size						
<b>LOW-PRESSURE SWITCH (PSIG)</b> Cutout Reset (Auto)		99 135			99 135		
<b>CONDENSATE DRAIN CONNECTION (NPT) (in.)</b>	1 1/4						
<b>OPTIONAL GAS HEAT FURNACE SECTION</b> Gas Input Sizes (Btuh x 1000) Control Type Staged (no. of stages) Modulating (% range) Efficiency (Steady State) (%) Supply Line Pressure Range (in. wg) Rollout Switch Cutout Temp (F) Gas Valve Quantity Manifold Pressure (in. wg) Natural Gas Std LP Gas Special Order		75, 100, 150, 200 2 25 - 100 82 5.0 min. - 13.0 max. 350 1 Std - 2 with Modulating Option 3.5 10.0		150, 200, 250, 300 2 25 - 100 82 5.0 min. - 13.0 max. 350 1 Std - 2 with Modulating Option 3.5 10.0			
<b>OPTIONAL ELECTRIC HEAT</b> Size Range (kW) Control Type Staged (no. of stages) SCR (% range)		10,15,20, 25,30,35,40 2 0 - 100			10,15,20, 25,30,35,40,50,60 2 0 - 100		
<b>OPTIONAL HOT WATER HEAT COIL</b>	24 x 38 in., 2 Row, 10 FPI, with 1/2-in. Tube Size						
<b>OPTIONAL STEAM HEAT COIL</b>	24 x 38 in., 1 Row, 8 FPI, with 5/8-in. Tube Size						
<b>OUTDOOR AIR FILTERS</b> Quantity ... Size (in.) Standard 2 in. MERV 8 Optional 2 in. Metal Mesh Optional 4 in. MERV 8 MERV 11 MERV 14		4 ... 20x24 4 ... 20x24			4 ... 20x24 4 ... 20x24		
		4 ... 20x24 4 ... 20x24			4 ... 20x24 4 ... 20x24		
		4 ... 20x24 4 ... 20x24			4 ... 20x24 4 ... 20x24		

## LEGEND

- FPI — Fins per Inch  
 LP — Liquid Propane  
 OA — Outdoor Air  
 SCR — Silicon-Controlled Rectifier



UNIT 62DA,DB	20	22	24	30	34	38
NOMINAL CAPACITY (TONS)	18	19	20	27	30	35
COMPRESSOR Quantity/Unit ... Model Number of Refrigerant Circuits Oil	2 ... ZP90	2 ... ZP90	2 ... ZP103	2 ... ZP137	2 ... ZP180	2 ... ZP90/2 ... ZP90 2 Pre-Charged
REFRIGERANT TYPE Operating Charge per circuit (lb-oz)	17-1	25-1	25-5	25-10	26-4	32-1
CONDENSER COIL Rows ... Fins/in. Face Area (sq ft)	2 ... 16 24.75			2 ... 16 42.6		3 ... 12
CONDENSER FAN Nominal Cfm (total) Quantity ... Diameter (in.) Motor Hp	11,000 2 ... 26 $\frac{3}{4}$		11,000 2 ... 26 1			20,000 2 ... 30 $1\frac{1}{2}$
HIGH-PRESSURE SWITCH (PSIG) Cutout Reset (Manual)				640 595		
EVAPORATOR COIL Tube Size (in.) Rows ... Fins/in. Face Area (sq ft)				$\frac{3}{8}$ 6 ... 12		23.0
EVAPORATOR FAN Backward Curved (mm) Forward Curved (in.) Airfoil (in.) Oversize Airfoil (in.) Backward Inclined (in.) Oversize Backward Inclined (in.) Nominal Cfm 100% OA Motor Hp Range	12 x 12 15 x 15 15 18.5 3100 $1\frac{1}{2}$ - 10			N/A N/A 15 x 15 18 x 18 24.5 27		6200
OPTIONAL REHEAT COIL				36 x 44 in., 1 Row, 12 FPI, with $\frac{3}{8}$ -in. Tube Size		
OPTIONAL SUBCOOLING COIL				36 x 44 in., 1 Row, 12 FPI, with $\frac{3}{8}$ -in. Tube Size		
LOW-PRESSURE SWITCH (PSIG) Cutout Reset (Auto)				99 135		
CONDENSATE DRAIN CONNECTION (NPT) (in.)				1 $\frac{1}{4}$		
OPTIONAL GAS HEAT FURNACE SECTION Gas Input Sizes (Btuh x 1000)	150, 200, 250, 300			300, 400, 500, 600		
Control Type Staged (no. of stages) Modulating (% range)	2			2 (Low Heat) / 4 (High Heat) 25 - 100 82		
Efficiency (Steady State) (%) Supply Line Pressure Range (in.wg)				5.0 min. - 13.0 max.		
Rollout Switch Cutout Temp (F) Gas Valve Quantity				350		
Manifold Pressure (in. wg) Natural Gas Std LP Gas Special Order				1 Std - 2 with Modulating Option		
3.5 10.0						
OPTIONAL ELECTRIC HEAT Size Range (kW)	10,15,20,25,30, 35,40,50,60			10,15,20,30,40,50,60		
Control Type Staged (no. of stages) SCR (% range)				2 0 - 100		
OPTIONAL HOT WATER HEAT COIL				45 x 38 in., 2 Row, 10 FPI, with $\frac{5}{8}$ -in. Tube Size		
OPTIONAL STEAM HEAT COIL				45 x 38 in., 1 Row, 8 FPI, with $\frac{5}{8}$ -in. Tube Size		
OUTDOOR AIR FILTERS Quantity ... Size (in.) Standard 2 in. MERV 8 Optional 2 in. Metal Mesh Optional 4 in. MERV 8 MERV 11 MERV 14	4 ... 20x24 4 ... 20x24 4 ... 20x24 4 ... 20x24 4 ... 20x24			2 ... 20x24, 2 ... 24x24 2 ... 20x24, 2 ... 24x24		

#### LEGEND

- FPI — Fins per Inch  
 LP — Liquid Propane  
 OA — Outdoor Air  
 SCR — Silicon-Controlled Rectifier

# Physical data — 62DC,DD,DE,DF units



UNIT 62DC,DD,DE,DF	07	08	09	12	14	15	16	20
NOMINAL CAPACITY (TONS)	6	7	8	10	12	14	15	18
COMPRESSOR Quantity/Unit ... Model Number of Refrigerant Circuits Oil	1 ... ZP51 1 Pre-Charged	1 ... ZP61 1 ... ZP72	2 ... ZP42 2 ... ZP51 2 ... ZP67 2 ... ZP83 2 ... ZP90	2 ... ZP42 2 ... ZP51 2 ... ZP67 2 ... ZP83 2 ... ZP90	2 ... ZP67 2 ... ZP83 2 ... ZP90	2 ... ZP67 2 ... ZP83 2 ... ZP90	2 ... ZP67 2 ... ZP83 2 ... ZP90	2 ... ZP67 2 ... ZP83 2 ... ZP90
REFRIGERANT TYPE Operating Charge per Circuit (lb-oz)	R-410A 12-13 15-1	R-410A 15-3	R-410A 14-9	R-410A 14-8	R-410A 16-8	R-410A 16-3	R-410A 17-1	
CONDENSER COIL Rows ... Fins/in. Face Area (sq ft)		2 ... 16 12.38			2 ... 16 24.75			
CONDENSER FAN Nominal Cfm (total) Quantity ... Diameter (in.) Motor Hp	4000 1 ... 24 1/2	5500 1 ... 26 3/4	8000 2 ... 24 1/2	11,000 2 ... 26 3/4				
HIGH-PRESSURE SWITCH (PSIG) Cutout Reset (Manual)		640 595			640 595			
EVAPORATOR COIL* Tube Size (in.) Rows ... Fins/in. Face Area (sq ft)		3/8 4 ... 12 7.5		3/8 4 ... 12 12.0		3/8 6 ... 12 12.0		
EVAPORATOR FAN Backward Curved (mm) Forward Curved (in.) Airfoil (in.) Oversize Airfoil (in.) Backward Inclined (in.) Oversize Backward Inclined (in.) Nominal Cfm 100% OA Motor Hp Range		180 12 x 9		12 x 12	15 x 15			
OPTIONAL REHEAT COIL			24 x 38 in., 1 Row, 12 FPI, with 3/8-in. Tube Size					
OPTIONAL SUBCOOLING COIL			24 x 38 in., 1 Row, 12 FPI, with 3/8-in. Tube Size					
LOW-PRESSURE SWITCH (PSIG) Cutout Reset (Auto)		99 135			99 135			
CONDENSATE DRAIN CONNECTION (NPT) (in.)		1 1/4			1 1/4			
OPTIONAL GAS HEAT FURNACE SECTION Gas Input Sizes (Btuh x 1000) Control Type		75, 100, 150, 200			150, 200, 250, 300			
Staged (no. of stages) Modulating (% range) Efficiency (Steady State) (%) Supply Line Pressure Range (in. wg) Rollout Switch Cutout Temp (F) Gas Valve Quantity Manifold Pressure (in. wg) Natural Gas Std LP Gas Special Order		2 25 - 100 82 5.0 min. - 13.0 max. 350 1 Std - 2 with Modulating Option			2 25 - 100 82 5.0 min. - 13.0 max. 350 1 Std - 2 with Modulating Option			
OPTIONAL ELECTRIC HEAT Size Range (kW) Control Type Staged (no. of stages) SCR (% range)		10,15,20,25,30,35,40			10,15,20,25,30,35,40,50,60			
OPTIONAL HOT WATER HEAT COIL		2 0 - 100			2 0 - 100			
OPTIONAL STEAM HEAT COIL			24 x 38 in., 2 Row, 10 FPI, with 1/2-in. Tube Size					
OUTDOOR AIR FILTERS Quantity ... Size (in.) Standard 2 in. MERV 8 Optional 2 in. Metal Mesh Optional 4 in. MERV 8 MERV 11 MERV 14		4 ... 20x24 4 ... 20x24 4 ... 20x24 4 ... 20x24 4 ... 20x24			4 ... 20x24 4 ... 20x24 4 ... 20x24 4 ... 20x24 4 ... 20x24			
OPTIONAL ECW Type Size (in.)		Molecular Sieve 36			Molecular Sieve 36 or 48			
OPTIONAL ECW FILTERS Quantity ... Size (in.) with 36 in. ECW with 42 in. ECW with 48 in. ECW with 54 in. ECW		2 ... 20x24, 2 ... 20x20 N/A N/A			2 ... 20x24, 2 ... 20x20 N/A 4 ... 20x24, 2 ... 12x24			
OPTIONAL EXHAUST FAN Backward Curved (mm) Forward Curved (in.) Oversize Forward Curved (in.) Airfoil (in.) Oversize Air Foil (in.) Motor Hp Range		9 x 7 12 x 9 1/2 - 5		180 mm 12 x 12 N/A		N/A N/A 1/2 - 10		

## LEGEND

- ECW — Energy Conservation Wheel  
 FPI — Fins per Inch  
 LP — Liquefied Petroleum  
 OA — Outdoor Air  
 SCR — Silicon-Controlled Rectifier

\* 62DC,DD units without the ECW option use a 6-row evaporator coil.



UNIT 62DC,DD,DE,DF	22	24	30	34	38
NOMINAL CAPACITY (TONS)	19	20	27	30	35
COMPRESSOR					
Quantity/Unit ... Model	2 ... ZP90	2 ... ZP103	2 ... ZP137	2 ... ZP180	2 ... ZP90/2 ... ZP90
Number of Refrigerant Circuits			2		
Oil			Pre-Charged		
REFRIGERANT TYPE			R-410A		
Operating Charge per Circuit (lb-oz)	25-1	25-5	25-10	26-4	32-1
CONDENSER COIL					
Rows ... Fins/in.			2 ... 16		3 ... 12
Face Area (sq ft)				42.6	
CONDENSER FAN					
Nominal Cfm (total)	11,000			20,000	
Quantity ... Diameter (in.)	2 ... 26			2 ... 30	
Motor Hp	1			1 1/2	
HIGH-PRESSURE SWITCH (PSIG)					
Cutout			640		
Reset (Manual)			595		
EVAPORATOR COIL*					
Tube Size (in.)			3/8		3/8
Rows ... Fins/in.			4 ... 12		6 ... 12
Face Area (sq ft)			23.0		23.0
EVAPORATOR FAN					
Backward Curved (mm)				N/A	
Forward Curved (in.)				N/A	
Airfoil (in.)				15 x 15	
Oversize Airfoil (in.)				18 x 18	
Backward Inclined (in.)				24.5	
Oversize Backward Inclined (in.)				27	
Nominal Cfm 100% OA	2900	3600	4600	5300	6200
Motor Hp Range	1 1/2 - 10	1 1/2 - 15		2 - 20	
OPTIONAL REHEAT COIL			36 x 44 in., 1 Row, 12 FPI, with 3/8-in. Tube Size		
OPTIONAL SUBCOOLING COIL			36 x 44 in., 1 Row, 12 FPI, with 3/8-in. Tube Size		
LOW-PRESSURE SWITCH (PSIG)					
Cutout			99		
Reset (Auto)			135		
CONDENSATE DRAIN CONNECTION (NPT) (in.)			1 1/4		
OPTIONAL GAS HEAT FURNACE SECTION					
Gas Input Sizes (MBtuh)			300, 400, 500, 600		
Control Type					
Staged (no. of stages)			2 (300 and 400) / 4 (500 and 600)		
Modulating (% range)			25 - 100		
Efficiency (Steady State) (%)			82		
Supply Line Pressure Range (in. wg)			5.0 min. - 13.0 max.		
Rollout Switch Cutout Temp (F)			350		
Gas Valve Quantity			1 Std - 2 with Modulating Option		
Manifold Pressure (in. wg)					
Natural Gas Std			3.5		
LP Gas Special Order			10.0		
OPTIONAL ELECTRIC HEAT					
Size Range (kW)			10, 15, 20, 30, 40, 50, 60		
Control Type					
Staged (no. of stages)			2		
SCR (% range)			0 - 100		
OPTIONAL HOT WATER HEAT COIL			45 x 38 in., 2 Row, 10 FPI, with 5/8-in. Tube Size		
OPTIONAL STEAM HEAT COIL			45 x 38 in., 1 Row, 8 FPI, with 5/8-in. Tube Size		
OUTDOOR AIR FILTERS					
Quantity ... Size (in.)					
Standard 2 in. MERV 8			2 ... 20x24, 2 ... 24x24		
Optional 2 in. Metal Mesh			2 ... 20x24, 2 ... 24x24		
Optional 4 in.					
MERV 8			2 ... 20x24, 2 ... 24x24		
MERV 11			2 ... 20x24, 2 ... 24x24		
MERV 14			2 ... 20x24, 2 ... 24x24		
OPTIONAL ECW					
Type			Molecular Sieve		
Size (in.)			42 or 48		
OPTIONAL ECW FILTERS					
Quantity ... Size (in.)			N/A		
with 36 in. ECW			4 ... 20x24, 2 ... 12x24		
with 42 in. ECW			6 ... 18x24		
with 48 in. ECW			6 ... 18x24		
with 54 in. ECW					
OPTIONAL EXHAUST FAN					
Backward Curved (mm)			180		
Forward Curved (in.)			N/A		
Oversize Forward Curved (in.)			N/A		
Airfoil (in.)			15 x 15		
Oversize Air Foil (in.)			18 x 18		
Motor Hp Range			1/2 - 20		

#### LEGEND

- ECW** — Energy Conservation Wheel  
**FPI** — Fins per Inch  
**LP** — Liquefied Petroleum  
**OA** — Outdoor Air  
**SCR** — Silicon-Controlled Rectifier

\* 62DC,DD units without the ECW option use a 6-row evaporator coil.

# Physical data (cont)



## UNIT AND COMPONENT WEIGHTS (lb)

COMPONENT	62D UNIT SIZE												
	07	08	09	12	14	15	16	20	22	24	30	34	38
<b>Base Unit</b>	1650	1690	1710	1910	1960	2120	2060	2080	3375	3475	3575	3655	4075
<b>Hot Gas Reheat</b>	35	35	35	75	75	75	75	75	120	120	120	120	120
<b>Liquid Subcooling Coil</b>	25	25	25	55	55	55	55	55	100	100	100	100	100
<b>Gas Furnace (Btuh)</b>													
75,000	140	140	140	—	—	—	—	—	—	—	—	—	—
100,000	150	150	150	—	—	—	—	—	—	—	—	—	—
150,000	160	160	160	160	160	160	160	160	—	—	—	—	—
200,000	170	170	170	170	170	170	170	170	—	—	—	—	—
250,000	—	—	—	210	210	210	210	210	—	—	—	—	—
300,000	—	—	—	250	250	250	250	250	250	250	250	250	250
400,000	—	—	—	—	—	—	—	—	275	275	275	275	275
500,000	—	—	—	—	—	—	—	—	420	420	420	420	420
600,000	—	—	—	—	—	—	—	—	500	500	500	500	500
<b>Electric Heater</b>	75	75	75	75	75	75	75	75	100	100	100	100	100
<b>Steam Coil</b>	60	60	60	60	60	60	60	60	120	120	120	120	120
<b>Hot Water Coil</b>	75	75	75	75	75	75	75	75	150	150	150	150	150
<b>Wheel Bypass Dampers</b>	60	60	60	60	60	60	60	60	125	125	125	125	125
<b>Energy Conservation Wheel</b>	350	350	350	420	420	420	420	420	470	470	470	470	470
<b>Power Exhaust</b>	345	345	345	375	375	375	375	375	525	525	525	525	525
<b>Economizer</b>	60	60	60	60	60	60	60	60	125	125	125	125	125
<b>Curb 14-in.</b>	275	275	275	275	275	275	275	275	305	305	305	305	305
<b>Curb 24-in.</b>	375	375	375	375	375	375	375	375	425	425	425	425	425

# Options and accessories



ITEM	OPTION*	ACCESSORY†
<b>Heat Options</b>		
Gas Heat	X	
Gas Heat with Override	X	
Modulating Gas Heat	X	
Electric Heat	X	
SCR Controlled Electric Heat	X	
Hot Water Heating Coil	X	
Steam Heating Coil	X	
LP Kit		X
<b>Energy Conservation Wheel Options</b>		
Standard Wheel	X	
Optional Wheel	X	
Wheel with VFD Defrost Control	X	
Wheel with Bypass Dampers	X	
<b>Control Options</b>		
Filter Status Switch	X	
Return Air Smoke Detector	X	
CO <sub>2</sub> Sensor	X	
Phase/Voltage Monitor with Energy Management Relay	X	
Firestat	X	
Convenience Outlet	X	
Fused Disconnect Switch	X	
Digital Compressor	X	
BACview Keypad/Display		X
LonWorks Communication		
<b>Head Pressure Control</b>		
Fan Cycling	X	
Variable Speed	X	
<b>Coil Options</b>		
Hot Gas Reheat	X	
Liquid Subcooling Coil	X	
Corrosion Protection	X	
<b>Filter Options</b>		
2-in. MERV 8 Filters	X	X
4-in. MERV 8 Filters	X	X
4-in. MERV 11 Filters	X	X
4-in. MERV 13 Filters		X
4-in. MERV 14 Filters	X	
2-in. Metal Mesh Filters	X	
<b>Supply Fan Options</b>		
Backward Curved Fan	X	
Forward Curved Fan	X	
Airfoil Fan	X	
Oversize Airfoil Fan	X	
Backward Inclined Fan	X	
Oversize Backward Inclined Fan	X	
<b>VFD Control</b>		
Modulating Fan	X	
<b>Exhaust Fan Options</b>		
Backward Curved Fan	X	
Forward Curved Fan	X	
Oversized Forward Curved Fan	X	
Airfoil Fan	X	
Oversize Airfoil Fan	X	
Modulating Fan	X	
14-in. Factory-Assembled Roof Curb		X
24-in. Factory-Assembled Roof Curb		X
14-in. Field-Assembled Roof Curb		X
24-in. Field-Assembled Roof Curb		X
Spring Type Fan Isolation	X	
Minimum Load Valve (Hot Gas Bypass)	X	

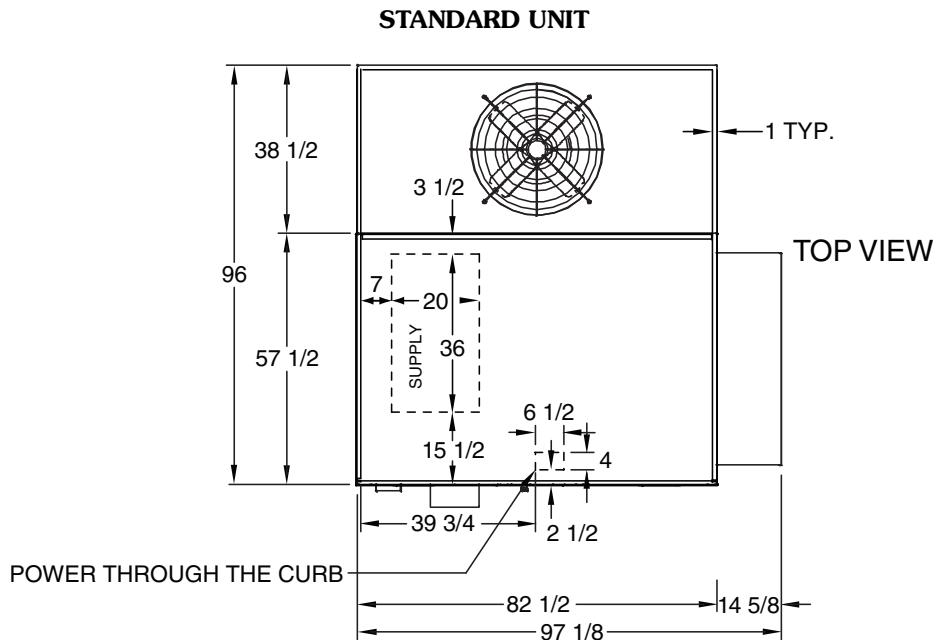
LEGEND

SCR — Silicon Controlled Rectifier  
 VFD — Variable Frequency Drive

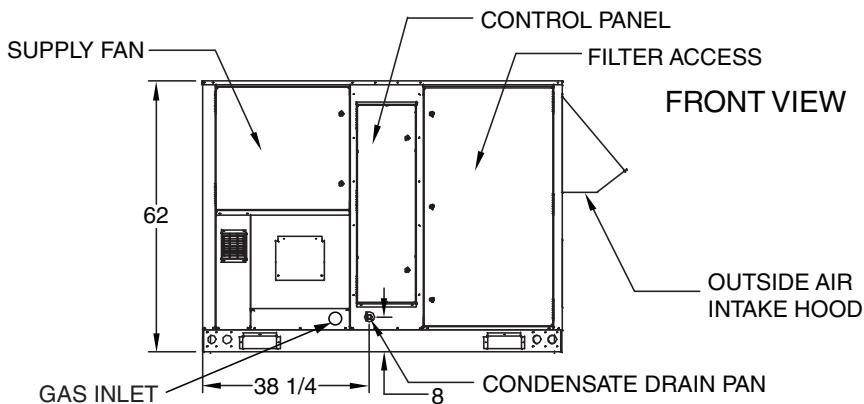
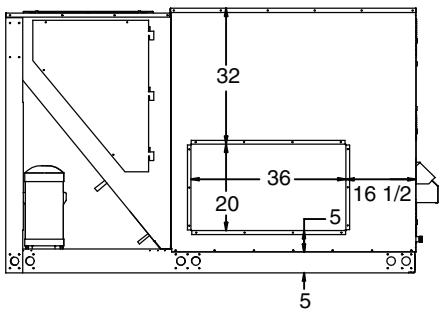
\*Factory installed.

†Field installed.

# Base unit dimensions — 62DA,DB07-09



**SIDE VIEW  
(HORIZONTAL SUPPLY)**



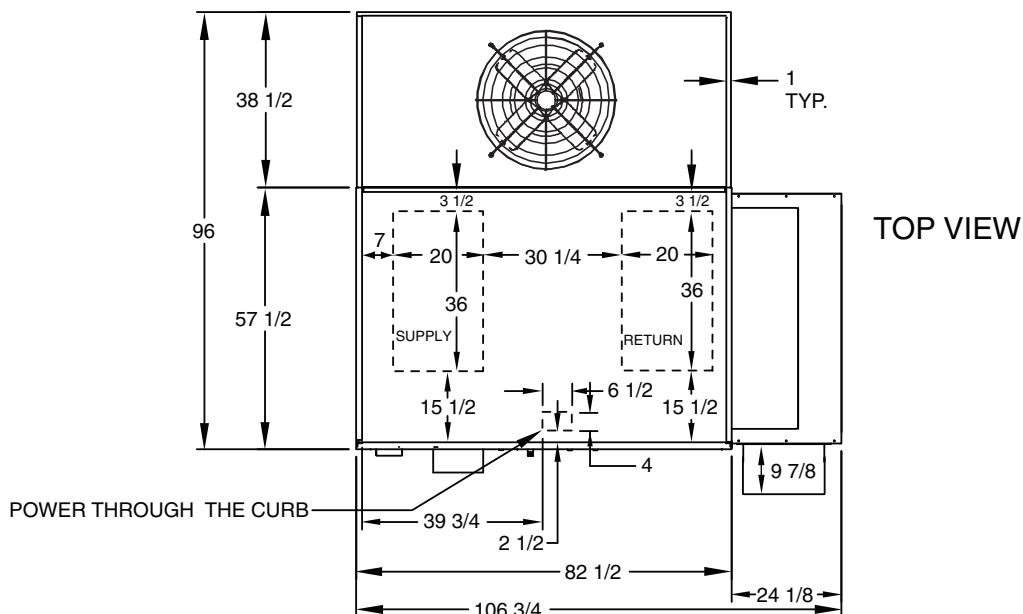
**NOTES:**

1. Carrier recommends a minimum of 24 to 36-in. of service clearance on all sides of unit except for the control panel side, which should have at least 48-in. clearance. Top should be unobstructed.
2. Dimensions are in inches.

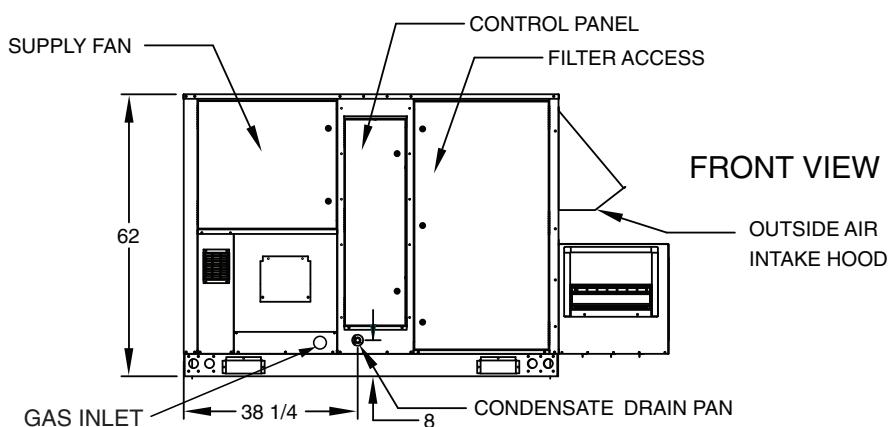
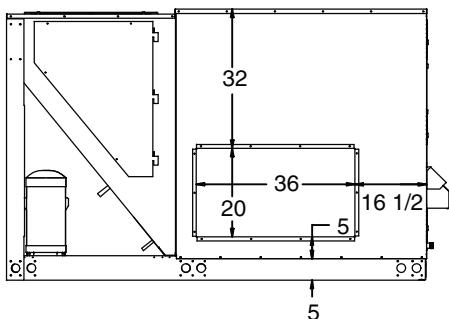
# Base unit dimensions — 62DC,DD,DE,DF07-09



UNIT WITH OPTIONAL EXHAUST



SIDE VIEW  
(HORIZONTAL SUPPLY)



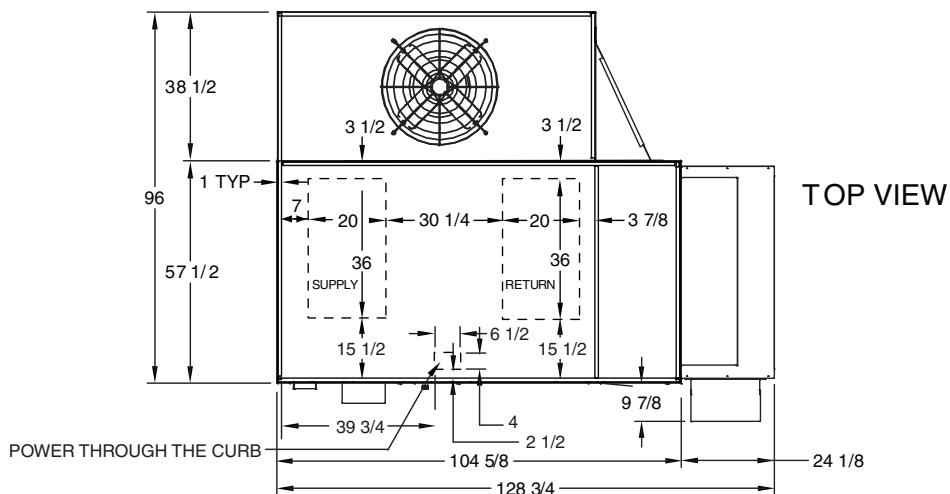
NOTES:

1. Carrier recommends a minimum of 24 to 36-in. of service clearance on all sides of unit except for the control panel side, which should have at least 48-in. clearance. Top should be unobstructed.
2. Dimensions are in inches.

