REZNOR®

HIGH CAPACITY AIR HANDLER CATALOG

COMMERCIAL/INDUSTRIAL HVAC AIR HANDLERS

CAPACITIES

- 400 - 1,600 MBH Heating
- 130 - 511 MBH Cooling - CW
- 105 - 510 MBH Cooling - DX
- 3,300 - 22,000 CFM Air

INSTALLATION

- Indoor
- Outdoor

FUEL

- Natural Gas
- Propane

Visit www.ReznorHVAC.com for more information.

Form C-AH-0315

BACKGROUND

Reznor was founded in 1888 to manufacture the “Reznor” reflector heater, which used a luminous flame gas burner developed by George Reznor. This technological breakthrough was an immediate success and hastened the expansion of gas heating in residential and commercial applications. Technological development and innovation have been the hallmark of Reznor products through the years. The development of the forced air gas unit heater, the modular Thermocore® heat exchanger, and the high-efficiency, sealed-draft Venturion® unit heater have kept Reznor products at the forefront of technological advances in commercial and industrial gas heating. As a result of this pioneering role in the heating, makeup air, and ventilating equipment field, the products offered today are the most advanced in engineering design to satisfy a wide variety of applications.

FACILITIES

Reznor heaters were first manufactured and sold in Mercer, Pennsylvania (70 miles north of Pittsburgh) in 1888. Over the years, the company has grown and expanded. Today, with sales worldwide, Reznor products are being manufactured in facilities throughout North America and Europe.

PRODUCT SCOPE

Well-equipped engineering laboratories for both product development and testing can be found at many of the manufacturing sites. All domestic lab sites are agency approved.

Reznor Products include a complete line of heating, makeup air and ventilating systems, using gas, oil, hot water/steam, or electric heat sources. Reznor heater catalogs are designed to aid the engineer, architect or contractor in specifying the correct equipment for all standard and special applications. Technical data is presented on unit heaters, duct furnaces, infrared heaters, makeup air systems, pre-engineered custom-designed systems, energy recovery units, packaged cooling, and evaporative cooling modules. Consult your local Reznor Sales Representative for further assistance in specifying Reznor Equipment for your specific application.

SERVICES

Product service requirements are handled through contractors and/or distributors, with backup from local representatives and factory-based service team. Replacement parts inventories for both warranty and non-warranty requirements are maintained at service centers throughout the country and at the manufacturing facilities.

For the Reznor Representative in your area call 800-695-1901 or go to our web site www.ReznorHVAC.com.

REZNOR®

REZNOR®

High Capacity Air Handlers

Model RPBL with Cooling Coil

IMPORTANT: Specifications are subject to change without notice. This guide is intended to provide specifications and technical information only.

This guide is not intended to be an instruction manual. When installing heating and ventilating equipment, you must check and conform to all local and national building codes. Improper installation of heating and ventilating equipment could be dangerous. Consult manufacturer's installation manual for instructions and important warnings.

Contents

Model PXH

Additional Air Handlers can be found in the Split System Catalog (form number C-SS). These include Model PXH (indoor) and Model RXH (outdoor/rooftop). Each unit is capable of delivering up to 7,000 cfm. Both units are available with

- **DX coils**
- **Chilled water coils**
- **Hot water coils**

REZNOR®

MODEL SSCBL

EXTENDED CAPACITY, GAS-FIRED, SEPARATED-COMBUSTION, INDOOR, PACKAGED DUCT FURNACE(S)/BLOWER COMBINATION FOR COMMERCIAL/INDUSTRIAL USE

ANSI Z83.8
AGA14-94

CGA 2.6

DESCRIPTION

Reznor® Model SSCBL is a unified assembly of one, two, or three separated-combustion duct furnaces and a large-capacity Reznor blower cabinet. Sizes are available with heating capacities from 400,000 through 1,200,000 BTUH gas input. The standard packages are heating-only systems, but factory-installed gas and inlet-air control options are available to meet makeup air or combination heating/makeup air specifications. These systems are designed for indoor installation in areas with negative pressure and/or extremely dirty or mildly corrosive atmospheres.

Model SSCBL is available for use with either natural or propane gas, as specified. All units are equipped with required limit and safety controls.

Each of the duct furnaces in these packaged systems are designed to separate combustion air from the air in the heated space. The furnaces are engineered and manufactured in accordance with the ANSI definition of “separate combustion.” While discharging exhaust air, the power venter draws in combustion air from the outside atmosphere. Exclusive outside combustion air prevents dirt, lint, dust or other contaminants in the heated space from entering the combustion zone of the furnace. A specially designed combustion-air inlet/vent terminal assembly is required for each duct furnace in a Model SSCBL packaged system. Each furnace section must have a separate terminal assembly. The specially designed terminal assembly requires only one building penetration per furnace section.

Both the separated-combustion duct furnaces and the packaged system are design-certified by the Canadian Standards Association for installation in the U.S. and Canada.

STANDARD FEATURES

- Orifices for natural gas
- Aluminized steel burners with stainless steel insert
- 208-volt power supply
- 24-volt control transformer
- Redundant single-stage combination gas valve on each furnace (see Note 1)
- Intermittent spark pilot
- Fan and limit safety controls
- Reverse air flow limit
- Fan and limit safety controls
- Pre-wired to terminal blocks
- Power venter
- Twin centrifugal blowers with adjustable belt drive
- Galvalume steel cabinet with interlocking joint construction
- Horizontal discharge air opening with duct flanges
- Curb cap base with hangers for suspension
- Blower cabinet (less optional insulation, filter rack and filters) with horizontal inlet-air opening
- Left side controls (facing air stream)
- 1/2” O.D. BX cable (Chicago code)

NOTE 1: Regulated combination redundant gas valve consists of combination pilot solenoid valve, electric gas valve, pilot filter, pressure regulator, pilot shut-off, and manual shut-off, all in one body. Gas supply pressure must not exceed 0.5 PSI (8 oz. - 14” W.C.). Minimum inlet pressure for natural gas is 5” W.C. Minimum inlet pressure for propane gas is 11” W.C.
NOTE 2: Not certified for residential use.

REZNOR®

MODEL SSCBL (cont'd)

OPTIONAL FEATURES - FACTORY INTALLED

- Unit equipped for propane gas
- E-3 (409) stainless steel heat exchanger
- E-3 (409) stainless steel burners
- E-3 (409) stainless steel drip pan
- Intermittent spark safety pilot with timed lockout
- Individual single-stage gas control on each furnace section
- Two-stage gas control on each furnace section - effective 2 to 6 stage gas control (see Gas Control Option page for more detailed description)
- Electronic modulation 50%-100% turndown or 20%-100% turndown
- Variable frequency drive with open dripproof or totally enclosed motor
- VFD control options
  - ♦ Soft start
  - ♦ Two speed control
  - ♦ DDC signal from remote device
- Makeup air controls/dampers
- 208/1, 230/1, 208/3, 230/3, 460/3, 575/3 supply voltages
- 1 HP through 20 HP open drip-proof or totally enclosed motors available (motors meet EISA specifications for efficiency)
- Burner air shutters (required for units equipped for propane gas)
- Firestat(s)
- Freezestat(s)
- Convenience outlet
- 1/2" O.D. BX cable (Chicago code)
- Motor starter (optional with motors having internal overload protection)
- Blower cabinet insulation
- Filter rack with 2" disposable, pleated or permanent filters
- Double wall cabinet construction
- FM, GAP manifold arrangements
- High ambient burner cutoff
- Gas pressure safety switches
- Air flow proving switch
- Right side controls (facing airstream)
- Cooling coil cabinet with DX or chilled water coil, requires special handling - see cooling coil cabinet section
- Extended heat exchanger(s) warranty; five (5) or ten (10) year

OPTIONAL FEATURES - FIELD INTALLED

- Horizontal or vertical combustion-air inlet/vent terminal assembly (one per furnace section; installation requirement)
- Remote control center
- Disconnect switch - UL Listed
- Single-stage thermostat
- Two-stage thermostat
- Electronic 7-day programmable thermostat
- Cooling coil cabinet with DX or chilled water coil
- Evaporative cooling module (see Evaporative Cooling Catalog)

TECHNICAL DATA

SIZE		400	500	600	700	800	1050	1200
Heating Input	BTUH	400,000	500,000	600,000	700,000	800,000	1,050,000	1,200,000
	(kW)	(117.2)	(146.6)	(175.9)	(205.2)	(234.5)	(307.8)	(351.7)
Thermal Output Capacity [A]	BTUH	320,000	400,000	480,000	560,000	640,000	840,000	960,000
	(kW)	(93.8)	(117.2)	(140.7)	(164.1)	(187.6)	(246.2)	(281.4)
Unit Amps (120V) Less Blower Motor		3.1	3.3	3.3	3.6	4.5	5.0	5.9
Standard Control Amps (24V)		1.67	1.67	1.67	1.67	1.67	1.67	1.67
Air Volume	CFM	3,300-14,000	3,700-12,000	4,450-12,500	5,200-13,500	5,900-13,500	6,500-13,500	7,400-13,500
	(m^3/hr)	(5,607-23,785)	(6,286-20,387)	(7,560-21,237)	(8,835-22,936)	(10,024-22,936)	(11,043-22,936)	(12,572-22,936)
Net Weight [B]	lbs.	849	1,104	1,104	1,184	1,245	1,476	1,565
	(kg)	(385)	(501)	(501)	(537)	(565)	(670)	(710)
Ship Weight [B]	lbs.	1,218	1,588	1,588	1,668	1,898	2,148	2,243
	(kg)	(552)	(720)	(720)	(757)	(861)	(974)	(1017)
Gas Connection—Natural or Propane [C]		1"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"
Maximum Vent Length [D]	6" Pipe	30'	50'	50'	30'	30'	30'	30'
	7" Pipe	70'	70'	70'	70'	70'	70'	70'
Number of Furnace Sections		1	2	2	2	2	3	3

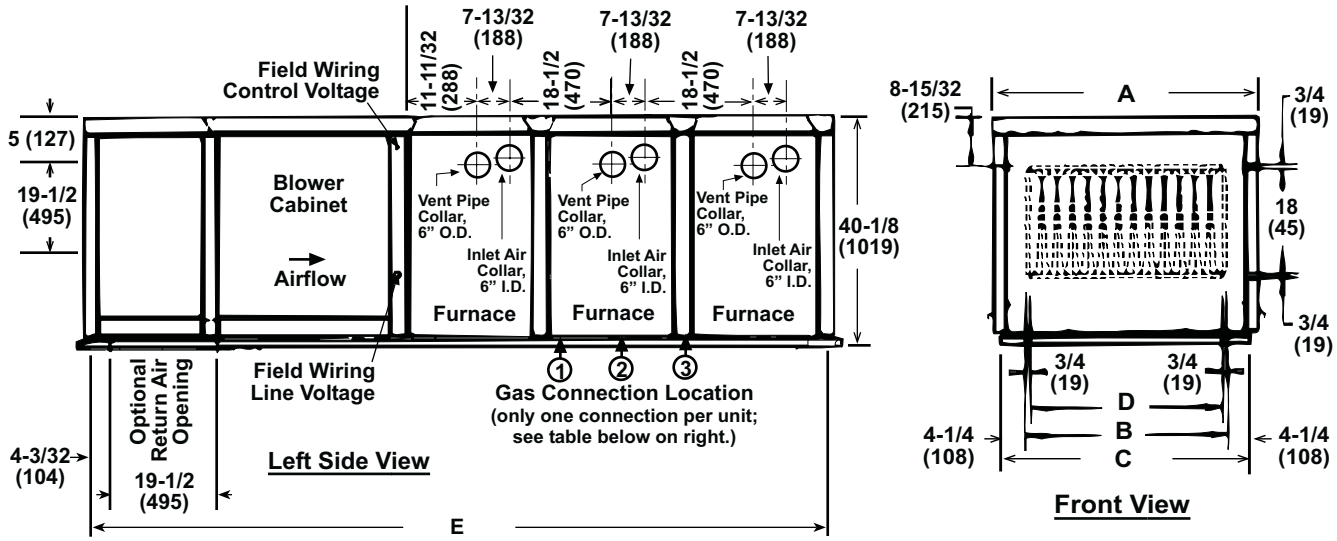
[A] In the U.S. ratings are for altitudes to 2,000 feet. Above 2,000 feet derate by orifice change, 4% for each 1,000 feet above sea level. In Canada ratings for altitudes to 2,000 feet. For high altitude units (2,001-4,500 ft.) derate by 10% of maximum input.
[B] Weights shown are for standard packaged furnace(s) and blower
[C] Sizes shown are for natural gas connections, NOT supply line size.
[D] Minimum vent length is 5 feet. Seven inch pipe requires four field-supplied tapered reducers per furnace section. See Separated Combustion Arrangement Section.

REZNOR®

MODEL SSCBL (cont'd)

DIMENSIONS

+ or - 1/8" (3mm)



SSCBL Size	A		B		C		D		E [A]	
	inches	(mm)	inches	(mm)	inches	(mm)	inches	(mm)	inches	(mm)
400	58 7/8	(1,495)	47 5/8	(1,210)	56 1/8	(1,426)	45 1/2	(1,156)	83 1/2	(2,121)
500, 600	47 7/8	(1,216)	36 5/8	(930)	45 1/8	(1,146)	34 1/2	(876)	109 1/2	(2,781)
700	53 3/8	(1,356)	42 1/8	(1,070)	50 5/8	(1,286)	40	(1,016)	109 1/2	(2,781)
800	58 7/8	(1,495)	47 5/8	(1,210)	56 1/8	(1,426)	45 1/2	(1,156)	109 1/2	(2,781)
1050	53 3/8	(1,356)	42 1/8	(1,070)	50 5/8	(1,286)	40	(1,016)	135 1/2	(3,442)
1200	58 7/8	(1,495)	47 5/8	(1,210)	56 1/8	(1,426)	45 1/2	(1,156)	135 1/2	(3,442)

Air Opening Descriptions & Dimensions	inches	mm
Horizontal Air Inlet	19-1/2xB	495xB
Optional Return Air Opening (bottom)	19-1/2xB	495xB
Horizontal Discharge Air Opening	18xD	457xD

[A] Dimensions E and H listed here do not apply to a system with a field-attached cooling coil cabinet (Option AU2 or AU3); see NOTE in **FIGURE 4**.

Key for FIGURE 2 (Codes A-E):	
A	Width of Cabinet
B	Width of Horizontal Air Inlet Opening; Width of Optional Return Air (Bottom) Opening
C	Width of the Curb Cap
D	Width of Horizontal Discharge Air Opening
E	Overall Length of Inside of Curb Cap

CLEARANCE FROM COMBUSTIBLES

- Furnace Bottom - 6"
- Control Side - 56"
- Top, flue connections, side opposite controls - 6"

APPROXIMATE Gas Connection Locations				
Size	**Location Drawing**	**Approximate Distance from Inside Curb Cap to BLOWER END of System**		
		ft., in.	**M**	
400	(1)	7' 5-6"	2.26-2.29	This connection is at curb cap "height" on the control side of the system.
500, 600, 700, 800	(2)	8' 7-8"	2.62-2.64	
1050, 1200	(3)	9' 2-3"	2.79-2.82	

REZNOR®

MODEL RPBL

EXTENDED CAPACITY, POWER-VENTED, GAS FIRED, OUTDOOR, PACKAGED DUCT FURNACE(S) / BLOWER COMBINATION FOR COMMERCIAL/INDUSTRIAL HEATING AND MAKEUP AIR

ANSI Z83.9 & A.G.A. 14-94

CAN/C.G.A. 2.8 & 2.6

DESCRIPTION

Reznor® Model Series RPBL is factory-designed assembly of one, two, or three duct furnace(s) and a large-capacity blower cabinet and a variety of control options for heating, makeup air or a combination of these functions. Pre-engineered design allows for single unit installation, provides unified appearance, and saves customer engineering time and assembly costs.

Models are available for outdoor use in heating capacities from 400,000 through 1,200,000 BTUH gas input. Model RPBL systems are available for use with either natural or propane gas, as specified. Each unit is equipped with all required limit safety controls.

Controls and wiring are accessible through lift-away side panels.

Model RPBL systems are completely weather sealed. No additional protective covering is required. Each packaged unit is designed for installation on a full roof curb or field supplied supports.

RPBL units feature an integral power vented system for use where environmental conditions pose a problem for gravity-vented units.

STANDARD FEATURES

- Orifices for natural gas
- Aluminized steel heat exchanger (When inlet air temperature is below 40°F or temperature rise is less than 40°F, optional stainless steel heat exchanger is recommended)
- Aluminized steel burners with stainless steel insert
- 208-volt power supply
- 24-volt control transformer
- Redundant single-stage combination gas valve on each furnace (see Note 1)
- Intermittent spark pilot
- Fan and limit safety controls
- Reverse air flow limit
- Twin centrifugal blowers with adjustable belt drive
- Pre-wired to terminal blocks
- Power venter
- Weatherized, galvalume steel cabinet with interlocking joint construction for outdoor mounting
- Horizontal discharge air opening with duct flanges
- Curb cap base
- Horizontal inlet air opening
- Insulated blower cabinet (less optional filter rack and filters)
- Left side access to burner(s) and controls (facing airstream)
- 1/2” O.D. BX cable (Chicago code)

NOTE 1: Regulated combination redundant gas valve consists of combination pilot solenoid valve, electric gas valve, pilot filter, pressure regulator, pilot shut-off, and manual shut-off, all in one body. Gas supply pressure must not exceed 0.5 PSI (8 oz. - 14” W.C.). Minimum inlet pressure for natural gas is 5” W.C. Minimum inlet pressure for propane gas is 11” W.C.
NOTE 2: Not certified for residential use.

REZNOR®

MODEL RPBL (cont'd)

OPTIONAL FEATURES - FACTORY INTALLED

- Unit equipped for propane gas
- E-3 (409) stainless steel heat exchanger
- E-3 (409) stainless steel burners
- E-3 (409) stainless steel drip pan
- Intermittent spark pilot with flame supervision and timed lockout
- Individual single-stage gas control on each furnace section
- Two-stage gas control on each furnace section - effective 2 to 6 stage gas control (see Gas Control Option page for more detailed description)
- Electronic modulation (50-100% turndown) (20-100% turndown, size 400)
- Variable frequency drive with open dripproof or totally enclosed motor
- VFD control options
  - ♦ Soft start
  - ♦ Two speed control
  - ♦ DDC signal from remote device
- Makeup air control/dampers
- 208/1, 230/1, 208/3, 230/3, 460/3, 575/3 alternate supply voltages
- 1 HP through 20 HP open drip-proof or totally enclosed motors available (motors meet EISA specifications for efficiency)
- Burner air shutters (required for units equipped for propane gas)
- Firestat(s)
- Freezestat
- Convenience outlet
- 1/2" O.D. BX cable (Chicago code)
- Motor starter (optional with motors having internal overload protection)
- Filter rack with filters (2" disposable, permanent or pleated)
- Downturn plenum cabinet (insulated)
- Discharge dampers, 2-position, with downturn plenum
- Double wall cabinet construction
- GAP, FM manifold arrangements
- High ambient burner cutoff
- Gas pressure safety switches
- Air flow proving switch
- Right side controls (facing airstream)
- Extended warranty on heat exchanger(s); five (5) or ten (10) years

OPTIONAL FEATURES - FIELD INTALLED

- Full perimeter roof curb
- Cooling coil cabinet with DX or chilled water coil with or without downturn plenum
- Remote control console
- Disconnect switch
- Single-stage thermostat
- Two-stage thermostat
- Electronic 7-day programmable thermostat
- Thermostat guard with locking cover
- 100% outside air hood (requires assembly)
- Evaporative cooling module

TECHNICAL DATA

SIZE		400	500	600	700	800	1050	1200
Heating Input	BTUH	400,000	500,000	600,000	700,000	800,000	1,050,000	1,200,000
	(kW)	(117.2)	(146.6)	(175.9)	(205.2)	(234.5)	(307.8)	(351.7)
Thermal Output Capacity (80%)[A]	BTUH	320,000	400,000	480,000	560,000	640,000	840,000	960,000
	(kW)	(93.8)	(117.2)	(140.7)	(164.1)	(187.6)	(246.2)	(281.4)
Unit Amps (120V) Less Blower Motor		3.1	3.3	3.3	3.6	4.5	5	5.9
Standard Control Amps (24V)		0.95	1.9	1.9	1.9	1.9	2.85	2.85
Air Volume Range	cfm	3,300 - 14,000	3,700 - 12,000	4,450 - 12,500	5,200 - 13,500	5,900 - 13,500	6,500 - 13,500	7,400 - 13,500
	(m^3/hr)	(5,607 - 23,785)	(6,286 - 20,387)	(7,560 - 21,237)	(8,835 - 22,936)	(10,024 - 22,936)	(11,043 - 22,936)	(12,572 - 22,936)
Net Weight[B]	lbs.	849	1,104	1,104	1,184	1,245	1,476	1,565
	(kg)	(385)	(501)	(501)	(537)	(565)	(670)	(710)
Ship Weight[B]	lbs.	1,218	1,588	1,588	1,668	1,898	2,148	2,243
	(kg)	(552)	(720)	(720)	(757)	(861)	(974)	(1,017)
Gas Connection–Natural[C]		1"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"

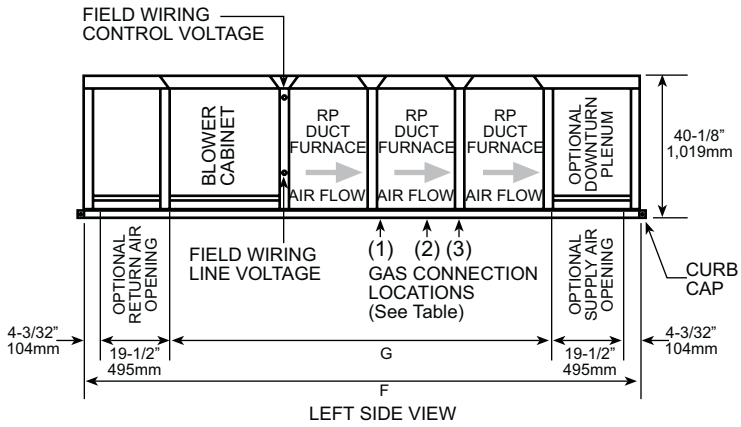
[A] In the U.S. ratings are for altitudes to 2000 feet. Above 2000 feet derate by orifice change, 4% for each 1000 feet above sea level. In Canada ratings are for altitudes to 2000 feet. High altitude units (2001 to 4500 ft.) are derated by 10% of maximum input.
[B] Weights shown are for packaged furnace and blower. For weights of accessories, see below.
[C] Gas connection for optional propane is 1/2" for all sizes. Sizes shown are for gas connection to single stage gas valve, NOT gas supply line size.