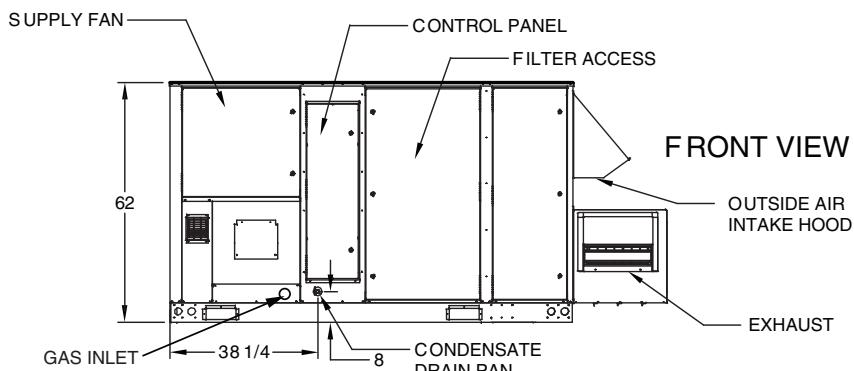
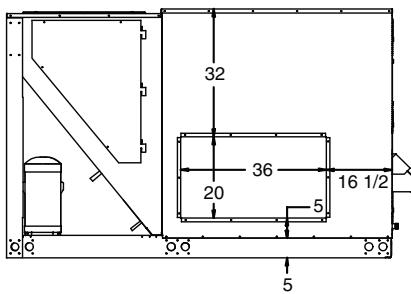
# Base unit dimensions — 62DC,DD,DE,DF07-09



**UNIT WITH OPTIONAL ENERGY CONSERVATION WHEEL**



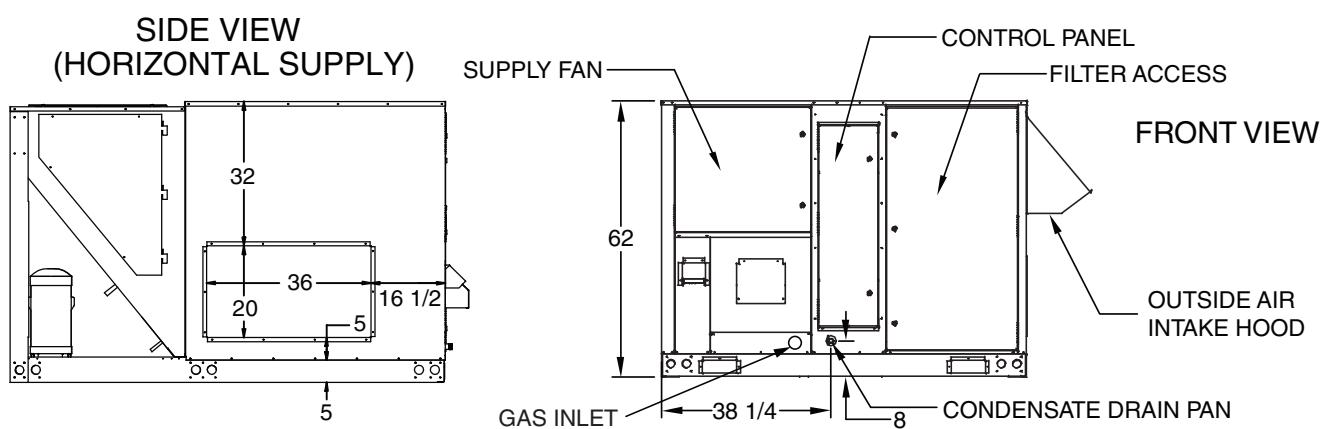
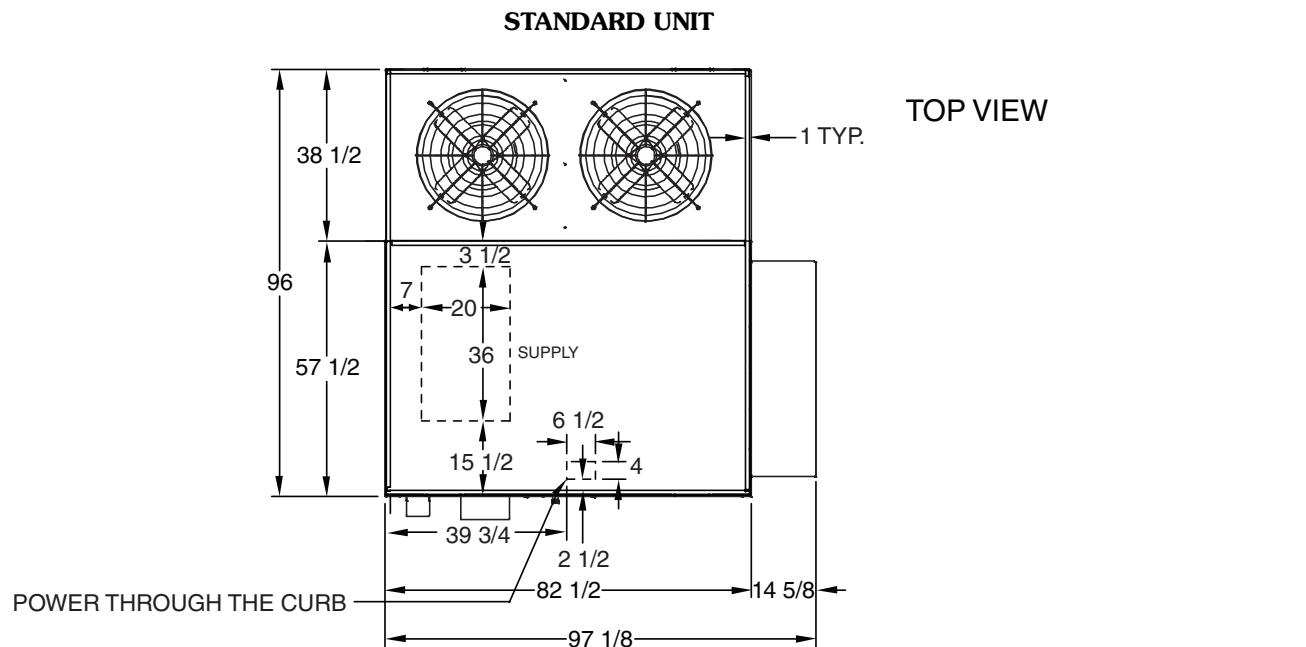
**SIDE VIEW  
(HORIZONTAL SUPPLY)**



**NOTES:**

1. Carrier recommends a minimum of 24 to 36-in. of service clearance on all sides of unit except for the control panel side, which should have at least 48-in. clearance. Top should be unobstructed.
2. Dimensions are in inches.

# Base unit dimensions — 62DA,DB12-20



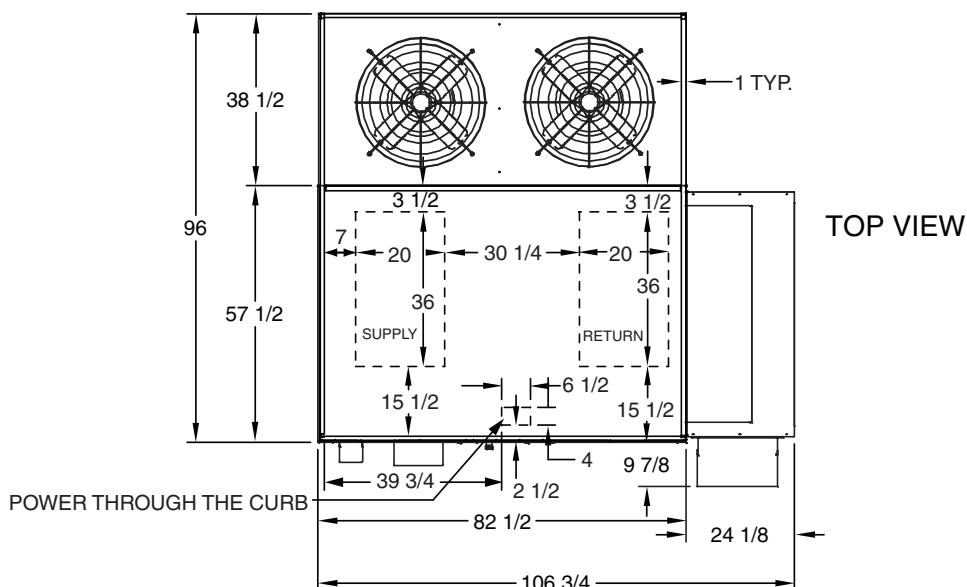
NOTES:

- Carrier recommends a minimum of 24 to 36-in. of service clearance on all sides of unit except for the control panel side, which should have at least 48-in. clearance. Top should be unobstructed.
- Dimensions are in inches.

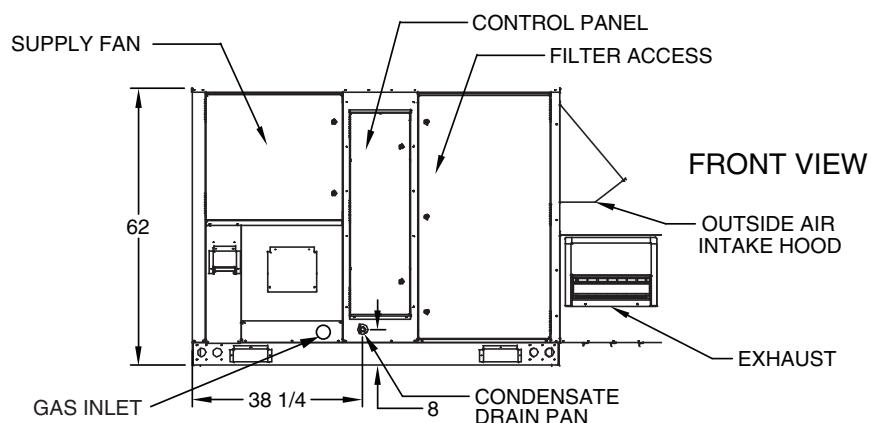
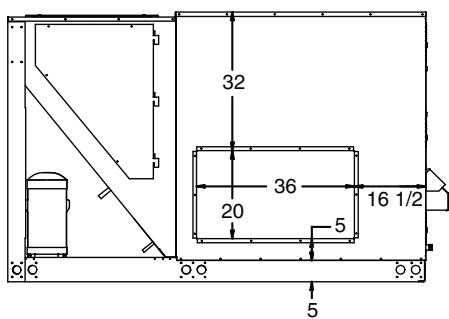
# Base unit dimensions — 62DC,DD,DE,DF12-20



**UNIT WITH OPTIONAL EXHAUST**

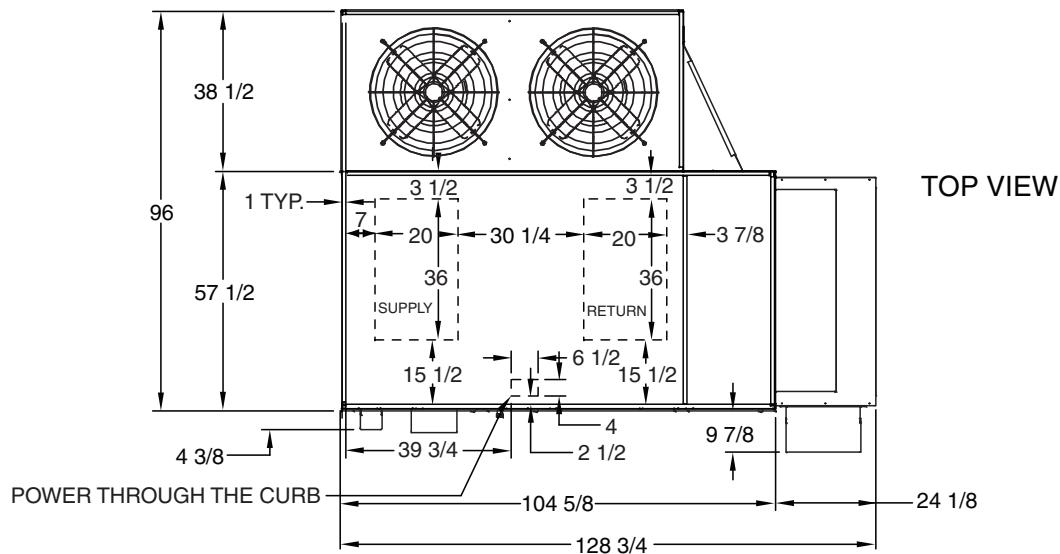


**SIDE VIEW  
(HORIZONTAL SUPPLY)**

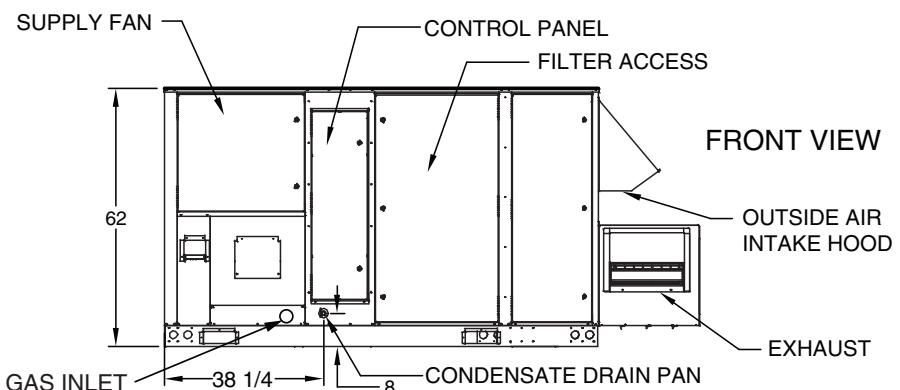
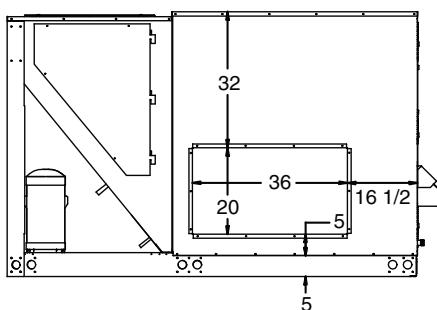


**NOTES:**

1. Carrier recommends a minimum of 24 to 36-in. of service clearance on all sides of unit except for the control panel side, which should have at least 48-in. clearance. Top should be unobstructed.
2. Dimensions are in inches.

**UNIT WITH OPTIONAL ENERGY CONSERVATION WHEEL**


**SIDE VIEW  
(HORIZONTAL SUPPLY)**



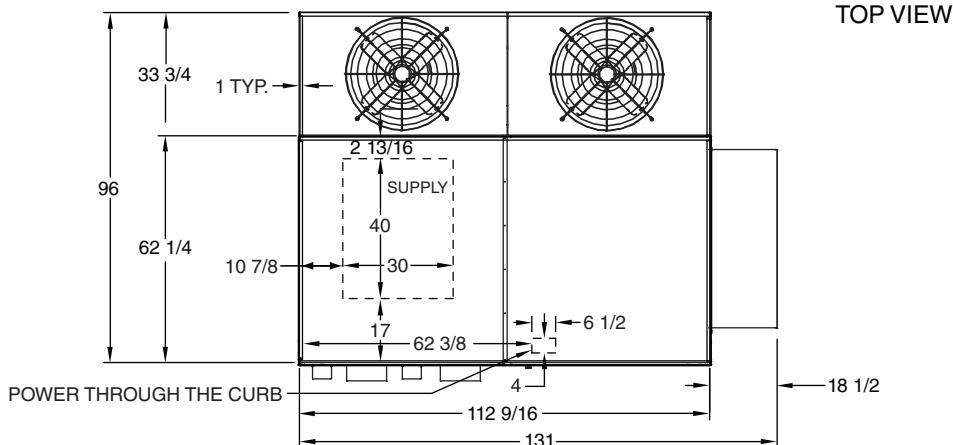
**NOTES:**

1. Carrier recommends a minimum of 24 to 36-in. of service clearance on all sides of unit except for the control panel side, which should have at least 48-in. clearance. Top should be unobstructed.
2. Dimensions are in inches.

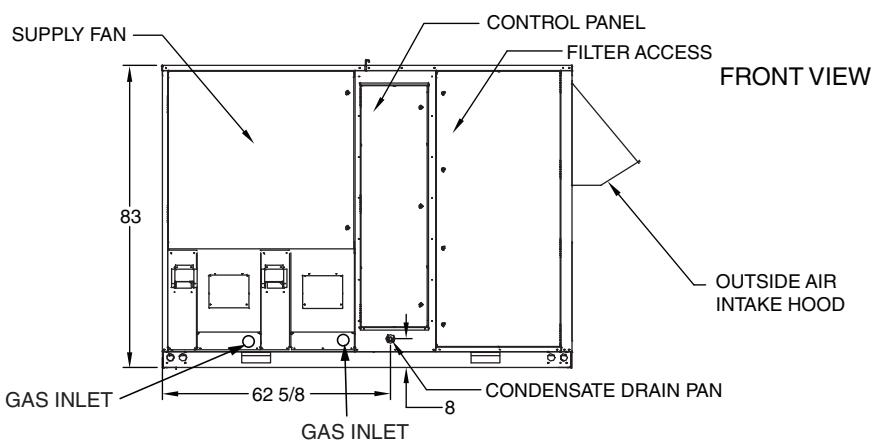
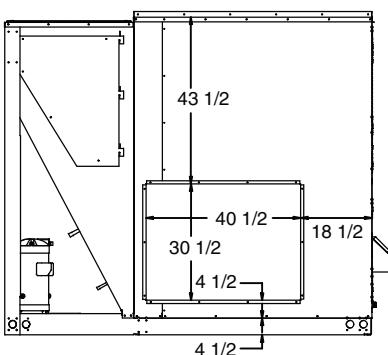
# Base unit dimensions — 62DA,DB22-38



**STANDARD UNIT**



**SIDE VIEW  
(HORIZONTAL SUPPLY)**



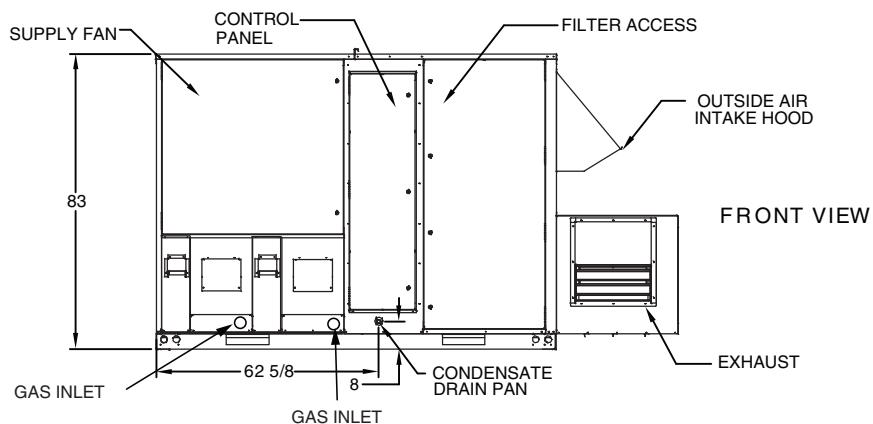
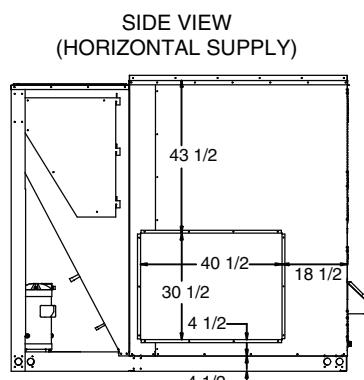
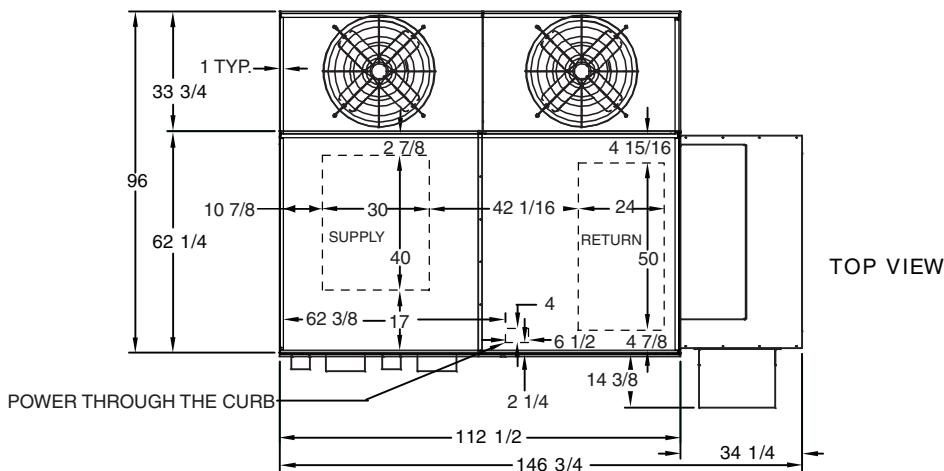
**NOTES:**

1. Carrier recommends a minimum of 24 to 36-in. of service clearance on all sides of unit except for the control panel side, which should have at least 48-in. clearance. Top should be unobstructed.
2. Dimensions are in inches.

# Base unit dimensions — 62DC,DD,DE,DF22-38



**UNIT WITH OPTIONAL EXHAUST**



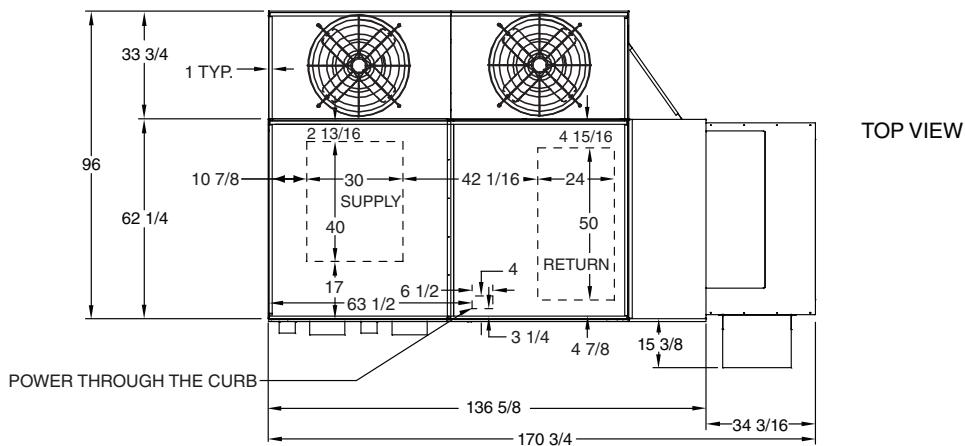
**NOTES:**

1. Carrier recommends a minimum of 24 to 36-in. of service clearance on all sides of unit except for the control panel side, which should have at least 48-in. clearance. Top should be unobstructed.
2. Dimensions are in inches.

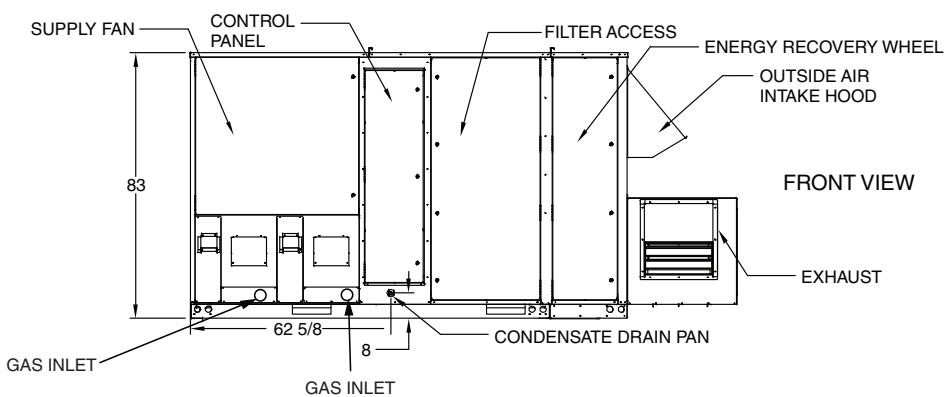
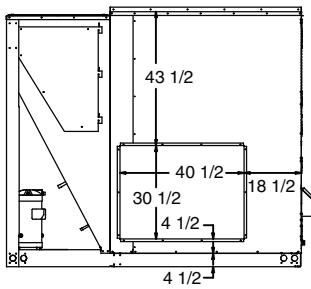
# Base unit dimensions — 62DC,DD,DE,DF22-38



**UNIT WITH OPTIONAL ENERGY CONSERVATION WHEEL**



**SIDE VIEW  
(HORIZONTAL SUPPLY)**



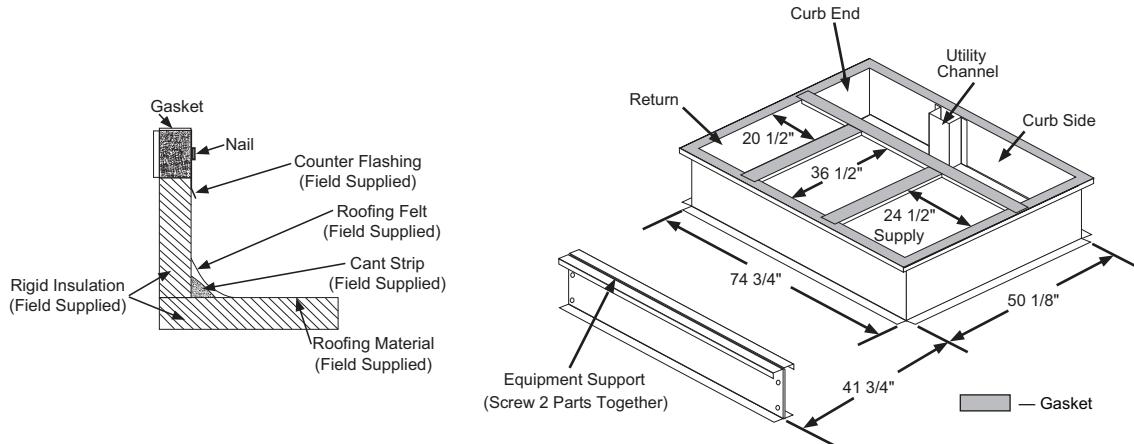
**NOTES:**

1. Carrier recommends a minimum of 24 to 36-in. of service clearance on all sides of unit except for the control panel side, which should have at least 48-in. clearance. Top should be unobstructed.
2. Dimensions are in inches.

# Accessory dimensions



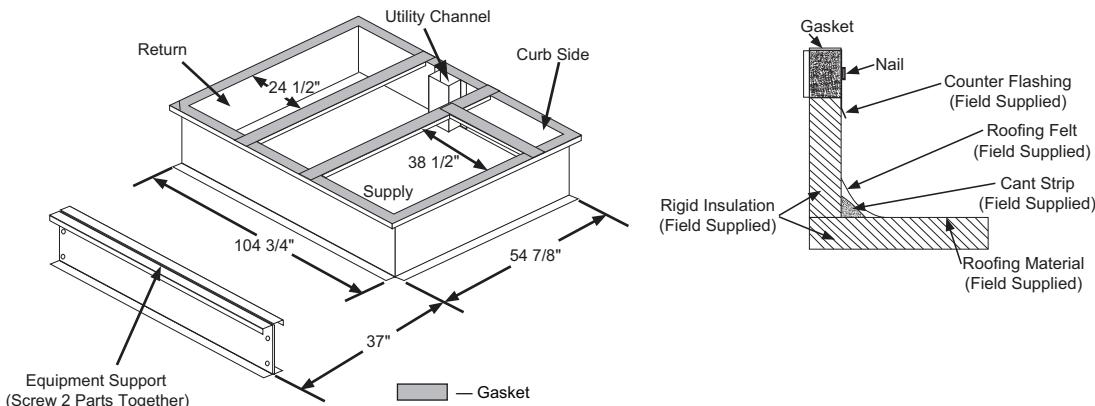
**62DA,DB,DC,DD,DE,DF07-20**



**NOTES:**

1. Dimensions are in inches.
2. Field-assembled curbs are shown. Factory-assembled curbs are also available.
3. Curbs are available in 14-in. and 24-in. heights.

**62DA,DB,DC,DD,DE,DF22-38**



**NOTES:**

1. Dimensions are in inches.
2. Field-assembled curbs are shown. Factory-assembled curbs are also available.
3. Curbs are available in 14-in. and 24-in. heights.

## Selection procedure

Refer to the Applied Rooftop Builder to select unit.

# Performance data



## COOLING CAPACITIES

### 62DA,DB07 AND 62DC,DD07 WITHOUT ECW

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		80					90				
		Entering Air — Ewb (F)									
		70	74	75	76	78	70	74	75	76	78
700	TC SHC W	55,818 28,835 3,804	59,797 25,326 3,839	60,819 24,422 3,849	61,852 23,551 3,854	63,944 21,691 3,874	53,844 35,572 4,232	57,803 32,221 4,268	58,819 31,370 4,278	59,845 30,499 4,289	61,913 28,697 4,314
950	TC SHC W	61,617 32,270 3,954	65,773 27,523 3,992	66,844 26,309 4,003	67,907 25,099 4,014	70,055 22,604 4,037	59,230 41,761 4,383	63,318 37,042 4,431	64,369 35,874 4,443	65,439 34,712 4,456	67,570 32,312 4,482
1250	TC SHC W	65,784 35,796 4,111	69,992 29,568 4,157	71,066 27,987 4,169	72,140 26,400 4,181	74,278 23,195 4,206	63,010 48,544 4,542	67,163 42,432 4,595	68,225 40,896 4,608	69,296 39,349 4,623	71,445 36,244 4,652
1500	TC SHC W	67,946 38,458 4,231	72,192 31,071 420	73,256 29,201 4,292	74,326 27,323 4,305	76,440 23,557 4,331	65,023 54,005 4,666	69,218 46,930 4,714	70,273 45,103 4,729	71,336 43,284 4,744	73,442 39,509 4,776

### 62DA,DB07 AND 62DC,DD07 WITHOUT ECW (cont)

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		100					105				
		Entering Air — Ewb (F)									
		70	74	75	76	78	70	74	75	76	78
700	TC SHC W	51,638 42,199 4,734	55,466 38,929 4,776	56,450 38,084 4,787	57,445 37,231 4,799	59,441 35,431 4,823	50,452 45,437 5,024	54,129 42,134 5,071	55,137 41,397 5,079	56,107 40,547 5,093	58,064 38,818 5,121
950	TC SHC W	56,503 50,902 4,892	60,414 46,387 4,941	61,423 45,265 4,955	62,449 44,124 4,969	64,573 41,898 4,995	56,353 56,074 5,208	58,845 51,001 5,240	59,800 49,853 5,255	60,796 48,732 5,270	62,807 46,501 5,300
1250	TC SHC W	61,484 61,484 5,089	63,876 55,025 5,110	64,930 53,616 5,127	65,927 52,113 5,136	67,862 48,993 5,173	62,799 60,415 5,436	62,405 58,981 5,415	63,255 57,385 5,430	64,058 55,475 5,474	66,077 55,475 5,474
1500	TC SHC W	65,431 65,431 5,232	65,806 60,774 5,235	66,728 59,054 5,253	67,776 57,576 5,265	69,628 54,928 5,302	66,819 66,977 5,594	66,977 66,977 5,592	67,018 67,018 5,590	66,077 64,563 5,586	67,780 61,206 5,602

### 62DC,DD07 WITH ECW AND 62DE,DF07

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		75					85				
		Entering Air — Ewb (F)									
		57	62	67	72	75	57	62	67	72	75
1500	TC SHC W	51,900 51,400 4,701	56,500 42,900 4,734	61,400 34,100 4,783	66,100 24,900 4,836	68,900 19,300 4,869	58,400 58,400 4,756	58,500 58,500 4,757	61,800 51,000 4,785	66,800 42,100 4,839	69,900 36,400 4,882
1800	TC SHC W	55,300 55,300 4,840	58,200 47,300 4,861	63,100 36,700 4,916	67,700 25,600 4,970	70,500 19,000 5,004	61,900 61,900 4,900	62,000 62,000 4,901	63,300 56,700 4,922	68,500 46,200 4,976	71,600 39,600 5,020
2200	TC SHC W	58,300 58,300 5,017	59,500 52,500 5,074	64,400 40,100 5,139	69,100 26,600 5,174	71,700 18,400 5,174	65,200 65,200 5,089	65,300 65,300 5,090	65,000 62,800 5,085	69,800 51,400 5,150	73,000 43,600 5,192
2500	TC SHC W	59,900 59,900 5,147	60,200 54,900 5,147	65,000 42,500 5,198	69,700 27,500 5,258	72,300 18,300 5,293	67,200 67,200 5,226	67,300 67,300 5,227	67,400 67,400 5,228	70,400 55,500 5,272	73,700 46,900 5,313

#### LEGEND

**ECW** — Energy Conservation Wheel  
**Edb** — Entering Dry Bulb  
**Ewb** — Entering Wet Bulb  
**W** — Compressor Motor Power Input (W)  
**SHC** — Sensible Heat Capacity (Btuuh)  
**TC** — Total Capacity (Btuuh) Gross

#### NOTES:

1. Direct interpolation is permissible. Do not extrapolate.
2. Cooling capacities are gross and do not include deduction for indoor fan motor heat.



### COOLING CAPACITIES (cont)

#### 62DA,DB AND 62DC,DD08 WITHOUT ECW

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		80					90				
		Entering Air — Ewb (F)									
		70	74	75	76	78	70	74	75	76	78
800	TC SHC W	66,638 34,460 4,938	71,484 30,404 4,940	72,775 28,409 4,941	74,033 28,355 4,942	76,603 26,330 4,943	64,098 41,968 5,385	69,000 38,234 5,384	70,236 37,256 5,384	71,510 36,252 5,385	74,058 34,223 5,390
1150	TC SHC W	75,798 39,543 5,077	84,071 33,931 5,082	82,404 32,469 5,083	83,722 30,947 5,084	86,431 27,998 5,086	72,615 50,861 5,521	77,876 45,476 5,523	79,212 44,059 5,524	80,538 42,651 5,525	83,261 39,771 5,526
1450	TC SHC W	80,669 43,262 5,197	86,035 36,138 5,201	87,389 34,300 5,201	88,739 32,450 5,202	91,427 28,715 5,203	77,190 58,044 5,635	82,406 50,911 5,639	83,752 49,127 5,640	85,106 47,330 5,640	87,901 43,909 5,640
1800	TC SHC W	84,407 47,247 5,329	89,794 38,349 5,333	91,148 36,111 5,334	92,499 33,856 5,334	95,159 29,320 5,334	80,610 65,907 5,768	85,921 57,295 5,770	87,138 54,838 5,772	88,530 52,708 5,771	91,259 48,315 5,771

#### 62DA,DB AND DC,DD08 WITHOUT ECW (cont)

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		100					105				
		Entering Air — Ewb (F)									
		70	74	75	76	78	70	74	75	76	78
800	TC SHC W	61,364 49,392 5,895	66,088 45,643 5,899	67,307 44,704 5,899	68,595 43,819 5,900	71,108 41,879 5,900	59,845 52,914 6,193	64,573 49,456 6,192	65,766 48,528 6,194	66,998 47,580 6,196	69,466 45,650 6,200
1150	TC SHC W	69,217 62,109 6,038	74,102 56,519 6,042	75,416 55,212 6,042	76,692 53,800 6,044	79,328 51,010 6,046	68,694 68,080 6,338	72,108 62,072 6,342	73,447 60,900 6,343	74,595 59,337 6,345	77,272 56,768 6,345
1450	TC SHC W	73,339 72,256 6,154	78,207 65,352 6,158	79,495 63,688 6,158	80,947 62,145 6,159	83,415 58,390 6,163	75,812 75,812 6,465	76,128 72,636 6,466	77,420 70,930 6,468	78,573 69,118 6,468	81,155 65,683 6,447
1800	TC SHC W	80,418 80,418 6,292	81,541 75,679 6,291	82,624 73,275 6,293	83,979 71,367 6,293	86,392 66,807 6,297	82,352 82,352 6,578	82,563 82,563 6,573	82,636 82,636 6,578	81,841 80,619 6,572	82,922 74,466 6,579

#### 62DC,DD08 WITH ECW AND 62DE,DF08

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		75					85				
		Entering Air — Ewb (F)									
		57	62	67	72	75	57	62	67	72	75
1800	TC SHC W	61,600 60,300 5,994	67,110 51,000 5,999	72,900 40,500 6,004	77,560 31,800 6,010	82,100 22,800 6,015	69,700 69,700 6,002	69,900 69,900 6,005	73,450 60,900 6,008	79,550 50,000 6,013	83,300 43,500 6,015
2200	TC SHC W	66,300 66,300 6,144	69,100 56,700 6,147	75,000 43,900 6,153	79,700 33,500 6,158	84,200 22,700 6,163	74,200 74,200 6,150	74,350 74,350 6,151	75,600 67,000 6,154	81,780 55,800 6,160	85,500 47,960 6,164
2600	TC SHC W	69,200 69,200 6,293	70,700 60,800 6,294	76,500 47,500 6,300	81,000 34,900 6,306	85,400 22,300 6,311	77,500 77,500 6,300	77,660 77,660 6,305	77,300 74,000 6,307	82,970 60,900 6,309	86,830 52,000 6,312
3000	TC SHC W	71,300 71,300 6,442	71,500 65,100 6,445	77,370 50,700 6,448	81,800 36,400 6,453	86,200 21,900 6,458	80,100 80,100 6,450	80,190 80,190 6,452	80,300 80,300 6,454	84,100 64,500 6,455	87,675 56,100 6,460

#### LEGEND

**ECW** — Energy Conservation Wheel  
**Edb** — Entering Dry Bulb  
**Ewb** — Entering Wet Bulb  
**W** — Compressor Motor Power Input (W)  
**SHC** — Sensible Heat Capacity (Btu/h)  
**TC** — Total Capacity (Btu/h) Gross

#### NOTES:

1. Direct interpolation is permissible. Do not extrapolate.
2. Cooling capacities are gross and do not include deduction for indoor fan motor heat.

# Performance data (cont)



## COOLING CAPACITIES (cont)

### 62DA,DB AND 62DC,DD09 WITHOUT ECW

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		80					90				
		Entering Air — Ewb (F)									
		70	74	75	76	78	70	74	75	76	78
900	TC SHC W	75,277 38,936 5,647	80,741 34,355 5,728	82,146 33,198 5,749	83,552 32,027 5,770	86,430 29,735 5,811	72,682 47,523 6,208	78,051 43,205 6,292	79,429 42,103 6,313	80,808 40,951 6,336	83,646 38,674 6,383
1300	TC SHC W	85,683 44,821 5,962	91,515 38,308 6,053	92,985 36,604 6,078	94,493 34,938 6,102	97,490 31,545 6,152	82,172 57,521 6,526	87,987 51,387 6,622	89,430 49,769 6,648	90,899 48,163 6,674	93,842 44,837 6,728
1600	TC SHC W	90,591 48,575 6,159	96,479 50,445 6,260	97,988 38,428 6,284	99,497 36,378 6,310	102,482 32,224 6,361	86,594 64,444 6,725	92,502 56,956 6,824	93,977 54,968 6,851	95,462 52,977 6,878	95,446 48,985 6,933
2100	TC SHC W	95,723 54,041 6,444	101,757 43,897 6,544	103,249 41,276 6,570	104,741 38,631 6,597	107,603 33,001 6,653	91,258 75,601 7,004	97,211 65,778 7,109	98,518 62,904 7,142	100,177 60,703 7,165	103,148 55,593 7,222

### 62DA,DB AND 62DC,DD09 WITHOUT ECW (cont)

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		100					105				
		Entering Air — Ewb (F)									
		70	74	75	76	78	70	74	75	76	78
900	TC SHC W	69,743 55,953 6,861	74,852 51,576 6,957	76,182 50,510 6,981	77,535 49,444 7,006	80,281 47,235 7,057	68,071 60,006 7,238	73,110 55,840 7,341	74,405 54,782 7,369	75,693 53,678 7,396	78,431 51,478 7,437
1300	TC SHC W	78,432 70,210 7,192	83,740 64,017 7,295	85,061 62,334 7,327	86,559 60,923 7,352	89,362 57,510 7,404	76,359 76,282 7,577	81,686 70,396 7,639	83,051 68,855 7,666	84,360 67,122 7,695	87,352 64,178 7,730
1600	TC SHC W	82,513 80,472 7,392	87,827 72,902 7,489	89,036 70,614 7,525	90,600 68,866 7,536	93,536 64,948 7,584	83,387 83,387 7,788	85,668 80,687 7,837	87,220 79,054 7,848	88,566 77,051 7,868	91,126 72,996 7,918
2100	TC SHC W	91,872 91,872 7,765	92,242 87,061 7,765	93,530 84,468 7,791	94,186 80,876 7,830	98,193 77,380 7,842	94,128 94,128 8,178	94,365 94,365 8,176	94,428 94,428 8,175	94,479 93,616 8,163	95,494 87,945 8,195

### 62DC,DD09 WITH ECW AND 62DE,DF09

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		75					85				
		Entering Air — Ewb (F)									
		57	62	67	72	75	57	62	67	72	75
2100	TC SHC W	71,000 69,600 6,857	77,000 59,000 6,939	83,500 46,900 7,025	89,900 33,800 7,129	93,700 26,000 7,186	80,300 80,300 6,985	80,500 80,500 6,987	83,900 70,100 7,038	90,900 57,900 7,137	95,100 50,300 7,203
2550	TC SHC W	76,100 76,100 7,097	78,900 65,200 7,137	85,600 50,400 7,234	92,000 35,200 7,329	95,700 25,500 7,393	85,000 85,000 7,227	85,200 85,200 7,229	86,500 77,100 7,242	93,000 63,900 7,347	97,200 54,700 7,417
3050	TC SHC W	79,400 79,400 7,339	80,600 69,600 7,353	87,100 54,700 7,442	93,500 36,400 7,543	97,000 24,800 7,609	88,900 88,900 7,473	89,000 89,000 7,475	88,200 85,000 7,460	94,400 68,300 7,566	98,700 59,800 7,631
3500	TC SHC W	81,600 81,600 7,543	81,500 74,500 7,538	87,900 58,200 7,629	94,300 37,500 7,729	97,800 24,500 7,788	91,500 91,500 7,687	91,600 91,600 7,689	91,700 91,700 7,691	95,400 73,400 7,754	99,400 64,200 7,822

#### LEGEND

**ECW** — Energy Conservation Wheel  
**Edb** — Entering Dry Bulb  
**Ewb** — Entering Wet Bulb  
**W** — Compressor Motor Power Input (W)  
**SHC** — Sensible Heat Capacity (Btuh)  
**TC** — Total Capacity (Btuh) Gross

#### NOTES:

1. Direct interpolation is permissible. Do not extrapolate.
2. Cooling capacities are gross and do not include deduction for indoor fan motor heat.



### COOLING CAPACITIES (cont)

#### 62DA,DB AND 62DC,DD12 WITHOUT ECW

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		80					90				
		Entering Air — Ewb (F)									
		70	74	75	76	78	70	74	75	76	78
1100	TC SHC W	90,454 46,780 6,608	97,036 41,236 6,650	98,722 39,836 6,654	100,390 38,360 6,660	103,884 35,608 6,634	88,900 58,800 6,834	95,600 53,600 6,866	97,300 52,300 6,868	99,100 50,900 6,874	102,700 48,200 6,882
1500	TC SHC W	100,820 52,532 6,814	107,830 45,188 6,788	109,622 43,268 6,786	111,420 41,334 6,784	115,014 37,426 6,776	99,500 69,600 6,886	106,700 62,500 6,902	108,500 60,600 6,904	110,300 58,800 6,906	114,100 55,100 6,906
1800	TC SHC W	106,066 56,340 6,930	113,232 47,518 6,896	115,040 45,242 6,890	116,860 42,938 6,886	120,484 38,258 6,872	104,834 77,100 6,884	112,200 68,500 6,886	114,000 66,300 6,884	115,900 64,100 6,908	119,700 59,700 6,904
2200	TC SHC W	110,966 60,898 7,056	118,226 50,124 7,040	120,040 47,358 7,034	121,870 44,592 7,028	125,478 39,028 7,010	110,000 86,500 6,888	117,400 76,200 6,888	119,300 73,500 6,884	121,100 70,800 6,882	124,900 65,500 6,874

#### 62DA,DB AND 62DC,DD12 WITHOUT ECW (cont)

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		100					105				
		Entering Air — Ewb (F)									
		70	74	75	76	78	70	74	75	76	78
1100	TC SHC W	85,300 69,200 7,630	91,700 64,000 7,664	93,600 62,800 7,692	95,300 61,456 7,696	98,800 58,800 7,720	83,600 74,400 8,060	89,700 69,100 8,110	91,400 67,800 8,118	93,100 66,600 8,128	96,600 64,000 8,166
1500	TC SHC W	95,000 84,000 7,704	101,800 77,000 7,720	103,600 75,300 7,726	105,400 73,500 7,732	108,900 69,800 7,748	92,800 90,900 8,148	99,300 84,100 8,172	101,000 82,504 8,180	102,700 80,700 8,202	106,300 77,200 8,202
1800	TC SHC W	100,000 94,400 7,714	106,800 86,300 7,744	108,600 84,200 7,748	110,400 82,000 7,754	114,014 77,700 7,762	100,600 100,600 8,202	104,000 94,800 8,198	105,700 92,600 8,208	107,500 90,900 8,210	110,900 86,600 8,230
2200	TC SHC W	106,500 106,500 7,768	111,500 97,700 7,766	113,400 95,800 7,764	115,200 93,200 7,766	118,800 88,000 7,772	109,100 109,100 8,250	109,100 109,100 8,238	110,300 105,900 8,232	111,900 103,400 8,238	115,600 99,100 8,242

#### 62DC,DD12 WITH ECW AND 62DE,DF12

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		75					85				
		Entering Air — Ewb (F)									
		57	62	67	72	75	57	62	67	72	75
2200	TC SHC W	82,400 78,700 8,066	89,900 66,300 8,114	97,800 53,400 8,152	105,700 39,900 8,190	110,300 31,500 8,208	91,500 91,500 8,126	90,500 89,300 8,128	98,300 78,000 8,152	106,800 65,100 8,188	111,900 56,900 8,208
2600	TC SHC W	86,700 87,400 8,246	92,500 71,800 8,290	100,600 56,900 8,310	108,400 41,000 8,348	113,000 31,300 8,362	96,800 96,800 8,308	97,000 97,000 8,310	102,300 86,000 8,324	109,700 70,700 8,358	114,700 60,900 8,380
3200	TC SHC W	91,900 91,900 8,504	95,200 80,200 8,524	103,200 61,500 8,568	111,100 42,600 8,576	115,500 30,700 8,588	102,900 102,900 8,548	103,100 103,100 8,560	104,200 95,500 8,594	112,300 78,500 8,604	117,500 67,100 8,604
3700	TC SHC W	95,100 95,100 8,710	96,800 84,900 87,123	104,800 66,100 8,748	112,600 43,900 8,762	116,800 30,200 8,780	106,700 106,700 8,746	106,900 106,900 8,748	106,000 103,800 8,752	113,900 85,800 8,776	118,900 72,100 8,788

#### LEGEND

**ECW** — Energy Conservation Wheel  
**Edb** — Entering Dry Bulb  
**Ewb** — Entering Wet Bulb  
**W** — Compressor Motor Power Input (W)  
**SHC** — Sensible Heat Capacity (Btuh)  
**TC** — Total Capacity (Btuh) Gross

#### NOTES:

1. Direct interpolation is permissible. Do not extrapolate.
2. Cooling capacities are gross and do not include deduction for indoor fan motor heat.

# Performance data (cont)



## COOLING CAPACITIES (cont)

### 62DA,DB AND 62DC,DD14 WITHOUT ECW

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		80					90				
		Entering Air — Ewb (F)									
		70	74	75	76	78	70	74	75	76	78
1350	TC SHC W	108,528 56,096 7,968	116,324 49,220 8,078	118,318 47,480 8,100	120,324 45,742 8,124	124,376 42,308 8,134	107,000 71,100 8,168	115,000 64,700 8,260	117,000 63,100 8,282	119,200 61,400 8,304	123,400 58,000 8,348
1900	TC SHC W	121,478 63,652 8,354	129,662 54,280 8,420	131,732 51,844 8,446	133,808 49,420 8,472	137,972 44,412 8,526	120,300 85,600 8,326	128,800 76,500 8,420	130,900 74,200 8,446	133,100 71,800 8,472	130,700 62,300 8,438
2400	TC SHC W	128,634 69,568 8,636	136,922 57,810 8,712	138,994 54,656 8,750	141,080 51,594 8,778	145,232 45,412 8,836	127,900 97,700 8,416	136,400 86,300 8,520	138,600 83,300 8,548	140,800 80,400 8,576	145,200 74,400 8,634
2900	TC SHC W	133,296 75,052 8,868	141,612 60,720 8,984	143,696 57,122 9,012	145,752 53,454 9,042	149,854 46,122 9,102	133,100 109,000 8,460	141,600 95,600 8,570	143,800 92,100 8,620	146,000 88,600 8,648	150,400 81,500 8,692

### 62DA,DB AND 62DC,DD14 WITHOUT ECW (cont)

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		100					105				
		Entering Air — Ewb (F)									
		70	74	75	76	78	70	74	75	76	78
1350	TC SHC W	102,700 84,000 9,156	110,500 77,500 9,256	112,500 76,000 9,278	114,500 74,400 9,300	118,700 71,100 9,350	100,600 90,000 9,734	108,000 83,830 9,788	110,000 82,300 9,810	111,900 80,700 9,832	116,100 77,500 9,902
1900	TC SHC W	115,000 103,800 9,316	123,000 95,200 9,412	125,100 92,900 9,440	127,200 90,700 9,464	125,400 78,100 9,436	113,000 113,000 9,878	120,000 104,200 9,940	122,000 102,200 9,966	124,100 100,000 9,988	122,500 85,800 9,988
2400	TC SHC W	122,200 120,800 9,388	123,000 95,200 9,412	132,000 107,000 9,520	134,100 104,600 9,550	138,400 98,900 9,598	125,000 125,000 10,182	127,000 121,700 10,062	128,790 118,800 10,064	130,900 116,300 10,086	135,000 111,100 10,144
2900	TC SHC W	131,200 131,200 9,532	130,100 124,000 9,564	136,800 120,700 9,592	138,800 117,344 9,620	143,200 111,600 9,672	134,300 134,300 10,182	134,500 134,500 10,176	134,400 134,400 10,172	135,800 132,100 10,194	139,400 125,100 10,228

### 62DC,DD14 WITH ECW AND 62DE,DF14

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		75					85				
		Entering Air — Ewb (F)									
		57	62	67	72	75	57	62	67	72	75
2900	TC SHC W	100,000 97,400 9,806	108,600 82,700 9,910	117,800 65,500 10,002	126,800 47,800 10,130	132,000 36,900 10,210	112,500 112,500 9,958	112,700 112,700 9,962	118,600 98,100 10,004	128,200 80,900 10,142	134,100 70,100 10,280
3400	TC SHC W	105,800 105,800 10,064	111,300 90,000 10,096	120,600 69,800 10,230	129,400 49,000 10,364	134,600 36,400 10,444	118,100 118,100 10,224	118,300 118,300 10,228	121,300 105,300 10,256	130,800 87,500 10,396	136,900 75,600 10,472
4000	TC SHC W	110,200 110,200 10,348	113,500 95,700 10,368	122,700 75,000 10,478	131,500 50,300 10,630	136,600 35,500 10,710	123,200 123,200 10,494	123,400 123,400 10,496	123,500 115,200 10,536	133,200 96,100 10,652	139,100 81,800 10,748
4600	TC SHC W	113,700 113,700 10,622	115,100 102,700 10,600	123,900 79,200 10,754	133,000 52,100 10,884	137,800 35,100 10,964	127,300 127,300 10,818	127,500 127,500 10,822	127,600 127,600 10,790	134,600 100,800 10,906	140,300 87,300 11,016

#### LEGEND

**ECW** — Energy Conservation Wheel  
**Edb** — Entering Dry Bulb  
**Ewb** — Entering Wet Bulb  
**W** — Compressor Motor Power Input (W)  
**SHC** — Sensible Heat Capacity (Btu/h)  
**TC** — Total Capacity (Btu/h) Gross

#### NOTES:

1. Direct interpolation is permissible. Do not extrapolate.
2. Cooling capacities are gross and do not include deduction for indoor fan motor heat.



### COOLING CAPACITIES (cont)

#### 62DA,DB AND 62DC,DD15 WITHOUT ECW

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		80					90				
		Entering Air — Ewb (F)									
		70	74	75	76	78	70	74	75	76	78
1700	TC SHC W	143,266 74,148 10,586	153,674 65,570 10,642	156,344 63,386 10,656	159,044 61,190 10,670	164,492 56,768 10,692	138,266 90,276 11,614	148,622 82,200 11,674	151,302 80,148 11,690	153,942 77,978 11,706	159,416 73,726 11,744
2300	TC SHC W	159,700 82,970 10,908	170,712 71,594 10,966	173,526 68,624 10,382	176,346 65,618 11,000	182,002 59,576 11,036	153,630 105,704 11,952	164,462 94,416 12,026	167,246 91,558 12,046	170,050 88,692 12,066	175,736 82,920 12,110
3000	TC SHC W	171,770 91,766 11,246	183,030 76,830 11,318	185,884 73,028 11,336	188,742 69,180 11,354	194,404 61,366 11,392	164,736 122,206 12,296	175,714 107,332 12,382	178,574 103,636 12,404	181,434 99,910 12,428	187,278 92,716 12,476
3600	TC SHC W	178,510 98,392 11,518	189,884 80,670 11,594	192,726 76,132 11,612	195,574 71,586 11,632	201,220 62,468 11,672	170,808 135,306 12,574	182,134 118,372 12,654	184,962 113,944 12,678	187,806 109,448 12,704	193,446 100,392 12,756

#### 62DA,DB AND 62DC,DD15 WITHOUT ECW (cont)

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		100					105				
		Entering Air — Ewb (F)									
		70	74	75	76	78	70	74	75	76	78
1700	TC SHC W	132,748 106,130 12,822	142,674 98,058 12,878	145,272 96,054 12,896	147,952 94,078 12,916	153,254 89,914 12,958	129,742 113,922 13,496	139,516 106,102 13,572	142,038 104,120 13,594	144,644 102,094 13,618	149,820 97,922 13,666
2300	TC SHC W	146,660 127,572 13,160	157,156 116,796 13,246	160,020 114,376 13,264	162,708 111,580 13,288	168,190 105,910 13,340	143,026 138,584 13,854	153,080 127,748 13,946	155,890 125,376 13,958	158,598 122,698 13,970	163,868 116,680 14,014
3000	TC SHC W	157,084 151,924 13,510	167,238 137,316 13,614	170,138 134,066 13,634	172,826 130,440 13,662	178,334 123,156 13,708	161,024 161,024 14,282	162,950 152,134 14,276	165,880 149,054 14,276	168,646 145,544 14,288	173,954 138,030 14,338
3600	TC SHC W	168,538 168,538 13,848	172,766 154,380 13,904	175,394 150,082 13,930	178,136 145,782 13,954	184,096 137,794 13,972	172,716 172,716 14,552	173,310 173,310 14,672	171,632 168,756 14,554	174,296 164,730 14,540	179,268 155,740 14,582

#### 62DC,DD15 WITH ECW AND 62DE,DF15

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		75					85				
		Entering Air — Ewb (F)									
		57	62	67	72	75	57	62	67	72	75
3600	TC SHC W	130,800 123,900 12,726	142,300 105,900 12,760	154,600 85,100 12,806	166,800 62,800 12,878	174,100 49,300 12,916	146,200 146,200 12,772	143,900 142,400 12,770	155,300 124,900 12,818	168,800 104,100 12,880	176,700 90,800 12,926
4300	TC SHC W	138,400 138,400 13,894	146,200 113,200 13,036	158,800 91,000 13,086	171,000 64,500 13,162	178,200 48,700 13,202	154,600 154,600 13,070	154,900 154,900 13,070	159,900 135,100 13,100	172,800 113,200 13,166	180,900 98,200 13,214
5300	TC SHC W	145,900 145,900 13,398	150,000 124,800 13,422	162,600 99,400 13,476	174,700 67,300 13,548	181,700 47,400 13,598	163,400 163,400 13,480	163,600 163,600 13,482	164,300 151,600 13,486	176,800 123,400 13,558	184,600 107,900 13,616
5800	TC SHC W	148,800 148,800 13,596	151,400 130,200 13,614	163,700 102,800 13,676	175,900 68,500 13,742	182,800 46,700 13,972	166,800 166,800 13,686	167,100 167,100 13,686	166,000 159,100 13,682	177,800 128,200 13,760	186,800 113,400 13,798

#### LEGEND

ECW — Energy Conservation Wheel  
 Edb — Entering Dry Bulb  
 Ewb — Entering Wet Bulb  
 W — Compressor Motor Power Input (W)  
 SHC — Sensible Heat Capacity (Btuh)  
 TC — Total Capacity (Btuh) Gross

#### NOTES:

1. Direct interpolation is permissible. Do not extrapolate.
2. Cooling capacities are gross and do not include deduction for indoor fan motor heat.

# Performance data (cont)



## COOLING CAPACITIES (cont)

### 62DA,DB AND 62DC,DD16 WITHOUT ECW

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		80					90				
		Entering Air — Ewb (F)									
		70	74	75	76	78	70	74	75	76	78
2000	TC SHC W	169,556 87,768 12,992	181,388 77,376 13,208	184,424 74,750 13,262	187,498 72,084 13,318	193,720 66,720 13,432	163,804 106,814 14,282	175,464 97,000 14,504	178,522 94,496 14,566	181,562 91,944 14,626	187,730 86,810 14,752
2800	TC SHC W	190,150 98,920 13,694	202,652 84,886 13,926	205,824 81,214 13,988	209,010 77,524 14,052	215,402 70,076 14,184	182,966 126,820 15,002	195,242 112,886 15,254	198,448 109,532 15,332	201,624 105,976 15,402	207,918 98,530 15,546
3600	TC SHC W	202,660 108,520 14,256	215,344 90,540 14,512	218,538 85,910 14,578	221,732 81,234 14,644	228,100 71,794 14,782	194,480 145,302 15,566	207,002 127,684 15,850	210,172 123,172 15,924	213,386 118,646 16,000	219,944 109,644 16,130
4400	TC SHC W	210,622 117,140 14,742	223,318 95,234 15,010	226,486 89,652 15,078	229,662 84,078 15,146	235,966 72,880 15,286	201,572 162,510 16,050	214,044 140,986 16,358	217,362 135,650 16,426	220,994 131,038 16,454	227,520 119,818 16,594

### 62DA,DB AND 62DC,DD16 WITHOUT ECW (cont)

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		100					105				
		Entering Air — Ewb (F)									
		70	74	75	76	78	70	74	75	76	78
2000	TC SHC W	157,270 125,464 15,824	168,566 115,836 16,080	171,402 113,218 16,134	174,398 110,840 16,204	180,526 105,870 16,324	153,580 134,554 16,714	165,058 125,304 16,904	168,008 122,912 16,956	171,000 120,526 17,010	177,118 115,618 17,118
2800	TC SHC W	174,716 153,932 16,560	186,704 140,132 16,794	189,920 136,846 16,846	193,148 133,560 16,900	199,628 126,628 17,020	170,876 167,188 17,378	182,942 154,428 17,548	186,006 151,106 17,604	188,816 147,228 17,684	195,568 141,022 17,778
3600	TC SHC W	185,646 180,720 17,092	197,742 163,598 17,312	200,894 159,246 17,370	204,122 154,928 17,444	211,014 146,834 17,526	191,952 191,952 18,090	193,888 182,420 18,074	196,412 177,462 18,148	199,534 173,156 18,208	205,946 164,556 18,350
4400	TC SHC W	201,470 201,470 17,720	204,902 186,420 17,768	208,110 181,374 17,838	211,166 175,950 17,886	217,556 165,386 18,012	206,798 206,798 18,706	207,318 207,318 18,700	207,454 205,504 18,700	206,772 198,900 18,688	213,052 188,756 18,788

### 62DC,DD16 WITH ECW AND 62DE,DF16

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		75					85				
		Entering Air — Ewb (F)									
		57	62	67	72	75	57	62	67	72	75
4400	TC SHC W	161,200 155,200 15,616	175,000 130,000 15,850	189,200 103,700 16,096	203,800 76,756 16,372	212,200 60,000 16,540	179,400 179,400 15,926	179,800 180,600 15,384	190,400 153,400 16,112	205,800 126,700 16,426	215,400 110,800 16,606
5100	TC SHC W	169,100 171,000 16,008	179,200 140,100 16,196	193,500 109,500 16,448	208,000 78,400 16,734	216,400 58,400 16,900	188,000 188,000 16,354	188,300 188,300 16,360	194,900 167,200 16,456	210,100 136,100 16,788	219,700 117,800 16,982
5800	TC SHC W	175,100 175,100 16,390	182,300 149,500 16,522	196,600 115,500 16,776	211,100 80,000 17,070	219,300 58,500 17,238	195,000 195,000 16,756	195,400 195,400 16,762	198,000 176,300 16,816	213,700 146,500 17,108	222,800 124,700 17,324
6500	TC SHC W	180,100 180,100 16,750	184,500 159,600 16,816	199,100 121,500 17,086	213,400 82,200 17,386	221,300 57,300 17,560	200,900 200,900 17,124	201,200 201,200 17,130	200,900 188,800 17,144	215,500 155,000 17,444	225,100 131,700 17,646

#### LEGEND

ECW — Energy Conservation Wheel  
 Edb — Entering Dry Bulb  
 Ewb — Entering Wet Bulb  
 W — Compressor Motor Power Input (W)  
 SHC — Sensible Heat Capacity (Btuh)  
 TC — Total Capacity (Btuh) Gross

#### NOTES:

1. Direct interpolation is permissible. Do not extrapolate.
2. Cooling capacities are gross and do not include deduction for indoor fan motor heat.