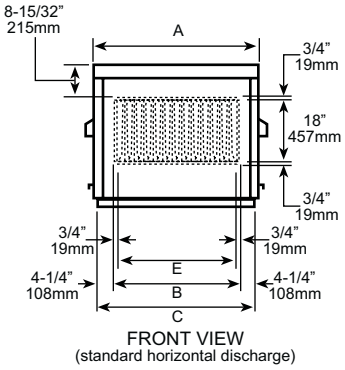
REZNOR®

MODEL RPBL (cont'd)

DIMENSIONS

(+ or - 1/8" or 3mm)





NOTES:

1. Reznor designed optional outside air hood or evaporative cooling module is required to ensure complete weather resistance. See Outside Air Hood Option Section for dimensions.
2. Burner and control access shown left side (facing airstream). Specify right side (Option AJ2) for opposite side access and connections.
3. For overall dimension with Cooling Coil Cabinet with or without downturn plenum, see Cooling Coil Cabinet Section. For complete Curb dimensions, see Roof Curb Option Section.

Key - RPBL Dimensions:	
A =	Width of Cabinet
B =	Width of Optional Downturn Plenum Discharge Air Opening
	Width of Standard Horizontal Air Inlet Opening
	Width of Optional Return Air (Bottom Opening)
C =	Width of Inside of the Curb Cap
E =	Width of Standard Horizontal Discharge Air Opening
F =	Overall Length of Inside of Curb Cap (with or without downturn plenum)
G =	Distance between Optional Return Aair Cabinet Opening and Optional Downturn Plenum Discharge Air Opening

Air Openings	Dimensions
Standard Horizontal Air Inlet	19 1/2" x B (495mm x B)
Optional Return Air Opening	19 1/2" x B (495mm x B)
Standard Horizontal Discharge Air Opening	18" x E (457mm x E)
Optional Discharge Air Opening (w/Downturn Plenum)	19 1/2" x B (495mm x B)

Size		A	B	C	E
500, 600	**in.**	47 7/8	36 5/8	45 1/8	34 1/2
	(mm)	(1,216)	(930)	(1,146)	(876)
700, 1050	**in.**	53 3/8	42 1/8	50 5/8	40
	(mm)	(1,356)	(1,070)	(1,286)	(1,016)
400, 800, 1200	**in.**	58 7/8	47 5/8	56 1/8	45 1/2
	(mm)	(1,495)	(1,210)	(1,426)	(1,156)

SIZE	No. of Furnace Sections		F	G
400	1 (without downturn)	**in.**	83 3/4	--
		(mm)	(2,127)	--
	1 (with optional downturn)	**in.**	107 3/4	60 5/16
		(mm)	(2,737)	(1,532)
500, 600, 700, 800	2 (without downturn)	**in.**	109 3/4	--
		(mm)	(2,788)	--
	2 (with optional downturn)	**in.**	133 3/4	86 5/16
		(mm)	(3,397)	(2,192)
1050, 1200	3 (without downturn)	**in.**	135 3/4	--
		(mm)	(3,448)	--
	3 (with optional downturn)	**in.**	159 3/4	112 5/16
		(mm)	(4,058)	(2,853)

APPROXIMATE Gas Connection Location				
Size	**Drawing Location**	**Approximate Distance from inside Curb Cap on *Blower End* of System**		
400	(1)	**ft., in.**	7' 5-6"	This connection is at curb cap "height" on the control side of the system
		(M)	(2.26-2.29M)	
500, 600, 700, 800	(2)	**ft., in.**	8' 7-8"	
		(M)	(2.62-2.64M)	
1050, 1200	(3)	**ft., in.**	9' 2-3"	
		(M)	(2.79-2.82M)	

CLEARANCE FROM COMBUSTIBLES

1. Furnace bottom - 0". (When installed on a roof curb on a combustible surface, the roof area enclosed within the curb must be either ventilated, left open, or covered with non-combustible material which has an "R" value of at least 5.0).
2. Control Side - 56" (1,422mm).
3. Top Overhangs - 36" (914mm).

	400, 800, 1200	500, 600	700, 1050
1" or 2" Disposable	(2) 16x16, (4) 12x25, (1) 16x25, (4) 12x30	(1) 16x25, (4) 12x20, (1) 16x20, (4) 12x25	(2) 16x25, (4) 12x20, (4) 12x30
1" or 2" Permanent	(2) 16x16, (1) 16x25, (8) 12x16, (4) 12x26	(1) 16x20, (4) 16x25, (4) 12x20, (4) 12x26	(2) 16x25, (8) 12x26
1" or 2" Pleated	(2) 16x16, (1) 16x25, (4) 12x25, (4) 12x32	(1) 16x20, (4) 16x25, (4) 12x20, (4) 12x25	(2) 16x25, (4) 12x20, (4) 12x32

Weights of options shipped installed on the furnace:			400	500, 600	700	800	1050	1200
AQ5	Downturn Plenum Cabinet (wt. Includes additional crate)	**lbs.**	271	229	253	271	253	271
		(kg)	(123)	(104)	(115)	(123)	(115)	(123)
Weights of options shipped separately for field assembly and installation:								
AS2	Outside Air Inlet Hood	**lbs.**	96	87	92	96	92	96
		(kg)	(44)	(39)	(42)	(44)	(42)	(44)
CJ1	Roof Curb for Basic Unit	**lbs.**	150	167	173	179	202	280
		(kg)	(68)	(76)	(78)	(81)	(92)	(127)
CJ2	Roof Curb for Unit with Downturn Plenum Cabinet	**lbs.**	177	193	199	205	228	234
		(kg)	(80)	(88)	(90)	(93)	(103)	(106)

REZNOR®

MODELS RBL
CABINET BLOWER

DESCRIPTION

The Reznor® Model RBL is a packaged air handling unit, consisting of a blower/filter cabinet and twin centrifugal blowers. This unit has been engineered for use with Reznor duct furnaces when design considerations do not permit the use of a Reznor packaged system. The cabinet is weatherized with an integral curb cap base for outdoor installation, but may also be installed indoors. The blower cabinet has a standard horizontal discharge air opening. A bottom discharge air opening is available with the addition of an optional downturn plenum. The blower cabinet has a standard horizontal inlet but is engineered to allow for the standard horizontal and/or an optional bottom air inlet with various optional damper control systems. To obtain the desired CFM, a selection of motor and drive combinations are available.

Optional horsepower/voltage motors are available in open dripproof, totally enclosed, energy efficient and two speed.

The optional filter rack will accommodate either 2” disposable, permanent or pleated filters. Pressure drops for each type of filter are listed on the following pages.

To meet a variety of installation requirements, the Model RBL blower cabinet is available with the addition of downturn plenum and/or an outside air inlet hood or evaporative cooling module. The downturn plenum cabinet is a factory-installed option; the outside air hood and evaporative cooling module are shipped separately for field installation. An optional 16” full roof curb is available for cabinets both with or without a downturn plenum.

STANDARD FEATURES

- Twin centrifugal blowers
- 1 HP, open dripproof motor
- Permanently lubricated ball bearings (1 - 5 HP)
- Pillow block bearings (7-1/2 - 20 HP)
- Adjustable belt drive
- 115-volt supply voltage
- 24-volt, 40 VA control transformer
- Weatherized, aluminized steel construction (Single wall uninsulated)
- Left side controls (facing airstream)
- Horizontal discharge and inlet air openings
- Curb cap base

OPTIONAL FEATURES - FACTORY INTALLED

- 208/3, 230/3, 460/3, 575/3 Volt
- 1 HP through 20 HP open drip-proof or totally enclosed motors available (motors meet EISA specifications for efficiency)
- Motor starter (optional with motors having internal overload protection)
- Variable frequency drive with open dripproof or totally enclosed motor
- VFD control options
  - Soft start
  - Two speed control
  - DDC signal from remote device
- Downturn plenum
- Discharge damper, 2-position, and downturn plenum
- Makeup air controls and dampers
- Outside air hood
- Filter rack with filters (2” disposable, permanent, or pleated)
- Insulated cabinet
- Double wall insulated cabinet
- Convenience outlet
- Right side controls (facing airstream)

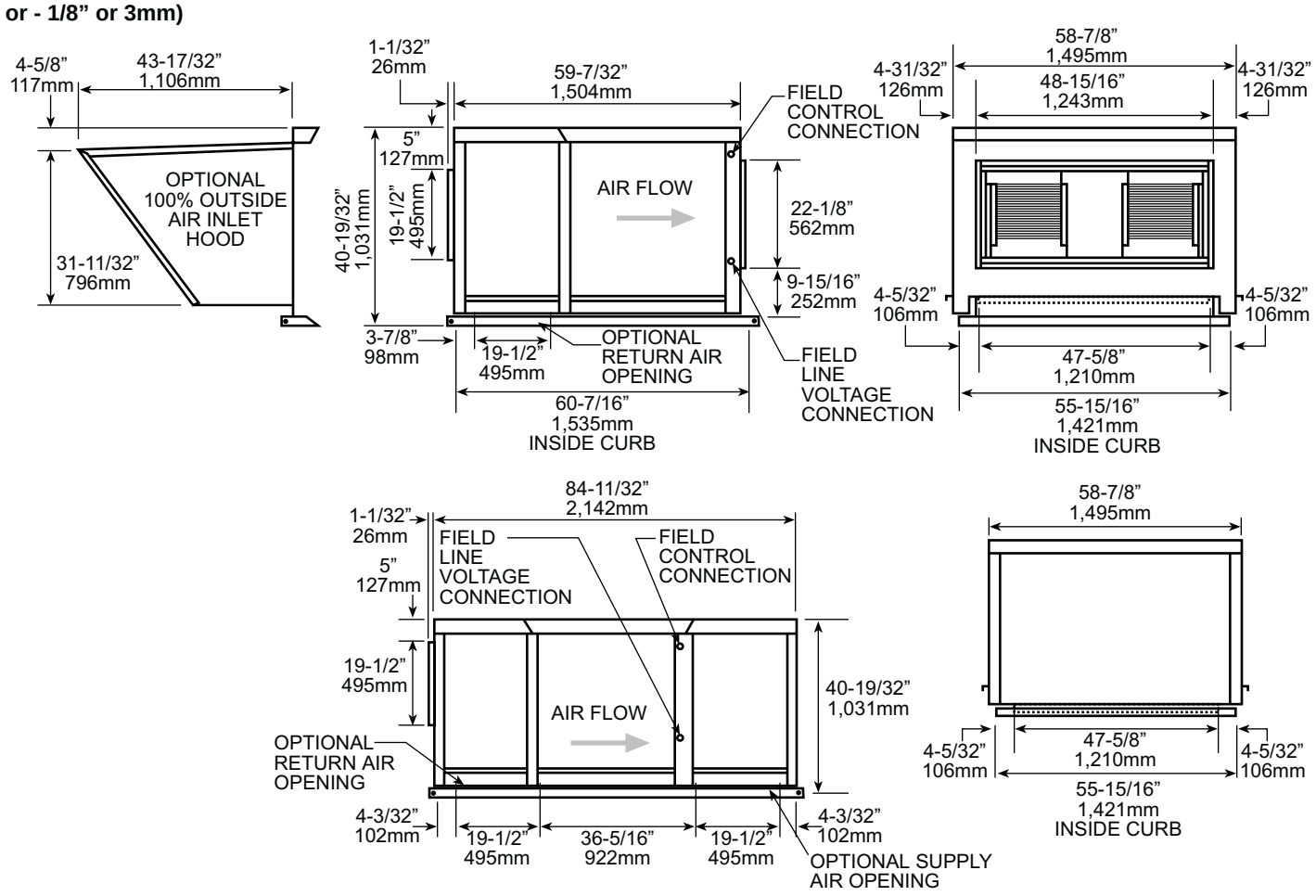
OPTIONAL FEATURES - FIELD INTALLED

- Roof curb
- Evaporative cooling module
- Disconnect switch - UL listed
- Fill and drain kit for evaporative cooling module

REZNOR®

DIMENSIONS

(+ or - 1/8" or 3mm)



FILTER DIMENSIONS

Option	Description	2" Filters
AW7	2" disposable	(4) 12x25, (4) 12x30
AW9	2" permanent	(8) 12x16, (4) 12x26
AW11	2" pleated	(4) 12x25, (4) 12x32

SHIPPING WEIGHTS

Model Option	Description	Ship Weights lbs.	kg
RBL	Blower Cabinet	495	(225)
AQ5	Optional downturn plenum	229	(104)
AS2	Optional 100% outside air inlet hood - shipped separately (requires field assembly)	96	(44)
CJ1	Optional roof curb for blower cabinet without downturn - shipped separately (requires field installation)	120	(54)
CJ2	Optional roof curb for blower cabinet with downturn - shipped separately (requires field installation)	145	(66)

REZNOR®

OPTIONAL FEATURE AVAILABILITY

Option Code and Description

RATING PLATE (Models SSCBL & RPBL only)

STD - U.S. installation
CGA - Canadian Installation

POWER

AK2 - 208/1
AK3 - 230/1
AK5 - 208/3
AK6 - 230/3
AK7 - 460/3
AK8 - 575/3

HEATING OPTIONS (Applies to Models SSCBL & RPBL)

AA1 - Natural gas
AA2 - Propane
AB1-8 - System elevation adjustment
AC1 - Aluminized steel
AC2 - 409 (E-3) stainless steel heat exchanger
AD1 - Aluminized steel burners
AD2 - Stainless steel burner
AE2 - Burner air shutters
AF1 - Aluminized steel burner bottom drip pan
AF2 - Stainless steel burner bottom drip pan
CC1 - Vent cap (Model RPBL only)
CC2 - Concentric adapter vertical vent terminal kit (Model SSCBL only)
CC6 - Concentric adapter horizontal vent terminal kit (Model SSCBL only)
XW2 - Extended five (5) year heat exchanger warranty
XW3 - Extended ten (10) year heat exchanger warranty

HEATING CONTROL & SENSOR OPTIONS (Applies to Models SSCBL & RPBL)

AG1 - Single stage space thermostat gas control
AG2 - Two stage space thermostat gas control
AG3 - Two stage ductstat control
AG4 - Two stage gas control with two stage, unit mounted ductstat
AG5 - Three stage gas control with two stage, unit mounted ductstat
AG7 - Electronic modulation with room thermostat
AG8 - Electronic modulation (2 to 1 turndown ratio)
AG9 - Electronic modulation (2 to 1 turndown ratio) with remote temperature selector
AG10 - Single stage heating gas control with single stage thermostat
AG11 - Two stage gas control with two stage digital thermostat
AG15 - Two stage gas control with electronic ductstat with remote temperature selector
AG17 - Two stage gas control with single stage valve and electronic ductstat with remote temperature selector
AG18 - Two stage gas control with electronic ductstat with remote temperature selector and display module
AG19 - Three stage gas control with electronic ductstat with remote temperature selector
AG20 - Three stage gas control with electronic ductstat with remote temperature selector and display module
AG21 - Electronic modulation (2 to 1 turndown ratio) with signal conditioner and modulating gas regulator
AG39, 41 - Electronic modulation (20%-100% firing rate) with duct probe and remote temperature selector
AG40, 42 - Electronic modulation (20%-100% firing rate) with signal conditioner and modulating gas regulator
AH3 - Intermittent spark pilot with timed lockout
BE4 - Froststat
BM14 - FM manifold
BN2 - High ambient burner cutoff
BP4 - High and low gas pressure safety switches
BW1 - Air flow across heat exchanger proving switch (makeup air only)

BLOWER SYSTEM OPTIONS

AL6-16 - Open dripproof motors, 1 hp thru 20 hp
AL23-35 - Totally enclosed motors 1 hp thru 20 hp
PC12 - Motor base isolation rails
AM_ _ - Motor drive options from 450 to 1650 rpm
AN10 - Motor starter
VFD1-2 - Variable frequency drive
VFCA - VFD control, soft start
VFCB - VFD control, two speed control
VFC2 - VFD control, DDC signal from remote device

AIR INTAKE & DAMPER OPTIONS

AR1 - Horizontal inlet air opening
AR4 - Outdoor cabinet with bottom air inlet openings
AR6 - 30% outside air inlet hood with manual locking damper (Models RPBL & RBL only)
AR7 - 30% outside air inlet hood with motorized locking damper (Model RPBL only)
AR8 - 100% outside air damper with motor on/off
AR15 - Modulating outside and return air mixing dampers with mixing air temperature control
AR17 - Alternating 100% outside or return air with 2 position damper motor
AR18 - Modulating 100% outside and return air mixing dampers with remote manual dial (potentiometer)
AR23 - 100% outside and return air dampers with modulating motor controlled by pressure null switch (Models SSCBL & RPBL only)
AR24 - Both horizontal and bottom inlet air openings
AR25 - Modulating 100% outside and return air mixing dampers with DDC control
AS2 - 100% outside air inlet screen hood with moisture eliminator louvers (Models RPBL & RBL only)

CABINET OPTIONS

AJ1 - Left side control panel (facing air stream) (Models SSCBL & RPBL only)
AJ2 - Right side control panel (facing air stream) (Models SSCBL & RPBL only)
AY2 - Single wall construction with insulation
AY3 - Double wall construction with insulation

FILTER OPTIONS

AW7 - Filter rack with 2" disposable filters
AW9 - Filter rack with 2" permanent filters
AW11 - Filter rack with 2" pleated disposable filters

COOLING OPTIONS (Models SSCBL & RPBL only)

AU2 - Cabinet for chilled water coils (cabinet only, no coils)
AU3 - Cabinet for DX cooling coils (cabinet only, no coils)
AU11 - Cabinet for chilled water cooling coils and downturn plenum (cabinet only, no coils) (Model RPBL only)
AU12 - Cabinet for chilled water cooling coils and downturn plenum with 2 position discharge dampers (cabinet only, no coils) (Model RPBL only)
AU13 - Cabinet for DX cooling coils and downturn plenum (cabinet only, no coils) (Model RPBL only)
AU14 - Cabinet for DX cooling coils and downturn plenum with 2 position discharge dampers (cabinet only, no coils) (Model RPBL only)
AUA1 - Galvanized casing for cooling coil
AUA3 - Stainless steel casing for cooling coil
AUB4 - ElectroFin™ coating for cooling coil
AUC_ - R410A hot gas bypass ports (Model RPBL only)
AUD1 - Single DX coil circuit
AUD2 - Dual DX coil circuit (50-50 split)
AUD3 - 1/3 - 2/3 DX coil split circuit
AUF1 - Copper tubing with aluminum fins coil material
AUF2 - Copper tubing with copper fins coil material
AUT1 - Turbo spiral chilled water coil configuration
LC26-64 - Chilled water cooling coils
LX66-84 - DX cooling coils
T4_ _ - Thermal expansion valves (Model RPBL only)

REZNOR®

OPTIONAL FEATURE AVAILABILITY (cont'd)

Option Code and Description

EVAPORATIVE COOLING OPTIONS (Model RPBL & RBL only)

AS4 - Evaporative cooling module with 12" rigid cellulose media
AS8 - Evaporative cooling module with 12" rigid glass fiber media
ASA1 - Moisture elimination pad
CT_ - Fill and drain kits for various voltage supplies
ECB1 - Water hammer arrestor
ECC1 - Aluminized steel cabinet with stainless steel reservoir
ECC2 - Stainless steel cabinet and reservoir
ECD1 - AquaSaver® timed wetting cycle system

SUPPLY & DISCHARGE AIR OPTIONS (Model RPBL & RBL only)

AQ1 - Horizontal discharge opening
AQ5 - Downturn plenum cabinet
AQ8 - Downturn plenum cabinet with 2 position discharge dampers

OTHER OPTIONS

BC2 - 115V ground fault duplex convenience outlet (Model RPBL only)
BG_ _ - Various relays
CJ_ - Roof curb options (Models RPBL & RBL only)
CN_ _ - Remote switches (in lieu of remote console)
CL_ _ - Thermostats (Models SSCBL & RPBL only)
SA1 - Smoke detector (Models SSCBL & RPBL only)
CP_ _ - Disconnect switches from 30 amp to 100 amp for use in the U.S. or Canada
RC_ _ - Remote consoles (Models SSCBL & RPBL only)

BLOWER DATA

Air Flow Pressure Drops
Applies to Models RBL

ACCESSORY AND EXTERNAL SYSTEM PRESSURE DROP ("W.C.)											
				with Evaporative Cooler						Total Adjusted Pressure Drop	
CFM	with Disposable 2" Filters*	with Permanent Alum. 2" Filters*	with Pleated 2" Filters*	12" Media	Catch Pad	with O/A Hood	with Damper	with Downturn Plenum	External Pressure Drop (Distribution Duct System)	Heating	Cooling
5000	0.04	0.08	0.10	0.06	0.04	0.15	0.02	0.05			
6000	0.06	0.12	0.14	0.08	0.05	0.23	0.02	0.07			
7000	0.08	0.16	0.19	0.10	0.07	0.31	0.03	0.10			
8000	0.10	0.21	0.25	0.14	0.10	0.40	0.04	0.13			
9000	0.13	0.26	0.31	0.18	0.12	0.50	0.06	0.17			
10000	N/A	0.33	0.39	0.22	0.15	0.62	0.07	0.21			
11000	N/A	0.40	0.47	0.26	0.18	0.76	0.08	0.25			
12000	N/A	0.48	0.56	0.30	0.21	0.90	0.10	0.30			
13000	N/A	0.56	N/A	0.36	0.25	1.05	0.12	0.35			
14000	N/A	0.65	N/A	0.42	0.29	1.22	0.14	0.40			