### COOLING CAPACITIES (cont)

#### 62DA,DB AND 62DC,DD20 WITHOUT ECW

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		80					90				
		Entering Air — Ewb (F)									
		70	74	75	76	78	70	74	75	76	78
2400	TC SHC W	189,252 97,788 14,588	202,584 85,516 14,816	206,012 82,410 14,874	209,458 79,310 14,932	216,428 73,112 15,042	182,674 121,016 16,008	195,758 109,364 16,258	199,098 106,406 16,322	202,472 103,370 16,388	209,290 97,152 16,520
3100	TC SHC W	205,842 107,298 15,156	219,612 91,654 15,388	223,172 87,928 15,446	226,704 83,904 15,506	233,730 75,720 15,626	197,936 138,366 16,602	211,322 122,936 16,858	214,810 119,288 16,934	218,354 115,496 16,980	225,538 107,636 17,076
3700	TC SHC W	215,634 114,668 15,562	229,604 96,340 15,800	233,114 91,604 15,860	236,626 86,804 16,040	243,636 77,076 17,018	206,822 152,270 17,248	220,622 134,386 17,296	224,194 129,814 17,344	227,784 125,194 17,438	235,016 115,904 17,438
4400	TC SHC W	223,766 122,500 15,978	237,742 100,818 16,222	241,230 95,218 16,282	244,708 89,598 16,340	251,788 78,338 16,452	213,794 167,194 17,454	228,020 146,068 17,658	231,596 140,662 17,706	235,222 135,278 17,752	242,454 124,452 17,830

#### 62DA,DB AND 62DC,DD20 WITHOUT ECW (cont)

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		100					105				
		Entering Air — Ewb (F)									
		70	74	75	76	78	70	74	75	76	78
2400	TC SHC W	175,048 143,742 17,702	187,956 132,514 17,902	191,262 129,608 17,954	194,604 126,648 18,006	201,304 120,448 18,106	171,206 154,662 18,560	183,802 143,556 18,764	187,070 140,722 18,814	190,352 137,840 18,864	197,256 132,422 18,940
3100	TC SHC W	189,298 168,618 18,204	202,512 153,882 18,408	205,638 149,676 18,528	209,142 146,008 18,632	216,076 138,294 19,054	185,040 183,332 19,240	197,974 169,148 19,292	201,238 165,466 19,346	204,492 161,662 19,444	211,332 154,198 19,444
3700	TC SHC W	197,904 189,098 18,580	210,598 170,978 18,792	213,948 166,466 18,842	217,406 161,988 18,890	224,400 152,916 19,006	202,648 202,648 19,614	205,780 189,496 19,632	208,894 185,012 19,678	212,602 181,138 19,708	218,826 171,516 19,846
4400	TC SHC W	211,252 211,252 19,100	217,504 190,910 19,194	221,100 186,060 19,200	224,250 180,416 19,266	231,112 169,902 19,356	216,396 216,396 20,108	216,962 215,196 20,098	216,250 208,848 20,042	218,976 202,902 20,128	225,692 192,812 20,214

#### 62DC,DD20 WITH ECW AND 62DE,DF20

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		75					85				
		Entering Air — Ewb (F)									
		57	62	67	72	75	57	62	67	72	75
4400	TC SHC W	170,300 159,800 16,982	185,200 135,100 17,200	200,900 108,700 17,476	216,800 81,900 17,702	226,100 65,000 17,848	188,100 188,100 17,268	186,600 181,800 17,220	202,100 158,000 17,494	219,000 131,600 17,750	229,400 115,800 17,912
5100	TC SHC W	175,600 171,400 17,336	190,300 145,400 17,550	206,200 115,200 17,814	221,900 83,500 18,068	231,000 64,400 18,208	197,800 197,800 17,690	198,200 198,200 17,834	207,600 172,200 17,834	224,400 141,800 18,096	234,500 122,600 18,264
5800	TC SHC W	184,500 184,500 17,750	193,900 155,000 18,890	210,000 121,100 18,144	225,600 85,100 18,398	234,500 63,600 18,536	205,800 205,800 18,088	206,200 186,000 18,094	211,600 181,644 18,164	228,300 151,700 18,428	238,400 130,400 18,584
6500	TC SHC W	190,200 190,200 18,106	196,900 165,000 18,188	212,700 126,500 18,454	228,400 87,400 18,706	237,100 62,700 18,846	212,400 212,400 18,462	212,800 212,800 18,468	214,700 194,700 18,472	231,200 161,200 18,744	241,400 137,900 18,900

#### LEGEND

**ECW** — Energy Conservation Wheel  
**Edb** — Entering Dry Bulb  
**Ewb** — Entering Wet Bulb  
**W** — Compressor Motor Power Input (W)  
**SHC** — Sensible Heat Capacity (Btuh)  
**TC** — Total Capacity (Btuh) Gross

#### NOTES:

1. Direct interpolation is permissible. Do not extrapolate.
2. Cooling capacities are gross and do not include deduction for indoor fan motor heat.

# Performance data (cont)



## COOLING CAPACITIES (cont)

### 62DA,DB AND 62DC,DD22 WITHOUT ECW

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		80					90				
		Entering Air — Ewb (F)									
		70	74	75	76	78	70	74	75	76	78
2400	TC SHC W	190,934 98,648 14,364	204,832 86,450 14,566	208,390 83,394 14,610	211,980 80,328 14,656	219,276 74,364 14,704	184,322 121,880 15,748	197,990 110,476 15,936	201,440 107,516 15,984	204,948 104,476 16,034	212,148 98,428 16,130
3100	TC SHC W	208,624 108,428 14,896	223,192 93,512 15,040	226,890 89,516 15,086	230,598 85,506 15,132	238,062 77,442 15,222	200,556 139,286 16,268	214,858 124,664 16,468	218,448 120,794 16,516	222,102 116,930 16,564	229,488 109,144 16,662
3700	TC SHC W	219,260 116,042 15,274	234,132 98,246 15,416	237,856 93,534 15,462	241,612 88,792 15,508	249,094 79,130 15,596	210,204 153,356 16,642	224,848 136,032 16,840	228,504 131,458 16,888	232,194 126,846 16,936	239,620 117,536 17,032
4400	TC SHC W	228,270 124,134 15,664	243,162 102,576 15,822	246,914 97,030 15,866	250,694 91,496 15,910	258,154 80,230 15,996	218,140 168,770 17,072	232,972 148,258 17,222	236,646 142,826 17,272	240,326 137,338 17,320	247,762 125,984 17,456

### 62DA,DB AND 62DC,DD22 WITHOUT ECW (cont)

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		100					105				
		Entering Air — Ewb (F)									
		70	74	75	76	78	70	74	75	76	78
2400	TC SHC W	176,958 144,654 17,342	190,056 133,424 17,542	193,298 130,252 17,590	196,714 127,376 17,638	203,746 121,530 17,738	172,788 155,438 18,232	185,664 144,450 18,430	188,922 141,566 18,482	192,292 138,732 18,532	199,272 133,186 18,620
3100	TC SHC W	191,776 169,692 17,852	205,048 154,528 18,070	208,574 150,888 18,118	212,320 147,558 18,154	219,160 139,478 18,270	186,822 183,860 18,840	200,310 170,048 18,926	203,622 166,366 18,978	207,026 162,646 19,028	213,962 155,112 19,132
3700	TC SHC W	200,594 189,922 18,244	214,228 172,848 18,424	217,744 168,398 18,474	220,938 163,344 18,538	227,940 154,042 18,672	204,732 204,732 19,302	208,656 190,612 19,316	212,474 186,806 19,352	215,442 182,084 19,394	221,792 172,440 19,510
4400	TC SHC W	214,036 214,036 18,834	221,634 192,576 18,852	225,140 187,762 18,856	228,182 181,810 18,918	235,740 171,954 19,000	218,946 218,946 19,806	219,542 216,104 19,796	219,260 209,554 19,748	222,170 203,900 19,840	229,358 193,896 19,950

### 62DC,DD22 WITH ECW AND 62DE,DF22

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		75					85				
		Entering Air — Ewb (F)									
		57	62	67	72	75	57	62	67	72	75
4400	TC SHC W	170,400 160,200 17,080	185,600 135,000 17,324	201,700 109,400 17,556	217,800 82,300 17,800	227,200 65,500 17,934	187,800 187,800 17,382	186,800 181,500 17,342	203,100 159,000 17,562	220,300 132,900 17,820	230,600 116,322 17,970
5100	TC SHC W	175,500 171,200 17,438	190,700 144,900 17,676	207,100 115,600 17,900	223,100 84,200 18,144	232,400 65,000 18,270	197,600 197,600 17,804	198,000 198,000 17,810	208,400 172,700 17,930	225,700 142,500 18,180	236,000 123,200 18,338
5800	TC SHC W	184,200 184,200 17,836	194,700 155,600 17,992	211,100 121,800 18,222	227,000 86,100 18,464	236,200 64,400 18,586	205,600 205,600 18,166	206,000 186,400 18,172	212,600 186,400 18,262	229,700 152,100 18,504	240,200 131,300 18,640
6500	TC SHC W	189,900 189,900 18,194	197,500 165,300 18,306	213,800 126,600 18,570	229,900 87,900 18,766	239,000 63,700 18,890	212,300 212,300 18,538	212,700 212,700 18,542	215,700 195,200 18,578	232,700 161,700 18,810	242,900 137,700 18,964

#### LEGEND

**ECW** — Energy Conservation Wheel  
**Edb** — Entering Dry Bulb  
**Ewb** — Entering Wet Bulb  
**W** — Compressor Motor Power Input (W)  
**SHC** — Sensible Heat Capacity (Btuh)  
**TC** — Total Capacity (Btuh) Gross

#### NOTES:

1. Direct interpolation is permissible. Do not extrapolate.
2. Cooling capacities are gross and do not include deduction for indoor fan motor heat.



### COOLING CAPACITIES (cont)

#### 62DA,DB AND 62DC,DD24 WITHOUT ECW

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		80					90				
		Entering Air — Ewb (F)									
		70	74	75	76	78	70	74	75	76	78
2400	TC SHC W	205,724 106,552 15,932	220,558 94,520 16,174	224,386 91,062 16,284	228,256 87,906 16,352	236,080 81,544 16,488	198,676 129,188 17,698	213,372 117,794 17,934	217,158 114,826 18,002	220,960 111,820 18,070	228,678 105,696 18,212
3600	TC SHC W	236,784 123,340 17,008	252,612 105,172 17,304	256,646 100,486 17,382	260,812 96,510 17,400	269,054 87,104 17,536	227,472 159,394 18,712	243,254 142,134 18,992	247,296 137,694 19,070	251,348 133,236 19,140	259,564 124,090 19,284
4800	TC SHC W	253,822 137,372 17,818	270,020 113,102 18,118	274,414 108,422 18,192	278,556 102,296 18,344	286,802 89,896 18,910	242,914 186,266 19,922	258,870 162,766 20,008	262,954 156,828 20,044	267,106 150,974 20,192	270,540 139,180 20,192
6000	TC SHC W	264,360 157,414 18,436	280,650 121,828 12,728	284,744 114,318 18,806	288,838 106,904 18,886	296,822 90,794 19,072	253,068 211,176 20,160	268,782 184,850 20,424	272,780 177,464 20,508	276,420 169,284 20,616	285,028 155,412 20,760

#### 62DA,DB AND 62DC,DD24 WITHOUT ECW (cont)

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		100					105				
		Entering Air — Ewb (F)									
		70	74	75	76	78	70	74	75	76	78
2400	TC SHC W	191,034 151,736 19,690	205,130 140,210 19,952	208,796 137,352 20,018	212,546 134,470 20,088	220,094 128,608 20,232	186,920 162,738 20,794	200,720 151,330 21,076	204,430 148,736 21,126	209,408 145,882 21,200	215,308 139,622 21,358
3600	TC SHC W	217,720 194,634 20,722	231,952 176,898 21,022	235,862 172,750 21,164	239,948 168,774 21,354	247,480 159,338 21,834	212,712 211,946 22,100	226,586 194,832 22,176	230,418 190,842 22,280	233,694 185,982 22,426	241,576 177,556 22,426
4800	TC SHC W	237,886 237,144 21,698	246,560 211,640 21,920	250,428 205,998 21,926	254,274 200,856 21,960	261,214 188,258 22,250	243,270 243,270 23,086	241,056 236,682 22,912	244,378 230,402 23,026	247,470 224,196 23,192	254,868 212,742 23,354
6000	TC SHC W	256,524 256,524 22,556	255,400 245,806 22,610	258,486 238,254 22,702	262,360 231,494 22,772	269,858 215,568 22,982	262,074 262,074 23,980	262,726 262,726 23,966	262,898 262,898 23,962	262,964 262,964 24,258	262,470 247,418 24,140

#### 62DC,DD24 WITH ECW AND 62DE,DF24

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		75					85				
		Entering Air — Ewb (F)									
		57	62	67	72	75	57	62	67	72	75
6000	TC SHC W	200,100 197,400 2,092	216,900 167,500 20,462	234,900 131,800 20,768	252,200 95,000 21,136	262,300 72,600 21,348	226,000 22,600 20,644	226,400 226,400 20,652	236,500 199,500 20,778	255,200 163,800 21,172	266,400 141,200 21,516
7000	TC SHC W	211,900 211,900 20,748	221,800 182,000 20,868	239,200 139,600 21,316	256,800 97,300 21,636	266,700 71,300 21,862	236,400 236,400 21,242	236,800 213,600 21,250	241,400 217,600 21,278	259,600 176,600 21,710	271,400 152,300 21,942
8000	TC SHC W	218,900 218,900 21,282	225,200 190,100 21,342	242,700 148,500 21,698	260,100 100,400 22,092	269,700 69,900 22,332	244,400 244,400 21,806	244,800 228,700 21,814	244,500 191,100 21,822	263,300 161,200 22,156	274,300 161,200 22,456
9000	TC SHC W	224,500 224,500 21,782	227,200 200,100 21,802	245,300 157,200 22,122	262,300 102,800 22,534	271,700 69,400 22,758	251,000 251,000 22,270	251,300 251,300 22,278	251,700 251,700 22,286	265,000 196,200 22,626	276,500 171,300 22,904

#### LEGEND

**ECW** — Energy Conservation Wheel  
**Edb** — Entering Dry Bulb  
**Ewb** — Entering Wet Bulb  
**W** — Compressor Motor Power Input (W)  
**SHC** — Sensible Heat Capacity (Btuh)  
**TC** — Total Capacity (Btuh) Gross

#### NOTES:

1. Direct interpolation is permissible. Do not extrapolate.
2. Cooling capacities are gross and do not include deduction for indoor fan motor heat.

# Performance data (cont)



## COOLING CAPACITIES (cont)

### 62DA,DB AND 62DC,DD30 WITHOUT ECW

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		80					90				
		Entering Air — Ewb (F)									
		70	74	75	76	78	70	74	75	76	78
3400	TC SHC W	283,720 146,666 22,016	304,194 129,070 22,314	309,482 124,708 22,372	314,870 120,304 22,432	325,740 111,406 22,556	273,728 179,140 24,074	294,058 162,874 24,296	299,386 158,848 24,356	304,614 154,534 24,420	315,358 145,930 24,556
4600	TC SHC W	316,004 163,710 22,924	337,748 140,662 23,184	343,410 135,736 23,152	348,998 129,734 23,224	360,196 117,652 23,370	303,746 209,524 24,916	325,326 187,672 25,176	330,852 182,112 25,266	334,340 176,312 25,342	347,518 164,734 25,498
5800	TC SHC W	336,956 178,770 23,646	359,378 151,016 23,838	365,012 143,632 23,914	370,640 136,132 23,990	381,904 120,976 24,146	322,928 237,440 25,638	345,216 210,516 25,936	350,752 203,292 26,018	356,334 196,024 26,100	367,622 181,484 26,266
7000	TC SHC W	366,406 215,052 25,204	386,560 171,558 25,502	390,358 158,522 26,010	395,978 148,012 26,068	406,642 125,044 26,244	350,208 308,806 27,266	371,840 266,366 27,588	376,480 255,284 27,772	381,366 242,972 27,886	393,382 222,516 28,036

### 62DA,DB AND 62DC,DD30 WITHOUT ECW (cont)

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		100					105				
		Entering Air — Ewb (F)									
		70	74	75	76	78	70	74	75	76	78
3400	TC SHC W	262,690 210,490 26,510	282,546 194,824 26,692	287,606 190,684 26,772	292,748 186,718 26,830	303,270 178,424 26,962	256,810 226,016 27,830	276,654 211,248 28,012	281,608 207,294 28,074	286,550 203,014 28,152	296,874 194,754 28,294
4600	TC SHC W	290,578 254,600 27,282	311,174 232,710 27,570	316,118 226,490 27,674	321,880 221,794 27,718	332,468 209,940 27,874	283,608 275,760 28,706	303,756 255,080 28,868	308,346 248,734 28,978	314,072 244,094 29,026	324,684 232,944 29,186
5800	TC SHC W	308,130 294,908 28,042	329,032 268,314 28,306	333,708 260,294 28,414	339,018 252,964 28,556	350,358 239,638 28,650	316,096 296,266 29,642	320,506 289,348 29,726	325,740 289,348 29,818	330,974 282,440 29,818	340,728 267,844 30,032
7000	TC SHC W	360,364 360,364 30,110	361,266 361,266 30,240	359,030 348,704 30,052	362,328 337,130 30,284	378,506 327,428 30,300	367,208 367,208 31,956	368,054 368,054 31,944	368,278 368,278 31,940	368,508 368,508 31,938	368,984 364,742 31,930

### 62DC,DD30 WITH ECW AND 62DE,DF30

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		75					85				
		Entering Air — Ewb (F)									
		57	62	67	72	75	57	62	67	72	75
7,000	TC SHC W	256,800 242,200 26,482	278,600 206,900 26,796	301,800 165,700 27,144	324,900 123,100 27,468	338,600 96,300 27,698	285,700 285,700 26,950	281,600 277,900 26,884	303,700 244,400 27,158	328,500 202,700 27,556	343,300 176,600 27,812
8,400	TC SHC W	271,200 271,200 27,270	286,300 221,400 27,456	309,700 177,000 27,824	333,000 127,000 28,138	246,300 95,300 28,368	301,900 301,900 27,736	302,400 302,400 27,744	311,700 263,200 27,864	336,600 221,700 28,236	351,600 191,400 28,492
9,600	TC SHC W	280,500 280,500 27,866	290,800 235,100 27,990	314,800 188,000 28,326	337,400 129,200 28,720	350,700 92,800 28,986	312,800 312,800 28,364	313,300 313,300 28,372	316,800 282,600 28,404	341,300 238,100 28,766	356,400 203,700 29,038
11,000	TC SHC W	289,100 289,100 28,532	295,200 251,600 28,564	318,200 197,800 28,962	341,200 132,700 29,320	354,100 90,600 29,596	322,900 322,900 29,076	323,400 323,400 29,076	322,200 305,200 28,996	345,100 247,100 29,388	360,000 217,300 29,650

#### LEGEND

**ECW** — Energy Conservation Wheel  
**Edb** — Entering Dry Bulb  
**Ewb** — Entering Wet Bulb  
**W** — Compressor Motor Power Input (W)  
**SHC** — Sensible Heat Capacity (Btu/h)  
**TC** — Total Capacity (Btu/h) Gross

#### NOTES:

1. Direct interpolation is permissible. Do not extrapolate.
2. Cooling capacities are gross and do not include deduction for indoor fan motor heat.



### COOLING CAPACITIES (cont)

#### 62DA,DB AND 62DC,DD34 WITHOUT ECW

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		80					90				
		Entering Air — Ewb (F)									
		70	74	75	76	78	70	74	75	76	78
4000	TC SHC W	344,470 178,354 28,242	369,854 158,574 28,632	376,454 153,592 28,710	383,028 147,488 28,942	393,538 136,736 29,600	333,168 216,298 31,032	358,390 197,752 31,350	364,832 192,838 31,458	371,376 187,868 31,570	383,964 177,448 31,942
5300	TC SHC W	382,924 197,684 29,704	406,546 170,946 30,382	413,360 164,156 30,524	420,218 157,276 30,668	433,974 143,048 30,970	369,166 250,590 32,100	395,036 224,976 32,710	401,844 218,414 32,840	408,634 211,752 32,974	422,508 198,452 33,276
6700	TC SHC W	406,926 215,394 30,980	434,102 182,294 31,538	440,974 173,868 31,692	447,976 165,318 31,854	461,776 147,138 32,208	393,320 283,036 33,292	420,660 251,016 33,852	427,984 243,748 33,960	434,972 235,384 34,118	445,666 217,500 34,502
8000	TC SHC W	423,776 229,924 31,888	451,114 190,402 32,514	457,988 180,232 32,680	464,968 170,052 32,852	478,968 150,010 33,164	409,304 312,640 34,122	436,664 274,118 34,742	442,082 261,240 35,430	448,350 256,108 35,026	461,232 234,238 35,878

#### 62DA,DB AND 62DC,DD34 WITHOUT ECW (cont)

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		100					105				
		Entering Air — Ewb (F)									
		70	74	75	76	78	70	74	75	76	78
4000	TC SHC W	320,896 254,322 34,162	345,218 235,756 34,574	351,360 230,574 34,700	357,768 225,826 34,810	369,806 215,668 35,252	313,896 272,032 35,986	337,698 253,600 36,418	343,962 248,972 36,532	350,428 244,750 36,614	361,910 234,512 37,142
5300	TC SHC W	353,516 301,190 35,324	377,990 275,794 36,016	385,062 270,340 36,102	391,616 263,746 36,248	404,718 250,086 36,564	345,916 326,120 37,234	369,362 301,960 37,846	375,126 294,716 38,024	381,624 288,388 38,168	395,168 276,310 38,438
6700	TC SHC W	376,804 349,972 36,562	401,302 317,424 37,096	407,752 309,222 37,248	415,210 302,246 37,360	428,288 284,916 37,724	382,518 382,518 39,020	391,332 349,804 39,170	398,442 342,548 39,170	405,670 335,612 39,286	417,644 319,102 39,578
8000	TC SHC W	401,102 396,964 37,758	417,422 355,896 37,992	423,200 346,162 38,108	430,406 336,334 38,424	442,536 316,574 36,606	410,450 410,450 40,216	406,318 389,974 39,940	413,066 385,910 40,080	418,852 376,224 40,226	430,998 356,216 40,748

#### 62DC,DD34 WITH ECW AND 62DE,DF34

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		75					85				
		Entering Air — Ewb (F)									
		57	62	67	72	75	57	62	67	72	75
8,000	TC SHC W	311,100 285,700 33,956	337,800 244,800 34,552	366,500 197,700 35,126	395,400 149,500 35,612	412,900 118,900 36,022	343,600 343,600 34,648	340,900 325,700 34,612	368,900 283,000 35,076	399,700 239,500 35,866	418,700 211,200 36,176
9,400	TC SHC W	321,100 309,500 34,646	347,100 259,100 35,280	376,100 209,200 35,888	405,100 153,200 36,388	422,500 117,818 36,810	361,900 361,900 35,564	362,500 362,500 35,578	379,200 307,600 35,812	409,800 259,400 36,552	429,000 226,100 36,978
10,300	TC SHC W	333,400 333,400 35,228	351,600 269,300 35,722	381,000 216,700 36,344	409,900 155,500 36,862	427,000 117,100 37,282	371,700 371,700 36,124	372,300 372,300 36,138	384,400 322,000 36,278	415,200 272,900 36,984	433,900 235,500 37,462
12,000	TC SHC W	346,400 346,400 36,262	357,800 287,900 36,526	387,500 230,500 37,162	416,600 159,600 37,696	433,500 155,500 38,122	387,000 387,000 37,128	387,500 387,500 37,142	390,500 345,100 37,428	421,700 284,200 37,842	439,800 250,700 38,460

#### LEGEND

**ECW** — Energy Conservation Wheel  
**Edb** — Entering Dry Bulb  
**Ewb** — Entering Wet Bulb  
**W** — Compressor Motor Power Input (W)  
**SHC** — Sensible Heat Capacity (Btuh)  
**TC** — Total Capacity (Btuh) Gross

#### NOTES:

1. Direct interpolation is permissible. Do not extrapolate.
2. Cooling capacities are gross and do not include deduction for indoor fan motor heat.