RPM/BHP Data
Applies to Model RBL

Total System Static Pressure	CFM																					
	5,000		6,000		7,000		8,000		9,000		10,000		11,000		12,000		13,000		14,000		15,000	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
.2" w.c.	--	--	550	1.30	620	1.90	700	2.80	770	3.80	850	5.00	940	7.30	1070	9.20	1140	11.50	1230	14.50	1320	17.50
.4" w.c.	570	1.15	610	1.56	700	2.20	750	3.00	810	4.00	890	5.20	970	7.50	1090	9.50	1180	12.00	1250	15.00	1340	18.00
.6" w.c.	650	1.30	700	1.80	740	2.50	800	3.30	870	4.30	940	5.70	1060	8.10	1130	10.00	1220	12.50	1300	16.00	1380	19.50
.8" w.c.	730	1.50	770	2.10	800	2.90	860	3.70	910	4.80	990	6.00	1100	8.50	1180	10.50	1250	13.00	1340	16.50	1410	20.00
1.0" w.c.	775	1.75	800	2.30	840	3.10	900	3.90	940	5.00	1020	6.70	1120	9.00	1200	11.00	1270	14.00	1360	17.00	--	--
1.2" w.c.	835	2.00	840	2.60	890	3.30	930	4.10	980	5.30	1050	7.50	1150	9.20	1220	11.50	1300	14.50	1380	17.50	--	--
1.4" w.c.	900	2.40	900	3.00	940	3.60	980	4.50	1020	5.70	1110	8.00	1190	9.70	1260	12.00	1320	14.90	1400	18.00	--	--
1.6" w.c.	960	2.80	980	3.30	990	3.90	1030	5.00	1070	6.10	1180	8.50	1240	10.40	1300	12.60	1360	15.50	1440	19.00	--	--
1.8" w.c.	1030	3.10	1025	3.70	1040	4.20	1080	5.40	1110	7.30	1210	9.00	1270	11.00	1320	13.20	1390	16.00	1470	19.50	--	--
2.0" w.c.	1060	3.20	1060	3.80	1080	4.70	1100	5.60	1140	7.50	1230	9.50	1290	11.50	1350	14.00	1410	16.50	1500	20.00	--	--
2.2" w.c.	1100	3.40	1100	4.00	1120	4.90	1140	5.90	1210	8.00	1270	9.80	1320	12.00	1370	14.50	1440	17.00	--	--	--	--
2.4" w.c.	1150	3.60	1150	4.20	1160	5.20	1180	6.20	1240	8.20	1290	10.00	1340	12.50	1400	15.00	1470	17.50	--	--	--	--
2.6" w.c.	1190	3.90	1190	4.70	1200	5.50	1220	7.50	1290	9.00	1330	10.40	1380	13.00	1440	15.50	1500	18.10	--	--	--	--
2.8" w.c.	1240	4.40	1230	5.00	1240	6.00	1290	8.00	1330	9.40	1370	11.00	1400	13.50	1470	16.00	1520	19.00	--	--	--	--
3.0" w.c.	1250	4.50	1250	5.20	1260	6.90	1320	8.20	1350	9.60	1390	11.60	1420	14.00	1480	16.50	1560	19.50	--	--	--	--
3.2" w.c.	1270	4.80	1275	5.80	1270	7.20	1380	8.80	1380	10.00	1410	12.00	1460	14.50	1510	17.00	1580	20.00	--	--	--	--
3.5" w.c.	1320	5.30	1340	7.00	1300	7.50	1400	9.10	1430	11.00	1460	12.70	150	15.00	1540	17.50	--	--	--	--	--	--
3.7" w.c.	1350	6.50	1400	7.60	1420	8.00	1430	9.50	1460	11.50	1500	13.50	1530	16.00	1580	18.00	--	--	--	--	--	--
4.0" w.c.	1430	8.10	1450	8.50	1470	8.70	1490	10.00	1500	12.00	1540	14.00	1570	16.50	--	--	--	--	--	--	--	--

REZNOR®

BLOWER DATA (cont'd)
Air Flow Pressure Drops
Applies to Models RPBL & SSCBL

ACCESSORY AND EXTERNAL SYSTEM PRESSURE DROP ("W.C.)														
Size	CFM	Pressure Drop with Disposable Filters [A] 2"	Pressure Drop with Permanent Alum. Filters [A] 2"	Pressure Drop with Pleated Filters [A] 2"	Pressure Drop with Evaporative Cooler 12" Media	Pressure Drop with Evaporative Cooler Moisture Elimination Pad	Pressure Drop with O/A Hood	Pressure Drop with Dampers	Pressure Drop with Downturn Plenum	Pressure Drop with Cooling Coil [B] Dry	Pressure Drop with Cooling Coil [B] Wet	External Pressure Drop (Distribution Duct System)	Total Adjusted Pressure Drop Heating	Total Adjusted Pressure Drop Cooling
400	3,300	0.02	0.03	0.03	0.02	0.013	0.06	0.01	0.02					
	4,000	0.03	0.05	0.06	0.04	0.024	0.10	0.01	0.03					
	5,000	0.04	0.08	0.10	0.06	0.037	0.15	0.02	0.05					
	6,000	0.06	0.12	0.14	0.08	0.053	0.23	0.02	0.07					
	7,000	0.08	0.16	0.19	0.10	0.073	0.31	0.03	0.10					
	8,000	0.10	0.21	0.25	0.14	0.095	0.40	0.04	0.13					
	9,000	0.13	0.26	0.31	0.18	0.120	0.50	0.06	0.17					
	10,000	N/A	0.33	0.39	0.22	0.148	0.62	0.07	0.21					
	11,000	N/A	0.40	0.47	0.26	0.179	0.76	0.08	0.25					
	12,000	N/A	0.48	0.56	0.30	0.213	0.90	0.10	0.30					
	13,000	N/A	0.56	N/A	0.36	0.250	1.05	0.12	0.35					
	14,000	N/A	0.65	N/A	0.42	0.290	1.22	0.14	0.40					
500, 600	3,700	0.04	0.04	0.06	0.02	0.018	0.13	0.01	0.04					
	4,000	0.05	0.06	0.08	0.04	0.024	0.16	0.02	0.06					
	5,000	0.08	0.10	0.12	0.06	0.037	0.25	0.03	0.08					
	6,000	0.12	0.14	0.17	0.08	0.053	0.36	0.04	0.12					
	7,000	0.16	0.20	0.23	0.10	0.073	0.49	0.05	0.16					
	8,000	N/A	0.25	0.31	0.14	0.095	0.64	0.07	0.20					
	9,000	N/A	0.31	0.40	0.18	0.120	0.81	0.09	0.26					
	10,000	N/A	0.39	N/A	0.22	0.148	1.00	0.11	0.32					
	11,000	N/A	0.46	N/A	0.26	0.179	1.21	0.13	0.40					
	12,500	N/A	0.60	N/A	0.34	0.231	1.57	0.14	0.52					
700	5,200	0.06	0.08	0.10	0.06	0.037	0.19	0.02	0.06					
	6,000	0.06	0.10	0.15	0.08	0.053	0.28	0.03	0.10					
	7,000	0.08	0.14	0.20	0.10	0.073	0.38	0.04	0.14					
	8,000	0.10	0.18	0.27	0.14	0.095	0.50	0.05	0.16					
	9,000	N/A	0.24	0.33	0.18	0.120	0.63	0.07	0.22					
	10,000	N/A	0.30	0.41	0.22	0.148	0.77	0.09	0.28					
	11,000	N/A	0.36	N/A	0.26	0.179	0.94	0.10	0.34					
	12,000	N/A	0.42	N/A	0.30	0.213	1.12	0.12	0.40					
	13,000	N/A	0.50	N/A	0.36	0.250	1.31	0.15	0.46					
800	5,900	0.05	0.10	0.12	0.06	0.045	0.20	0.02	0.06					
	6,000	0.06	0.12	0.14	0.08	0.053	0.23	0.02	0.07					
	7,000	0.08	0.16	0.19	0.10	0.073	0.31	0.03	0.10					
	8,000	0.10	0.21	0.25	0.14	0.095	0.40	0.04	0.13					
	9,000	0.13	0.26	0.31	0.18	0.120	0.50	0.06	0.17					
	10,000	N/A	0.33	0.39	0.22	0.148	0.62	0.07	0.21					
	11,000	N/A	0.40	0.47	0.26	0.179	0.76	0.08	0.25					
	12,000	N/A	0.48	0.56	0.30	0.213	0.90	0.10	0.30					
	13,000	N/A	0.56	N/A	0.36	0.250	1.05	0.12	0.35					
1050	6,500	0.06	0.10	0.08	0.08	0.053	0.29	0.03	0.10					
	7,000	0.08	0.14	0.12	0.10	0.073	0.38	0.04	0.14					
	8,000	0.10	0.18	0.16	0.14	0.095	0.50	0.05	0.16					
	9,000	N/A	0.24	0.20	0.18	0.120	0.63	0.07	0.22					
	10,000	N/A	0.30	0.24	0.22	0.148	0.77	0.09	0.28					
	11,000	N/A	0.36	N/A	0.26	0.179	0.94	0.10	0.34					
	12,000	N/A	0.42	N/A	0.30	0.213	1.12	0.12	0.40					
	13,000	N/A	0.50	N/A	0.36	0.250	1.31	0.15	0.46					
1200	7,400	0.08	0.16	0.19	0.10	0.073	0.31	0.03	0.10					
	8,000	0.10	0.21	0.25	0.14	0.095	0.40	0.04	0.13					
	9,000	0.13	0.26	0.31	0.18	0.120	0.50	0.06	0.17					
	10,000	N/A	0.33	0.39	0.22	0.148	0.62	0.07	0.21					
	11,000	N/A	0.40	0.47	0.26	0.179	0.76	0.08	0.25					
	12,000	N/A	0.48	0.56	0.30	0.213	0.90	0.10	0.30					
	13,000	N/A	0.56	N/A	0.36	0.250	1.05	0.12	0.35					

[A] Filter pressure drop is given for clean filters.
[B] See cooling coil product submittals.

REZNOR®

BLOWER DATA (cont'd)

RPM/BHP Chart

Applies to Models RPBL & SSCBL

Size	Rise °F	CFM	Total Adjusted Pressure Drop ("W.C.) - from Air Flow Pressure Drop Table														
			0.2	0.4	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
400	90	3300	420/.4	530/.55	600/.7	720/1.0	760/1.2	810/1.3	880/1.5	940/1.8	1000/2.0	1040/2.2	1090/2.7	1140/2.9	1190/3.1	1260/3.5	1270/3.6
	85	3500	440/.5	550/.65	610/.80	730/1.1	770/1.25	820/1.4	890/1.8	950/1.9	1020/2.3	1050/2.5	1110/2.8	1150/3.0	1200/3.2	1270/3.6	1280/3.75
	74	4000	470/.6	570/.8	640/1.0	740/1.25	780/1.4	830/1.8	900/1.9	970/2.1	1030/2.6	1060/2.7	1120/3.0	1160/3.3	1205/3.6	1280/4.0	1290/4.2
	59	5000	540/1.0	610/1.25	700/1.5	780/1.8	810/2.0	880/2.2	950/2.6	1000/3.0	1060/3.3	1100/3.5	1140/3.8	1180/4.0	1220/4.3	1285/4.7	1300/4.8
	49	6000	600/1.5	690/1.75	740/2.0	820/2.5	860/2.7	900/3.0	970/3.2	1020/3.6	1080/4.0	1110/4.2	1150/4.5	1190/4.7	1230/4.9	1290/5.1	1310/5.5
	42	7000	710/2.3	770/2.7	820/3.0	890/3.5	920/3.7	960/4.0	1000/4.2	1050/4.6	1110/4.8	1140/5.0	1190/5.2	1210/6.0	1260/6.3	1300/7.0	1350/7.5
	37	8000	800/3.3	850/3.8	900/4.1	950/4.5	990/4.7	1020/5.0	1050/5.1	1110/5.6	1150/6.2	1180/7.0	1200/7.2	1250/7.5	1300/8.0	1350/8.2	1370/8.7
	33	9000	880/4.5	910/4.9	970/5.1	1010/6.0	1050/6.3	1080/7.0	1110/7.3	1200/7.8	1240/8.2	1260/8.6	1300/8.9	1320/9.1	1350/9.6	1400/10.0	1420/11.0
	30	10000	960/6.2	1010/7.0	1050/7.5	1120/8.0	1150/8.5	1200/8.8	1210/9.0	1260/9.1	1290/9.9	1310/10.1	1350/10.5	1380/11.0	1410/12.0	1450/12.5	1470/12.7
	27	11000	1100/8.7	1140/9.0	1180/9.5	1210/10.0	1240/10.2	1260/11.0	1300/11.5	1310/12.0	1360/12.5	1380/12.7	1400/13.0	1460/14.0	1480/14.9	1520/15.5	1530/16.0
	25	12000	1200/11.0	1240/11.5	1280/12.5	1300/13.0	1320/13.5	1350/14.0	1380/14.5	1400/14.7	1420/15.0	1450/15.2	1470/16.0	1500/16.5	1530/17.0	1560/17.5	1590/18.0
	23	13000	1300/14.5	1310/14.8	1350/15.2	1380/16.0	1400/16.2	1420/16.5	1450/17.0	1460/17.4	1500/18.0	1510/18.2	1530/19.0	1580/19.5	1600/20.0	—	—
	21	14000	1380/17.5	1410/18.0	1400/19.0	1480/19.5	1500/20.0	—	—	—	—	—	—	—	—	—	—
500	100	3700	560/.8	610/.9	680/1.1	770/1.3	810/1.5	880/1.6	940/1.9	990/2.0	1080/2.5	1110/2.6	1140/2.8	1180/3.0	1220/3.3	1280/4.5	1290/4.9
	93	4000	590/.9	650/1.1	710/1.3	790/1.4	830/1.6	890/1.75	950/2.0	1000/2.2	1090/2.7	1120/2.8	1150/2.9	1190/3.2	1230/3.8	1290/4.9	1300/5.0
	74	5000	650/1.3	710/1.6	790/1.9	860/2.1	890/2.2	930/2.5	990/2.7	1030/3.0	1100/3.5	1130/3.8	1160/4.1	1200/4.5	1240/5.0	1300/5.5	1320/6.0
	62	6000	780/2.2	810/2.5	880/2.7	920/3.0	970/3.2	1000/3.5	1050/3.9	1100/4.2	1140/4.5	1180/4.9	1200/5.1	1250/5.7	1280/6.2	1320/6.6	1350/7.0
	53	7000	880/3.3	910/3.7	980/4.1	1020/4.4	1050/4.8	1100/5.0	1130/5.3	1160/5.6	1210/6.2	1250/6.9	1270/7.0	1300/7.4	1380/7.6	1410/7.9	1450/8.5
	46	8000	1000/5.0	1030/5.1	1070/5.5	1100/6.0	1150/6.2	1170/6.8	1200/7.2	1290/7.7	1320/8.0	1340/8.2	1370/8.6	1400/8.8	1440/9.2	1490/9.6	1510/10.0
	41	9000	1140/7.0	1160/7.2	1200/7.8	1230/8.0	1260/8.5	1290/8.7	1310/9.0	1360/9.5	1400/10.0	1420/10.2	1460/10.6	1480/11.0	1510/11.2	1540/12.0	1580/12.5
	37	10000	1240/9.5	1280/10.0	1310/10.5	1350/11.0	1380/11.5	1400/12.0	1420.12.3	1470/12.7	1510/13.0	1520/13.5	1550/14.0	1580/14.5	1600/15.0	—	—
	34	11000	1360/13.0	1400/13.5	1440/14.0	1470/14.5	1500/15.0	1520/15.1	1520/15.5	1570/16.0	1600/16.5	—	—	—	—	—	—
	31	12000	1480/16.0	1510/17.0	1550/17.5	1580/18.0	1600/18.5	—	—	—	—	—	—	—	—	—	—
600	100	4450	620/1.1	680/1.3	740/1.6	820/1.7	850/1.9	910/2.1	970/2.5	1010/2.7	1090/2.9	1120/3.1	1150/3.5	1190/4.0	1230/4.8	1290/5.2	1310/5.5
	89	5000	650/1.3	710/1.6	790/1.9	860/2.1	890/2.2	930/2.5	990/2.7	1030/3.0	1100/3.5	1130/3.8	1160/4.1	1200/4.5	1240/5.0	1300/5.5	1320/6.0
	74	6000	780/2.2	810/2.5	880/2.7	920/3.0	970/3.2	1000/3.5	1050/3.9	1100/4.2	1140/4.5	1180/4.9	1200/5.1	1250/5.7	1280/6.2	1320/6.6	1250/7.0
	63	7000	880/3.3	910/3.7	980/4.1	1020/4.4	1050/4.8	1100/5.0	1130/5.3	1160/5.6	1210/6.2	1250/6.9	1270/7.0	1300/7.4	1380/7.6	1410/7.9	1450/8.5
	56	8000	1000/5.0	1030/5.1	1070/5.5	1100/6.0	1150/6.2	1170/6.8	1200/7.2	1290/7.7	1320/8.0	1340/8.2	1370/8.6	1400/8.8	1440/9.2	1490/9.6	1510/10.0
	53	9000	1140/7.0	1160/7.2	1200/7.8	1230/8.0	1260/8.5	1290/8.7	1310/9.0	1360/9.5	1400/10.0	1420/10.2	1460/10.6	1480/11.0	1510/11.2	1540/12.0	1580/12.5
	44	10000	1240/9.5	1280/10.0	1310/10.5	1350/11.0	1380/11.5	1400/12.0	1420/12.3	1470/12.7	1500/13.0	1520/13.5	1550/14.0	1580/14.5	1600/15.0	—	—
	40	11000	1360/13.0	1390/13.5	1440/14.0	1470/14.5	1500/15.0	1520/15.1	1520/15.5	1570/16.0	1600/16.5	—	—	—	—	—	—
	39	11500	1420/15.0	1450/15.2	1500/16.0	1530/16.5	1550/17.2	1590/17.5	1600/18.0	—	—	—	—	—	—	—	—
	36	12500	1540/18.0	1560/18.6	1600/19.6	—	—	—	—	—	—	—	–	—	—	—	—