# Performance data (cont)



## COOLING CAPACITIES (cont)

### 62DA,DB AND 62DC,DD38 WITHOUT ECW

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		80					90				
		Entering Air — Ewb (F)									
		70	74	75	76	78	70	74	75	76	78
4800	TC SHC W	368,166 190,186 30,154	391,784 166,594 30,582	398,130 159,084 31,142	404,726 151,634 31,358	418,482 140,088 31,418	355,204 237,128 32,964	380,434 213,868 33,476	387,074 207,946 33,570	393,778 201,946 33,666	407,372 189,708 33,862
6200	TC SHC W	396,396 208,090 31,686	423,290 177,452 32,056	430,088 169,226 32,160	436,972 161,328 32,260	450,808 145,040 32,460	383,208 270,500 34,122	410,282 241,130 34,486	417,196 233,752 34,586	424,058 226,136 34,686	437,890 210,378 34,886
7600	TC SHC W	417,110 225,458 32,522	443,990 186,900 32,958	450,840 177,206 33,056	458,008 168,580 33,102	471,714 148,364 33,310	402,150 302,314 34,960	429,294 265,890 35,368	436,232 276,604 35,464	442,762 246,156 35,666	453,166 227,072 36,268
9000	TC SHC W	430,838 239,662 33,328	458,128 195,446 33,722	464,968 184,164 33,818	472,116 173,742 33,872	485,826 150,906 34,060	416,014 334,658 35,688	440,160 292,024 36,076	447,016 281,288 36,170	452,304 267,468 36,802	465,776 244,922 37,028

### 62DA,DB AND 62DC,DD38 WITHOUT ECW (cont)

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		100					105				
		Entering Air — Ewb (F)									
		70	74	75	76	78	70	74	75	76	78
4800	TC SHC W	340,208 282,066 36,236	364,578 259,862 36,794	371,028 254,200 36,898	377,116 247,546 37,030	390,390 235,972 37,226	333,808 305,710 38,018	355,594 282,066 38,670	361,688 276,078 38,810	367,910 270,166 38,926	380,760 258,748 39,138
6200	TC SHC W	366,972 331,890 37,440	391,410 302,274 37,806	397,914 294,850 37,916	403,944 286,420 38,056	417,646 271,758 38,252	367,720 366,062 39,316	382,334 332,780 39,720	388,634 325,466 39,828	393,332 316,664 39,932	405,832 301,458 40,172
7600	TC SHC W	384,776 378,480 38,390	409,714 343,112 38,708	414,818 332,942 38,802	420,524 322,708 39,030	433,608 304,178 39,238	399,194 399,194 40,840	398,862 380,428 40,640	404,314 370,900 40,732	411,168 362,932 40,800	422,316 342,734 41,226
9000	TC SHC W	415,364 415,364 39,520	420,640 381,356 39,596	426,688 370,486 39,692	433,270 359,786 39,796	447,612 340,280 39,842	423,956 423,956 41,888	425,076 425,076 41,858	425,368 420,390 41,850	421,648 405,804 41,786	432,908 383,594 42,010

### 62DC,DD38 WITH ECW AND 62DE,DF38

Entering Air Quantity (Cfm)		Temp (F) Air Entering (Edb)									
		75					85				
		Entering Air — Ewb (F)									
		57	62	67	72	75	57	62	67	72	75
9,000	TC SHC W	328,500 312,100 36,024	357,200 266,400 36,492	387,000 211,800 37,160	417,300 157,500 37,570	434,800 123,100 37,866	366,900 366,900 36,796	367,700 369,300 36,696	389,200 312,500 37,202	421,500 258,900 37,768	441,500 227,200 37,976
10,000	TC SHC W	335,900 331,500 36,512	363,300 279,600 37,058	393,600 220,300 37,666	423,800 160,000 38,074	441,000 122,300 38,362	379,800 379,800 37,410	380,600 380,600 37,424	396,100 332,200 37,708	428,600 273,800 38,140	447,700 236,100 38,604
11,000	TC SHC W	350,900 350,900 37,276	368,400 293,900 37,536	399,400 230,300 38,022	429,100 163,000 38,542	445,800 120,300 38,868	391,000 391,000 38,010	391,700 391,700 38,068	401,900 352,400 38,018	434,100 288,100 38,618	453,400 247,600 38,952
12,000	TC SHC W	358,900 358,900 37,814	372,800 308,000 38,058	403,100 23,700 38,606	433,200 165,700 38,996	449,900 120,800 39,282	400,800 400,800 38,556	401,400 401,400 38,600	406,100 362,300 38,570	437,600 300,000 39,112	457,200 256,900 39,440

#### LEGEND

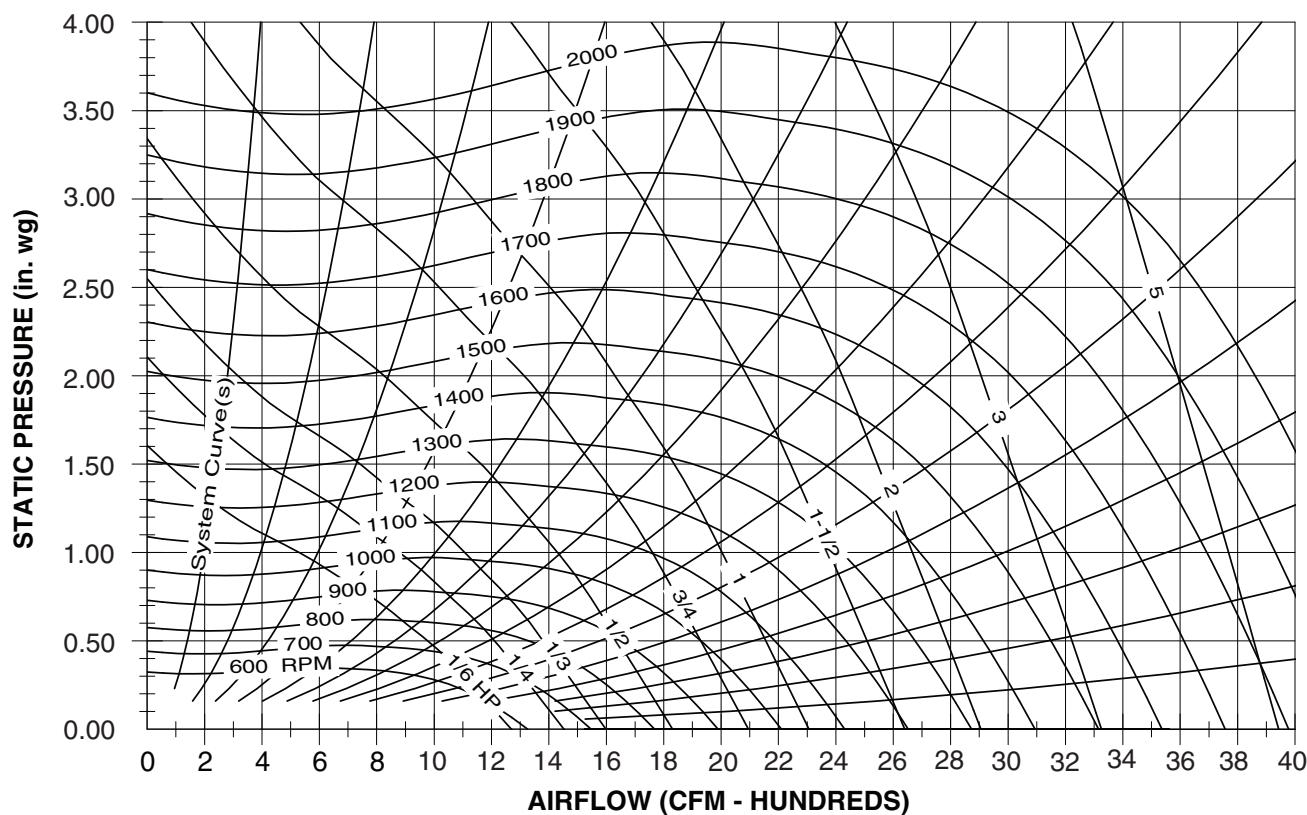
**ECW** — Energy Conservation Wheel  
**Edb** — Entering Dry Bulb  
**Ewb** — Entering Wet Bulb  
**W** — Compressor Motor Power Input (W)  
**SHC** — Sensible Heat Capacity (Btuh)  
**TC** — Total Capacity (Btuh) Gross

#### NOTES:

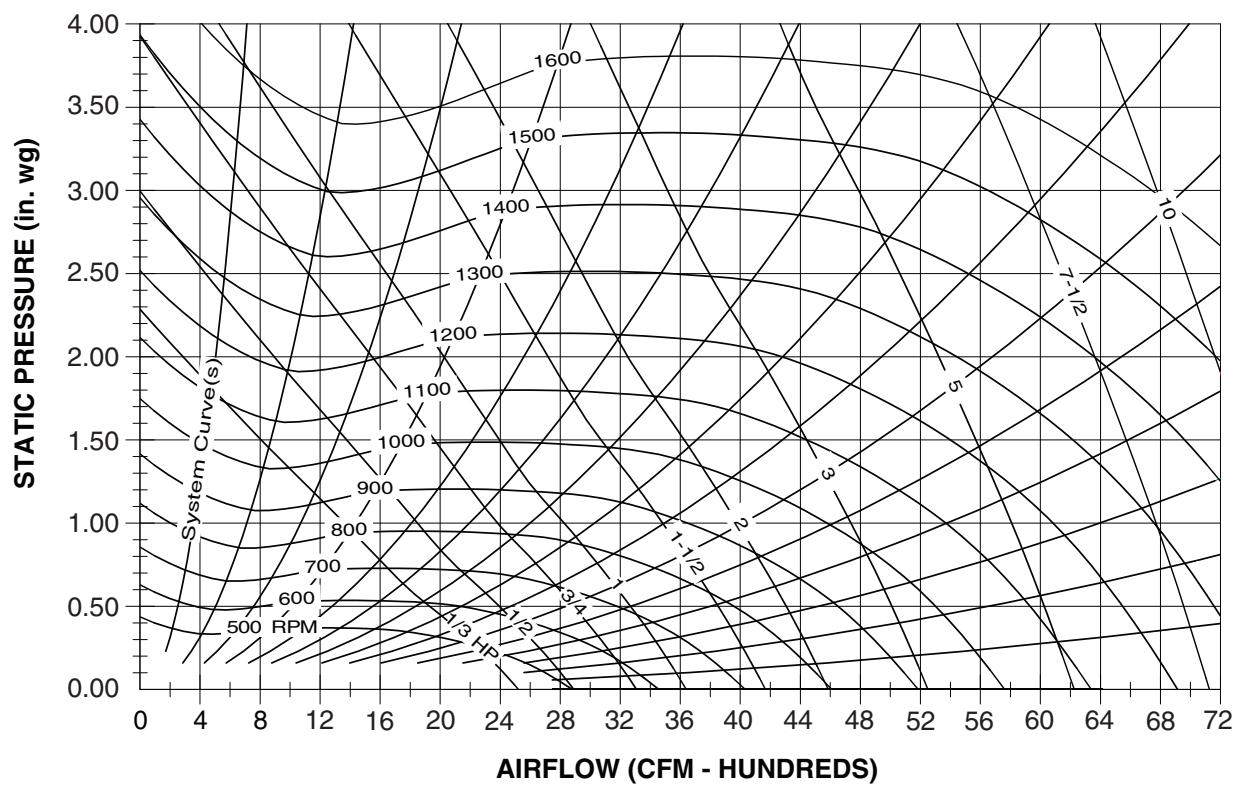
1. Direct interpolation is permissible. Do not extrapolate.
2. Cooling capacities are gross and do not include deduction for indoor fan motor heat.

### FAN PERFORMANCE

**FORWARD CURVED FAN (9 x 7 in.)**



**FORWARD CURVED FAN (12 x 9 in.)**

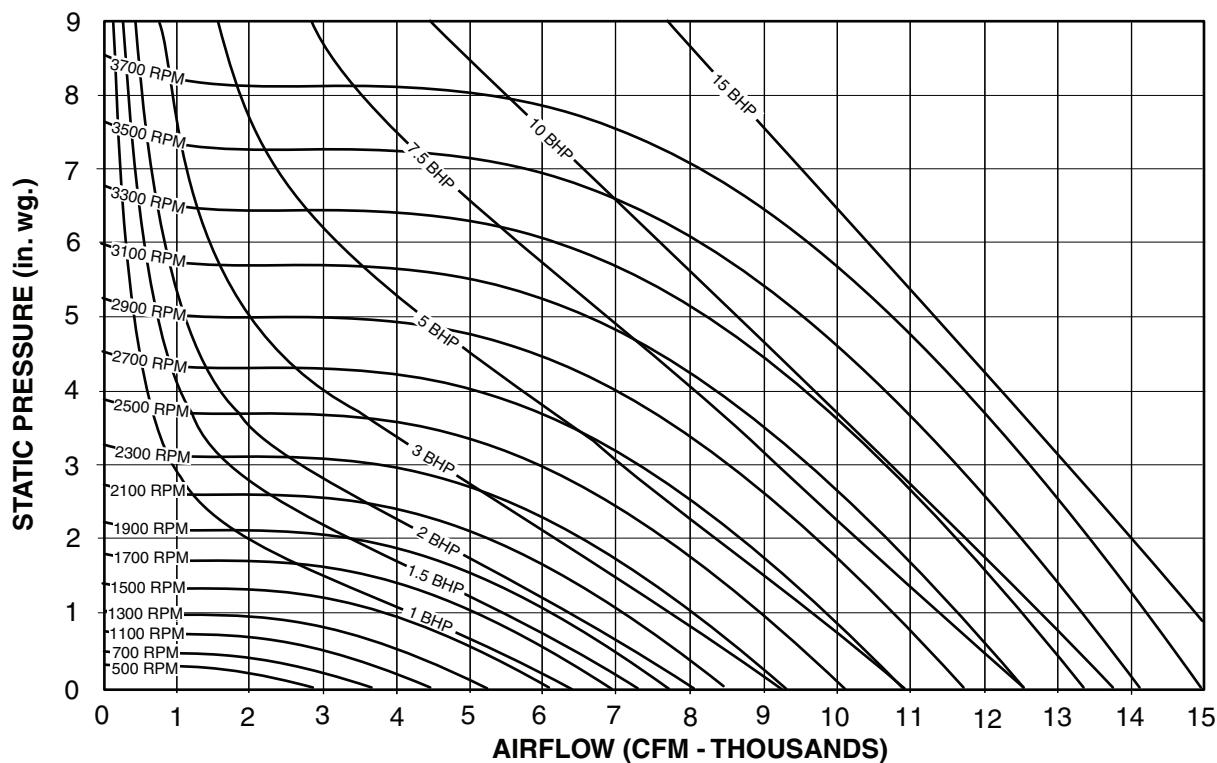


# Performance data (cont)

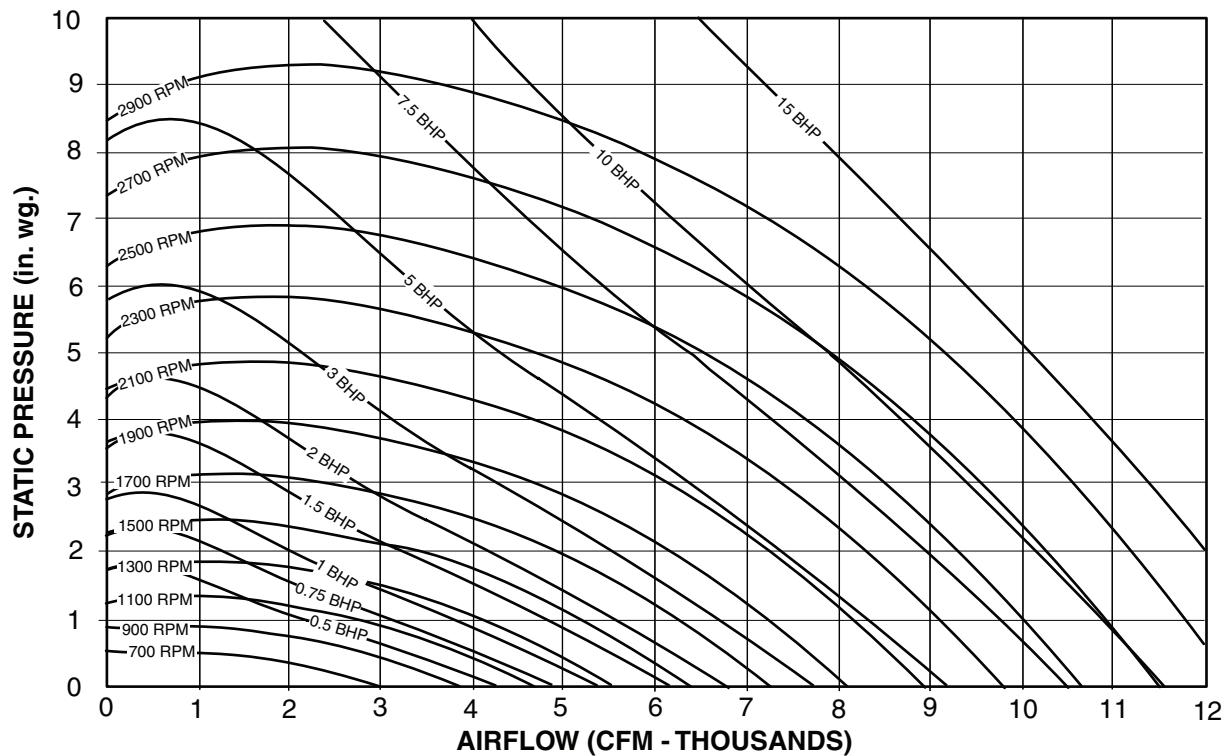


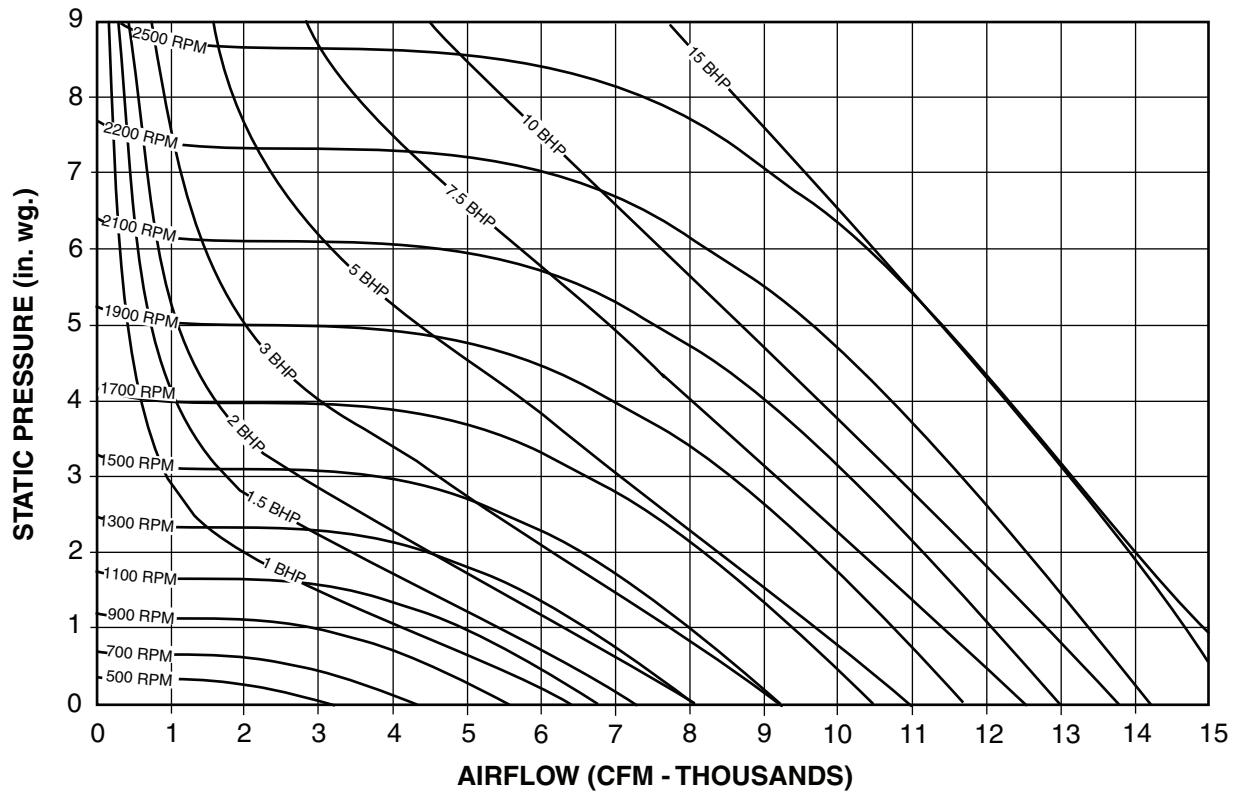
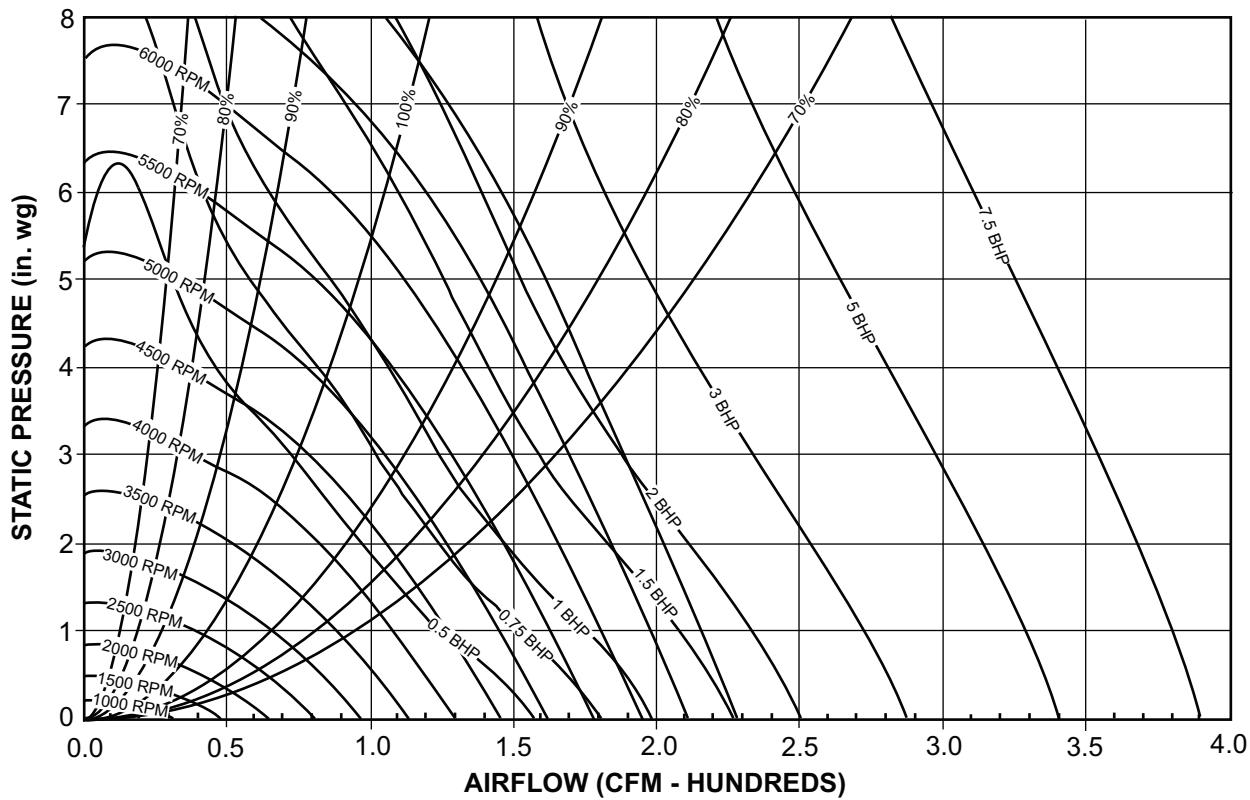
FAN PERFORMANCE (cont)

AIRFOIL FAN (12 in.)



AIRFOIL FAN (15 in.)

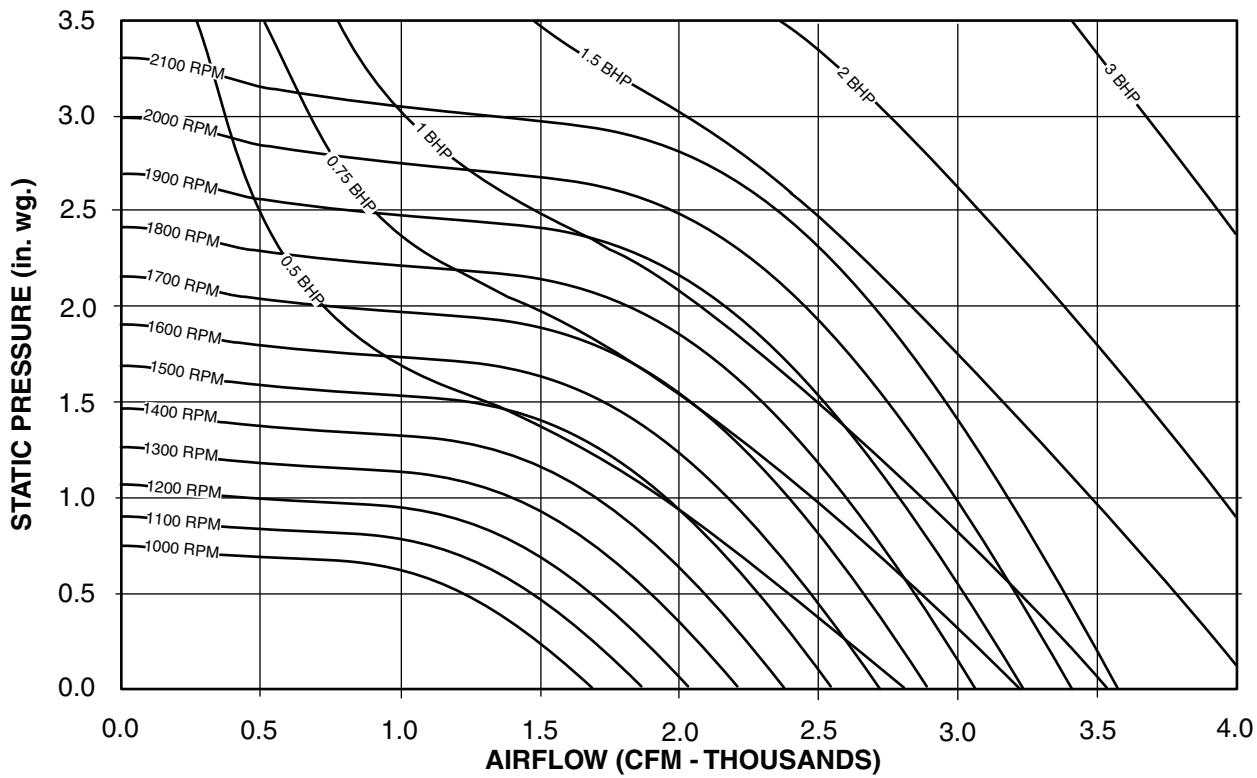


**FAN PERFORMANCE (cont)**
**AIRFOIL FAN (18 in.)**

**BACKWARD CURVED FAN (180 mm)**


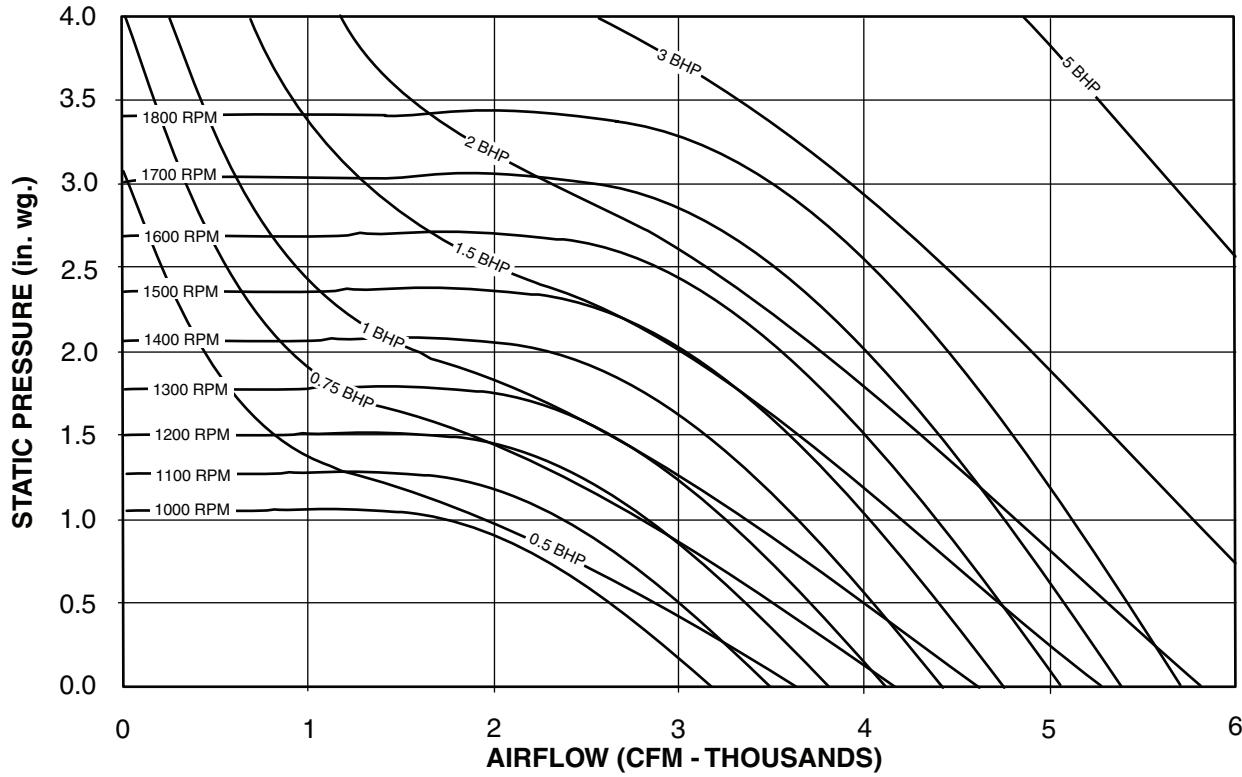
# Performance data (cont)



FAN PERFORMANCE (cont)  
BACKWARD INCLINED PLENUM FAN (15-in.)

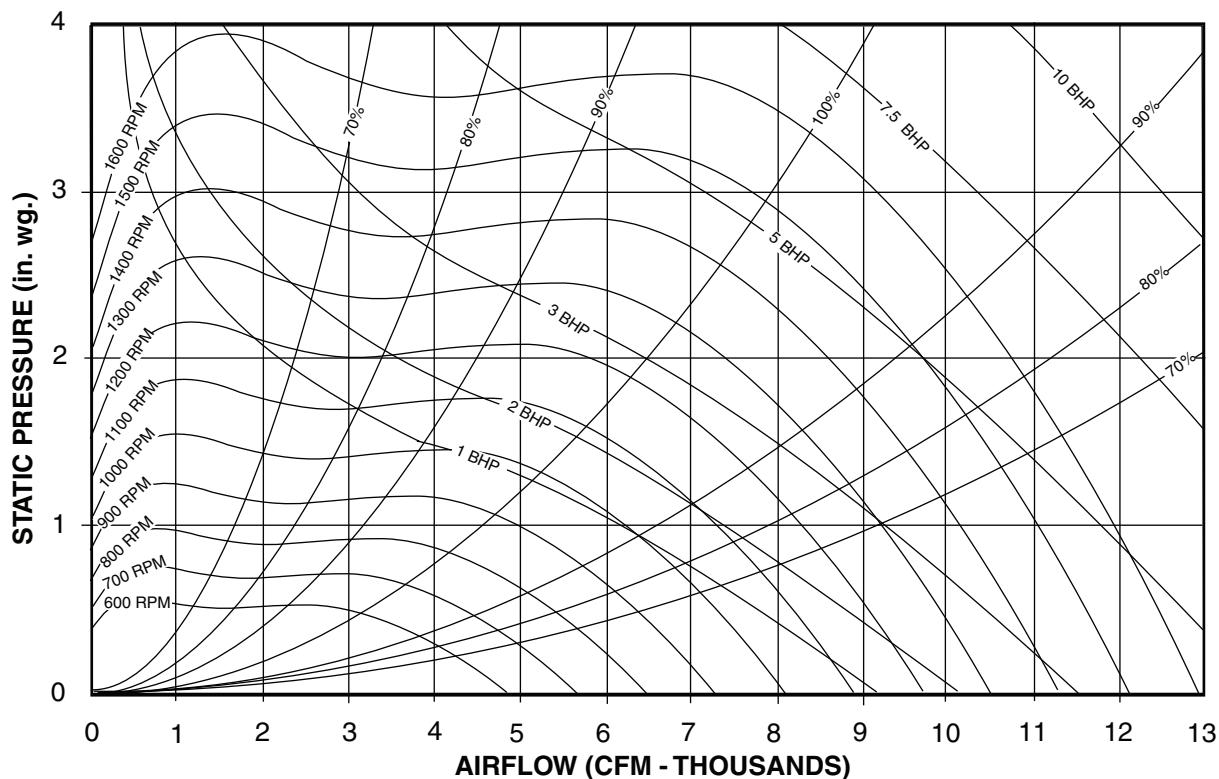


BACKWARD INCLINED PLENUM FAN (18.5-in.)

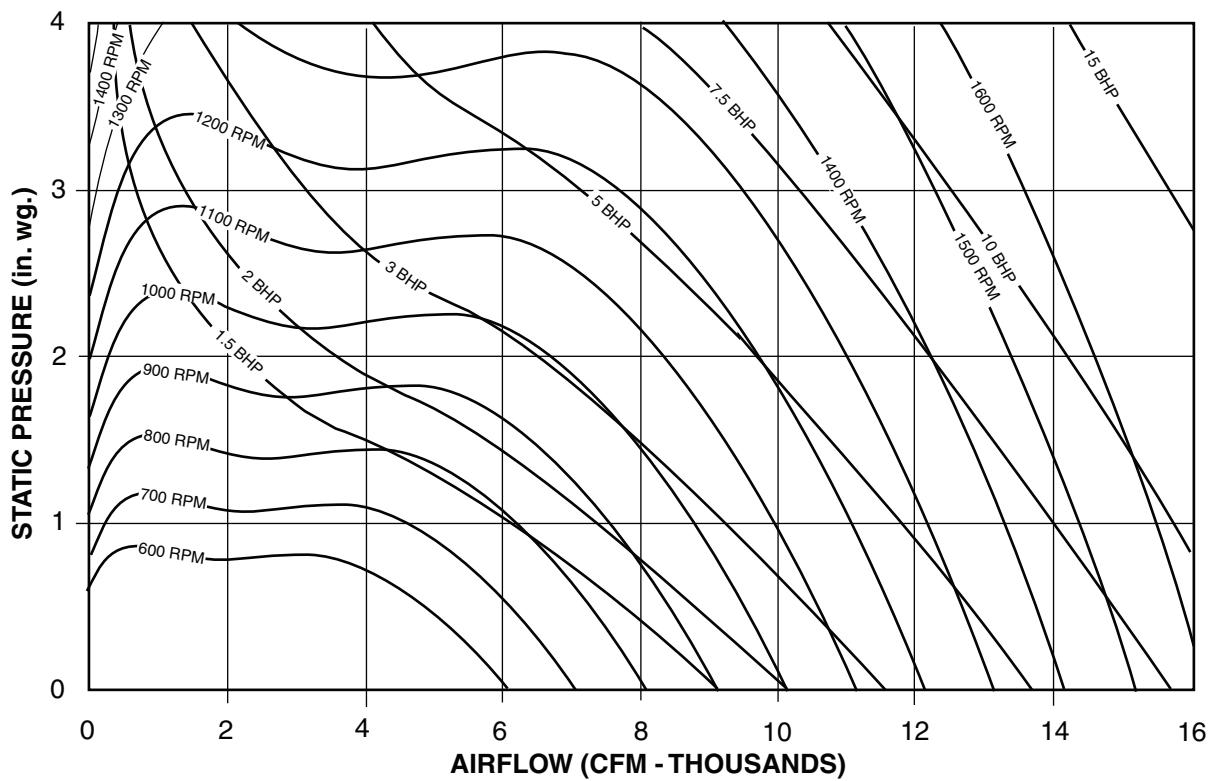


### FAN PERFORMANCE (cont)

BACKWARD INCLINED PLENUM FAN (24.5-in.)



BACKWARD INCLINED PLENUM FAN (27-in.)



# Performance data (cont)



## COMPONENT PRESSURE DROPS (in. wg) UNITS 62DA,DB,DC,DD,DE,DF07-09

COMPONENT	SUPPLY AIR CFM								
	500	900	1300	1700	2100	2500	2900	3300	3500
Cabinet Loss	0.02	0.03	0.05	0.07	0.09	0.12	0.15	0.18	0.20
2-in. Cleanable Filters	0.01	0.01	0.01	0.02	0.03	0.03	0.04	0.05	0.05
2-in. Pleated MERV 8 Filters	0.03	0.04	0.05	0.08	0.10	0.11	0.11	0.12	0.13
4-in. Pleated MERV 8 Filters	0.03	0.04	0.05	0.06	0.08	0.08	0.09	0.09	0.10
4-in. Pleated MERV 11 Filters	0.04	0.06	0.07	0.10	0.12	0.11	0.14	0.15	0.16
4-in. Pleated MERV 14 Filters	0.07	0.10	0.15	0.18	0.22	0.23	0.24	0.26	0.27
Evaporator Coil (Recirc.)	—	0.18	0.22	0.25	0.30	0.32	0.36	0.40	0.42
Evaporator Coil (100% OA Air)	0.16	0.20	0.24	0.28	0.32	0.36	0.40	0.45	—
Hot Gas Reheat Coil	0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.06	0.07
Liquid Subcooling Coil	0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.06	0.07
Electric Heat 10-27 kW	0.01	0.01	0.01	0.01	0.02	0.03	0.04	0.05	0.07
Electric Heat 30-60 kW	0.31	0.31	0.31	0.31	0.32	0.33	0.34	0.35	0.37
Economizer	0.01	0.01	0.02	0.03	0.04	0.05	0.07	0.07	0.07
100% Outdoor Air Damper	0.01	0.01	0.01	0.02	0.03	0.04	0.05	0.07	0.07
Gas Heat 75,000 Btuh Input	0.01	0.02	0.03	0.05	0.06	0.07	0.09	0.10	0.12
Gas Heat 100,000 Btuh Input	0.01	0.02	0.04	0.05	0.07	0.08	0.10	0.12	0.13
Gas Heat 150,000 Btuh Input	0.01	0.03	0.05	0.06	0.08	0.09	0.11	0.13	0.15
Gas Heat 200,000 Btuh Input	0.01	0.03	0.06	0.07	0.09	0.10	0.12	0.14	0.16
Hot Water Coil	0.01	0.01	0.01	0.02	0.02	0.03	0.05	0.06	0.06
Steam Coil	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03
Energy Wheel	0.26	0.47	0.66	0.88	1.09	1.29	1.50	1.70	—

## COMPONENT PRESSURE DROPS (in. wg) UNITS 62DA,DB,DC,DD,DE,DF12-20

COMPONENT	SUPPLY AIR CFM								
	1300	1950	2600	3250	3900	4550	5200	5850	6500
Cabinet Loss	0.05	0.09	0.12	0.19	0.24	0.37	0.50	0.63	0.77
2-in. Cleanable Filters	0.01	0.02	0.03	0.05	0.06	0.07	0.08	0.09	0.10
2-in. Pleated MERV 8 Filters	0.05	0.07	0.10	0.12	0.15	0.18	0.22	0.26	0.30
4-in. Pleated MERV 8 Filters	0.05	0.06	0.08	0.09	0.11	0.14	0.17	0.20	0.24
4-in. Pleated MERV 11 Filters	0.07	0.10	0.12	0.15	0.17	0.21	0.26	0.30	0.35
4-in. Pleated MERV 14 Filters	0.15	0.18	0.22	0.26	0.30	0.37	0.45	0.53	0.60
Evaporator Coil (Recirc.)	—	0.20	0.23	0.25	0.35	0.39	0.40	0.44	0.55
Evaporator Coil (100% OA Air)	0.20	0.26	0.28	0.37	0.42	0.46	—	—	—
Hot Gas Reheat Coil	0.04	0.05	0.06	0.07	0.08	0.10	0.11	0.13	0.15
Liquid Subcooling Coil	0.04	0.05	0.06	0.07	0.08	0.10	0.11	0.13	0.15
Electric Heat 10-27 kW	0.01	0.02	0.04	0.06	0.08	0.12	0.15	0.19	0.24
Electric Heat 30-60 kW	0.31	0.32	0.34	0.36	0.38	0.42	0.45	0.49	0.54
Economizer	0.01	0.02	0.04	0.07	0.10	0.13	0.17	0.22	0.27
100% Outdoor Air Damper	0.01	0.02	0.04	0.07	0.10	0.13	0.17	0.22	0.27
Gas Heat 150,000 Btuh Input	0.01	0.03	0.04	0.07	0.11	0.15	0.20	0.25	0.31
Gas Heat 200,000 Btuh Input	0.01	0.03	0.05	0.08	0.12	0.17	0.22	0.27	0.34
Gas Heat 250,000 Btuh Input	0.01	0.03	0.06	0.09	0.13	0.18	0.24	0.30	0.37
Gas Heat 300,000 Btuh Input	0.02	0.04	0.07	0.10	0.15	0.20	0.26	0.33	0.40
Hot Water Coil	0.01	0.02	0.03	0.05	0.07	0.10	0.13	0.16	0.20
Steam Coil	0.01	0.01	0.02	0.03	0.04	0.05	0.06	0.08	0.10
Standard Energy Wheel	0.66	0.99	1.33	1.61	—	—	—	—	—
Optional Energy Wheel	0.37	0.56	0.74	0.93	1.11	1.30	1.48	—	—



**COMPONENT PRESSURE DROPS (in. wg)**  
**UNITS 62DA,DB,DC,DD,DE,DF22-38**

COMPONENT	SUPPLY AIR CFM								
	2800	3400	4000	4400	5000	7000	8500	10000	12000
Cabinet Loss	0.06	0.14	0.22	0.30	0.38	0.42	0.50	0.61	0.72
2-in. Cleanable Filters	0.01	0.01	0.02	0.02	0.04	0.06	0.08	0.10	0.12
2-in. Pleated MERV 8 Filters	0.04	0.05	0.07	0.09	0.10	0.17	0.25	0.32	0.38
4-in. Pleated MERV 8 Filters	0.02	0.03	0.05	0.06	0.08	0.15	0.21	0.27	0.32
4-in. Pleated MERV 11 Filters	0.05	0.06	0.08	0.10	0.12	0.20	0.29	0.36	0.44
4-in. Pleated MERV 14 Filters	0.08	0.10	0.12	0.14	0.18	0.30	0.40	0.50	0.60
Evaporator Coil (Recirc.)	—	—	—	0.30	0.32	0.33	0.39	0.45	0.98
Evaporator Coil (100% OA Air)	0.28	0.30	0.32	0.34	0.38	0.44	0.50	0.65	—
Hot Gas Reheat Coil	0.04	0.04	0.05	0.06	0.07	0.08	0.10	0.13	0.25
Liquid Subcooling Coil	0.04	0.04	0.05	0.06	0.07	0.08	0.10	0.13	0.25
Electric Heat 10-27 kW	0.10	0.11	0.12	0.13	0.14	0.16	0.18	0.20	0.22
Electric Heat 30-60 kW	0.40	0.41	0.42	0.43	0.44	0.46	0.48	0.50	0.52
Economizer	0.01	0.02	0.03	0.04	0.05	0.06	0.08	0.10	0.12
100% Outdoor Air Damper	0.01	0.02	0.03	0.04	0.05	0.06	0.08	0.10	0.12
Gas Heat 300,000 Btuh input	0.07	0.10	0.13	0.17	0.23	0.40	0.52	—	—
Gas Heat 400,000 Btuh input	—	0.15	0.21	0.28	0.36	0.48	0.57	0.68	—
Gas Heat 500,000 Btuh input	—	—	0.19	0.25	0.32	0.40	0.48	0.54	0.71
Gas Heat 600,000 Btuh input	—	—	—	—	0.30	0.38	0.45	0.52	0.67
Hot Water Coil	0.06	0.08	0.10	0.12	0.14	0.16	0.20	0.26	0.50
Steam Coil	0.04	0.04	0.05	0.06	0.07	0.08	0.10	0.13	0.25
Standard Energy Wheel	1.04	1.27	1.49	1.64	—	—	—	—	—
Optional Energy Wheel	0.80	0.97	1.14	1.25	1.42	1.99	—	—	—

# Performance data (cont)



## ENERGY CONSERVATION WHEEL PERFORMANCE

### 36-in. WHEEL

COOLING MODE												HEATING MODE						
Return Air = 75 db / 63 wb												Return Air = 70 db / 58 wb						
db	95						90						-10	0	10	20	30	
wb	63	67	71	75	78	80	63	67	71	75	78	80	-11	-1	9	19	29	
<b>900 CFM</b>																		
Total MBH	-0.1	10.3	21.9	34.5	44.9	52.2	-0.1	10.4	21.9	34.6	45.0	52.3	95.3	85.6	75.3	63.9	50.8	
Sens. MBH	16.9	16.9	16.9	16.9	16.9	16.9	12.7	12.7	12.7	12.7	12.7	12.7	67.8	59.3	50.8	42.4	33.9	
Lvg. DB	77.6	77.6	77.6	77.6	77.6	77.6	76.9	76.9	76.9	76.9	76.9	76.9	59.8	61.0	62.3	63.6	64.9	
Lvg. WB	63.0	63.6	64.2	64.9	65.5	65.9	63.0	63.6	64.3	65.0	65.5	65.9	52.1	52.7	53.4	54.1	55.0	
<b>1200 CFM</b>																		
Total MBH	0.0	13.2	27.8	43.9	57.0	66.2	0.0	13.3	27.9	43.9	57.0	66.3	121.1	108.9	95.8	81.3	64.6	
Sens. MBH	21.6	21.6	21.6	21.6	21.6	21.6	16.2	16.2	16.2	16.2	16.2	16.2	86.4	75.6	64.8	54.0	43.2	
Lvg. DB	78.3	78.3	78.3	78.3	78.3	78.3	77.5	77.5	77.5	77.5	77.5	77.5	56.7	58.4	60.0	61.7	63.3	
Lvg. WB	63.0	63.7	64.6	65.6	66.2	66.7	63.0	63.8	64.6	65.5	66.2	66.8	50.1	51.0	51.9	52.9	54.0	
<b>1500 CFM</b>																		
Total MBH	0.2	16.9	35.2	55.3	67.8	83.4	0.1	16.9	35.2	55.3	67.8	83.5	144.4	129.8	114.2	96.9	77.1	
Sens. MBH	27.3	27.3	27.3	27.3	27.3	27.3	20.5	20.5	20.5	20.5	20.5	20.5	103.3	90.3	77.4	64.5	51.6	
Lvg. DB	78.1	78.1	78.1	78.1	78.1	78.1	77.3	77.3	77.3	77.3	77.3	77.3	53.8	55.8	57.8	59.9	61.9	
Lvg. WB	62.9	63.7	64.5	65.4	66.0	66.6	63.0	63.7	64.5	65.4	66.0	66.6	48.2	49.3	50.4	51.6	53.0	
<b>1800 CFM</b>																		
Total MBH	0.4	18.3	38.1	59.8	77.5	89.9	0.3	18.3	38.0	59.7	77.4	89.9	165.3	148.6	130.7	110.9	88.2	
Sens. MBH	29.6	29.6	29.6	29.6	29.6	29.6	22.2	22.2	22.2	22.2	22.2	22.2	118.5	103.7	88.9	74.0	59.2	
Lvg. DB	79.8	79.8	79.8	79.8	79.8	79.8	78.6	78.6	78.6	78.6	78.6	78.6	51.0	53.3	55.7	58.1	60.5	
Lvg. WB	62.9	64.0	65.2	66.5	67.5	68.2	63.0	64.1	65.3	66.5	67.5	68.2	46.3	47.6	49.0	50.4	52.1	
<b>2100 CFM</b>																		
Total MBH	0.6	20.6	42.4	66.5	86.0	99.9	0.5	20.4	42.3	66.3	85.9	99.8	184.0	165.4	145.4	124.4	98.2	
Sens. MBH	33.0	33.0	33.0	33.0	33.0	33.0	24.5	24.5	24.5	24.5	24.5	24.5	132.2	115.7	99.2	82.6	66.1	
Lvg. DB	80.4	80.4	80.4	80.4	80.4	80.4	79.1	79.1	79.1	79.1	79.1	79.1	48.3	51.0	53.7	56.4	59.2	
Lvg. WB	62.9	64.2	65.5	66.9	68.0	68.8	63.0	64.2	65.5	67.0	68.1	68.9	44.5	46.0	47.6	49.3	51.2	
<b>2400 CFM</b>																		
Total MBH	0.9	22.6	46.3	72.4	93.7	108.7	0.7	22.4	46.1	72.2	93.5	108.6	200.7	180.4	158.6	134.6	107.1	
Sens. MBH	36.1	36.1	36.1	36.1	36.1	36.1	27.1	27.1	27.1	27.1	27.1	27.1	144.6	126.5	108.5	90.3	72.3	
Lvg. DB	81.1	81.1	81.1	81.1	81.1	81.1	79.5	79.5	79.5	79.5	79.5	79.5	45.8	48.8	51.8	54.9	57.9	
Lvg. WB	62.8	64.3	65.8	67.3	68.6	69.4	62.9	64.3	65.8	67.4	68.6	69.5	42.6	44.4	46.2	48.2	50.4	
<b>2700 CFM</b>																		
Total MBH	1.3	24.4	49.8	77.7	100.4	117	1.0	24.1	49.5	77.4	100.2	116.3	215.6	193.7	170.3	144.5	115.0	
Sens. MBH	38.9	38.9	38.9	38.9	38.9	38.9	29.2	29.2	29.2	29.2	29.2	29.2	155.6	136.2	116.7	97.3	77.8	
Lvg. DB	81.7	81.7	81.7	81.7	81.7	81.7	80.0	80.0	80.0	80.0	80.0	80.0	43.4	46.7	50.0	53.4	56.7	
Lvg. WB	62.8	64.4	66.0	67.7	69.1	70.0	62.9	64.5	66.1	67.8	69.1	70.1	40.9	42.8	44.9	47.1	49.6	
<b>3000 CFM</b>																		
Total MBH	1.6	26.1	52.9	82.4	106.4	123.4	1.2	25.7	52.6	82.0	106.0	123.1	228.8	205.6	180.7	153.4	122.0	
Sens. MBH	41.4	41.4	41.4	41.4	41.4	41.4	31.0	31.0	31.0	31.0	31.0	31.0	165.6	144.9	124.2	103.5	82.8	
Lvg. DB	82.2	82.2	82.2	82.2	82.2	82.2	80.4	80.4	80.4	80.4	80.4	80.4	41.1	44.7	48.3	51.9	55.6	
Lvg. WB	62.8	64.5	66.3	68.1	69.5	70.5	62.9	64.6	66.3	68.2	69.6	70.6	39.1	41.3	43.6	46.1	48.8	

#### LEGEND

- DB — Dry Bulb Temperature (F)
- Lvg. — Leaving
- MBH — Btuh x 1000
- Sens. — Sensible
- WB — Wet Bulb Temperature (F)



### ENERGY CONSERVATION WHEEL PERFORMANCE (cont)

#### 42-in. WHEEL

<b>COOLING MODE</b>												<b>HEATING MODE</b>					
Return Air = 75 db / 63 wb												Return Air = 70 db / 58 wb					
db	95						90						-10	0	10	20	30
wb	63	67	71	75	78	80	63	67	71	75	78	80	-11	0	9	19	29
<b>1200 CFM</b>																	
<b>Total MBH</b>	-0.2	13.9	29.3	46.2	60.1	69.9	-0.1	13.9	29.4	46.3	60.2	70.0	127.5	114.7	100.9	85.6	52.8
<b>Sens. MBH</b>	22.7	22.7	22.7	22.7	22.7	22.7	17.0	17.0	17.0	17.0	17.0	17.0	90.7	79.4	68.0	56.7	35.1
<b>Lvg. DB</b>	77.5	77.5	77.5	77.5	77.5	77.5	76.9	76.9	76.9	76.9	76.9	76.9	60.0	61.3	62.5	63.8	66.2
<b>Lvg. WB</b>	63.0	63.6	64.2	64.9	65.5	65.8	63.0	63.6	64.2	64.9	65.5	65.9	52.2	52.8	53.5	54.2	55.8
<b>1600 CFM</b>																	
<b>Total MBH</b>	-0.1	17.7	37.3	58.8	76.4	88.8	0.0	17.8	37.4	58.9	76.5	88.9	162.3	145.9	128.4	108.9	86.6
<b>Sens. MBH</b>	28.9	28.9	28.9	28.9	28.9	28.9	21.7	21.7	21.7	21.7	21.7	21.7	114.9	101.3	86.8	72.3	57.9
<b>Lvg. DB</b>	78.2	78.2	78.2	78.2	78.2	78.2	77.4	77.4	77.4	77.4	77.4	77.4	57.0	58.6	60.3	61.9	63.5
<b>Lvg. WB</b>	63.0	63.7	64.5	65.4	66.1	66.6	63.0	63.8	64.6	65.6	66.2	66.7	50.3	51.1	52.0	53.0	54.1
<b>2000 CFM</b>																	
<b>Total MBH</b>	0.1	21.3	44.6	70.1	91.0	105.7	0.1	21.3	44.6	70.1	91.0	105.8	193.7	174.2	153.2	130.0	103.4
<b>Sens. MBH</b>	34.6	34.6	34.6	34.6	34.6	34.6	25.9	25.9	25.9	25.9	25.9	25.9	138.5	121.2	103.9	86.5	69.3
<b>Lvg. DB</b>	79.0	79.0	79.0	79.0	79.0	79.0	78.0	78.0	78.0	78.0	78.0	78.0	54.1	56.1	58.1	60.1	62.1
<b>Lvg. WB</b>	62.9	63.9	64.9	65.9	66.8	67.4	63.0	63.9	64.9	66.0	66.8	67.4	48.4	49.5	50.6	51.8	53.2
<b>2400 CFM</b>																	
<b>Total MBH</b>	0.5	24.6	51.1	80.3	104.0	120.9	0.3	24.5	51.1	80.2	104.0	120.9	222.0	199.6	175.5	148.9	118.5
<b>Sens. MBH</b>	39.8	39.8	39.8	39.8	39.8	39.8	29.8	29.8	29.8	29.8	29.8	29.8	159.1	139.2	119.4	66.4	79.5
<b>Lvg. DB</b>	79.7	79.7	79.7	79.7	79.7	79.7	78.5	78.5	78.5	78.5	78.5	78.5	51.4	53.7	56.0	58.4	60.7
<b>Lvg. WB</b>	62.9	64.0	65.2	66.4	67.4	68.1	63.0	64.0	65.2	66.4	67.4	68.1	46.6	47.8	49.2	50.6	52.3
<b>2800 CFM</b>																	
<b>Total MBH</b>	0.8	27.6	57.0	89.3	115.7	134.4	0.6	27.5	56.9	89.2	115.6	134.3	274.4	222.4	195.5	165.9	132.0
<b>Sens. MBH</b>	44.4	44.4	44.4	44.4	44.4	44.4	33.3	33.3	33.3	33.3	33.3	33.3	177.7	155.5	133.3	111.1	88.9
<b>Lvg. DB</b>	80.3	80.3	80.3	80.3	80.3	80.3	79.0	79.0	79.0	79.0	79.0	79.0	48.8	51.4	54.1	56.7	59.4
<b>Lvg. WB</b>	62.9	64.1	65.4	66.8	67.9	68.7	63.0	64.2	65.5	66.9	68.0	68.8	44.8	46.3	47.8	49.5	51.4
<b>3200 CFM</b>																	
<b>Total MBH</b>	2.2	30.3	61.2	95.2	126.1	142.5	1.2	32.5	66.7	104.4	125.6	156.8	270.1	242.8	213.5	181.1	144.1
<b>Sens. MBH</b>	47.9	47.9	47.9	47.9	47.9	47.9	39.3	39.3	39.3	39.3	39.3	39.3	194.5	170.2	145.9	121.6	97.2
<b>Lvg. DB</b>	81.1	81.1	81.1	81.1	81.1	81.1	79.9	79.9	79.9	79.9	79.9	79.9	46.3	49.3	50.4	55.2	58.1
<b>Lvg. WB</b>	62.8	64.3	65.8	67.5	68.5	69.6	62.9	64.4	66.0	67.7	68.5	69.7	43.0	44.7	45.2	48.4	50.6
<b>3600 CFM</b>																	
<b>Total MBH</b>	2.8	32.8	65.8	101.9	135.4	152.3	2.1	32.2	65.1	101.3	135.1	156.8	290.5	261.0	229.5	194.7	154.9
<b>Sens. MBH</b>	51.6	51.6	51.6	51.6	51.6	51.6	38.7	38.7	38.7	38.7	38.7	38.7	209.6	183.4	157.2	131.0	104.8
<b>Lvg. DB</b>	81.7	81.7	81.7	81.7	81.7	81.7	80.0	80.0	80.0	80.0	80.0	80.0	43.9	47.2	50.4	53.7	57.0
<b>Lvg. WB</b>	62.7	64.3	66.1	67.9	69.0	70.2	62.8	64.5	66.1	67.9	69.0	69.9	43.0	43.2	45.2	47.3	49.7
<b>4000 CFM</b>																	
<b>Total MBH</b>	2.1	35.1	71.3	111.1	143.6	166.5	1.6	34.7	70.9	110.7	143.2	166.1	308.6	277.3	243.8	206.8	164.6
<b>Sens. MBH</b>	55.8	55.8	55.8	55.8	55.8	55.8	41.8	41.8	41.8	41.8	41.8	41.8	223.2	195.3	167.4	139.5	111.6
<b>Lvg. DB</b>	82.1	82.1	82.1	82.1	82.1	82.1	80.3	80.3	80.3	80.3	80.3	80.3	41.7	45.2	48.8	52.3	55.8
<b>Lvg. WB</b>	62.8	64.4	66.2	68.0	69.4	70.4	62.9	64.5	66.3	68.1	69.5	70.5	39.6	41.7	43.9	46.3	49.0

#### LEGEND

- DB — Dry Bulb Temperature (F)
- Lvg. — Leaving
- MBH — Btuh x 1000
- Sens. — Sensible
- WB — Wet Bulb Temperature (F)

# Performance data (cont)



## ENERGY CONSERVATION WHEEL PERFORMANCE (cont)

### 48-in. WHEEL

COOLING MODE												HEATING MODE						
Return Air = 75 db / 63 wb												Return Air = 70 db / 58 wb						
db	95						90						-10	0	10	20	30	
wb	63	67	71	75	78	80	63	67	71	75	78	80	-11	-1	9	19	29	
<b>1500 CFM</b>																		
Total MBH	0.1	17.4	36.8	58.2	75.6	87.9	0.2	17.5	36.9	58.3	75.8	88.1	159.1	144.3	126.9	107.7	85.6	
Sens. MBH	28.5	28.5	28.5	28.5	28.5	28.5	21.4	21.4	21.4	21.4	21.4	21.4	114.1	99.8	85.6	71.3	57.0	
Lvg. DB	77.4	77.4	77.4	77.4	77.4	77.4	76.8	76.8	76.8	76.8	76.8	76.8	60.5	61.6	62.8	64.0	65.2	
Lvg. WB	63.0	63.6	64.2	64.8	65.4	65.7	63.0	63.6	64.2	64.9	65.4	65.8	52.6	53.1	53.7	54.4	55.2	
<b>2000 CFM</b>																		
Total MBH	0.1	22.3	47.0	74.2	96.3	112.0	0.1	22.4	47.1	74.3	96.4	112.1	204.6	184.0	161.9	137.4	109.2	
Sens. MBH	36.5	36.5	36.5	36.5	36.5	36.5	27.4	27.4	27.4	27.4	27.4	27.4	145.9	127.6	109.4	91.2	72.9	
Lvg. DB	78.1	78.1	78.1	78.1	78.1	78.1	77.3	77.3	77.3	77.3	77.3	77.3	57.6	59.1	60.7	62.2	63.8	
Lvg. WB	63.0	63.7	64.5	65.3	66.0	66.5	63.0	63.7	64.5	65.4	66.1	66.5	50.7	51.5	52.3	53.2	54.3	
<b>2500 CFM</b>																		
Total MBH	0.1	26.9	56.3	88.6	115.0	133.6	0.1	26.9	56.3	88.7	115.0	133.7	244.8	220.1	193.6	164.2	130.6	
Sens. MBH	43.7	43.7	43.7	43.7	43.7	43.7	31.8	32.8	32.8	32.8	32.8	32.8	174.9	153.0	131.2	109.3	87.4	
Lvg. DB	78.8	78.8	78.8	78.7	78.7	78.8	77.9	77.9	77.9	77.9	77.9	77.9	54.8	56.7	58.6	60.5	62.4	
Lvg. WB	63.0	63.8	64.8	65.8	66.6	67.2	63.0	63.9	64.8	65.9	66.7	67.3	48.9	49.9	50.9	52.1	53.4	
<b>3000 CFM</b>																		
Total MBH	0.5	31.1	64.7	101.7	131.8	153.1	0.4	31.0	64.7	101.7	131.8	153.1	281.1	252.7	222.2	188.6	150.0	
Sens. MBH	50.3	50.3	50.3	50.3	50.3	50.3	37.7	37.7	37.7	37.7	37.7	37.7	201.3	176.1	151.0	125.8	100.6	
Lvg. DB	79.5	79.5	79.5	79.5	79.5	79.5	78.3	78.3	78.3	78.3	78.3	78.3	52.1	54.4	56.6	58.8	61.1	
Lvg. WB	62.9	64.0	65.1	66.3	67.2	67.9	63.0	64.0	65.1	66.3	67.3	67.9	47.1	48.3	49.6	50.9	52.5	
<b>3500 CFM</b>																		
Total MBH	0.9	35.0	72.3	113.4	146.9	170.6	0.7	34.8	72.2	113.3	146.8	170.6	313.9	282.1	248.1	210.5	167.5	
Sens. MBH	56.3	56.3	56.3	56.3	56.3	56.3	42.2	42.2	42.2	42.2	42.2	42.2	225.3	197.1	168.9	140.8	112.6	
Lvg. DB	80.1	80.1	80.1	80.1	80.1	80.1	78.8	78.8	78.8	78.8	78.8	78.8	49.6	52.2	54.7	57.3	59.8	
Lvg. WB	62.9	64.1	65.3	66.7	67.8	68.5	63.0	64.1	65.4	66.7	67.8	68.6	45.4	46.8	48.3	49.9	51.7	
<b>4000 CFM</b>																		
Total MBH	1.4	38.5	79.2	123.9	160.4	186.3	1.1	38.2	78.9	123.7	160.2	186.1	343.4	308.7	271.4	230.3	183.2	
Sens. MBH	61.7	61.7	61.7	61.7	61.7	61.7	46.3	46.3	46.3	46.3	46.3	46.3	247.0	126.1	185.3	154.4	123.5	
Lvg. DB	80.7	80.7	80.7	80.7	80.7	80.7	79.3	79.3	79.3	79.3	79.3	79.3	47.2	50.0	52.9	55.7	58.6	
Lvg. WB	62.8	64.2	65.6	67.1	68.3	69.1	62.9	64.3	65.7	67.2	68.3	69.2	43.7	45.3	47.0	48.8	50.9	
<b>4500 CFM</b>																		
Total MBH	1.9	41.7	85.4	133.4	166.0	200.3	1.5	41.3	85.0	133.0	165.7	199.9	370.0	332.5	292.3	248.0	197.3	
Sens. MBH	66.6	66.6	66.6	66.6	66.6	66.6	50.0	50.0	50.0	50.0	50.0	50.0	266.7	233.4	200.0	166.7	133.3	
Lvg. DB	81.3	81.3	81.3	81.3	81.3	81.3	79.7	79.7	79.7	79.7	79.7	79.7	44.9	48.0	51.2	54.3	57.4	
Lvg. WB	62.8	64.3	65.9	67.5	69.2	69.6	62.9	64.4	65.9	67.5	69.2	69.7	42.0	43.8	45.7	47.8	50.1	
<b>5000 CFM</b>																		
Total MBH	2.5	44.7	91.0	144.9	183.3	212.7	1.9	44.1	90.5	141.4	182.8	212.2	393.8	353.9	311.1	263.9	210.0	
Sens. MBH	71.1	71.1	71.1	71.1	71.1	71.1	50.0	50.0	50.0	50.0	50.0	50.0	53.3	284.5	248.9	213.4	177.8	142.3
Lvg. DB	81.8	81.8	81.8	81.8	81.8	81.8	79.7	79.7	79.7	79.7	79.7	79.7	80.1	42.7	46.1	49.5	52.9	56.3
Lvg. WB	62.8	64.4	66.1	67.8	69.2	70.2	62.9	64.5	66.1	67.9	69.3	70.2	40.3	42.4	44.5	46.8	49.3	