Size	Rise °F	CFM	Total Adjusted Pressure Drop ("W.C.) - from Air Flow Pressure Drop Table														
			0.2	0.4	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
700	100	5200	590/1.3	660/1.4	730/1.6	800/1.8	880/2.2	910/2.5	980/2.8	1040/3.2	1090/3.6	1120/3.8	1160/4.0	1200/4.2	1240/4.5	1290/4.8	1300/4.9
	86	6000	640/1.6	730/1.9	790/2.3	850/2.6	900/3.0	940/3.2	1000/3.7	1060/4.0	1100/4.2	1140/4.4	1180/4.6	1210/4.9	1250/5.2	1300/4.8	1320/6.0
	74	7000	760/2.6	800/3.0	860/3.2	920/3.7	960/4.0	1000/4.2	1050/4.6	1100/4.8	1140/5.0	1160/5.2	1200/5.5	1240/6.1	1280/6.6	1310/7.1	1340/7.3
	65	8000	850/3.7	900/4.0	950/4.5	1000/4.8	1030/5.0	1060/5.5	1100/6.0	1150/6.5	1200/7.0	1240/7.3	1260/7.5	1300/7.9	1340/8.4	1380/9.0	1410/9.3
	58	9000	950/5.0	980/5.3	1030/6.0	1070/6.5	1100/7.0	1130/7.5	1200/8.0	1240/8.3	1280/8.6	1300/9.0	1320/9.5	1360/9.8	1400/10.2	1440/11.0	1460/11.5
	52	10000	1040/7.5	1110/7.8	1150/8.0	1180/8.5	1200/8.7	1230/9.0	1280/9.8	1320/10.0	1350/10.5	1370/11.0	1400/12.0	1420/12.4	1470/12.6	1490/12.8	1500/13.0
	47	11000	1200/8.7	1220/10.0	1250/10.6	1290/11.3	1310/11.8	1330/12.0	1370/12.6	1410/13.0	1450/14.0	1460/14.5	1490/15.0	1500/15.5	1540/15.9	1570/16.4	1600/16.9
	43	12000	1300/12.7	1320/13.0	1360/14.0	1380/14.5	1400/14.9	1430/15.5	1470/16.8	1490/17.0	1540/17.3	1550/18.2	1570/18.5	1600/18.9	—	—	—
	40	13000	1390/16.2	1400/16.5	1440/17.0	1470/17.5	1500/18.0	1520/19.0	—	—	—	—	—	—	—	—	—
	38	13500	1440/17.0	1460/18.0	1490/19.0	1530/20.0	—	—	—	—	—	—	—	—	—	—	—
800	100	5900	650/1.6	730/2.0	800/2.4	860/2.6	900/3.0	940/3.2	1010/3.6	1060/4.0	1110/4.2	1140/4.4	1180/4.6	1210/5.0	1260/5.6	1300/6.0	1330/6.3
	85	7000	770/2.6	800/2.9	890/3.4	930/3.8	960/4.0	1000/4.2	1050/4.5	1100/4.9	1150/5.2	1180/5.9	1210/6.1	1240/6.5	1290/7.0	1310/7.2	1340/7.5
	74	8000	860/3.7	900/4.0	960/4.5	1000/4.8	1030/5.0	1070/5.5	1100/6.0	1150/6.4	1190/6.9	1230/7.1	1280/7.5	1300/8.0	1340/8.7	1390/9.0	1410/9.3
	66	9000	950/5.0	990/5.5	1040/6.0	1080/6.8	1100/7.2	1180/7.6	1200/8.0	1240/8.3	1280/8.6	1300/9.0	1320/9.3	1360/9.9	1400/10.2	1440/11.0	1470/11.5
	59	10000	1100/7.8	1130/8.1	1190/8.8	1220/9.0	1240/9.6	1280/9.8	1300/10.0	1330/11.0	1370/11.4	1380/11.9	1420/12.4	1450/12.6	1480/13.2	1510/13.5	1540/14.4
	54	11000	1210/9.9	1220/10.1	1260/11.0	1300/11.5	1320/12.3	1350/12.5	1380/12.8	1410/14.0	1460/14.4	1490/15.2	1500/15.3	1510/15.5	1550/16.0	1600/17.0	—
	49	12000	1300/12.7	1340/13.0	1360/14.0	1400/14.8	1410/15.0	1450/15.5	1480/16.4	1500/17.0	1530/17.5	1540/17.9	1580/18.2	1600/18.8	—	—	—
	46	13000	1400/16.2	1420/16.5	1450/17.5	1490/17.8	1510/18.2	1540/19.0	1560/19.5	—	—	—	—	—	—	—	—
	44	13500	1440/17.5	1470/18.2	1510/19.5	1530/20.0	—	—	—	—	—	—	—	—	—	—	—
1050	120	6500	710/2.0	770/2.4	820/2.7	900/3.1	930/3.3	980/3.7	1040/4.0	1090/4.3	1150/4.9	1170/4.9	1190/5.0	1230/5.2	1260/5.4	1300/5.9	1340/6.2
	111	7000	770/2.7	810/3.1	870/3.4	940/3.75	960/4.0	1010/4.3	1060/4.7	1120/5.0	1160/5.2	1180/5.5	1210/5.8	1250/6.2	1290/6.9	1320/7.2	1350/7.4
	97	8000	870/3.8	910/4.1	960/4.6	1010/4.9	1040/5.1	1070/5.6	1110/6.1	1160/6.6	1210/7.1	1250/7.4	1270/7.6	1300/8.0	1350/8.5	1400/9.1	1420/9.4
	86	9000	960/5.1	1000/5.5	1040/6.2	1080/7.0	1120/7.5	1190/7.8	1220/8.1	1250/8.5	1290/8.8	1310/9.1	1330/9.6	1380/10.0	1410/10.5	1450/11.1	1470/11.8
	78	10000	1100/7.7	1120/8.0	1160/8.5	1200/8.8	1240/9.0	1260/9.5	1290/10.0	1330/10.5	1360/11.0	1390/11.5	1410/12.1	1440/12.5	1480/13.0	1510/13.6	1530/14.0
	71	11000	1200/9.9	1220/10.1	1260/10.6	1300/11.5	1320/11.5	1340/12.0	1380/12.5	1420/13.2	1460/14.2	1470/14.5	1490/15.0	1510/15.6	1550/16.1	1580/16.5	1660/17.0
	65	12000	1310/12.8	1330/13.1	1370/14.5	1400/14.8	1410/15.0	1440/15.2	1460/15.7	1510/17.1	1550/17.4	1560/17.7	1580/18.6	1610/19.0	—	—	—
	60	13000	1400/16.5	1410/17.0	1460/17.6	1490/18.0	1510/18.5	1540/19.0	1560/19.5	—	—	—	—	—	—	—	—
	58	13500	1450/18.0	1480/18.5	1520/19.0	—	—	—	—	—	—	—	—	—	—	—	—
1200	120	7400	810/3.1	870/3.5	920/3.8	970/4.1	1000/4.6	1050/4.8	1080/5.0	1130/5.2	1180/5.5	1210/6.0	1240/6.4	1280/6.8	1330/7.5	1360/7.8	1400/8.0
	111	8000	870/3.8	910/4.1	960/4.7	1000/4.9	1040/5.2	1080/5.8	1110/6.1	1160/6.5	1200/7.0	1250/7.5	1290/7.7	1310/8.1	1360/8.8	1400/9.1	1420/9.5
	99	9000	960/5.1	1000/5.7	1050/6.4	1080/7.0	1110/7.3	1190/7.8	1210/8.1	1250/8.6	1290/9.0	1310/9.3	1330/9.7	1390/10.0	1410/10.6	1460/11.5	1490/12.0
	89	10000	1110/7.8	1140/8.2	1200/9.0	1230/9.1	1250/9.7	1290/9.9	1310/10.5	1340/11.1	1380/11.5	1390/12.0	1430/12.5	1460/12.7	1490/13.3	1530/14.1	1550/14.5
	81	11000	1220/10.0	1230/10.2	1270/11.1	1310/11.6	1330/12.4	1360/12.5	1390/13.0	1420/14.0	1470/14.5	1480/14.7	1510/15.5	1520/15.6	1560/16.1	1590/17.1	—
	74	12000	1310/12.8	1340/13.1	1370/14.1	1410/15.0	1420/15.4	1470/16.0	1490/16.5	1510/17.1	1550/17.6	1560/18.0	1590/18.6	1610/19.0	—	—	—
	68	13000	1410/16.5	1420/17.0	1460/17.8	1500/18.2	1520/19.0	1550/19.6	—	—	—	—	—	—	—	—	—
	66	13500	1470/18.0	1490/18.5	1520/19.6	1540/20.0	—	—	—	—	—	—	—	—	—	—	—

REZNOR®

SIZING GAS SUPPLY LINES

CAPACITY OF PIPING - NATURAL GAS
Cubic Feet/Meters per Hour Based on 0.3" W.C. Pressure Drop
Specific Gravity for Natural Gas - 0.6 (1,000 BTU/CU Foot)

Length of Pipe			Diameter of Pipe						
			1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"
Ft	20	Ft^3/Hr	92	190	350	730	1100	2100	3300
(M)	(6.1)	(M^3/Hr)	(2.6)	(5.4)	(9.9)	(20.7)	(31.1)	(59.5)	(93.4)
Ft	30	Ft^3/Hr	73	152	285	590	890	1650	2700
(M)	(9.1)	(M^3/Hr)	(2.1)	(4.3)	(8.1)	(16.7)	(25.2)	(46.7)	(76.5)
Ft	40	Ft^3/Hr	63	130	245	500	760	1450	2300
(M)	(12.2)	(M^3/Hr)	(1.8)	(3.7)	(6.9)	(14.2)	(21.5)	(41.1)	(65.1)
Ft	50	Ft^3/Hr	56	115	215	440	670	1270	2000
(M)	(15.2)	(M^3/Hr)	(1.6)	(3.3)	(6.1)	(12.5)	(19.0)	(36.0)	(56.6)
Ft	60	Ft^3/Hr	50	105	195	400	610	1105	1850
(M)	(18.3)	(M^3/Hr)	(1.4)	(3.0)	(5.5)	(11.3)	(17.3)	(31.3)	(52.4)
Ft	70	Ft^3/Hr	46	96	180	370	560	1050	1700
(M)	(21.3)	(M^3/Hr)	(1.3)	(2.7)	(5.1)	(10.5)	(15.9)	(29.7)	(48.1)
Ft	80	Ft^3/Hr	43	90	170	350	530	990	1600
(M)	(24.4)	(M^3/Hr)	(1.2)	(2.5)	(4.8)	(9.9)	(15.0)	(28.0)	(45.3)
Ft	90	Ft^3/Hr	40	84	160	320	490	930	1500
(M)	(27.4)	(M^3/Hr)	(1.1)	(2.4)	(4.5)	(9.1)	(13.9)	(26.3)	(42.5)
Ft	100	Ft^3/Hr	38	79	150	305	460	870	1400
(M)	(30.5)	(M^3/Hr)	(1.1)	(2.2)	(4.2)	(8.6)	(13.0)	(24.6)	(39.6)
Ft	125	Ft^3/Hr	34	72	130	275	410	780	1250
(M)	(38.1)	(M^3/Hr)	(1.0)	(2.0)	(3.7)	(7.8)	(11.6)	(22.1)	(35.4)
Ft	150	Ft^3/Hr	31	64	120	250	380	710	1130
(M)	(45.7)	(M^3/Hr)	(0.9)	(1.8)	(3.4)	(7.1)	(10.8)	(20.1)	(32.0)
Ft	175	Ft^3/Hr	28	59	110	225	350	650	1050
(M)	(53.3)	(M^3/Hr)	(0.8)	(1.7)	(3.1)	(6.4)	(9.9)	(18.4)	(29.7)
Ft	200	Ft^3/Hr	26	55	100	210	320	610	980
(M)	(61.0)	(M^3/Hr)	(0.7)	(1.6)	(2.8)	(5.9)	(9.1)	(17.3)	(27.8)

NOTE: When sizing supply lines, consider possibilities of future expansion and increased heating requirements. Refer to National Fuel Gas Code for additional information on sizing supply line.

CAPACITY OF PIPING - PROPANE
Cubic Feet/Meters per Hour Based on 0.3" W.C. Pressure Drop
Specific Gravity for Propane Gas - 1.6 (2,550 BTU/CU Foot)

Length of Pipe			Diameter of Pipe						
			1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"
Ft	20	Ft^3/Hr	56	116	214	445	671	1281	2013
(M)	(6.1)	(M^3/Hr)	(1.6)	(3.3)	(6.1)	(12.6)	(19.0)	(36.3)	(57.0)
Ft	30	Ft^3/Hr	45	93	174	360	543	1007	1647
(M)	(9.1)	(M^3/Hr)	(1.3)	(2.6)	(4.9)	(10.2)	(15.4)	(28.5)	(46.6)
Ft	40	Ft^3/Hr	38	79	149	305	464	885	1403
(M)	(12.2)	(M^3/Hr)	(1.1)	(2.2)	(4.2)	(8.6)	(13.1)	(25.1)	(39.7)
Ft	50	Ft^3/Hr	34	70	131	268	409	775	1220
(M)	(15.2)	(M^3/Hr)	(1.0)	(2.0)	(3.7)	(7.6)	(11.6)	(21.9)	(34.5)
Ft	60	Ft^3/Hr	31	64	119	244	372	674	1129
(M)	(18.3)	(M^3/Hr)	(0.9)	(1.8)	(3.4)	(6.9)	(10.5)	(19.1)	(32.0)
Ft	70	Ft^3/Hr	28	59	110	226	342	641	1037
(M)	(21.3)	(M^3/Hr)	(0.8)	(1.7)	(3.1)	(6.4)	(9.7)	(18.2)	(29.4)
Ft	80	Ft^3/Hr	26	55	104	214	323	604	976
(M)	(24.4)	(M^3/Hr)	(0.7)	(1.6)	(2.9)	(6.1)	(9.1)	(17.1)	(27.6)
Ft	90	Ft^3/Hr	24	51	98	195	299	567	915
(M)	(27.4)	(M^3/Hr)	(0.7)	(1.4)	(2.8)	(5.5)	(8.5)	(16.1)	(25.9)
Ft	100	Ft^3/Hr	23	48	92	186	281	531	854
(M)	(30.5)	(M^3/Hr)	(0.7)	(1.4)	(2.6)	(5.3)	(8.0)	(15.0)	(24.2)
Ft	125	Ft^3/Hr	21	44	79	168	250	476	763
(M)	(38.1)	(M^3/Hr)	(0.6)	(1.2)	(2.2)	(4.8)	(7.1)	(13.5)	(21.6)
Ft	150	Ft^3/Hr	19	39	73	153	232	433	689
(M)	(45.7)	(M^3/Hr)	(0.5)	(1.1)	(2.1)	(4.3)	(6.6)	(12.3)	(19.5)
Ft	175	Ft^3/Hr	17	36	67	137	214	397	641
(M)	(53.3)	(M^3/Hr)	(0.5)	(1.0)	(1.9)	(3.9)	(6.1)	(11.2)	(18.2)
Ft	200	Ft^3/Hr	16	34	61	128	195	372	598
(M)	(61.0)	(M^3/Hr)	(0.5)	(1.0)	(1.7)	(3.6)	(5.5)	(10.5)	(16.9)

NOTE: When sizing supply lines, consider possibilities of future expansion and increased heating requirements. Refer to National Fuel Gas Code for additional information on sizing supply line.

REZNOR®

Applies to Models RPBL & SSCBL

CONTROL OPTIONS
Heating Control Options

IGNITION CONTROL OPTIONS

STANDARD EQUIPMENT INTERMITTENT **SPARK PILOT:** Automatic lighting of pilot with an electronic spark on a call for heat. Pilot gas flow is shut off between heat cycles. Certified by the Canadian Standards Association for use in Canada with natural gas only. Certified for use in the U.S.A. on outdoor units with natural gas or propane.

OPTION AH3 INTERMITTENT SPARK PILOT WITH LOCKOUT: Automatic lighting of pilot with an electronic spark on a call for heat. Pilot gas flow is shut off between heat cycles. This system also incorporates a lockout device which stops gas flow to the pilot if the pilot fails to light in 120 seconds. The lockout will automatically be reset after one hour, or it can be manually reset by interrupting the thermostat circuit. Approved for use with natural or propane gas.

GAS CONTROL OPTIONS

SPACE HEATING APPLICATIONS

Option AG1 ONE-STAGE CONTROL: Single-stage gas valve which cycles on at 100% fire on a call for heat by a remote single-stage thermostat. Thermostat is not included.

Option AG10 ONE-STAGE CONTROL for units with one, two or three furnace sections: Each furnace is equipped with single-stage gas valve and relay. Each furnace cycles on at 100% fire on call for heat from remote single-stage thermostat. Thermostat is included.

Option AG2 TWO-STAGE CONTROL: Two-stage gas valve which fires at 100% or 50%, as required, on call by a remote two-stage thermostat. Thermostat is not included..

Option AG11 TWO-STAGE HEATING CONTROL for units with one, two or three furnaces: Each furnace is equipped with a two-stage gas valve and relay. Two-stage gas valves fire at 100% or 50% as required, on call from remote two-stage thermostat. Thermostat is included.

Option AG7 ELECTRONIC MODULATION (60°-85°F): Solid state control system, providing close temperature control via manifold pressure. On a call for heat from a remote electronic thermostat, controls modulate between 50% and 100%. Remote thermostat is included.

MAKEUP AIR HEATING APPLICATIONS

Option AG3 TWO-STAGE CONTROL FROM DUCTSTAT (60°-110°F): Two-stage gas valve which fires at 100% or 50% as required, on call from a unit-mounted, two-stage ductstat. For units with two furnace sections, Option AG3 includes a two-stage valve on each furnace and two ductstats which provide for FOUR-STAGE CONTROL. For units with three furnace sections, Option AG3 includes a two-stage valve on each furnace and three ductstats which provide for SIX-STAGE CONTROL*.

Option AG15 ELECTRONIC TWO-STAGE CONTROL USING DUCTSTAT (50°-130°F) WITH REMOTE TEMPERATURE ADJUSTMENT: Same type of control as Option AG3, but the setpoint of the ductstat is adjustable from a remote temperature-selector. Includes factory-installed sensor and field-installed temperature-selector module with an adjustable stage-adder module. For Model RPBL packages with two furnace sections, Option AG15 includes a two-stage valve on each furnace and ductstat which provides for FOUR-STAGE CONTROL. Includes factory-installed sensor and field-installed remote temperature-selector module with three adjustable stage-adder modules. For units with three furnace sections, Option AG15 includes a two-stage valve on each furnace and ductstat which provides for SIX-STAGE CONTROL. Includes factory-installed sensor and field-installed remote temperature-selector module with five adjustable stage-adder modules.*

Option AG4 TWO-STAGE CONTROL FOR UNITS WITH TWO (2) FURNACES: Each furnace is equipped with a single-stage gas valve. The gas valves are staged by a unit-mounted, two-stage ductstat (60°-110°F). The furnace nearest the blower is staged first and the downstream furnace is staged second. Applicable only to packaged systems with two furnace sections.*

APPLICATION NOTE:** ***If the installation of a packaged unit with more than one furnace section requires that any of the controls in this table be used in conjunction with an override thermostat, additional factory-installed relays are required. Since this application is not covered by "normal" control sequence, the additional relays (Option BG2) must be specified.

REZNOR®

MAKEUP AIR HEATING APPLICATIONS (cont'd)

CONTROL OPTIONS (cont'd)

Option AG17 ELECTRONIC TWO-STAGE CONTROL FOR RPBL WITH TWO (2) FURNACE SECTIONS USING A DUCTSTAT (50°-130°F) WITH REMOTE TEMPERATURE ADJUSTMENT: Same type of control as Option AG4, but the ductstat has a remote temperature selector. Includes factory-installed sensor and field-installed remote temperature-selector module with an adjustable stage-adder module.*

Option AG18 ELECTRONIC TWO-STAGE CONTROL FOR UNITS WITH TWO (2) FURNACE SECTIONS USING A DUCTSTAT (50°-130°F) WITH REMOTE TEMPERATURE ADJUSTMENT AND TEMPERATURE DISPLAY: Same as Option AG17, plus a digital (liquid crystal) temperature-display module that provides selectable set point display and continuous display of sensor reading.*

Option AG5 THREE-STAGE CONTROL FOR UNITS WITH THREE (3) FURNACES: Each furnace is equipped with a single-stage gas valve. The gas valves are staged in sequence by two (2) unit-mounted, two-stage ductstats (60°-110°F). The furnace nearest the blower is staged first, the center furnace is staged second, and the downstream furnace is staged last. Applicable only to packaged systems with three furnace sections.*

Option AG19 ELECTRONIC THREE-STAGE CONTROL FOR UNITS WITH THREE (3) FURNACE SECTIONS USING A DUCTSTAT (50°-130°F) WITH REMOTE TEMPERATURE ADJUSTMENT: Same type of control as Option AG5, but the ductstat has a remote temperature selector. Includes factory-installed sensor and field-installed remote temperature-selector module with two adjustable stage-adder modules.*

Option AG20 ELECTRONIC THREE-STAGE CONTROL FOR UNITS WITH THREE (3) FURNACE SECTIONS USING A DUCTSTAT (50°-130°F) WITH REMOTE TEMPERATURE ADJUSTMENT AND TEMPERATURE DISPLAY: Same as Option AG19, plus a digital (liquid crystal) temperature-display module that provides selectable set point and continuous display of sensor reading.*

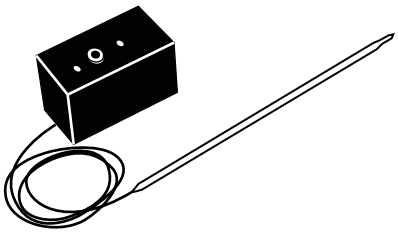
Options AG15, AG17, AG18, AG19, AG20

A = Ductstat Temperature Module P/N 115848

B = Stage Adder Module, P/N 115849 (quantity varies - see Option description)

C = Digital Temperature Display Module, P/N 115852 (Options AG18 and AG20 only)

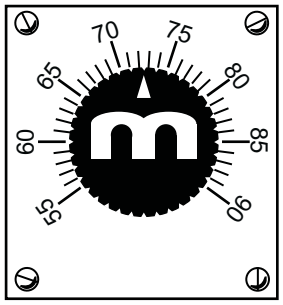
Options AG3, AG4, AG5



Unit-Mounted Ductstat P/N 41700 (quantity varies - see Option description)

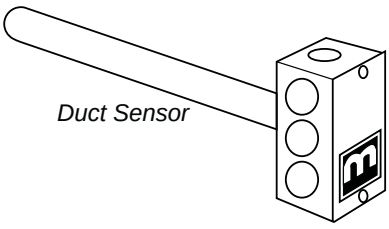
Option AG8 ELECTRONIC MODULATION (55°-90°F) WITH DUCTSTAT: Solid state control system, providing close temperature control through regulated manifold pressure. On a call for heat from a unit-mounted ductstat, controls modulate between 50% and 100%, as required. Units with two or three furnace sections include an outside air controller. When setpoint temperature is reached, one or two furnaces will be shut down providing 25% minimum system firing rate with two furnaces and 16-2/3% minimum with three furnaces. A room override thermostat (Option CL9) is available for use with this system. Temperature range 55° - 90°F.

Option AG9 ELECTRONIC MODULATION (55°-90°F) WITH DUCTSTAT AND REMOTE TEMPERATURE SELECTION: Control is the same as Option AG8 except that the duct sensor setpoint may be reset from a remote selector. Units with two or three furnace sections include an outside air controller. When setpoint temperature is reached, one or two furnaces will be shut down providing 25% minimum system firing rate with two furnaces and 16-2/3% minimum with three furnaces. Remote temperature selector is included. A room override thermostat (Option CL9) is available for use with this system. (See illustration)



Maxitrol Signal Selector (AG9 Only)

AG21 ELECTRONIC MODULATION WITH DDC CONTROL: Used with customer-supplied 4-20MA or 0-10V input signal. Includes Maxitrol A200/SC10C-B6S1 signal conditioner and special modulating gas regulator.



Duct Sensor

APPLICATION NOTE:** ***If the installation of a packaged unit with more than one furnace section requires that any of the controls in this table be used in conjunction with an override thermostat, additional factory-installed relays are required. Since this application is not covered by "normal" control sequence, the additional relays (Option BG2) must be specified.

MINIMUM QUANTITY OF RELAYS (Option BG2) REQUIRED WHEN:	**Models**	**Size**	**AG3**	**AG4**	**AG5**	**AG15**	**AG17, AG18**	**AG19 AG20**
· Pkg Model w/2 or 3 furnaces · with AG Option Listed (right) · plus Overide Thermostat	RPBL	**500, 600, 700, 800**	4	2	N/A	4	2	N/A
	RPBL	**1050, 1200**	6	N/A	3	6	N/A	3

REZNOR®

MAKEUP AIR HEATING APPLICATIONS (cont'd)

CONTROL OPTIONS (cont'd)

Option AG39 ELECTRONIC MODULATION (SEE FIRING RATE TURNDOWN PERCENT IN TABLE BELOW): **(Available with natural gas only on Models /RPBL &SSCBL Size 400)**

Description

- Reznor ® Option AG39 is an electronic modulation gas control that will provide precise control of discharge air temperature over an increased range of outside air conditions. It is now available on selected Models of Reznor gas furnaces.
- This option allows the furnace input ratio to be fully modulated between 100% and 28 to 20%.
- The part-load thermal efficiency of this system complies with and exceeds the current seventy-five percent minimum requirement of ASHRAE standard 90.1 for part-load efficiencies. This system offers an average thermal efficiency over the range of modulation that is equal to or exceeds the full input rate thermal efficiency.
- Furnaces with Option AG39 require stainless steel burners, a stainless steel heat exchanger, and a stainless steel bottom pan. The gas train includes a single-stage gas valve, a modulating valve, and two gas pressure switches. The burner rack is equipped with one flash carry-over and a regulated gas lighter tube system. The carry-over lighter tube receives its gas supply through the regulator, simultaneously with the gas to the burner. Control of the system is through a Maxitrol #A1092 amplifier with a corresponding remote temperature dial (Maxitrol® #TD92-0509).