#### LEGEND

- DB — Dry Bulb Temperature (F)
- Lvg. — Leaving
- MBH — Btuh x 1000
- Sens. — Sensible
- WB — Wet Bulb Temperature (F)



### ENERGY CONSERVATION WHEEL PERFORMANCE (cont)

#### 54-in. WHEEL

COOLING MODE												HEATING MODE					
Return Air = 75 db / 63 wb												Return Air = 70 db / 58 wb					
db	95						90						-10	0	10	20	30
wb	63	67	71	75	78	80	63	67	71	75	78	80	-11	0	9	19	29
<b>5500 CFM</b>																	
<b>Total MBH</b>	2.1	50.6	103.8	162.2	209.7	243.4	1.6	50.2	103.5	178.2	209.5	243.2	582.1	416.5	365.1	308.9	245.1
<b>Sens. MBH</b>	81.1	81.1	80.9	80.9	80.8	80.8	60.8	60.8	60.7	67.3	60.7	60.6	423.1	292.2	249.7	207.5	165.5
<b>Lvg. DB</b>	80.9	80.9	80.9	80.9	80.9	80.9	79.5	79.5	79.4	80.1	79.4	79.4	36.0	47.3	50.7	54.1	57.4
<b>Lvg. WB</b>	62.8	64.3	65.7	67.2	68.4	69.3	62.9	64.3	65.8	67.9	68.5	69.4	35.1	43.3	45.5	47.6	50.0
<b>6000 CFM</b>																	
<b>Total MBH</b>	2.6	53.7	109.5	170.8	220.7	256.1	2.1	53.1	109.1	185.3	220.4	255.8	492.1	440.7	386.1	326.5	258.9
<b>Sens. MBH</b>	85.6	85.6	85.5	85.4	85.4	85.3	64.3	64.2	64.2	70.2	64.1	64.1	355.3	309.8	264.6	219.8	175.2
<b>Lvg. DB</b>	81.4	81.4	81.4	81.3	81.3	81.3	79.8	79.8	79.8	80.4	79.8	79.8	42.2	45.8	49.4	53.0	56.5
<b>Lvg. WB</b>	62.8	64.3	65.9	67.5	68.8	69.7	62.9	64.4	66.1	68.1	68.9	69.8	40.0	42.2	44.5	46.9	49.4
<b>6500 CFM</b>																	
<b>Total MBH</b>	3.2	56.4	114.7	178.7	230.6	367.6	2.5	55.8	114.2	178.2	230.3	267.2	517.3	463.1	405.6	342.8	271.7
<b>Sens. MBH</b>	89.8	89.7	89.6	89.6	89.5	89.5	67.4	67.4	67.3	67.3	67.2	67.1	374.2	326.2	278.4	231.2	184.2
<b>Lvg. DB</b>	81.8	81.8	81.8	81.8	81.8	81.7	80.1	80.1	80.1	80.1	80.1	80.1	40.5	44.4	48.2	52	55.7
<b>Lvg. WB</b>	62.8	64.4	66.1	67.8	69.2	70.1	62.9	64.5	66.1	67.9	69.2	70.2	38.7	41.1	43.5	46.1	48.9
<b>7000 CFM</b>																	
<b>Total MBH</b>	3.8	59.1	119.5	185.9	239.9	278.1	2.9	58.3	118.8	185.3	239.4	277.6	540.6	483.7	423.5	357.7	283.5
<b>Sens. MBH</b>	93.7	93.6	93.5	93.4	93.3	93.3	70.4	70.3	70.2	70.1	70.1	70.1	391.7	341.3	291.3	241.7	192.5
<b>Lvg. DB</b>	82.2	82.2	82.2	82.2	82.2	82.2	80.4	80.4	80.4	80.4	80.4	80.4	39.0	43.0	47.1	51.0	54.9
<b>Lvg. WB</b>	62.8	64.5	66.2	68.1	69.5	70.5	62.9	64.6	66.3	68.1	69.6	70.6	37.5	40.0	42.6	45.4	48.3
<b>7500 CFM</b>																	
<b>Total MBH</b>	4.4	61.5	123.9	192.4	248.2	287.6	3.4	60.5	123.2	191.7	247.6	287.1	562.2	502.8	439.9	371.5	294.3
<b>Sens. MBH</b>	97.3	97.2	97.1	96.9	96.8	96.7	73.1	72.9	72.8	72.7	72.7	72.7	407.9	355.3	303.1	251.4	200.2
<b>Lvg. DB</b>	82.6	82.6	82.6	82.6	82.6	82.5	80.7	80.7	80.7	80.7	80.7	80.7	37.4	41.7	45.9	50.0	54.1
<b>Lvg. WB</b>	62.8	64.5	66.4	68.3	69.8	70.8	62.9	64.6	66.5	68.4	69.9	70.9	36.3	39.2	41.7	44.6	47.8
<b>8000 CFM</b>																	
<b>Total MBH</b>	4.9	63.7	127.9	198.4	255.7	296.3	3.8	62.6	127.1	197.6	255.1	295.6	582.1	520.3	455.1	384.2	304.2
<b>Sens. MBH</b>	100.5	100.4	100.3	100.1	100.1	99.9	75.5	75.4	75.3	75.2	75.1	75.1	423.1	368.3	314.1	260.4	207.3
<b>Lvg. DB</b>	83.0	83.1	83.1	82.9	82.9	82.9	81.1	81.1	81.0	81.1	81.1	81.1	36.0	40.4	44.8	49.1	53.4
<b>WB</b>	62.8	64.6	66.6	68.6	70.1	71.2	62.9	64.7	66.6	68.6	70.2	71.3	35.1	38.0	40.9	43.9	47.2

#### LEGEND

- DB — Dry Bulb Temperature (F)
- Lvg. — Leaving
- MBH — Btuh x 1000
- Sens. — Sensible
- WB — Wet Bulb Temperature (F)

# Electrical data



## COMPRESSOR ELECTRICAL DATA

VOLTAGE		UNIT SIZE 62D												
		07	08	09	12	14	15	16	20	22	24	30	34	38
Number of Compressors		1	1	1	2	2	2	2	2	2	2	2	2	4
208-230/3/60	RLA (each)	16.0	19.0	23.2	13.7	16.0	22.4	25.0	29.5	29.5	30.1	48.1	55.8	29.5
	LRA	110.0	123.0	164.0	83.1	110.0	149.0	164.0	195.0	195.0	225.0	245.0	340.0	195.0
460/3/60	RLA (each)	7.8	9.7	11.2	6.2	7.8	10.6	12.2	14.8	14.8	16.7	18.6	26.9	14.8
	LRA	52.0	62.0	75.0	41.0	52.0	75.0	100.0	95.0	95.0	114.0	125.0	173.0	95.0
575/3/60	RLA (each)	5.7	7.4	7.9	4.8	5.7	7.7	90.0	12.2	12.2	12.2	14.7	23.7	12.2
	LRA	38.9	50.0	54.0	33.0	38.9	54.0	78.0	80.0	80.0	80.0	100.0	132.0	80.0

## CONDENSER FAN MOTOR ELECTRICAL DATA

VOLTAGE		UNIT SIZE 62D												
		07	08	09	12	14	15	16	20	22	24	30	34	38
Number of Fans		1	1	1	2	2	2	2	2	2	2	2	2	2
208/230-3-60	FLA	3.0	4.0	4.0	2.3	2.3	4.0	4.0	4.0	4.0	4.0	5.6	5.6	5.6
460-3-60	FLA	1.5	2.0	2.0	1.2	1.2	2.0	2.0	2.0	2.0	2.0	2.8	2.8	2.8
575-3-60	FLA	0.8	1.8	1.8	0.8	0.8	0.8	1.8	1.8	1.8	1.8	2.3	2.3	2.3

## SUPPLY AND EXHAUST FAN MOTOR ELECTRICAL DATA

VOLTAGE		MOTOR HP										
		1/2	3/4	1	1 1/2	2	3	5	7 1/2	10	15	20
208/230-3-60	FLA	2.8	3.4	3.2	4.8	6.3	9.8	15.7	22.3	29.0	43.4	57.0
460-3-60	FLA	1.4	1.7	1.5	2.0	2.9	4.1	6.8	10.0	12.9	18.9	24.5
575-3-60	FLA	0.8	1.3	1.1	1.6	2.3	3.3	5.2	7.6	10.1	15.1	19.6

## ENERGY CONSERVATION WHEEL ELECTRICAL DATA

VOLTAGE		WHEEL SIZE (in.)			
		36	42	48	54
208/230-3-60	FLA	2.5	2.5	2.5	3.0
460-3-60	FLA	1.3	1.3	1.3	1.5
575-3-60	FLA	1.0	1.3	1.0	1.5

### LEGEND

FLA — Full Load Amps  
 RLA — Rated Load Amps

# Controls



## Control components

The 62D Series of dedicated outdoor air units use a microprocessor controller that has been specifically designed for Carrier commercial equipment. The controller monitors the operating conditions in the outdoor air unit and controls the compressors, fans, heating systems, and optional devices. The controller has the capability of communicating with all major building automation protocols including BACnet, Modbus, and LonWorks (option) protocols.

NOTE: The temperatures listed below are default values and may be adjusted to meet the needs of the application.

## Sequence of operation — 100% outdoor air units — 62DA,DB,DC,DD

Operation of the dedicated outdoor air unit is based upon the occupancy schedule that the installer or user programs into the controller.

**Start of operation** — When the unit is turned on, 24 volts AC is supplied to the controller. The controller will check the operating schedule and if it senses an occupied status, then the system checks for faults. If there are no faults, after 30 seconds, the controller will initiate the following actions:

- open the outside-air damper
- start the supply fan (when outside-air damper is 40% open)
- start the optional exhaust fan (when outside-air damper is 40% open)
- start the optional energy recovery wheel (when outside-air damper is 40% open)
- verifies the supply fan motor operation via the signal received from the airflow switch

**Cooling mode** — When the supply fan is running, the system monitors the outdoor-air temperature.

If OAT = 60 F, first stage compressor is started.

If OAT ≥ 75 F, second stage compressor is started (size 12 and larger)

If OAT falls to 75 F, second stage compressor will be turned off after a 3-minute time delay.

If OAT = 60 F, first stage compressor will be turned off after a 3-minute time delay.

NOTE: If the 62D unit is not equipped with hot gas reheat (HGRH), the leaving air temperature (LAT) is not controlled unless it is equipped with a digital compressor. Units with a digital compressor will modulate the digital compressor's capacity to maintain a 70 F (default value) leaving-air temperature.

NOTE: Compressors have a 5-minute time delay for restart.

**Hot Gas Reheat (HGRH) mode** — If the unit is equipped with an optional hot gas reheat system, when the supply fan is running and the unit is in Cooling mode the system monitors the leaving-air temperature. If the leaving-air temperature is 72 F, then the HGRH mode will be enabled. If the 62D unit is equipped with cycling HGRH control, the leaving-air temperature will typically be within approximately ± 1.5° F of the LAT set point. For units equipped with modulating HGRH control, the leaving-air temperature will typically be within approximately ± 0.5° F

of the LAT set point. If LAT > (72 F + 1° F), HGRH is disabled.

NOTE: Units with a digital compressor and HGRH must use modulating HGRH control.

## Dehumidification

On units equipped with a digital compressor, a dehumidification routine may be enabled. If the LAT set point is achieved, the digital compressor is modulated down to its lowest capacity and HGRH is OFF, the controller will check leaving air humidity. If the leaving air humidity is above the leaving air humidity set point (default is 50% RH), the digital compressor will ramp up in capacity as necessary to satisfy the leaving air humidity set point. If the LAT goes below the set point, modulating HGRH will be enabled to maintain the LAT. The controller will balance the capacity of the compressor and the use of HGRH to first satisfy LAT and then, if necessary dehumidify.

## Heat

The 62D unit may be equipped with gas or electric heat. The gas heat may be staged or modulating control. The electric heat may be staged or SCR control.

## Set points

The control set points are the same for gas or electric heat but are dependent on the type of unit, 100% outdoor air (62DA, DB, DC, DD) or re-circulating unit (62DE, DF).

**Staged heating** — Heating mode will be initiated based upon the outdoor-air temperature (OAT) heating set point (default is 55 F).

If OAT = 55 F, first stage heat is initiated. The heat type may be a gas furnace or electric heater.

If LAT = 72 F, second stage heat is initiated.

If LAT > 72 F, second stage heat turns off.

If OAT > 55 F, first stage heat turns off.

NOTE: The system monitors the leaving-air temperature and will turn off the heating stages if the LAT is greater than 160 F or the value of the LAT sensor is out of limits.

## Modulating gas or SCR electric heat

If the OAT is below OAT heating set point (default is 55 F), heating will be initiated. The modulating heat valve(s) or SCRs will control to a LAT of 72 F. Units with modulating gas heat may also have 'Override' control. Override control (sometimes called high fire override) is used to quickly raise the space temperature. For example, if the space is cold early in the morning, the unit will sense the low space temperature and go into high fire override even if the outdoor temperature is not that cold. After the space temperature is in the normal range, the unit will then go back to the modulating output mode.

**Heat and reheat override** — If room temperature control is desired, heat and/or hot gas reheat may be overridden via ROOM CTRL function accessible on the BACview Conditions screen. When the override is activated, the HEAT and HGRH modes will be controlled to adjust the room temperature to the set point (CONTROL ROOM SP) as configured on the BACview display.

# Controls (cont)



## Sequence of operation — re-circulating unit — 62DE, DF

Operation of the re-circulating unit is based upon the occupancy schedule that the installer or user programs into the controller.

**Start of operation** — When the unit is turned on, 24 volts AC is supplied to the controller. The controller will check the operating schedule and if it senses an occupied status, then the system checks for faults. If there are no faults, after 30 seconds, the controller will initiate the following actions:

- If the outdoor enthalpy is within the specified range, the economizer is active and the outdoor-air damper is open. The economizer will modulate to maintain a leaving-air temperature (LAT) of 57 F.
- The exhaust fan (if equipped) will be active when the outdoor-air damper is open.
- The controller will monitor the supply airflow. If after 60 seconds, there is no supply airflow noted, the controller will initiate an alarm and the unit will shut down.

**Cooling mode** — When the supply fan is running, the system monitors the room air temperature at the room sensor (RS).

If the room temperature is above 75 F, first stage cooling is initiated.

If the room temperature is above 77 F, second stage cooling is initiated.

Second stage cooling will turn off when room temperature falls to 75 F or when the LAT falls to 50 F.

First stage cooling will turn off when room temperature falls to 74 F or when the LAT falls to 48 F.

If the unit is equipped with the optional digital compressor, the compressor will modulate to maintain a leaving-air temperature of 50 F and room temperature of 75 F.

**Dehumidification** — When room temperature set point (default is 75 F) is satisfied and the room/return air relative humidity (R-RH) is above the R-RH set point (55% default value), first stage cooling and hot gas reheat are "ON." If the unit has modulating reheat, reheat will modulate to

satisfy the room/return relative humidity set point. When R-RH is 3% (default value) above the R-RH set point, second stage cooling is "ON." Hot gas reheat on circuit no. 2 (if equipped) is "ON." Second stage cooling will shut off when R-RH set point is satisfied. When R-RH is 3% below R-RH set point, reheat is disabled and unit goes back to normal cooling operation.

**Digital compressor (optional)** — If equipped with a digital compressor and using the Dehumidification mode, when R-RH is 3% (default value) above the R-RH set point, the digital compressor will modulate to up to 100% then the modulating reheat will ramp up to 100% to lower the room/return humidity to the R-RH set point. If the R-RH humidity stays 3% (default value) above the R-RH set point for 5 minutes, the modulating discharge valve (MDV) will modulate closed up to 50% to divert more hot gas to reheat the coil and help raise the reheat capacity to satisfy the R-RH set point. When R-RH set point is satisfied the modulating discharge valve will open 100%, and the reheat will modulate down to 0%. When R-RH is 3% below R-RH set point, the reheat is off and the digital compressor will go back to normal cooling operation.

## Heating mode

If the room temperature is 69 F, first stage heat is initiated. The heat type may be a gas furnace or electric heater.

If the room temperature is 67 F, second stage heat is initiated.

Second stage heat will cycle off when LAT is 90 F or when the room temperature is 70 F.

First stage heat will cycle off when LAT is 92 F or when the room temperature is 71 F.

If the LAT reaches 120 F, all heat is turned off.

NOTE: If supply fan is set to enable on demand for cooling and heating only in the Occupied mode, then the supply fan will continue to run for 2 minutes after the heat mode is turned off.

**Modulating heat** — The electric heat (SCR) or modulating gas furnace will modulate to maintain leaving-air temperature (LAT) at 90 F and the room temperature at 70 F.



## TYPICAL CONTROLLER INPUTS

NUMBER	NAME	TYPE	SENSOR TYPE
UI-01	Outdoor Air Temperature	Analog	Thermistor, type II, 10 kilo-ohm at 77 F
UI-02	Outdoor Air Humidity (If Equipped)	Analog	0 - 10 volts DC
UI-03	Leaving Air Temperature	Analog	Thermistor, type II, 10 kilo-ohm at 77 F
UI-04	Space Air Temperature (Read Only)	Analog	Thermistor, type II, 10 kilo-ohm at 77 F
UI-05	Clogged Filter Indicator	Binary	Dry Contact
UI-06	Supply Pressure Transmitter (Optional)	Analog	0 - 5 or 0 - 10 volts DC
UI-07	Compressor 1 Protection Status	Binary	Dry Contact
UI-08	Compressor 2 Protection Status	Binary	Dry Contact
UI-09	Exhaust Fan Pressure Transmitter (Optional)	Analog	0 - 5 or 0 - 10 volts DC
UI-10	Exhaust Fan Status (Optional)	Binary	Dry Contact
UI-11	Supply Fan Status	Binary	Dry Contact
UI-12	Wheel Motor Motion Sensor (Optional)	Binary	Dry Contact

## TYPICAL CONTROLLER OUTPUTS

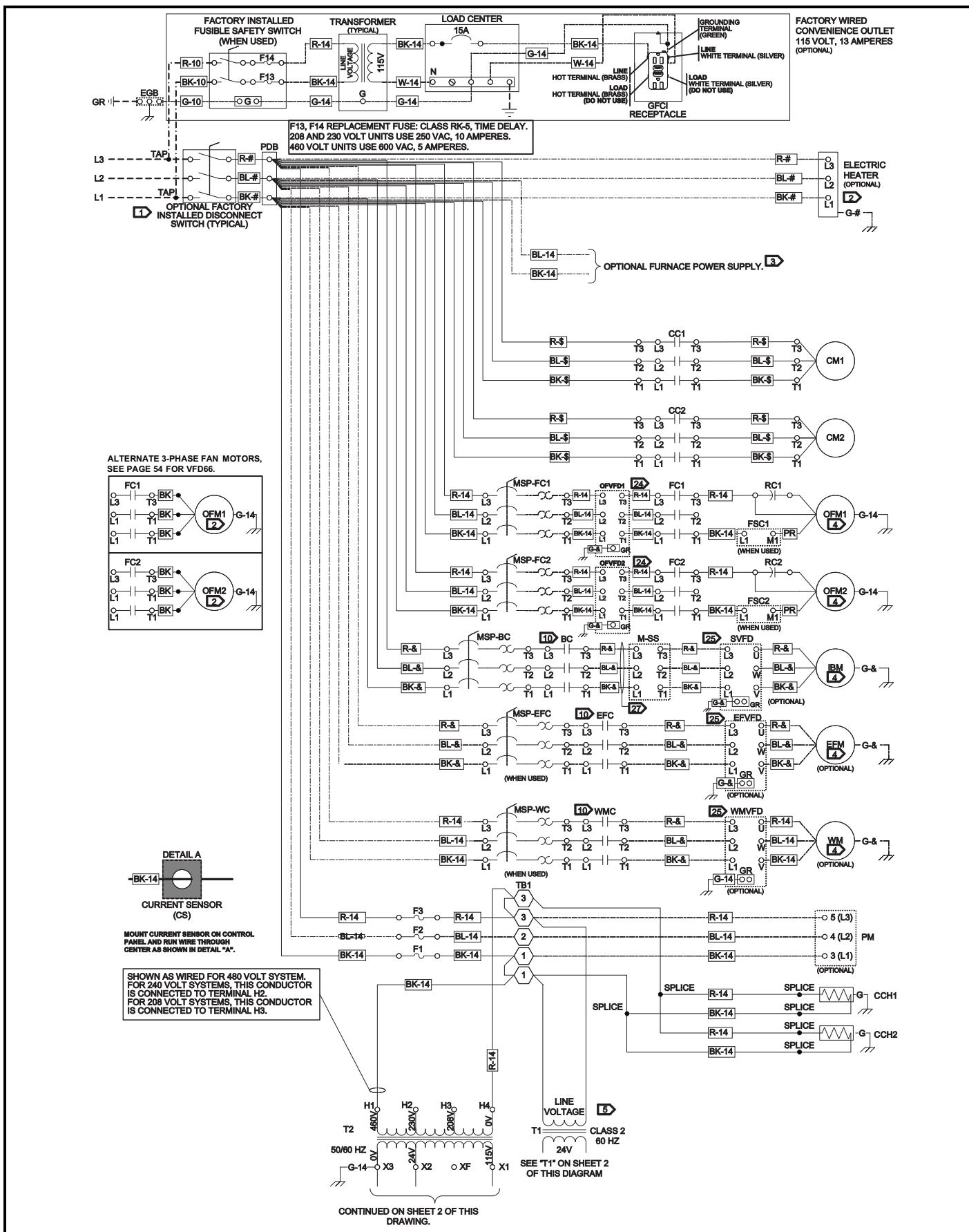
NUMBER	NAME	TYPE	SENSOR TYPE
AO-1	Supply Fan VFD Modulate	Analog	Electrical, 0 to 10 V
AO-2	Exhaust Fan VFD Modulate	Analog	Electrical, 0 to 10 V
AO-3	Condenser Valve Modulate (If Equipped)	Analog	Electrical, 0 to 10 V
AO-4	HGRH Modulate	Analog	Electrical, 0 to 10 V
AO-5	Digital Compressor (If Equipped)	Analog	Electrical, 0 to 10 V
AO-6	Modulating Gas Furnace or SCR Electric Heat	Analog	Electrical, 0 to 10 V
BO-1	G (Supply Fan, Exhaust Fan, Wheel Motor)	Binary	Relay/Triac Output
BO-2	Y1 (Compressor 1)	Binary	Relay/Triac Output
BO-3	Y2 (Compressor 2)	Binary	Relay/Triac Output
BO-4	RH (HGRH Valves)	Binary	Relay/Triac Output
BO-5	W1 (Heat Stage 1)	Binary	Relay/Triac Output
BO-6	W2 (Heat Stage 2)	Binary	Relay/Triac Output

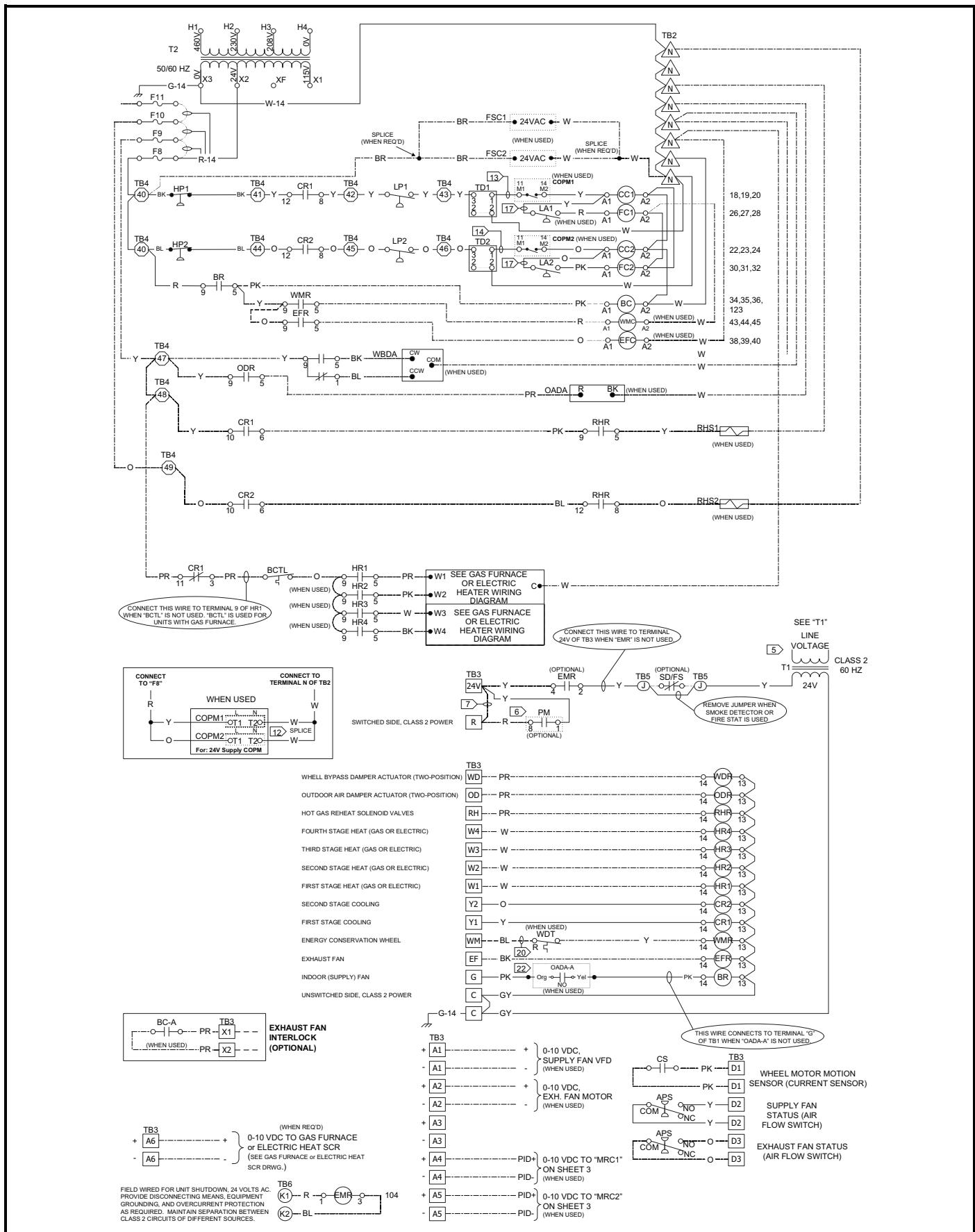
### LEGEND

- AO** — Analog Output
- BO** — Binary Output
- HGRH** — Hot Gas Reheat
- SCR** — Silicone Controlled Rectifier
- UI** — Universal Input
- VFD** — Variable Frequency Drive