Sensor Location

- The duct temperature sensor is factory installed in the cabinet leg. Although the sensor has a mixing tube, at this distance from the discharge it does not receive a true mix, so the temperature read by the sensor will be slightly higher than the actual air entering the ductwork. The system will provide comfort level heat if the selector is set slightly lower to compensate for this reading. The offset temperature will vary with the application. If a direct correlation of these two temperatures is required, move the duct sensor to a location in the ductwork about 10-12 feet from the furnace discharge.

Sample Specification

- The unit shall have electronic modulation offering at least full modulation to 28% of full fire (capacity) input rate.
- Modulating gas control shall be certified by CSA for use in The United States and Canada.
- The furnace shall maintain an average thermal efficiency over the range of modulation that is equal to or exceeds the full input rate thermal efficiency.
- The furnace shall ignite at any fire rate within its modulation range, not just high fire on start.

Option AG40 ELECTRONIC MODULATION (SEE FIRING RATE TURNDOWN PERCENT IN TABLE BELOW) WITH DDC CONTROL: Same system as AG39 but includes signal conditioner for use with customer-supplied 4-20MA or 0-10V input signal. **(Available with natural gas only on Model RPBL & SSCBL Size 400)**

Option AG41 ELECTRONIC MODULATION (SEE FIRING RATE TURNDOWN PERCENT IN TABLE BELOW) FOR RPBL UNITS WITH TWO (2) OR THREE (3) FURNACES: Same system as AG39 (electronic modulation gas control on the first furnace) with a two-stage with outside air temperature control on the other(s). **(Available on Models SSCBL & RPBL sizes 500 - 1200)**

Option AG42 ELECTRONIC MODULATION (SEE FIRING RATE TURNDOWN PERCENT IN TABLE BELOW) WITH DDC CONTROL FOR RPBL UNITS WITH TWO (2) OR THREE (3) FURNACES: Same system as AG40 (electronic modulation gas control on the first furnace with signal conditioner for use with customer-supplied 4-20MA or 0-10V input signal) with a two-stage with outside air temperature control on the other(s). **(Available on Models SSCBL & RPBL sizes 500 - 1200)**

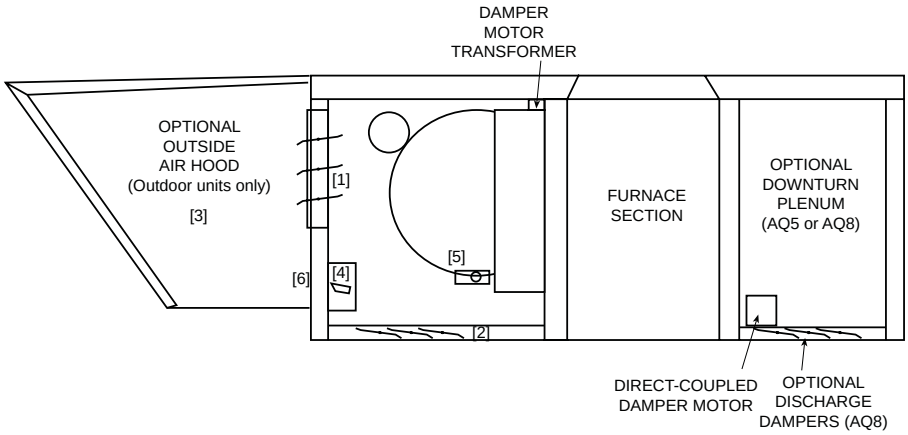
Options AG39, 40, 41 and 42 are available on:		Maximum Trundown Percent	Input Range		Gas Supply Pressure Required	
Model	Size		MBH	kW		
RPBL/SSCBL	400	25%	100 - 400	29.3 - 117.2	6" w.c.	14.9 mbar
RPBL/SSCBL	500	14%	70 - 500	20.5 - 146.5	5" w.c.	12.5mbar
RPBL/SSCBL	600	11.5%	69 - 600	20.2 - 175.9	5" w.c.	12.5mbar
RPBL/SSCBL	800	12.5%	100 - 800	29.3 - 234.5	6" w.c.	14.9 mbar
RPBL/SSCBL	1200	8.3%	100 - 1200	29.3 - 351.7	6" w.c.	14.9 mbar

APPLICATION NOTE:** ***If the installation of a packaged unit with more than one furnace section requires that any of the controls in this table be used in conjunction with an override thermostat, additional factory-installed relays are required. Since this application is not covered by "normal" control sequence, the additional relays (Option BG2) must be specified.

REZNOR®

CONTROL OPTIONS (cont'd)

INLET AIR CONTROL SYSTEMS



Option	[1] Horiz. Inlet Air Opening	[1] 30% Horiz. O/A Opening	[1] ...with 100% O/A Dampers	[1] ...with O/A Damper	[1] ...with Duct Flanges and Insulation	[2] Bottom Inlet Air Opening	[2] ...with R/A Damper	[2] ...with Duct Flanges and Insulation	[3] 30% O/A Hood	[4] Damper Motor	[4] 2 Pos. Damper Motor	[4] Modulating Damper Motor	[4] Modulating Damper Motor with DDC	[5] Mixed Air Controller	[5] Potentiometer	[5] Warm-up Control	[6] Optional O/A Changeover	[7] Remote Potentiometer	[7] Remote Pressure Null Switch
STD	X																		
AR4						X													
AR6 [A]		X		X		X			X										
AR7 [A]		X		X		X			X	X									
AR8			X								X								
AR15				X			X					X		X	X	X	X		
AR17				X			X				X								
AR18 [B]				X			X					X						X	
AR23 [C]				X			X					X							X
AR24					X			X											
AR25				X			X						X						

[A] Outdoor units only.
[B] Includes remote potentiometer - not shown.
[C] Includes remote pressure null switch - not shown.

Standard Control - Outside Horizontal Air Inlet

Option AR4 - Bottom Return Air Inlet, 100% Return Air Inlet only - Designed for 100% recirculated heating system. **OUTDOOR UNITS ONLY.**

Option AR6 - 30% Outside Horizontal Air Inlet, Bottom Return Air Inlet, 30% Outside Air Hood, Outside Air Dampers: 100% Return Air Inlet, 30% Outside Air Inlet with Hood (see Outside Air Hood section) and Manual Outside Air Damper - Supplies constant 30% or less outside air to recirculating heating system. Outside air hood is shipped separately for field installation. **OUTDOOR UNITS ONLY.**

Option AR7 - 30% Outside Horizontal Air Inlet, Bottom Return Air Inlet, 30% Outside Air Hood, Outside Air Dampers, Damper Motor: 100% Return Air Inlet, 30% Outside Air Inlet with Hood (see Outside Air Hood section) and Motorized Outside Air Damper - Supplies 30% outside air to a recirculating heating system at specific times, as controlled by a time clock or switch. On shutdown, the outside air damper closes. Outside air hood is shipped separately for field installation.

Option AR8 - Outside Horizontal Air Inlet, Outside Air Dampers, Damper Motor (2-Position): 100% Outside Air Inlet, with Two-Position (open/closed) Motorized Damper - 100% outside air system which provides makeup air intermittently, usually in unison with a building exhauster. Outside air damper opens when unit is on; closes when units is off.

REZNOR®

CONTROL OPTIONS (cont'd)

INLET AIR CONTROL SYSTEMS (cont'd)

Option AR15 - Outside Horizontal Air Inlet, Bottom Return Air Inlet, Outside Air Dampers, Damper Motor (Modulating), Return Air Dampers, Mixed Air Controller, Potentiometer, Warm Up Control : 100% Outside Air and 100% Return Air Inlets with Dampers, Modulating Damper Motor, Potentiometer, Mixed Air Controller and Warm-up Control (ASHRAE Cycle II) - 100% return air on warm-up and automatically controlled mix of outside/return air to meet the temperature setting of the mixed air controller after warm-up. A minimum amount of outside air is allowed after warm-up as determined by the potentiometer setting. When used with mechanical cooling, optional air change over control may be added. An outside air change over control (not included in Option AR15 package) closes outside air dampers when the entering air reaches a set temperature (Usually 75 degrees F).

Option AR17 - Outside Horizontal Air Inlet, Bottom Return Air Inlet, Outside Air Dampers, Damper Motor (2-Position), Return Air Dampers: 100% Outside Air and 100% Return Air Inlets with Dampers and a Two-Position Damper Motor - 100% return air or 100% outside air as controlled by a switch or time clock. ON shutdown, the outside air damper closes.

Option AR18 - Outside Horizontal Air Inlet, Bottom Return Air Inlet, Outside Air Dampers, Damper Motor (Modulating), Return Air Dampers, Remote Potentiometer: 100% Outside Air and 100% Return Air Inlets with Dampers, a Modulating Damper Motor and Potentiometer - Mixture of return and outside air as controlled by a manually set remote potentiometer. On shutdown, the outside air damper closes.

Option AR23 - Outside Horizontal Air Inlet, Bottom Return Air Inlet, Outside Air Dampers, Damper Motor (Modulating), Return Air Dampers, Remote Pressure Null Switch: 100% Outside Air and 100% Return Inlets with Dampers, a Modulating Damper Motor and Pressure Null Switch - Mixture of return and outside air as automatically controlled by a remote pressure null switch. On shutdown, the outside air damper closes.

Option AR24 - Outside Horizontal Air Inlet, Bottom Return Air Inlet: 100% Outside Air and 100% Return Air Inlets, without Factory-Supplied Dampers - Designed for installation of field supplied damper system.

Option AR25 - Outside Horizontal Air Inlet, Bottom Return Air Inlet ,Outside Air Dampers, Damper Motor with DDC, Return Air Dampers: Includes outside air damper and return air damper linked together with a modulating damper motor with an interface module to accept a 0 - 10 volt, or 4 - 20 mA signal from a D.D.C. system, to position the dampers for mixed air. Standard Discharge - Installation that requires connection to horizontal ductwork before turning downward or where immediate downturn ductwork with horizontal connection is field supplied.

- 3/4" Duct Flange designed for "U" channel top/bottom ductwork connection and "L" type on each side

DISCHARGE AIR OPTIONS

	Horiz. Discharge Air Opening w/ Duct Flanges	Downturn Plenum for Vertical Discharge Air	Vertical Discharge Air Opening w/ Duct Flanges	2-Position Dampers
STD	X			
AQ5		X	X	
AQ8		X	X	X

Option AQ5 - Installation where vertical ductwork is attached and sealed directly to the duct flange on the bottom of the downturn plenum cabinet.

- Downturn Plenum Cabinet
- 1" Duct Flange for slip-type connection (flange is perpendicular to the cabinet)

Option AQ8 - Installation where vertical ductwork is attached and sealed directly to the duct flange on the bottom of the downturn plenum cabinet. The two-position (open/close) dampers in the discharge opening are designed to isolate the unit from the building atmosphere when the system is not operating. The damper motor is located inside the downturn plenum cabinet.

- Downturn Plenum Cabinet
- Two-Position Dampers
- Direct-Coupled Motor (rated for use in discharge airstream)
- 1" Duct Flange for slip-type connection (flange is perpendicular to the cabinet)

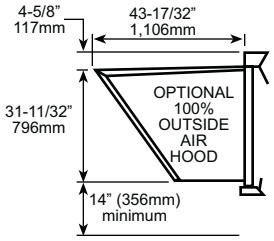
REZNOR®

OUTSIDE AIR HOOD OPTION

Screened Outside Air Hood for 100% Outside Air Inlet Opening

DESCRIPTION

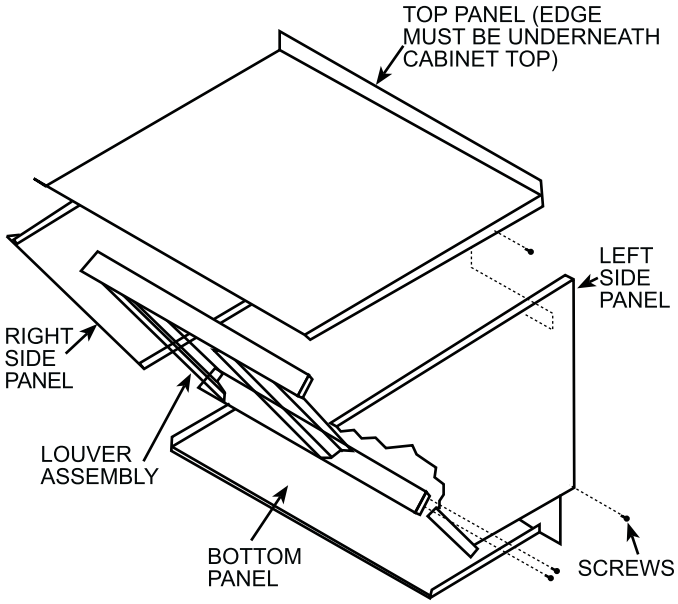
Option AS2, Outside Air Hood, is a weatherized screened hood designed to be field assembled and installed around the horizontal inlet air opening of a Model RPBL or RBL. The air hood includes a pre-assembled louver assembly designed to help eliminate moisture from the inlet air.



Cabinet Blowers	Models	Size	Width of Outside Air Hood	
			in.	mm
- -	RPBL	500, 600,	47 7/8	1,216
- -	RPBL	700, 1050	53 3/8	1,356
RBL	RPBL	400, 800, 1200, 1600	58 7/8	1,495

Note: The width of the outside air hood is the same as the width of the blower cabinet.

MODEL	SIZE	400	500, 600	700, 1050	800, 1200
RPBL	lbs.	96	87	92	96
	(kg)	(44)	(39)	(42)	(44)
RBL	lbs.	96	--	--	--
	(kg)	(44)			

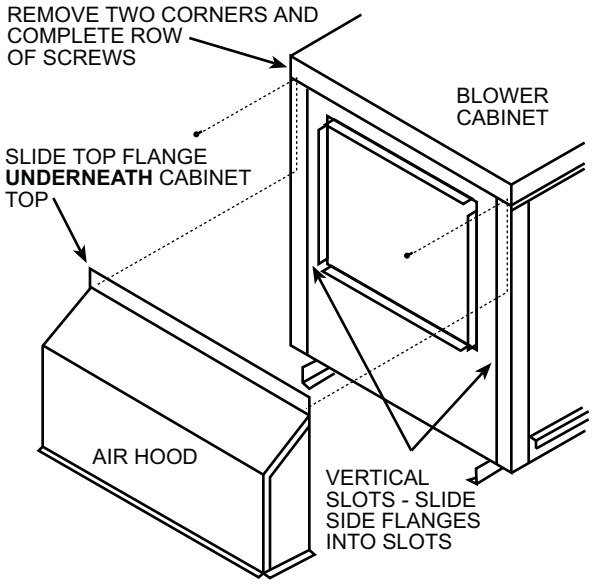


30% OUTSIDE AIR HOOD SUPPLIED WITH INLET AIR OPTIONS AR6 AND AR7 (see description in Air Control Option section)

DESCRIPTION

The outside air hood included in the air inlet options that provide 30% outside air (Options AR6 and AR7) is shipped separately for field installation. The hood is factory assembled but requires field attachment to the blower cabinet. Illustrated instructions are provided.

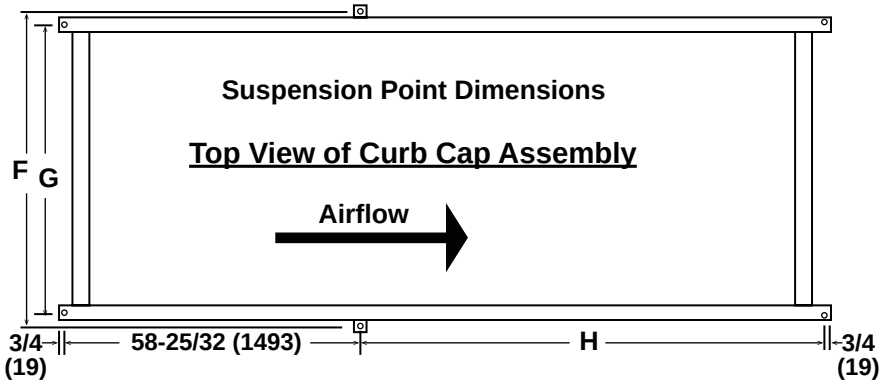
	RPBL		Width of 30% Hood
--	400	in.	58 7/8
		(mm)	(1,495)
--	500, 600	in.	47 7/8
		(mm)	(1,216)
--	700, 1050	in.	53 3/8
		(mm)	(1,356)
RBL	800, 1200	in.	58 7/8
		(mm)	(1,495)



REZNOR®

MOUNTING OPTIONS

Suspension Points (Model SSCBL)



SSCBL Size	Suspension Dimensions					
	F		G		H [A]	
	inches	(mm)	inches	(mm)	inches	(mm)
400	59 9/16	(1,513)	54 3/8	(1,381)	27 3/32	(688)
500, 600	48 9/16	(1,233)	43 3/8	(1,102)	53 3/32	(1,349)
700	54 1/16	(1,373)	48 7/8	(1,241)	53 3/32	(1,349)
800	59 9/16	(1,513)	54 3/8	(1,381)	53 3/32	(1,349)
1050	54 1/16	(1,373)	48 7/8	(1,241)	79 3/32	(2,009)
1200	59 9/16	(1,513)	54 3/8	(1,381)	79 3/32	(2,009)

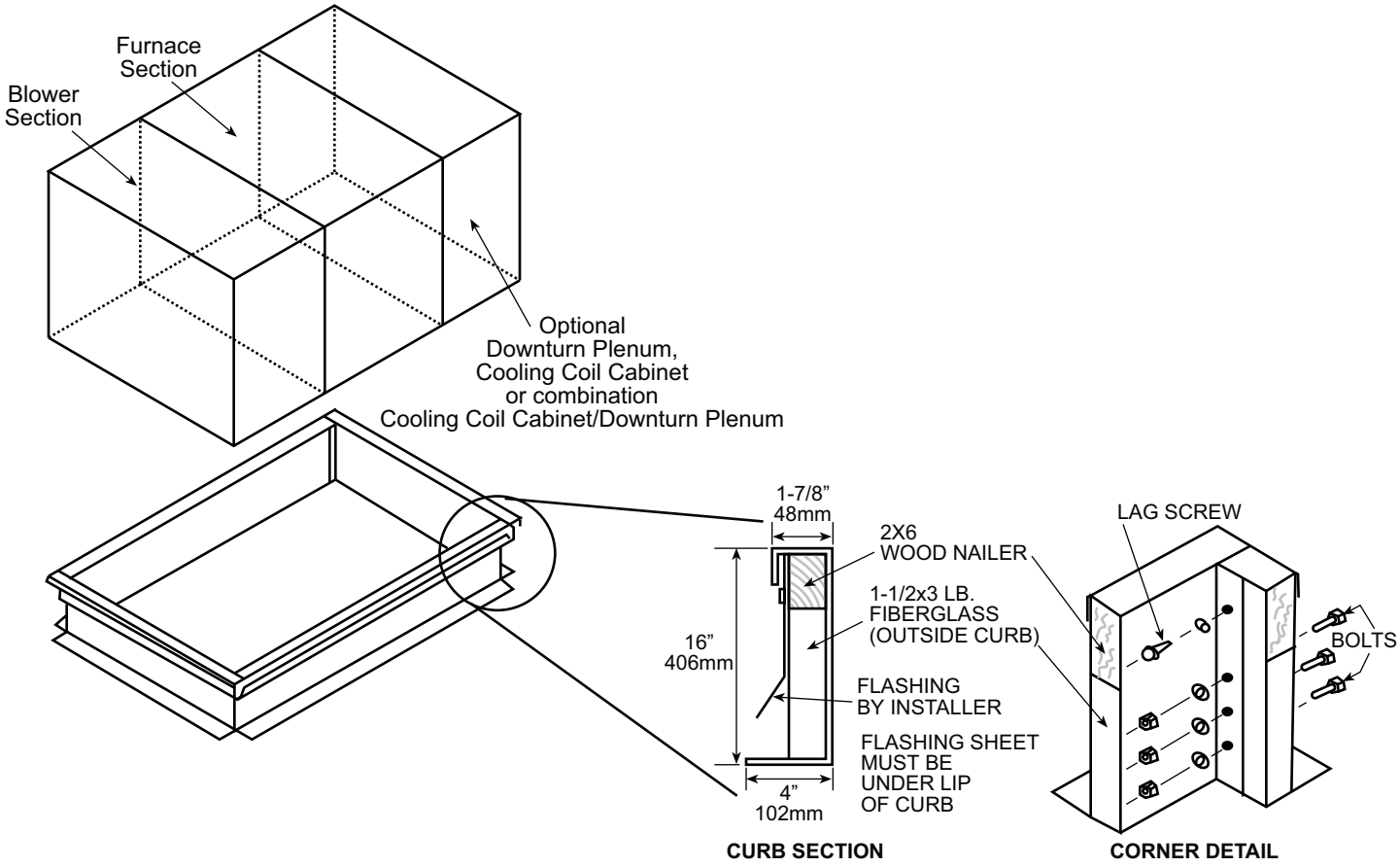
[A] Dimensions E and H listed here do not apply to a system with a field-attached cooling coil cabinet (Option AU2 or AU3); see NOTE in **FIGURE 4**.

REZNOR®

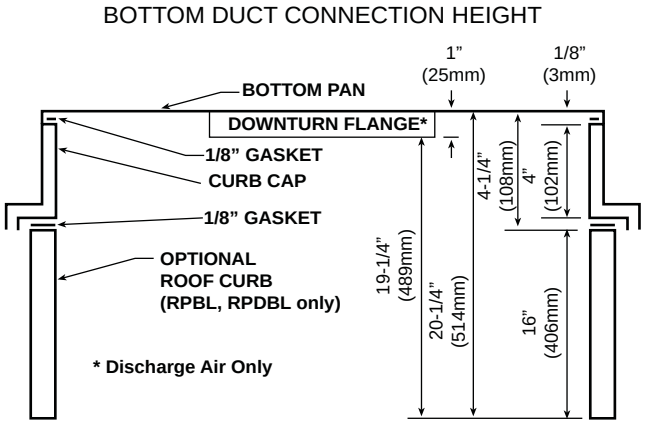
MOUNTING OPTIONS (cont'd)

Curb Dimensions (Model RPBL & RBL)

Reznor optional roof curbs are available in sizes to fit all Reznor packaged heating/makeup air systems. Roof curbs are shipped in pre-assembled sections constructed of 16 gauge aluminized steel, 2x6 wood nailers and 3# fiberglass insulation. Field assembly and installation are required.



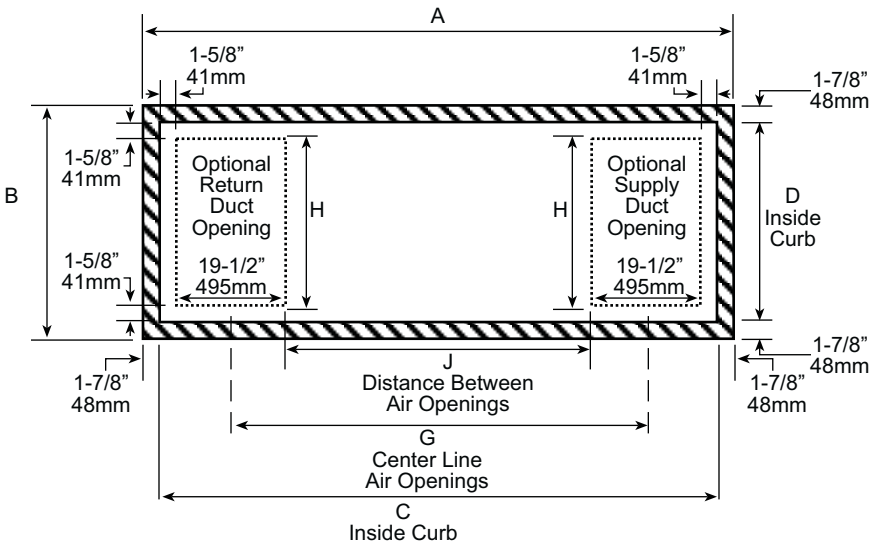
Dimensions for Bottom Downturn Duct Flange



REZNOR®

MOUNTING OPTION (cont'd)

Curb Dimensions (Model RPBL)



Roof Curb Dimensions for Model RPBL

Option CJ1 - Roof Curb for Heater Only																
	A		B		C*		D*		G		H		J		Weight	
SIZE	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	lbs.	(kg)
400	82 1/4	(2,089)	54 1/2	(1,384)	78 1/2	(1,994)	50 13/16	(1,291)	--	--	47 5/8	(1,210)	--	--	150	(68)
500, 600	108 1/4	(2,750)	43 9/16	(1,106)	104 1/2	(2,654)	39 13/16	(1,011)	--	--	36 5/8	(930)	--	--	167	(76)
700	108 1/4	(2,750)	49 1/16	(1,246)	104 1/2	(2,654)	45 5/16	(1,151)	--	--	42 1/8	(1,070)	--	--	173	(78)
800	108 1/4	(2,750)	54 1/2	(1,384)	104 1/2	(2,654)	50 13/16	(1,291)	--	--	47 5/8	(1,210)	--	--	179	(81)
1050	134 1/4	(3,410)	49 1/16	(1,246)	130 1/2	(3,315)	45 5/16	(1,151)	--	--	42 1/8	(1,070)	--	--	202	(92)
1200	134 1/4	(3,410)	54 1/2	(1,384)	130 1/2	(3,315)	50 13/16	(1,291)	--	--	47 5/8	(1,210)	--	--	208	(94)
Option CJ2 - Roof Curb for Heater Plus Factory-Installed Downturn Plenum (Option AQ5 or AQ8)																
	A		B		C*		D*		G		H		J		Weight	
SIZE	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	lbs.	(kg)
400	106 1/4	(2,699)	54 1/2	(1,384)	102 1/2	(2,604)	50 13/16	(1,291)	79 13/16	(2,027)	47 5/8	(1,210)	60 5/16	(1,532)	177	(80)
500, 600	132 1/4	(3,359)	43 9/16	(1,106)	128 1/2	(3,264)	39 13/16	(1,011)	105 13/16	(2,688)	36 5/8	(930)	86 5/16	(2,192)	193	(88)
700	132 1/4	(3,359)	49 1/16	(1,246)	128 1/2	(3,264)	45 5/16	(1,151)	105 13/16	(2,688)	42 1/8	(1,070)	86 5/16	(2,192)	199	(90)
800	132 1/4	(3,359)	54 1/2	(1,384)	128 1/2	(3,264)	50 13/16	(1,291)	105 13/16	(2,688)	47 5/8	(1,210)	86 5/16	(2,192)	205	(93)
1050	158 1/4	(4,020)	49 1/16	(1,246)	154 1/2	(3,924)	45 5/16	(1,151)	131 13/16	(3,348)	42 1/8	(1,070)	112 5/16	(2,853)	228	(103)
1200	158 1/4	(4,020)	54 1/2	(1,384)	154 1/2	(3,924)	50 13/16	(1,291)	131 13/16	(3,348)	47 5/8	(1,210)	112 5/16	(2,853)	234	(106)
Option CJ4 - Roof Curb for Heater Plus Field-Installed Cooling Coil Cabinet (Option AU2 or AU3)																
	A		B		C*		D*		G		H		J		Weight	
SIZE	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	lbs.	(kg)
400	150 1/4	(3,816)	54 1/2	(1,384)	146 1/2	(3,721)	50 13/16	(1,291)	--	--	47 5/8	(1,210)	--	--	227	(103)
500, 600	165 1/4	(4,197)	43 9/16	(1,106)	161 1/2	(4,102)	39 13/16	(1,011)	--	--	36 5/8	(930)	--	--	231	(105)
700	170 3/4	(4,337)	49 1/16	(1,246)	167	(4,242)	45 5/16	(1,151)	--	--	42 1/8	(1,070)	--	--	243	(110)
800	176 1/4	(4,477)	54 1/2	(1,384)	172 1/2	(4,382)	50 13/16	(1,291)	--	--	47 5/8	(1,210)	--	--	255	(116)
1050	196 3/4	(4,997)	49 1/16	(1,246)	193	(4,902)	45 5/16	(1,151)	--	--	42 1/8	(1,070)	--	--	271	(123)
1200	202 1/4	(5,137)	54 1/2	(1,384)	198 1/2	(5,042)	50 13/16	(1,291)	--	--	47 5/8	(1,210)	--	--	282	(128)
Option CJ5 - Roof Curb for Heater Plus Field-Installed Cooling Coil Cabinet WITH Downturn Plenum (Option AU11, AU12, AU13 or AU14)																
	A		B		C*		D*		G		H		J		Weight	
SIZE	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	lbs.	(kg)
400	174 1/4	(4,426)	54 1/2	1,384	170 1/2	(4,331)	50 13/16	(1,291)	147 1/32	(3,735)	47 5/8	(1,210)	127 17/32	(3,239)	253	(115)
500, 600	189 1/4	(4,807)	43 9/16	1,106	185 1/2	(4,712)	39 13/16	(1,011)	162 1/32	(4,116)	36 5/8	(930)	142 17/32	(3,620)	257	(117)
700	194 3/4	(4,947)	49 1/16	1,246	191	(4,851)	45 5/16	(1,151)	167 17/32	(4,255)	42 1/8	(1,070)	148 1/32	(3,760)	269	(122)
800	200 1/4	(5,086)	54 1/2	1,384	196 1/2	(4,991)	50 13/16	(1,291)	173 1/32	(4,395)	47 5/8	(1,210)	153 17/32	(3,900)	280	(127)
1050	220 3/4	(5,607)	49 1/16	1,246	217	(5,512)	45 5/16	(1,151)	193 17/32	(4,916)	42 1/8	(1,070)	174 1/32	(4,420)	296	(134)
1200	226 1/4	(5,747)	54 1/2	1,384	222 1/2	(5,652)	50 13/16	(1,291)	199 1/32	(5,055)	47 5/8	(1,210)	179 17/32	(4,560)	308	(140)

* C and D are roof opening dimensions

REZNOR®

COOLING COIL CABINET WITH DX OR CHILLED WATER COIL

Applies to Models RPBL or SSCBL

DESCRIPTION/APPLICATION

Indirect-fired packaged Reznor heating/makeup air systems, Model Series, RPBL, and SSCBL, are available with an optional cooling coil cabinet that houses a large finned surface refrigerant (DX) or chilled water cooling coil. Cooling coils are available in capacities from 5 to over 40 tons (60 to 480 MBH). Depending on the size of the system, the cabinets accommodate coils with a finned surface area from 11.2 to 14.9 square feet. Large finned surface areas aid coil performance by reducing face velocities, lowering coil pressure drops, and increasing cooling capacity.

Cabinets are fully insulated with weatherproof construction for outdoor application. Standard construction is single-wall 20 gauge galvalume steel. Optional double-wall cabinet construction is available. The cooling coil cabinet has a drain trough for positive drainage under all operating conditions in compliance with ASHRAE Standard 62-1989. The drain trough is provided with a 1" FPVC connection on the exterior of the cabinet. Each side of the cooling coil cabinet has easily removable door panels for routine coil inspection and cleaning. For down discharge, an optional downturn plenum cabinet with or without discharge dampers is available.

The performance data is certified in accordance with ARI Standard 410.

For coil capacities not outlined in these tables or for special coil requirements, contact your Reznor Sales Representative.

COOLING COIL SELECTION PROCEDURE

Selecting the proper cooling coil is vital to air handling equipment performance and cost. The correctly sized coil provides the desired dehumidification and sensible cooling under all possible internal and external loads that the building may experience. In order to properly select the coil capacity, a detailed internal and external load analysis must be performed. Caution must be taken to ensure that the percentage of outside air brought into the building meets current codes. The percentage of outside air for most applications is approximately 25%. Some current codes require greater percentages of outside air, up to 100% for densely populated structures where contaminants become a significant health risk, such as schools. The current ASHRAE recommendations on proper percentages of outside air can be found in ASHRAE Standard 62-1999 "*Ventilation for Acceptable Indoor Air Quality*".

Review the coil performance tables for general capacity data at standard outside air (95°/75°F) and return air (80°/67°F) conditions. **The preferred method of selection is to use the Reznor Coil Selection Software.** If you do not have a copy, contact your local Reznor Sales Representative.

CONTROLS

Thermal expansion valves (TXV) and auxiliary connections for hot gas bypass are optionally available from about 5 to 15 tons per circuit. The parts used depend on the distributor dimensions.

FEATURES

- Weatherized, insulated cabinet is an integral part of a Reznor® heating/makeup air system (with either a factory-installed DX or chilled water cooling coil)
- Single-wall cabinet construction (double-wall option available)
- Cabinet includes access panels for easy coil inspection or cleaning
- Available for standard refrigerant (DX) or chilled water coil
  - Capacities from 5 to over 40 tons (60 to 480 MBH)
  - 2, 3, 4 or 6 row coils with 8, 10, 12 or 14 fins per inch (fin thickness .0060") are standard

Additional Coil Options:

- Phenolic coatings
- Copper fins
- Stainless steel casing

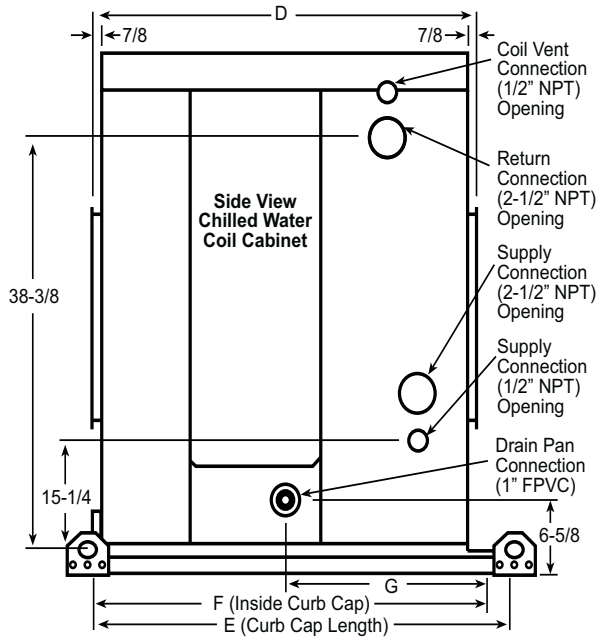
Table 1: Cabinet Option Designations

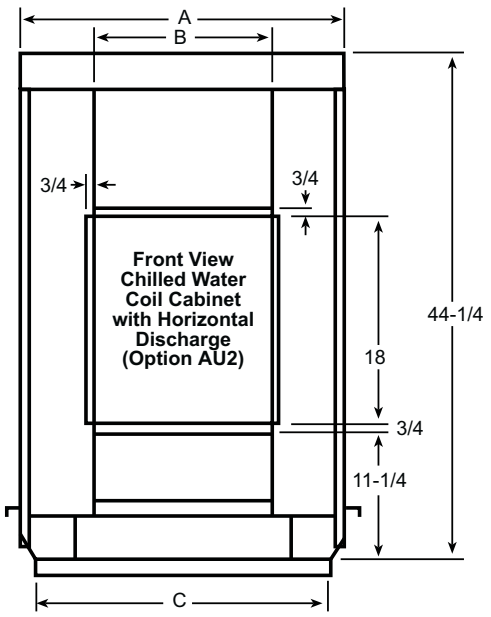
Code	Description
AU2	Cooling Coil Cabinet for a Chilled Water Coil
AU3	Cooling Coil Cabinet for a DX Coil
AU11	Cooling Coil Cabinet for a Chilled Water Coil plus a Downturn Plenum Cabinet
AU12	Cooling Coil Cabinet for a Chilled Water Coil plus a Downturn Plenum Cabinet with 2-Position Discharge Dampers
AU13	Cooling Coil Cabinet for a DX Coil plus a Downturn Plenum Cabinet
AU14	Cooling Coil Cabinet for a DX Coil plus a Downturn Plenum Cabinet with 2-Position Discharge Dampers

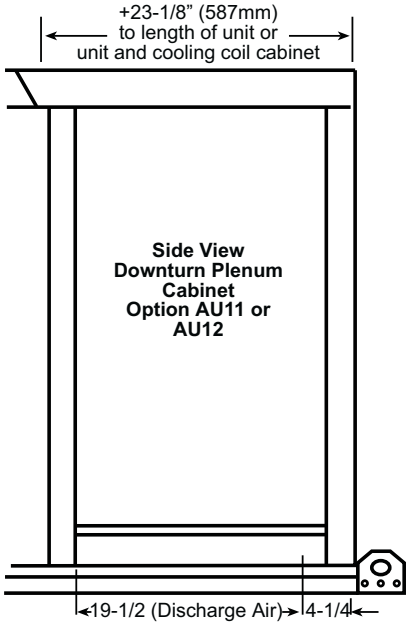
REZNOR®

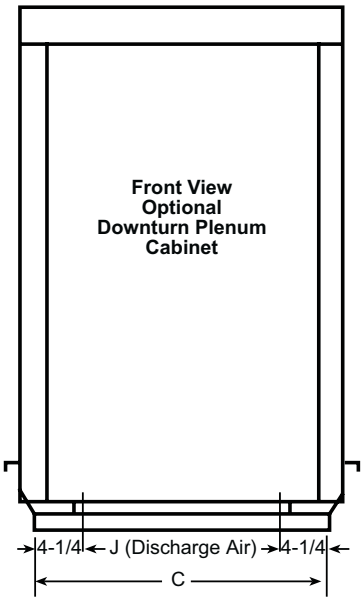
Dimensional Data

Chilled Water Coil Cabinet - Options AU2, AU11, AU12









Discharge Damper Note: The two-position discharge dampers in Option AU12 fit in the discharge air opening. The damper motor fits inside the downturn plenum cabinet.

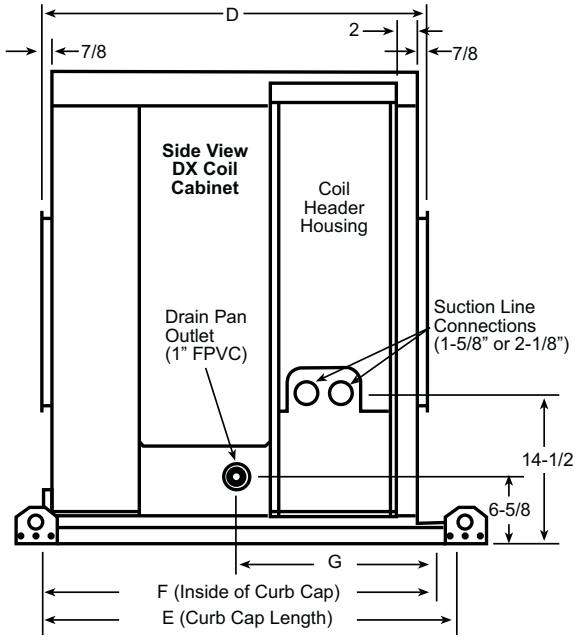
Dimensions (inches ± 1/8) and Approximate Weights (lbs)

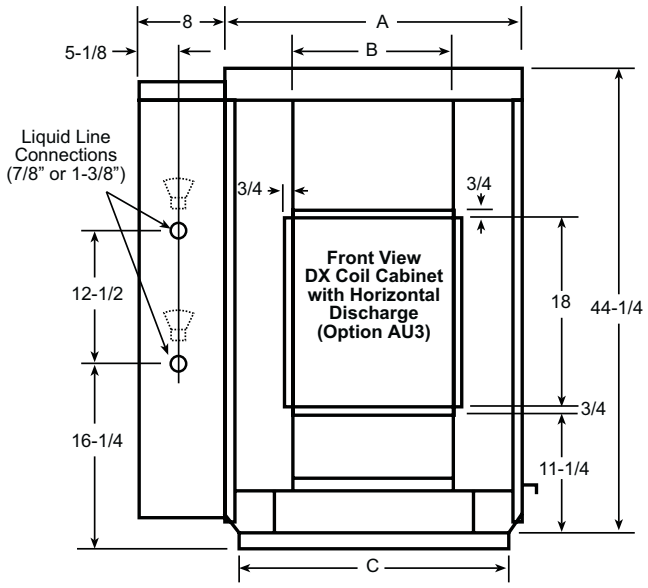
Furnace Size MBH		A	B	C	D	E		F		G	J		Cabinet Wt [lbs]	
						Without Downturn	With Downturn	Without Downturn	With Downturn				Without Downturn	With Downturn
400	in.	58 3/4	45 1/2	56 1/8	67 3/8	70 3/8	94 3/8	68 3/8	92 3/8	34 5/8	47 5/8	lbs.	507	677
	(mm)	(1,492)	(1,156)	(1,426)	(1,711)	(1,788)	(2,397)	(1,737)	(2,346)	(879)	(1,210)	(kg)	(230)	(307)
500, 600	in.	47 3/4	34 1/2	45 1/8	56 3/8	59 3/8	83 3/8	57 3/8	81 3/8	29 1/8	36 5/8	lbs.	394	546
	(mm)	(1,213)	(876)	(1,146)	(1,432)	(1,508)	(2,118)	(1,457)	(2,067)	(740)	(930)	(kg)	(179)	(248)
700	in.	53 1/4	40	50 5/8	62	64 7/8	88 7/8	63	87	31 7/8	42 1/8	lbs.	449	610
	(mm)	(1,353)	(1,016)	(1,286)	(1,575)	(1,648)	(2,257)	(1,600)	(2,210)	(810)	(1,070)	(kg)	(204)	(277)
800	in.	58 3/4	45 1/2	56 1/8	67 3/8	70 3/8	94 3/8	68 3/8	92 3/8	34 5/8	47 5/8	lbs.	507	677
	(mm)	(1,492)	(1,156)	(1,426)	(1,711)	(1,788)	(2,397)	(1,737)	(2,346)	(879)	(1,210)	(kg)	(230)	(307)
1050	in.	53 1/4	40	50 5/8	62	64 7/8	88 7/8	63	87	31 7/8	42 1/8	lbs.	449	610
	(mm)	(1,353)	(1,016)	(1,286)	(1,575)	(1,648)	(2,257)	(1,600)	(2,210)	(810)	(1,070)	(kg)	(204)	(277)
1200	in.	58 3/4	45 1/2	56 1/8	67 3/8	70 3/8	94 3/8	68 3/8	92 3/8	34 5/8	47 5/8	lbs.	507	677
	(mm)	(1,492)	(1,156)	(1,426)	(1,711)	(1,788)	(2,397)	(1,737)	(2,346)	(879)	(1,210)	(kg)	(230)	(307)

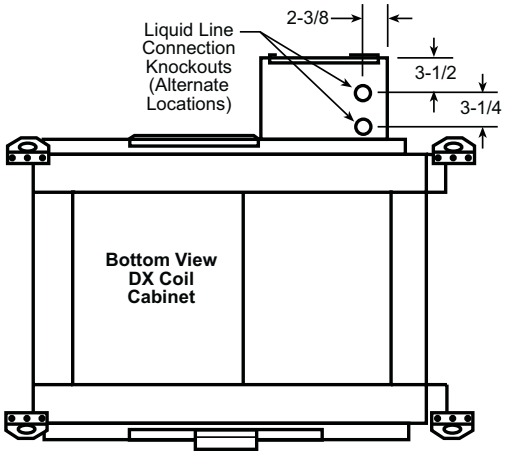
REZNOR® COOLING COIL CABINET (cont'd)

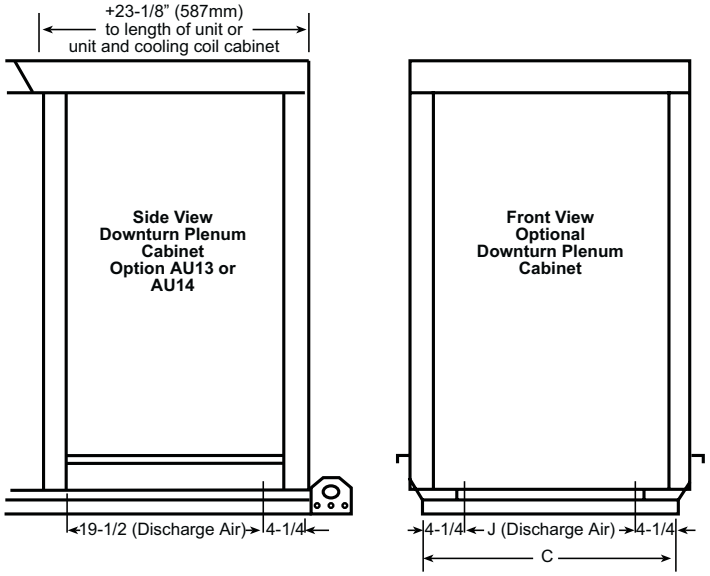
Dimensional Data

Refrigerant (DX) Coil Cabinet - Options AU3, AU13, AU14









Discharge Damper Note: The two-position discharge dampers in Option AU14 fit in the discharge air opening. The damper motor fits inside the downturn plenum cabinet.