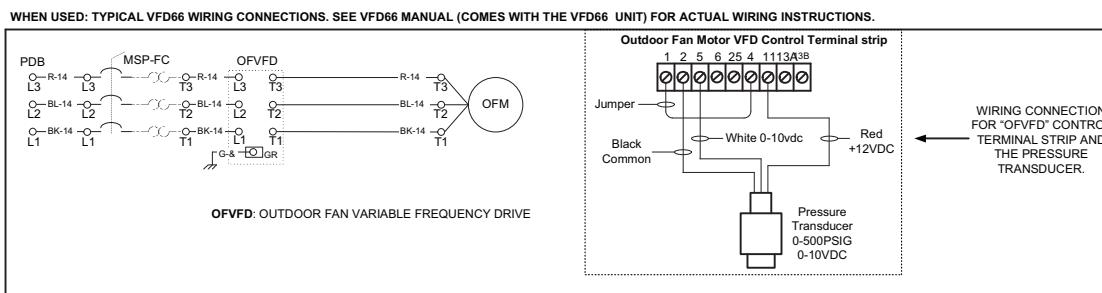
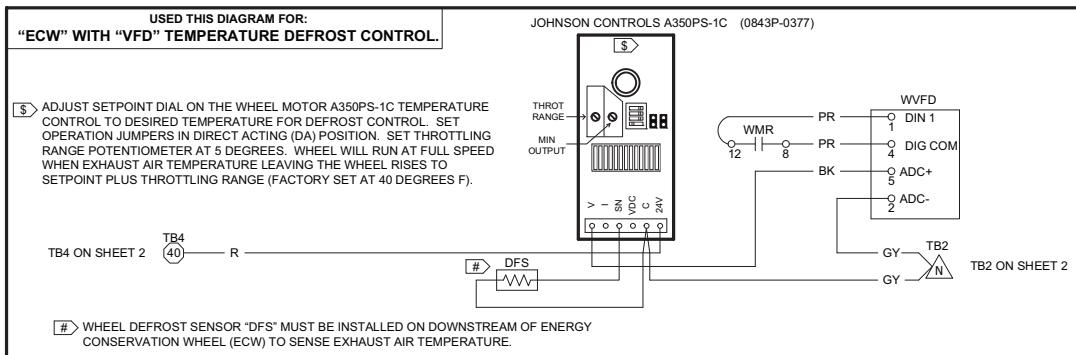
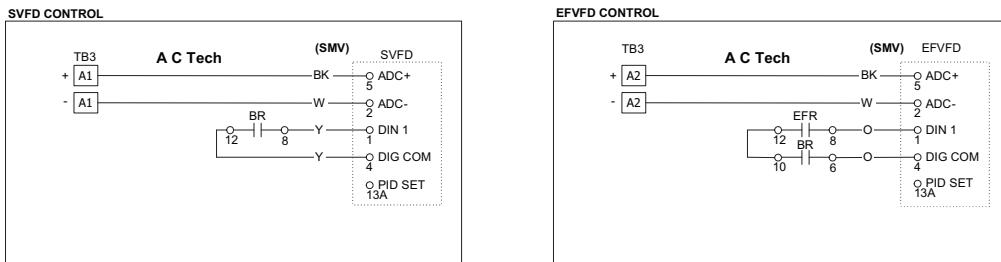
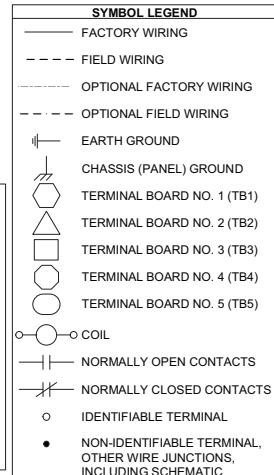
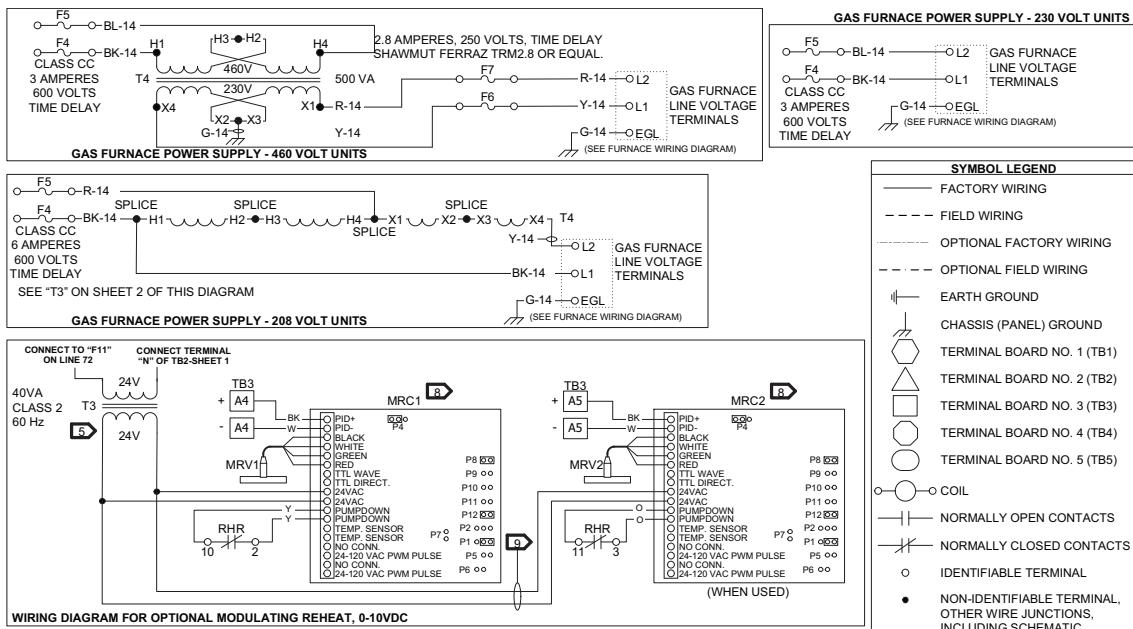
# Typical wiring schematics

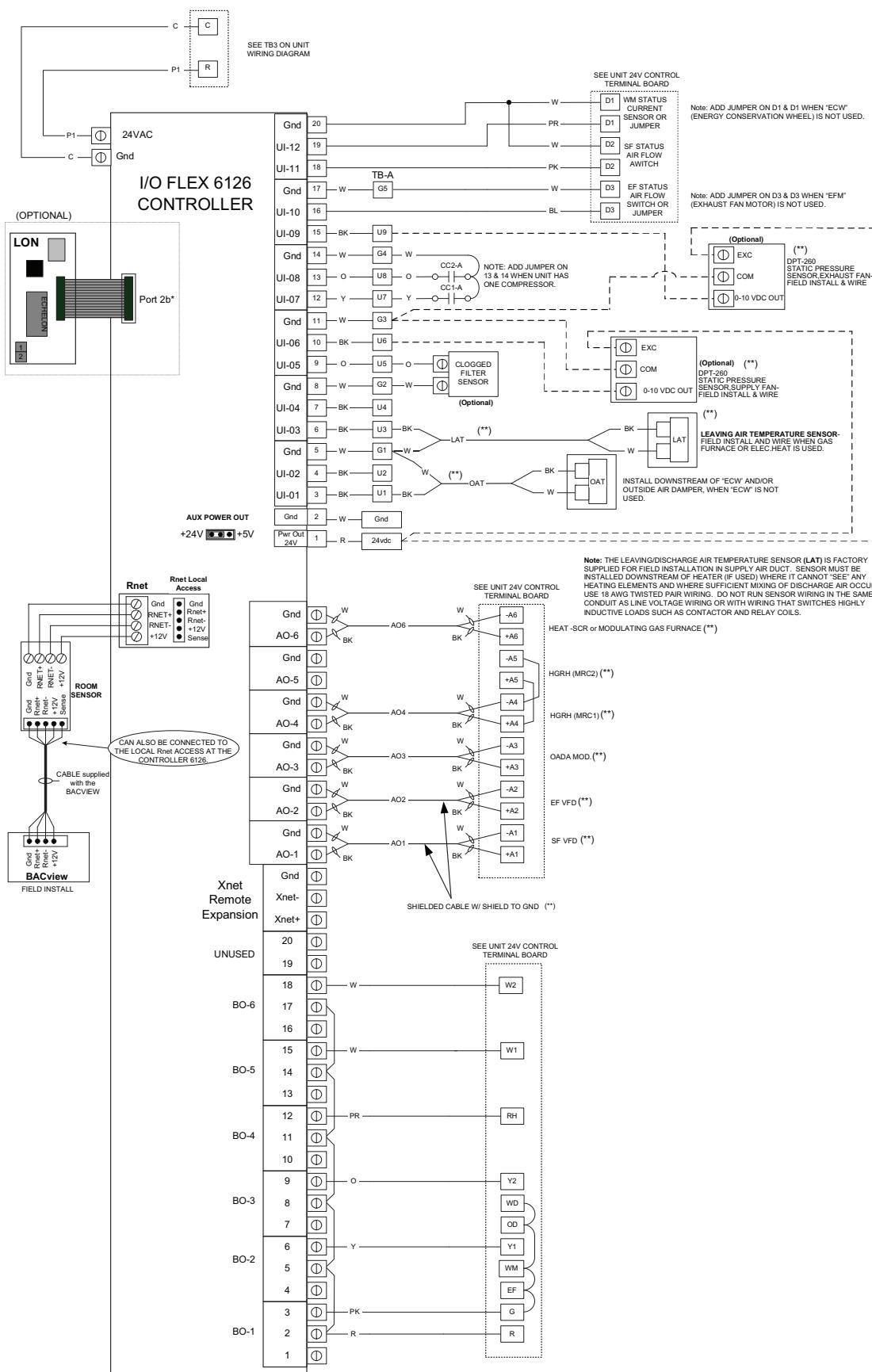
*Carrier*®





# Typical wiring schematics (cont)





# Typical wiring schematics (cont)



## LEGEND AND NOTES FOR TYPICAL WIRING SCHEMATICS

### LEGEND

<b>AO</b>	— Analog Output
<b>APS</b>	— Supply Air Differential Pressure Switch
<b>BC</b>	— Indoor Blower Motor Contactor
<b>BC-A</b>	— BC Auxiliary Contact
<b>BCTL</b>	— Blower Compartment High Temperature Limit
<b>BO</b>	— Binary Output
<b>BOS</b>	— Bleed Off Solenoid Valve
<b>BPS</b>	— Hot Gas Bypass Solenoid Valve
<b>BR</b>	— Blower Relay
<b>CC</b>	— Compressor Contactor
<b>CC-A</b>	— CC Auxiliary Contact
<b>CCH</b>	— Compressor Crankcase Heater
<b>CM</b>	— Compressor
<b>CR</b>	— Cool Relay
<b>DFS</b>	— Defrost Sensor
<b>EFC</b>	— Exhaust Fan Contactor
<b>EFM</b>	— Exhaust Fan Motor
<b>EFR</b>	— Exhaust Fan Motor Relay
<b>EFVFD</b>	— Exhaust Fan Variable Frequency Drive (Optional)
<b>EGB</b>	— Equipment Grounding Bar
<b>EMR</b>	— Energy Management Relay
<b>EWR</b>	— Energy Wheel Motor Relay
<b>F</b>	— Fuse
<b>FC</b>	— Outdoor Fan Motor Contactor
<b>FSC</b>	— Electronic Fan Speed Control
<b>GFCI</b>	— Ground Fault Current Interrupt
<b>HACR</b>	— Heating, Air Conditioning, and Refrigeration
<b>HP</b>	— High Pressure Cutout
<b>HR</b>	— Heat Relay
<b>IBM</b>	— Indoor Blower Motor
<b>LA</b>	— Low Ambient Fan Cycling Control
<b>LLS</b>	— Liquid Line Solenoid Valve
<b>LP</b>	— Low Pressure Cutout
<b>MRC</b>	— Modulating Reheat Temperature Control Board
<b>MRV</b>	— Modulating Hot Gas Reheat Valve
<b>MSP-BC</b>	— Indoor Blower Motor Starter Protector
<b>MSP-CC</b>	— Compressor Motor Starter Protector
<b>MSP-EFC</b>	— Exhaust Fan Motor Starter Protector (When Used)
<b>MSP-FC</b>	— Outdoor Fan Motor Starter Protector
<b>MSP-WC</b>	— Wheel Motor Starter Protector (When Used)
<b>OADA</b>	— Two Position Outdoor Air Damper Actuator (When Used)
<b>OAT</b>	— Outside Air Temperature
<b>ODR</b>	— Outdoor Air Damper Relay (When Used)
<b>OFM</b>	— Outdoor Fan Motor
<b>OFVFD</b>	— Outdoor Fan Variable Frequency Drive
<b>PDB</b>	— Power Distribution Block
<b>PM</b>	— Power Monitor (Optional)
<b>RC</b>	— OFM Run Capacitor
<b>RHR</b>	— Reheat Relay
<b>RHS</b>	— Hot Gas Reheat Solenoid Valve
<b>SCR</b>	— Silicon Controlled Rectifier
<b>SD/FS</b>	— Smoke Detector/Firestat
<b>SVFD</b>	— BC Variable Frequency Drive (Optional)
<b>T</b>	— Control Transformer
<b>TB</b>	— Terminal Board
<b>TD</b>	— Time Delay
<b>UI</b>	— Universal Input
<b>VFD</b>	— Variable Frequency Drive
<b>WBDA</b>	— Wheel Bypass Damper Actuator
<b>WMC</b>	— Wheel Motor Contactor
<b>WDR</b>	— Wheel Bypass Damper Relay
<b>WDT</b>	— Wheel Defrost Thermostat
<b>WM</b>	— Wheel Motor
<b>WMR</b>	— Energy Wheel Motor Relay (When Used)
<b>WMVFD</b>	— Wheel Motor Variable Frequency Drive (Optional)
<b>WVFD</b>	— Wheel Motor Variable Frequency Drive (Optional)

### NOTES:

1. Field power supply per unit rating plate. Minimum circuit ampacity and maximum size of time-delay fuse or HACR-type circuit breaker per unit rating plate. Provide disconnecting means and equipment grounding as required.
2. Typical heater shown. Some heaters require multiple factory wired branch circuits (one circuit shown). See wiring diagram in heater for actual heater wiring detail.
3. See the furnace wiring diagram for 3 furnace internal wiring.
4. Typical motor shown. See connection diagram on motor for actual wiring detail.
5. Typical class 2 transformer shown. See transformer label for connection diagram and/or lead color coding. Insulate separately any unused leads. Polarity is not indicated. Some models use circuit breaker on transformer secondary. This circuit breaker is not shown.
6. If power monitor output contacts do not transfer when power is applied to unit (LED glows red during fault conditions), then verify that all three phases are present and are of the correct voltage. If all three phases are present and are of the correct voltage, phase rotation may be incorrect. Disconnect power to unit. Verify that power is disconnected. Swap any two of the three unit power supply wires. When power is reapplied, output contacts should now transfer.
7. Install jumper when optional power monitor is not used. Jumper must not be installed when optional power monitor is used.
8. The following pin jumpers are installed: P1- between center and right pins; P8; P12. Note that P4 is for internal power selection - do not change. See the temperature control board product/technical bulletin for complete information.
9. These conductors are used only when "MRC2" is used.
10. This contactor is not used when VFD is used.
11. Not used.
12. Typical, see connection diagram on compressor for actual compressor overload protection module ("COPM"-if used) wiring. Sensor wiring not shown.
13. This wire connects directly to "CC1" when "COPM1", compressor overload protection module no. 1, is not used.
14. This wire connects directly to "CC2" when "COPM2", compressor overload protection module no. 2, is not used.
15. Not used.
16. Not used.
17. This wire connects directly to 24 V coil (A1) of fan contactor (FC) when LA (low ambient fan cycling control) is not used.
18. Not used.
19. Not used.
20. This wire connects to terminal 14 of EWR when WDT is not used.
21. Not used.
22. OADA-A (outside air damper actuator-auxiliary) is used only when the unit is 100% OA with 2-position damper actuator.
23. Not used.
24. The VFD 66 is optional. When VFD 66 is not used, connect the wires of the motor to its appropriate fan contactor (FC).
25. The VFDs (SFVFD, EFVFD, WMVFD) are optional. When these VFDs are not used, connect the motor wires to its appropriate contactor.
26. Not used.
27. These wires connect directly to supply motor when optional motor soft start is not used.

# Guide specifications



## Packaged Rooftop Cooling Unit and Packaged Rooftop Cooling Unit with Heat

### HVAC Guide Specifications — Section 62DA,DB,DC,DD,DE,DF

Size Range: **6 to 35 Tons Nominal (Cooling)**

Carrier Model Number: **62DA,DB,DC,DD,DE,DF**

#### Part 1 — General

##### 1.01 SYSTEM DESCRIPTION:

Outdoor roof curb or slab mounted, electronically controlled, cooling or cooling/heating unit utilizing hermetic scroll compressors with crankcase heaters for cooling duty and gas combustion or electric for heating duty. Units shall discharge supply air vertically or horizontally as shown on contract drawings.

##### 1.02 QUALITY ASSURANCE

- A. Unit shall be designed to conform to ANSI/ASHRAE 15 (latest edition), ASHRAE 62, and UL Standard 1995.
- B. Unit shall be listed by ETL and ETL, Canada as a total package.
- C. Gas heat equipped units shall be designed to conform with ANSI Standard Z21.47 (U.S.A.) / CSA Standard 2.3 (Canada), Gas-Fired Central Furnaces.
- D. Roof curb shall be designed to NRCA criteria per Bulletin B-1986.
- E. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.

##### 1.03 DELIVERY, STORAGE AND HANDLING

Unit shall be stored and handled per manufacturer's recommendations.

#### Part 2 — Products

##### 2.01 EQUIPMENT

###### A. General:

Factory-assembled, single-piece heating and cooling unit. Contained within the unit enclosure shall be all factory wiring, piping, refrigerant charge (R-410A), operating oil charge, single refrigerant circuit (sizes 07-09) or dual refrigerant circuits (sizes 12-38), microprocessor based control system and associated hardware, and all special features required prior to field start-up.

###### B. Unit Cabinet:

1. Double wall design, constructed of G-90 galvanized steel, bonderized and pre-coated with a baked enamel finish.
  - a. Top cover shall be 18-gage sheet metal with 1.0-in. thick, 4.0-lb density, closed cell insulation with a 24-gage sheet metal interior liner.
  - b. Access panels and doors shall be 20-gage sheet metal with 1.0-in. thick, 4.0-lb density, closed cell insulation with a 24-gage sheet metal interior liner. Access doors shall be equipped with stainless steel hinges and quarter turn, adjustable, cam-action latches.

- c. Corner and center posts shall be 16-gage galvanized steel.
- d. Basepans shall be 16-gage galvanized steel. All openings through the basepan shall have upturned flanges at least 0.5 inches in height.
- e. Basepans shall be insulated with 0.375-in. thick closed cell foam insulation.

- f. Compressor rail shall be 12-gage galvanized steel.
- g. Condensate pan shall be 16-gage stainless steel insulated with closed cell neoprene insulation.
- h. Base rail shall be 14-gage galvanized steel.
- i. Fan deck (indoor and outdoor section) shall be 16-gage galvanized steel.
- j. Roof sections shall be sloped for proper drainage.

2. Unit casing shall be capable of withstanding 500-hour salt spray exposure per ASTM B117 (scribed specimen).

3. Unit shall have insulated hinged access doors for easy access to the control box and other areas requiring servicing. Each door shall seal against a rubber gasket to help prevent air and water leakage and be equipped to permit ease and safety during servicing.

4. Interior cabinet surfaces shall be lined with 24 gage galvanized steel.

5. Unit shall have a factory-installed sloped condensate drain connection fabricated of stainless steel.

6. Unit shall be equipped with rigging openings in frame rails to facilitate overhead rigging.

7. Filters shall be accessible through a hinged access panel.

8. Unit shall have vinyl coated security grille to protect the condenser and compressor section.

9. The outdoor air opening shall have a factory-installed hood with bird screen.

###### C. Fans:

###### 1. Indoor Evaporator Fans:

- a. Fans shall be belt driven with single outlet discharge.
- b. Fan shaft bearings shall be of the pillow block type with positive locking collar and are permanently lubricated.
- c. Fans shall be statically and dynamically balanced.
- d. Evaporator fan shaft bearings shall have a minimum L10 life of 30,000 hours.
- e. The fan assembly shall be mounted in rubber vibration isolators.
- f. Fan assembly shall be on a slide-out deck that is removable for maintenance and service.

# Guide specifications (cont)



2. Condenser Fans:
  - a. Fans shall be direct-driven propeller type only, with corrosion-resistant blades riveted to corrosion-resistant steel supports.
  - b. Fans shall discharge air vertically upward and be protected by PVC coated steel wire safety guards.
  - c. Fans shall be statically and dynamically balanced.
- D. Compressors:
  1. Fully hermetic, scroll type compressors with overload protection and short cycle protection with minimum on and off timers.
  2. Factory rubber-in-shear mounted for vibration isolation.
  3. Reverse rotation protection capability.
  4. Crankcase heaters shall only be activated during compressor off mode.
- E. Coils:
  1. Standard evaporator coil shall have enhanced surface aluminum plate fins mechanically bonded to six rows of seamless internally grooved copper tubes with all joints brazed.
  2. Standard condenser coil shall have enhanced surface aluminum plate fins mechanically bonded to seamless internally grooved copper tubes with all joints brazed.
  3. Coils shall be pressure tested at 650 psig prior to unit assembly; leak tested at 150 psig and undergo final testing at 475 psig.
  4. Optional coil coatings for corrosion protection shall be available.
- F. Refrigeration System Components:
  1. Unit shall be equipped with single refrigerant circuit (sizes 07–09) or dual refrigerant circuits (sizes 12–38), with each circuit containing:
    - a. Solid core filter drier.
    - b. Adjustable thermostatic expansion valve.
    - c. Gage connection ports.
  2. 100% outdoor air units shall be equipped with low ambient head pressure control to allow operation down to 35 F.
- G. Filter Section:

Standard filter section shall be supplied with 2-in. thick MERV-8 fiberglass filters.
- H. Controls and Safeties:
  1. Microprocessor Controls:
    - a. Shall include a field-installed space temperature sensor with communication port.
    - b. BACnet and Modbus protocol capable.
    - c. Shall provide a 5 F temperature difference between cooling and heating set points to meet ASHRAE 90.1, energy standard.
    - d. Shall provide an alarm indicator and an audible alarm signal.
- I. Operating Characteristics:
  1. Unit shall be capable of starting and running at 115 F ambient outdoor temperature per maximum load criteria of AHRI Standard 340/360.
  2. Unit with standard controls will operate in cooling down to an outdoor ambient temperature of 35 F.
  3. 62DA,DB,DC,DD units shall be equipped with a motorized two-position outdoor air (OA) damper for 100% OA operation.
  4. 62DE,DF units shall be equipped with a modulating economizer.
  5. Unit shall be provided with fan time delay to prevent cold air delivery (gas heat only).
- J. Electrical Requirements:

All unit power wiring shall enter unit cabinet at a single location.

**K. Motors:**

1. Compressor motors shall be cooled by refrigerant gas passing through motor windings and shall have either internal line break thermal and current overload protection or external current overload modules with compressor temperature sensors.
2. All condenser-fan motors shall be open drip proof with permanently lubricated ball bearings, class F insulation and manual reset overload protection.
3. All indoor-fan motors 5 hp and larger shall meet the minimum efficiency requirements as established by the Energy Independence and Security Act of 2007 (EISA), effective December 20, 2010.
4. All indoor fan motors shall be open drip proof design.

**L. Special Features:**

Not all feature combinations are available. Contact your local Carrier Sales Office.

**1. Hot Gas Reheat:**

A factory-installed hot gas reheat (HGRH) coil shall be available. The HGRH coil shall be available on the lead circuit only or on both refrigerant circuits. Units with HGRH will have variable speed low ambient head pressure control. Cycling or modulating HGRH shall be available.

**2. Energy Recovery:**

- a. The factory-installed enthalpy wheel shall be certified to meet the requirements of AHRI Standard 1060 and shall be AHRI listed.
- b. The enthalpy wheel shall be constructed of corrugated synthetic fibrous media with a desiccant intimately bound and uniformly and permanently dispersed throughout the matrix structure of the media.
- c. The desiccant material shall be molecular sieve, 4 angstrom or smaller.
- d. The rotor shall be constructed of alternating layer of flat and corrugated media.
- e. Wheel construction shall be fluted or formed honeycomb geometry so as to eliminate internal wheel bypass.
- f. The wheel frames shall be evenly spaced steel spokes with a galvanized steel outer band and rigid center hub.
- g. The wheel seals shall be full contact nylon brush type.
- h. The wheel shall slide out of the cabinet side for service.
- i. Wheel cassettes shall be constructed of galvanized steel. Cassettes shall have integral purge section.
- j. The wheel bearings shall be inboard mounted, permanently sealed roller bearings or externally flanged bearings.

k. The wheel shall be driven by a fractional horsepower AC motor via multilink drive belts.

l. Energy wheel defrost control and air bypass shall be available.

**3. Gas Heating:**

- a. Gas heat shall be induced-draft combustion type with energy saving direct spark ignition systems and redundant main gas valves.
- b. The heat exchanger shall be of the tubular section type constructed of a minimum of 20-gage stainless steel.
- c. Burners shall be of the in-shot type constructed of aluminum coated steel.
- d. All gas piping shall enter the unit cabinet at a single location.

**e. Induced-Draft Fans:**

- 1) Shall be direct-driven, single inlet, forward-curved centrifugal type.
- 2) Shall be statically and dynamically balanced.
- 3) Shall be made from steel with a corrosion-resistant finish.
- f. High-corrosion areas such as flue gas collection and exhaust areas shall be lined with corrosion resistant material.
- g. The unit shall have factory-installed gas heat with 2-stage heat control or modulating control providing 25% to 100% burner modulation.

**4. Electric Heat:**

- a. Electric resistance heaters shall be factory-installed, nichrome element type, open wire coils with 0.375 in. inside diameter, insulated with ceramic bushings, and include operating and safety controls. Coil ends shall be staked and welded to terminal screw slots.
- b. Factory-installed electric heat shall have staged heat control (1, 2, 3, or 4 stages) or SCR (silicon controlled rectifier) control providing infinite capacity adjustment.

**5. Hot Water Heat:**

Unit shall have a 2-row hot water coil, aluminum construction, with air vents installed downstream of the evaporator coil. Coil connection stubs will be located inside the unit cabinet. Hydronic control valves shall be field furnished.

**6. Steam Heat:**

Unit shall have 1-row, steam distributing type, aluminum fin coil installed downstream of the evaporator coil. Coil connection stubs will be located inside the unit cabinet. Control valves to be field furnished.

**7. Supply Fan:**

Supply fan of the backward curve, forward curve, airfoil, or backward inclined type shall be factory-installed, mounted on rubber isolation,

# Guide specifications (cont)



- and installed on a slide-out deck that is removable for maintenance and service.
8. Modulating Supply Fan:  
Package shall include a VFD controlled supply fan mounted on rubber vibration isolation and installed on a slide-out deck that is removable for maintenance and service. VFD control shall be based on duct pressure.
9. Liquid Subcooling Coil:  
The shall be equipped with a factory-installed liquid subcooling coil on all circuits.
10. Exhaust Fan:  
Package shall include an exhaust fan mounted on rubber vibration isolation with gravity relief damper. The shaft mounted fan shall be mounted in sealed ball bearings and driven via an adjustable sheave belt drive.
11. Modulating Exhaust Fan:  
Package shall include an exhaust fan mounted on rubber vibration isolation with gravity relief damper. The shaft mounted fan is mounted in sealed ball bearings and driven via an adjustable sheave belt drive. Control shall be based on building pressure.
12. Oversize Fan Motors:  
Oversize fan motors shall be available for both optional supply and exhaust fan motors.
13. Liquefied Propane Conversion Kit:  
Kit shall contain all the necessary hardware and instructions to convert a standard natural gas unit for use with liquefied propane gas.
14. Convenience Outlet:  
Shall be factory-installed and internally mounted with an externally accessible 115-v, 15 amp GFI, female receptacle with hinged cover. The outlet shall require field-supplied 115-v power supply wiring.
15. Fused Disconnect Switch:  
Shall be factory-installed, internally mounted, and UL approved. Fused switch shall provide unit power shutoff. Shall be accessible from outside the unit and shall provide power off lockout capability.
16. Firestat:  
A factory-installed, manual-reset firestat shall be mounted in the return air opening of the unit. The firestat shall be set to open at 135 F.
17. Dirty Filter Status Switch:  
The manual reset filter status switch shall be a pressure differential switch and will indicate a dirty filter. The switch shall be factory installed.
18. Fan Status Switch:  
The unit shall be equipped with a field-adjustable differential air pressure switch installed across the filters or supply fan to provide proof of airflow.
19. Phase/Voltage Monitor:  
A factory-installed under-voltage and phase loss sensor shall stop the unit whenever voltage is too low, phases are out of sequence, or a phase is dropped. The unit will restart automatically within five minutes after the correct power is supplied.
20. Spring Fan Isolation:  
Supply fan and power exhaust fan (if equipped) shall be mounted in spring type isolation with seismic restraints.
21. 4-Inch Filters:  
Optional filter section shall be supplied with 4-in. thick MERV-8, 11, or 14 pleated fiberglass filters.
22. Filter Kits:  
Accessory filter kits shall be available with MERV-8, 11, or 13 type filters.
23. Digital Compressor:  
A digital compressor shall be available. The control system shall be capable of unloading the compressor in an unlimited number of steps from 100% capacity down to 10% capacity.
24. Commissioning User Interface:  
The commissioning keypad/display unit shall have a numeric keypad, direction keys, and programmable function keys. The display shall be a 4 line by 40 character backlit LCD display.
25. Head Pressure Control:  
Condenser fan cycling or variable speed condenser fans shall be available for head pressure control.
26. LonWorks Communicator:  
LonWorks communication shall be available factory installed.
27. CO<sub>2</sub> Sensor:  
CO<sub>2</sub> sensor shall be factory installed and connected to the unit controller.
28. Full Perimeter Roof Curb:  
Curb shall be formed of 14-gage galvanized steel with wood nailing strip and shall be capable of supporting entire unit weight.
29. Minimum Load Valve:  
Unit shall be equipped with factory-installed minimum load valve (hot gas bypass).

## 30. Harsh Environment Coating:

Unit shall be equipped with a factory applied "Harsh Environment Protection" designed to combat the corrosive effects of industrial and commercial atmospheric conditions including: salt air, salt water, acid rain, chlorine and chlorides, hydrochloric, nitric, hydrofluoric, sulfuric and uric acid fumes, hydrogen sulfide gas, lye, sulfur dioxide, methane gas, hydrocarbons, chlorinated solvents and aromatic solvents. The Harsh Environment Protection shall include the following features, where applicable, to provide extra protection against corrosive atmospheric conditions:

- a. Vinyl coated condenser fan guards.
- b. Non-corroding condenser fan motor mounts.
- c. Totally enclosed single-speed three-phase condenser fan motors.
- d. Coated refrigerant to air condenser with corrosion-resistant coil coating composed of aluminum-impregnated polyurethane, rated for 10,000 hr salt spray.
- e. Coated refrigerant to air evaporator with corrosion-resistant coil coating composed of

aluminum-impregnated polyurethane, rated for 10,000 hr salt spray.

- f. Coated refrigerant to air hot gas reheat coil with corrosion-resistant coil coating composed of aluminum-impregnated polyurethane, rated for 10,000 hr salt spray.
- g. Coated refrigerant to air subcooling coil with corrosion-resistant coil coating composed of aluminum-impregnated polyurethane, rated for 10,000 hr salt spray.
- h. All interior (un-insulated) cabinet panels coated with corrosion-resistant cabinet coating composed of polyurethane, rated for 10,000 hr salt spray.
- i. All exterior surfaces of the cabinet coated with corrosion-resistant cabinet coating composed of polyurethane, rated for 10,000 hr salt spray.
- j. All compressors, accumulators, factory-installed receivers, control device covers and refrigerant piping coated with corrosion-resistant cabinet coating composed of polyurethane, rated for 10,000 hr salt spray.

Carrier Corporation • Syracuse, New York 13221

1011

10-11



**Carrier**

A United Technologies Company

**Manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice and without incurring obligations.**

Section 18  
Tab 8d

Pg 64

Catalog No. 04-52620013-01

Printed in U.S.A.

Form 62D-5PD

Replaces: 62D-4PD