Dimensions (inches ± 1/8) and Approximate Weights (lbs)

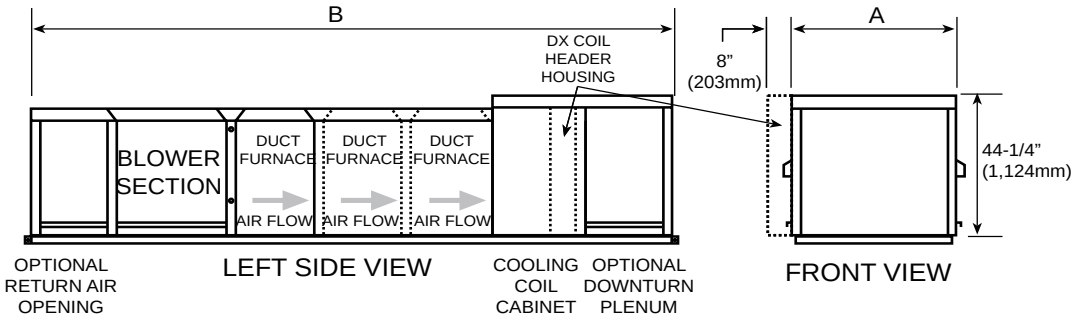
Furnace Size MBH		A	B	C	D	E		F		G	J		Cabinet Wt [lbs]	
						Without Downturn	With Downturn	Without Downturn	With Downturn				Without Downturn	With Downturn
400	in.	58 3/4	45 1/2	56 1/8	67 3/8	70 3/8	94 3/8	68 3/8	92 3/8	34 5/8	47 5/8	(kg)	507	677
	(mm)	(1,492)	(1,156)	(1,426)	(1,711)	(1,788)	(2,397)	(1,737)	(2,346)	(879)	(1,210)	(kg)	(230)	(307)
500, 600	in.	47 3/4	34 1/2	45 1/8	56 3/8	59 3/8	83 3/8	57 3/8	81 3/8	29 1/8	36 5/8	(kg)	394	546
	(mm)	(1,213)	(876)	(1,146)	(1,432)	(1,508)	(2,118)	(1,457)	(2,067)	(740)	(930)	(kg)	(179)	(248)
700	in.	53 1/4	40	50 5/8	62	64 7/8	88 7/8	63	87	31 7/8	42 1/8	(kg)	449	610
	(mm)	(1,353)	(1,016)	(1,286)	(1,575)	(1,648)	(2,257)	(1,600)	(2,210)	(810)	(1,070)	(kg)	(204)	(277)
800	in.	58 3/4	45 1/2	56 1/8	67 3/8	70 3/8	94 3/8	68 3/8	92 3/8	34 5/8	47 5/8	(kg)	507	677
	(mm)	(1,492)	(1,156)	(1,426)	(1,711)	(1,788)	(2,397)	(1,737)	(2,346)	(879)	(1,210)	(kg)	(230)	(307)
1050	in.	53 1/4	40	50 5/8	62	64 7/8	88 7/8	63	87	31 7/8	42 1/8	(kg)	449	610
	(mm)	(1,353)	(1,016)	(1,286)	(1,575)	(1,648)	(2,257)	(1,600)	(2,210)	(810)	(1,070)	(kg)	(204)	(277)
1200	in.	58 3/4	45 1/2	56 1/8	67 3/8	70 3/8	94 3/8	68 3/8	92 3/8	34 5/8	47 5/8	(kg)	507	677
	(mm)	(1,492)	(1,156)	(1,426)	(1,711)	(1,788)	(2,397)	(1,737)	(2,346)	(879)	(1,210)	(kg)	(230)	(307)

REZNOR®

COOLING COIL CABINET (cont'd)

Overall Dimensions of Model RPBL

with Cooling Coil Cabinet, with or without downturn plenum



SIZE		A	Unit with Cooling Coil Cabinet only B	Unit with Cooling Coil Cabinet and Downturn Plenum B
400	in.	58 7/8	150 3/8	173 1/2
	(mm)	1,495	3,820	4,407
500, 600	in.	47 1/8	165 3/8	188 1/2
	(mm)	1,197	4,201	4,788
700	in.	53 3/8	171	194 1/8
	(mm)	1,356	4,343	4,931
800	in.	58 7/8	176 3/8	199 1/2
	(mm)	1,495	4,480	5,067
1050	in.	53 3/8	197	220 1/8
	(mm)	1,356	5,004	5,591
1200	in.	58 7/8	202 3/8	225 1/2
	(mm)	1,495	5,140	5,728

REZNOR®

COOLING COIL CABINET (cont'd)

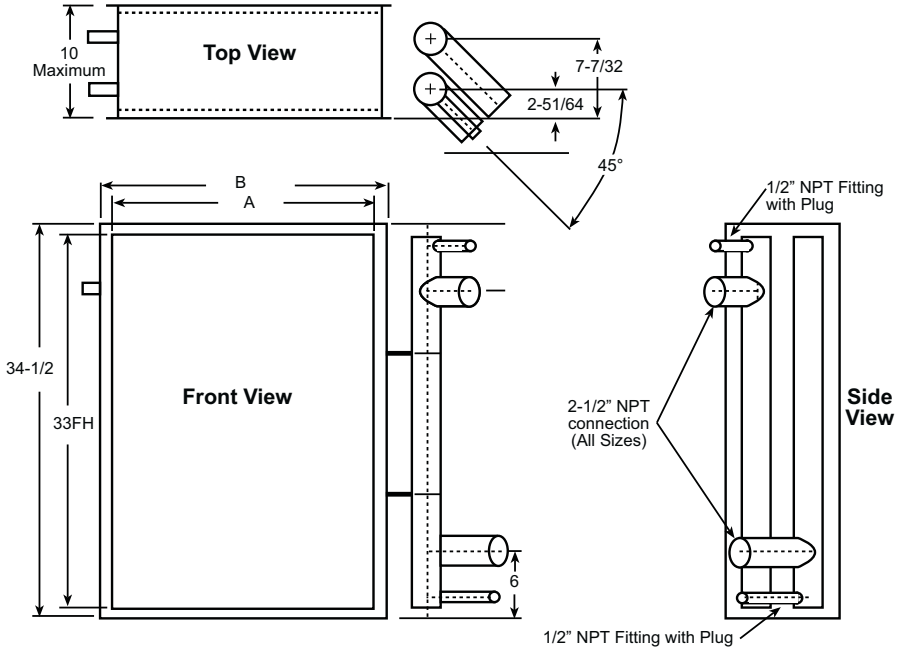
Dimensional Data (cont'd)

Coil Dimensions and Weights (table applies to both types of coils)

Furnace Size MBH	A Fin Length in	A Fin Length (mm)	B coil Length in	B coil Length (mm)	Maximum Finned Surface Area sq. ft.	Maximum Finned Surface Area (M2)	Dry Coil Weight 8 fpi 3 fins/cm lbs.	8 fpi 3 fins/cm (kg)	10 fpi 4 fins/cm lbs.	10 fpi 4 fins/cm (kg)	12 fpi 4.7 fins/cm lbs.	12 fpi 4.7 fins/cm (kg)	14 fpi 5.5 fins/cm lbs.	14 fpi 5.5 fins/cm (kg)
400	65	(1,651)	67	(1,702)	14.9	(1.38)	283	(128)	308	(140)	334	(152)	361	(164)
500, 600	49	(1,245)	51	(1,295)	11.2	(1.04)	221	(100)	240	(109)	260	(118)	281	(127)
700	57	(1,448)	59	(1,499)	13.1	(1.22)	252	(114)	274	(124)	297	(135)	321	(146)
800	65	(1,651)	67	(1,702)	14.9	(1.38)	283	(128)	308	(140)	334	(152)	361	(164)
1050	57	(1,448)	59	(1,499)	13.1	(1.22)	252	(114)	274	(124)	297	(135)	321	(146)
1200	65	(1,651)	67	(1,702)	14.9	(1.38)	283	(128)	308	(140)	334	(152)	361	(164)

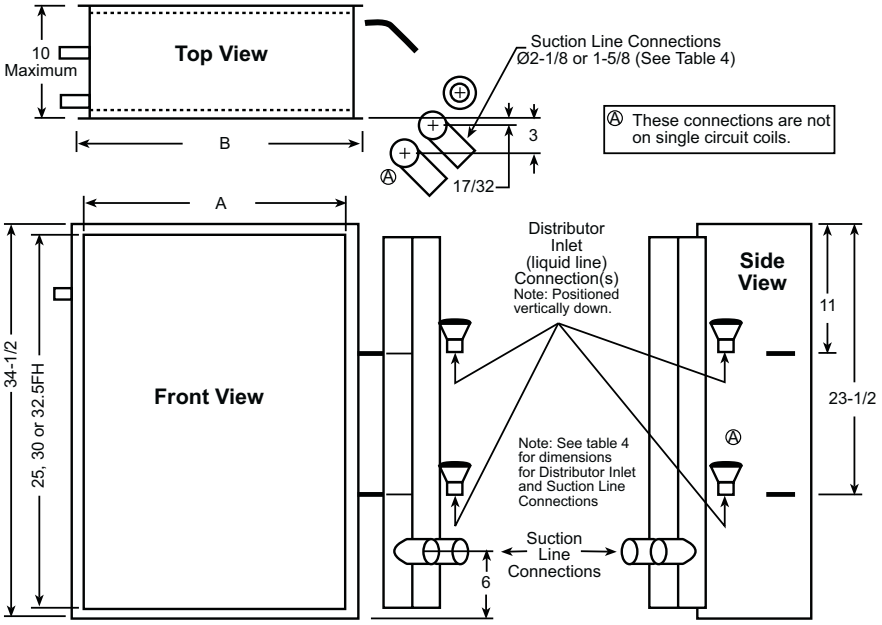
Chilled Water Coil

(Coil options to be selected with Cabinet Option AU2, AU11, or AU12)



DX Coil

(Coil options to be selected with Cabinet Option AU3, AU13, or AU14)



REZNOR®

COOLING COIL CABINET (cont'd)

Heating and Cooling Airflow Ranges

Models RPBL, SSCBL						
With Furnace Size	Blower Airflow Range				Cooling Standard Airflow	
	Maximum		Minimum		Maximum (550 SFPM) (2.8 M/s)	
	acfm	aM³/hr	acfm	aM³/hr	scfm	sM³/hr
400	14,000	23,785	3,300	5,607	8,200	13,931
500	12,000	20,387	3,700	6,286	6,180	10,499
600	12,500	21,237	4,450	7,560	6,180	10,499
700	13,500	22,936	5,200	8,835	7,190	12,215
800	13,500	22,936	5,900	10,024	8,200	13,931
1050	13,500	22,936	6,500	11,043	7,190	12,215
1200	13,500	22,936	7,400	12,572	8,200	13,931

Notes for Table:

1) Calculate Coil Face Velocity as : [Airflow (scfm [sM³/hr]) / Finned Coil Surface Area (sq. ft. [M²])]
2) A general rule of thumb for required airflow is 400 scfm (680sM³/hr) per ton of cooling for return air applications. For outside air applications, the range is approximately 150 scfm per ton to 400 scfm per ton, depending on the outdoor enthalpy and humidity ratio.
3) To avoid the possibility of condensate blow-off, the coil face velocities should not exceed 550 sfpm.
4) Conversion to standard air flow is required above 1500 ft. To convert from actual airflow (acfm) to standard airflow (scfm), see **Conversion to Standard Airflow**.

Enthalpy of Saturated Air for Various Wet Bulb Temperatures

Wet Bulb Temp, [deg.F]	Enthalpy [Btu / lb]
50	20.4
50.5	20.6
51	20.9
51.5	21.2
52	21.4
52.5	21.7
53	22
53.5	22.3
54	22.6
54.5	22.9
55	23.2
55.5	23.5
56	23.8
56.5	24.1
57	24.4

Wet Bulb Temp, [deg.F]	Enthalpy [Btu / lb]
57.5	24.7
58	25.1
58.5	25.4
59	25.7
59.5	26.1
60	26.4
60.5	26.8
61	27.1
61.5	27.5
62	27.8
62.5	28.2
63	28.6
63.5	28.9
64	29.3
64.5	29.7

Wet Bulb Temp, [deg.F]	Enthalpy [Btu / lb]
65	30.1
65.5	30.4
66	30.8
66.5	31.2
67	31.6
67.5	32
68	32.4
68.5	32.9
69	33.3
69.5	33.7
70	34.1
70.5	34.6
71	35
71.5	35.4
72	35.9

Wet Bulb Temp, [deg.F]	Enthalpy [Btu / lb]
72.5	36.3
73	36.8
73.5	37.2
74	37.7
74.5	38.2
75	38.6
75.5	39.1
76	39.6
76.5	40
77	40.5
77.5	41
78	41.5
78.5	42
79	42.5
79.5	43

General Note : Enthalpy is approximately constant with constant wet bulb temperature. There is a slight variation with dry bulb temperature, but the variation is typically negligible over the range of dry bulb temperatures common to HVAC applications.

REZNOR®

COOLING PERFORMANCE TABLES

Models RPBL & SSCBL with 2 Row DX Coils

Coils Generally for R/A Application or 100% O/A Applications in Dry Climates												
2 Row DX Coils (R410A)			Minimum Coil					Maximum Coil				
Furnace Size	Entering Wet Bulb (°F)	Cooling Air Flow (scfm)	Total MBH	SHR	Leaving Air DB/WB (°F)	Leaving Air DewPoint (°F)	Air PD (in. WC)	Total MBH	SHR	Leaving Air DB/WB (°F)	Leaving Air DewPoint (°F)	Air PD (in. WC)
400, 800, 1200	63°F	3,300	60	.89	62.5 / 57.0	53.5	.06	81	.89	57.2 / 54.7	53.1	.08
		3,900	65	.91	63.5 / 57.6	53.9	.08	89	.91	58.3 / 55.4	53.6	.11
		4,500	69	.92	64.3 / 58.0	54.1	.10	95	.93	59.2 / 56.0	54.0	.13
		5,200	73	.94	65.1 / 58.4	54.2	.13	102	.95	60.1 / 56.5	54.3	.17
		5,900	77	.96	65.8 / 58.8	54.5	.15	108	1.00	60.9 / 57.0	54.5	.19
		7,400	91	.97	66.3 / 59.0	54.5	.16	113	1.00	63.3 / 58.1	54.5	.22
		8,069	95	1.00	66.7 / 59.2	54.5	.17	118	1.00	63.8 / 58.3	54.5	.24
	65°F	3,300	69	.82	64.0 / 58.3	54.8	.06	94	.82	58.2 / 55.7	54.2	.08
		3,900	75	.83	65.1 / 58.9	55.2	.08	103	.84	59.4 / 56.4	54.6	.11
		4,500	80	.85	65.9 / 59.4	55.5	.10	110	.86	60.5 / 57.1	55.1	.14
		5,200	86	.86	66.7 / 59.8	55.7	.13	105	.94	62.3 / 58.6	56.5	.17
		5,900	91	.87	67.5 / 60.2	55.9	.16	113	.95	63.0 / 59.0	56.7	.21
		7,400	107	.89	68.0 / 60.5	56.1	.19	127	1.00	64.3 / 59.6	56.8	.27
		8,069	111	.90	68.5 / 60.8	56.3	.22	133	1.00	64.8 / 59.9	56.8	.32
	67°F	3,300	79	.76	65.5 / 59.7	56.3	.06	107	.77	59.4 / 56.8	55.3	.08
		3,900	86	.77	66.6 / 60.3	56.7	.08	104	.83	61.8 / 58.8	57.1	.11
		4,500	92	.79	67.6 / 60.9	57.1	.10	113	.85	62.8 / 59.3	57.3	.14
		5,200	98	.80	68.5 / 61.4	57.4	.13	122	.86	63.7 / 59.9	57.8	.18
		5,900	89	.88	70.0 / 62.5	58.4	.16	130	.88	64.5 / 60.3	58.0	.23
		7,400	106	.90	70.5 / 62.8	58.6	.19	145	.91	65.9 / 61.1	58.5	.31
		8,069	110	.91	71.0 / 63.0	58.7	.22	151	.92	66.5 / 61.4	58.6	.36
	69°F	3,300	90	.71	67.0 / 61.0	57.6	.06	111	.75	61.6 / 58.9	57.4	.08
		3,900	97	.72	68.3 / 61.7	58.1	.08	122	.76	62.8 / 59.7	58.0	.11
		4,500	89	.79	70.5 / 63.3	59.5	.11	132	.78	63.8 / 60.3	58.4	.14
		5,200	95	.80	71.4 / 63.8	59.8	.14	141	.79	65.0 / 61.0	58.9	.18
		5,900	105	.80	71.7 / 63.9	59.8	.16	150	.81	65.9 / 61.6	59.3	.23
		7,400	125	.81	72.2 / 64.2	60.1	.19	167	.84	67.5 / 62.5	59.9	.34
		8,069	130	.82	72.7 / 64.5	60.3	.22	174	.85	68.0 / 62.8	60.1	.39
	71°F	3,300	88	.70	70.0 / 63.5	60.1	.07	127	.70	62.5 / 59.8	58.4	.08
		3,900	96	.72	71.1 / 64.2	60.7	.09	140	.71	63.9 / 60.7	59.0	.11
		4,500	102	.73	72.1 / 64.7	61.0	.11	152	.72	65.0 / 61.4	59.5	.14
		5,200	109	.74	73.1 / 65.2	61.3	.14	164	.73	66.1 / 62.1	60.0	.18
		5,900	120	.74	73.4 / 65.4	61.4	.16	174	.74	67.1 / 62.7	60.5	.23
		7,400	144	.75	74.0 / 65.7	61.6	.19	194	.77	68.8 / 63.7	61.1	.34
		8,069	149	.76	74.5 / 66.0	61.8	.22	202	.78	69.5 / 64.1	61.4	.39
500, 600	63°F	3,700	52	.96	65.0 / 58.5	54.5	.11	74	.95	59.8 / 56.4	54.3	.15
		4,450	56	1.00	65.9 / 58.9	54.5	.14	81	1.00	60.9 / 57.0	54.5	.19
		5,200	65	1.00	66.0 / 59.0	54.5	.14	88	1.00	61.8 / 57.5	54.5	.24
		6,082	70	1.00	66.8 / 59.3	54.5	.17	95	1.00	62.9 / 57.9	54.5	.28
	65°F	3,700	61	.87	66.6 / 59.9	56.0	.11	85	.88	61.2 / 57.6	55.5	.17
		4,450	66	.89	67.7 / 60.4	56.1	.16	93	.90	62.4 / 58.4	56.1	.23
		5,200	76	.90	67.8 / 60.5	56.2	.16	100	.92	63.4 / 58.9	56.3	.27
		6,082	81	.92	68.6 / 60.9	56.4	.22	107	.95	64.4 / 59.5	56.7	.36
	67°F	3,700	71	.80	68.3 / 61.3	57.4	.11	99	.81	62.4 / 58.8	56.7	.17
		4,450	76	.82	69.4 / 61.9	57.7	.16	108	.83	63.8 / 59.6	57.2	.23
		5,200	88	.82	69.5 / 62.0	57.8	.16	116	.85	64.9 / 60.3	57.7	.30
		6,082	94	.84	70.4 / 62.4	58.0	.22	123	.88	66.0 / 60.9	58.1	.39
	69°F	3,700	81	.74	69.9 / 62.7	58.8	.11	112	.75	63.7 / 60.0	58.0	.17
		4,450	87	.76	71.1 / 63.4	59.3	.16	123	.77	65.2 / 60.9	58.6	.23
		5,200	101	.76	71.3 / 63.5	59.4	.16	117	.85	67.3 / 62.5	60.0	.30
		6,082	107	.78	72.2 / 64.0	59.7	.22	126	.87	68.3 / 63.0	60.3	.39
	71°F	3,700	91	.69	71.6 / 64.2	60.4	.11	127	.71	65.1 / 61.2	59.1	.17
		4,450	99	.71	72.9 / 64.9	60.9	.16	126	.76	67.5 / 63.1	60.9	.23
		5,200	113	.71	73.1 / 65.0	60.9	.16	136	.78	68.6 / 63.7	61.3	.30
		6,082	121	.73	74.1 / 65.6	61.4	.22	147	.79	69.7 / 64.3	61.6	.39
700, 1050	63°F	5,200	67	.97	65.9 / 58.8	54.4	.15	96	.97	60.9 / 56.9	54.4	.19
		5,850	76	.96	65.8 / 58.8	54.5	.15	101	1.00	61.6 / 57.3	54.5	.23
		6,500	80	.98	66.3 / 59.0	54.5	.16	107	1.00	62.2 / 57.6	54.5	.24
		7,076	83	1.00	66.7 / 59.2	54.5	.19	111	1.00	62.9 / 57.9	54.5	.26
	65°F	5,200	79	.88	67.6 / 60.3	56.0	.16	110	.90	62.4 / 58.3	55.9	.23
		5,850	90	.88	67.5 / 60.2	55.9	.16	115	.92	63.2 / 58.8	56.2	.28
		6,500	93	.89	68.1 / 60.5	56.1	.19	121	.93	63.9 / 59.2	56.5	.31
		7,076	97	.90	68.5 / 60.8	56.3	.22	114	1.00	65.0 / 60.0	56.8	.32
	67°F	5,200	90	.81	69.3 / 61.8	57.6	.16	112	.89	64.7 / 60.5	58.2	.21
		5,850	103	.81	69.2 / 61.8	57.7	.16	119	.91	65.4 / 60.9	58.5	.26
		6,500	107	.82	69.9 / 62.1	57.8	.19	125	.92	66.1 / 61.3	58.7	.31
		7,076	111	.83	70.4 / 62.4	58.0	.22	130	.93	66.6 / 61.5	58.7	.36
	69°F	5,200	103	.76	71.1 / 63.3	59.1	.16	129	.82	66.1 / 61.8	59.5	.23
		5,850	98	.82	72.1 / 64.2	60.1	.17	137	.83	66.9 / 62.2	59.7	.28
		6,500	122	.76	71.6 / 63.6	59.4	.19	144	.85	67.6 / 62.6	60.0	.34
		7,076	111	.84	72.8 / 64.6	60.4	.22	150	.86	68.2 / 62.9	60.2	.39
	71°F	5,200	104	.75	73.5 / 65.5	61.5	.16	150	.75	67.3 / 62.9	60.7	.23
		5,850	114	.76	73.9 / 65.7	61.7	.17	159	.76	68.2 / 63.4	61.0	.28
		6,500	123	.76	74.1 / 65.8	61.7	.19	167	.78	69.0 / 63.9	61.4	.34
		7,076	128	.77	74.6 / 66.1	61.9	.22	173	.79	69.6 / 64.2	61.5	.39

Notes for Table:

1) Available for one external circuit, one distributor only.

2) Based on 3/8" tube OD with 1" tube spacing, circuited for refrigerant velocity > 1000 fpm, refrigerant PD < 10 psi.

3) Multiply Total MBH by SHR to get Sensible MBH.

4) Values shown are based on 45° SST, 100° LLT, 10° superheat. Entering DB is based on WB shown at 45% RH (DB has minor impact on capacity and SHR). Capacities will be higher at lower evaporator SST's (not recommended for outside air) and capacities will be lower at higher evaporator SST's. Evaporator plots are produced by the coil selection software.

5) Available fin spacings are 8, 10, 12, 14. Available tube diameters are 3/8" and 1/2".

6) The "minimum coil" is 8 fpi at the minimum finned height resulting in less than 500 fpm face velocity when possible. The "maximum coil" is 14 fpi with the maximum allowable finned height. Absolute maximum face velocity is 550 fpm.

REZNOR®

COOLING PERFORMANCE TABLES (cont'd)

Models RPBL & SSCBL with 3 Row DX Coils

Coils Generally for 100% O/A Application in Mild Climates, ERV Applications, R/A Applications												
3 Row DX Coils (R410A)			Minimum Coil					Maximum Coil				
Furnace Size	Entering Wet Bulb (°F)	Cooling Air Flow (scfm)	Total MBH	SHR	Leaving Air DB/WB (°F)	Leaving Air DewPoint (°F)	Air PD (in. WC)	Total MBH	SHR	Leaving Air DB/WB (°F)	Leaving Air DewPoint (°F)	Air PD (in. WC)
400, 800, 1200	64°F	3,300	81	.85	59.2 / 55.9	53.8	.10	102	.85	54.1 / 53.5	53.2	.12
		3,900	89	.87	60.3 / 56.5	54.1	.14	114	.87	54.9 / 54.2	53.9	.16
		4,500	95	.89	61.2 / 57.1	54.6	.17	125	.89	55.7 / 54.8	54.4	.21
		5,200	102	.91	62.1 / 57.7	55.0	.22	136	.92	56.5 / 55.4	54.8	.27
		5,900	104	1.00	62.4 / 58.3	55.7	.24	146	.94	57.1 / 55.9	55.3	.34
		7,400	127	1.00	62.7 / 58.5	55.7	.27	165	1.00	58.3 / 56.7	55.7	.45
		8,069	133	1.00	63.4 / 58.7	55.7	.29	177	1.00	58.7 / 56.9	55.7	.36
	67°F	3,300	99	.76	61.1 / 57.6	55.5	.10	126	.77	55.3 / 54.8	54.6	.13
		3,900	108	.78	62.3 / 58.4	56.1	.14	140	.78	56.4 / 55.6	55.2	.18
		4,500	117	.79	63.3 / 59.0	56.5	.17	152	.80	57.3 / 56.3	55.8	.23
		5,200	124	.82	64.4 / 59.7	57.0	.22	165	.82	58.2 / 57.1	56.6	.30
		5,900	126	.89	64.8 / 60.5	58.1	.26	180	.83	58.8 / 57.5	56.9	.24
		7,400	153	.90	65.2 / 60.8	58.4	.29	206	.86	60.2 / 58.4	57.5	.35
		8,069	159	.92	65.7 / 61.1	58.6	.33	216	.88	60.7 / 58.8	57.8	.40
	70°F	3,300	118	.70	63.1 / 59.4	57.3	.10	152	.70	56.4 / 55.9	55.7	.13
		3,900	129	.71	64.4 / 60.3	58.0	.14	168	.71	57.8 / 57.0	56.7	.18
		4,500	129	.77	65.8 / 61.8	59.7	.20	187	.72	58.4 / 57.5	57.1	.17
		5,200	138	.77	67.3 / 62.4	59.8	.22	205	.73	59.4 / 58.2	57.6	.21
		5,900	154	.77	67.5 / 62.6	60.1	.23	221	.75	60.3 / 58.9	58.2	.26
		7,400	187	.78	67.9 / 62.8	60.2	.25	251	.77	61.9 / 60.1	59.2	.37
		8,069	196	.79	68.5 / 63.1	60.3	.29	263	.78	62.5 / 60.5	59.5	.43
	73°F	3,300	130	.67	65.5 / 62.1	60.4	.12	183	.63	57.3 / 56.8	56.7	.10
		3,900	143	.67	67.2 / 62.9	60.7	.14	205	.64	58.5 / 57.8	57.5	.14
		4,500	155	.68	68.3 / 63.7	61.4	.17	226	.65	59.6 / 58.6	58.2	.17
		5,200	163	.72	69.1 / 64.6	62.4	.26	247	.66	60.7 / 59.5	59.0	.21
		5,900	186	.69	69.7 / 64.5	62.0	.23	266	.67	61.7 / 60.3	59.7	.26
		7,400	227	.70	70.1 / 64.8	62.2	.25	303	.70	63.6 / 61.6	60.7	.37
		8,069	237	.71	70.7 / 65.2	62.6	.29	317	.71	64.3 / 62.1	61.1	.43
	76°F	3,300	154	.60	67.7 / 63.8	61.9	.10	216	.58	58.2 / 57.7	57.6	.10
		3,900	165	.63	69.0 / 65.0	63.1	.16	243	.59	59.6 / 58.8	58.5	.14
		4,500	164	.67	71.1 / 66.8	64.9	.20	267	.60	60.8 / 59.8	59.4	.17
		5,200	176	.68	72.3 / 67.5	65.4	.26	292	.61	62.1 / 60.8	60.2	.21
		5,900	221	.63	71.9 / 66.5	64.0	.23	315	.62	63.2 / 61.7	61.0	.26
		7,400	269	.63	72.4 / 66.8	64.2	.25	358	.64	65.2 / 63.3	62.5	.37
		8,069	281	.64	73.1 / 67.2	64.5	.29	375	.64	66.0 / 63.8	62.8	.43
500, 600	64°F	3,700	73	.92	61.9 / 57.6	55.0	.18	93	.94	56.7 / 55.7	55.2	.22
		4,450	74	1.00	63.2 / 58.7	55.7	.22	105	.97	57.6 / 56.3	55.6	.30
		5,200	87	1.00	63.1 / 58.6	55.7	.22	115	1.00	58.3 / 56.8	55.7	.40
		6,082	95	1.00	64.2 / 59.0	55.7	.28	126	1.00	59.5 / 57.3	55.7	.46
	67°F	3,700	90	.81	64.1 / 59.6	57.0	.20	114	.84	58.4 / 57.3	56.8	.24
		4,450	90	.92	65.2 / 60.9	58.6	.26	128	.86	59.5 / 58.1	57.4	.34
		5,200	105	.92	65.1 / 60.9	58.6	.25	139	.89	60.4 / 58.8	58.0	.45
		6,082	114	.95	66.0 / 61.4	58.9	.31	151	.92	61.3 / 59.4	58.4	.59
	70°F	3,700	109	.73	66.2 / 61.5	59.0	.20	139	.75	59.9 / 58.8	58.3	.27
		4,450	109	.82	67.5 / 63.0	60.7	.27	154	.78	61.2 / 59.8	59.1	.37
		5,200	129	.82	67.4 / 63.0	60.8	.27	168	.80	62.3 / 60.6	59.8	.49
		6,082	138	.85	68.4 / 63.6	61.2	.36	187	.81	63.1 / 61.1	60.1	.43
	73°F	3,700	129	.67	68.4 / 63.5	61.0	.20	167	.68	61.4 / 60.3	59.8	.27
		4,450	131	.74	69.7 / 65.1	62.9	.27	190	.69	62.5 / 61.1	60.5	.26
		5,200	155	.74	69.6 / 65.0	62.8	.27	208	.71	63.7 / 61.9	61.1	.34
		6,082	166	.76	70.7 / 65.7	63.4	.36	227	.73	64.9 / 62.8	61.8	.43
	76°F	3,700	137	.64	71.7 / 66.6	64.3	.20	203	.62	62.4 / 61.2	60.7	.20
		4,450	158	.65	72.4 / 67.0	64.6	.23	228	.63	63.9 / 62.4	61.8	.26
		5,200	186	.65	72.3 / 66.9	64.4	.23	249	.64	65.2 / 63.4	62.6	.34
		6,082	201	.66	73.5 / 67.7	65.1	.29	271	.66	66.6 / 64.4	63.4	.43
700, 1050	64°F	5,200	90	1.00	62.7 / 58.5	55.7	.24	126	.95	57.3 / 56.0	55.3	.30
		5,850	110	.92	62.5 / 57.9	55.1	.22	135	.97	57.9 / 56.4	55.6	.37
		6,500	109	1.00	63.1 / 58.6	55.7	.25	144	1.00	58.4 / 56.8	55.7	.45
		7,076	114	1.00	63.7 / 58.9	55.7	.29	151	1.00	58.9 / 57.1	55.7	.52
	67°F	5,200	108	.90	65.0 / 60.7	58.4	.26	153	.85	59.2 / 57.8	57.1	.34
		5,850	135	.82	64.8 / 60.0	57.3	.24	163	.87	59.9 / 58.4	57.7	.42
		6,500	132	.91	65.3 / 60.9	58.5	.29	173	.89	60.6 / 58.8	57.9	.51
		7,076	137	.93	65.8 / 61.2	58.7	.33	181	.90	61.1 / 59.2	58.2	.40
	70°F	5,200	132	.81	67.2 / 62.8	60.6	.28	186	.76	60.9 / 59.5	58.8	.26
		5,850	162	.74	67.1 / 62.1	59.5	.24	199	.78	61.7 / 60.1	59.3	.32
		6,500	160	.82	67.6 / 63.0	60.7	.31	211	.79	62.4 / 60.5	59.6	.38
		7,076	166	.83	68.2 / 63.4	61.0	.36	222	.80	62.9 / 60.9	59.9	.43
	73°F	5,200	157	.71	70.1 / 64.9	62.4	.23	225	.69	62.3 / 60.9	60.3	.26
		5,850	174	.71	70.3 / 65.0	62.4	.24	242	.70	63.2 / 61.5	60.7	.32
		6,500	191	.72	70.5 / 65.1	62.5	.25	256	.71	64.0 / 62.1	61.2	.38
		7,076	199	.72	71.1 / 65.5	62.8	.29	268	.72	64.7 / 62.6	61.6	.43
	76°F	5,200	187	.64	72.3 / 66.9	64.4	.23	269	.63	63.8 / 62.2	61.5	.26
		5,850	204	.67	72.1 / 67.2	65.0	.29	288	.63	64.8 / 63.0	62.2	.32
		6,500	228	.65	72.7 / 67.1	64.6	.25	305	.64	65.7 / 63.7	62.8	.38
		7,076	237	.65	73.4 / 67.6	65.0	.29	319	.65	66.4 / 64.2	63.2	.43

Notes for Table:

1) Available with 1 or 2 external circuits (distributors) in interlaced configuration. Circuit capacities (distributors) do not have to be equal.

2) Based on 3/8" or 1/2" tube OD with 1.25" tube spacing (1.00" available), circuited for refrigerant velocity > 1000 fpm, refrigerant PD < 10 psi. Some discontinuities may be noted in MBH, SHR, Air PD, etc due to changes in tube OD and circuiting in order to maintain adequate refrigerant velocity and PD.

3) Multiply Total MBH by SHR to get Sensible MBH.

4) Values shown are based on 45° SST, 100° LLT, 10° superheat. Entering DB is based on WB shown at 45% RH (DB has minor impact on capacity and SHR). Capacities will be higher at lower evaporator SST's (not recommended for outside air) and capacities will be lower at higher evaporator SST's. Evaporator plots are produced by the coil selection software.

5) Available fin spacings are 8, 10, 12, 14. Available tube diameters are 3/8" and 1/2".

6) The "minimum coil" is 8 fpi at the minimum finned height resulting in less than 500 fpm face velocity when possible. The "maximum coil" is 14 fpi with the maximum allowable finned height. Absolute maximum face velocity is 550 fpm.

REZNOR®

Models RPBL & SSCBL with 4 Row DX Coils

COOLING PERFORMANCE TABLES (cont'd)

Coils Generally for 100% O/A Application in Warm Climates, Dehumidification												
4 Row DX Coils (R410A)			Minimum Coil					Maximum Coil				
Furnace Size	Entering Wet Bulb (°F)	Cooling Air Flow (scfm)	Total MBH	SHR	Leaving Air DB/WB (°F)	Leaving Air DewPoint (°F)	Air PD (in. WC)	Total MBH	SHR	Leaving Air DB/WB (°F)	Leaving Air DewPoint (°F)	Air PD (in. WC)
400, 800, 1200	67°F	3,300	111	.78	58.2 / 56.4	55.4	.15	144	.74	52.7 / 52.7	52.7	.18
		3,900	121	.80	59.3 / 57.3	56.2	.21	161	.75	53.7 / 53.6	53.6	.24
		4,500	136	.79	60.3 / 57.6	56.1	.23	188	.75	53.6 / 53.4	53.3	.23
		5,200	148	.80	61.2 / 58.2	56.5	.29	207	.76	54.5 / 54.2	54.0	.29
		5,900	166	.81	61.4 / 58.3	56.5	.31	225	.77	55.2 / 54.8	54.7	.35
		7,400	202	.81	61.9 / 58.6	56.7	.34	260	.80	56.6 / 55.9	55.6	.50
		8,069	212	.82	62.4 / 58.9	56.9	.39	273	.81	57.2 / 56.3	55.9	.57
	70°F	3,300	137	.69	59.6 / 57.5	56.3	.14	181	.66	52.6 / 52.6	52.6	.14
		3,900	152	.70	60.9 / 58.3	56.9	.18	205	.67	53.6 / 53.5	53.5	.18
		4,500	142	.78	63.3 / 60.8	59.5	.27	227	.68	54.5 / 54.3	54.2	.23
		5,200	180	.72	63.1 / 59.9	58.2	.29	251	.69	55.5 / 55.2	55.1	.29
		5,900	201	.73	63.3 / 60.0	58.2	.31	272	.70	56.3 / 55.9	55.8	.35
		7,400	246	.73	63.7 / 60.3	58.5	.34	313	.72	58.0 / 57.2	56.9	.50
		8,069	258	.74	64.4 / 60.7	58.7	.39	330	.73	58.6 / 57.8	57.5	.57
	73°F	3,300	163	.63	61.1 / 58.9	57.7	.14	214	.61	53.2 / 53.2	53.2	.14
		3,900	181	.64	62.5 / 59.9	58.5	.18	243	.62	54.4 / 54.3	54.3	.18
		4,500	197	.65	63.7 / 60.7	59.1	.23	269	.62	55.4 / 55.2	55.1	.23
		5,200	215	.66	64.8 / 61.5	59.8	.29	297	.63	56.5 / 56.2	56.1	.29
		5,900	239	.66	65.2 / 61.7	59.9	.31	323	.64	57.5 / 57.1	57.0	.35
		7,400	292	.66	65.7 / 62.1	60.3	.34	371	.66	59.4 / 58.6	58.3	.50
		8,069	306	.67	66.4 / 62.6	60.7	.39	391	.67	60.1 / 59.2	58.8	.57
	76°F	3,300	191	.58	62.6 / 60.3	59.1	.14	250	.57	53.9 / 53.9	53.9	.14
		3,900	212	.59	64.1 / 61.4	60.0	.18	283	.57	55.2 / 55.2	55.2	.18
		4,500	230	.60	65.5 / 62.4	60.9	.23	314	.58	56.4 / 56.2	56.1	.23
		5,200	250	.60	66.8 / 63.3	61.6	.29	346	.58	57.7 / 57.3	57.2	.29
		5,900	280	.61	67.1 / 63.5	61.8	.31	376	.59	58.8 / 58.3	58.2	.35
		7,400	343	.61	67.6 / 63.9	62.1	.34	383	.64	63.0 / 62.2	61.9	.74
		8,069	358	.62	68.4 / 64.5	62.7	.39	401	.65	63.8 / 62.9	62.6	.87
	79°F	3,300	221	.54	64.1 / 61.7	60.5	.14	288	.53	54.7 / 54.7	54.7	.14
		3,900	245	.54	65.8 / 63.0	61.7	.18	326	.53	56.1 / 56.1	56.1	.18
		4,500	266	.55	67.3 / 64.1	62.6	.23	361	.54	57.5 / 57.3	57.2	.23
		5,200	289	.56	68.8 / 65.2	63.5	.29	399	.54	58.9 / 58.6	58.5	.29
		5,900	323	.56	69.1 / 65.4	63.7	.31	392	.57	62.4 / 61.9	61.8	.50
		7,400	395	.56	69.7 / 65.8	64.0	.34	474	.57	63.5 / 62.7	62.4	.50
		8,069	413	.57	70.6 / 66.4	64.5	.39	500	.58	64.3 / 63.3	62.9	.57
500, 600	67°F	3,700	111	.79	60.6 / 57.7	56.0	.26	140	.78	55.1 / 54.8	54.6	.36
		4,450	117	.86	61.6 / 58.9	57.4	.37	157	.80	56.3 / 55.8	55.6	.50
		5,200	137	.85	61.6 / 58.9	57.4	.36	175	.81	57.0 / 56.4	56.2	.41
		6,082	148	.88	62.6 / 59.6	58.0	.44	193	.83	57.9 / 57.1	56.8	.53
	70°F	3,700	123	.76	62.9 / 60.3	59.0	.31	168	.71	56.4 / 56.1	56.0	.36
		4,450	141	.77	63.6 / 60.8	59.4	.37	194	.72	57.3 / 56.8	56.7	.35
		5,200	166	.77	63.5 / 60.7	59.3	.36	214	.73	58.3 / 57.6	57.3	.45
		6,082	181	.77	65.1 / 61.4	59.5	.39	236	.75	59.4 / 58.5	58.1	.57
	73°F	3,700	148	.67	65.1 / 61.9	60.3	.26	206	.64	57.0 / 56.7	56.6	.26
		4,450	171	.68	65.8 / 62.4	60.7	.31	232	.65	58.4 / 57.9	57.8	.35
		5,200	201	.68	65.7 / 62.3	60.6	.30	257	.66	59.5 / 58.9	58.7	.45
		6,082	219	.69	67.0 / 63.2	61.3	.39	283	.68	60.7 / 59.8	59.4	.57
	76°F	3,700	157	.66	67.9 / 65.0	63.7	.31	243	.59	57.9 / 57.7	57.6	.26
		4,450	202	.62	67.7 / 64.1	62.4	.31	275	.60	59.5 / 59.0	58.9	.35
		5,200	238	.62	67.6 / 64.1	62.4	.30	304	.61	60.8 / 60.1	59.9	.45
		6,082	259	.63	69.0 / 65.0	63.1	.39	334	.62	62.2 / 61.2	60.8	.57
	79°F	3,700	205	.56	68.7 / 65.3	63.8	.26	282	.54	58.9 / 58.7	58.6	.26
		4,450	236	.57	69.6 / 65.9	64.2	.31	320	.55	60.6 / 60.2	60.1	.35
		5,200	277	.57	69.5 / 65.8	64.1	.30	353	.56	62.1 / 61.4	61.2	.45
		6,082	302	.58	71.0 / 66.9	65.1	.39	388	.57	63.7 / 62.7	62.3	.57
700, 1050	67°F	5,200	138	.85	61.6 / 58.9	57.4	.37	193	.78	55.6 / 55.1	54.9	.35
		5,850	152	.86	61.8 / 59.0	57.5	.39	208	.79	56.3 / 55.7	55.5	.42
		6,500	167	.86	61.9 / 59.1	57.6	.41	222	.80	56.9 / 56.2	55.9	.50
		7,076	180	.84	62.7 / 59.2	57.2	.39	234	.82	57.5 / 56.6	56.2	.57
	70°F	5,200	173	.74	63.6 / 60.3	58.5	.31	234	.71	56.8 / 56.3	56.1	.35
		5,850	191	.74	63.8 / 60.5	58.7	.32	253	.72	57.5 / 56.9	56.7	.42
		6,500	210	.74	64.0 / 60.6	58.8	.34	270	.73	58.3 / 57.5	57.2	.50
		7,076	220	.75	64.6 / 61.0	59.1	.39	284	.74	58.9 / 58.0	57.6	.57
	73°F	5,200	207	.67	65.4 / 62.0	60.3	.31	280	.64	57.8 / 57.4	57.3	.35
		5,850	229	.67	65.7 / 62.2	60.4	.32	302	.65	58.8 / 58.2	58.0	.42
		6,500	252	.67	65.9 / 62.3	60.5	.34	321	.66	59.7 / 58.9	58.6	.50
		7,076	264	.68	66.6 / 62.8	60.9	.39	338	.67	60.3 / 59.4	59.0	.57
	76°F	5,200	244	.61	67.3 / 63.7	62.0	.31	328	.59	59.0 / 58.5	58.4	.35
		5,850	270	.61	67.6 / 64.0	62.3	.32	354	.60	60.1 / 59.4	59.2	.42
		6,500	296	.61	67.8 / 64.1	62.3	.34	377	.61	61.0 / 60.2	59.9	.50
		7,076	310	.62	68.6 / 64.6	62.7	.39	396	.62	61.8 / 60.9	60.6	.57
	79°F	5,200	281	.56	69.3 / 65.6	63.9	.31	379	.55	60.3 / 59.8	59.7	.35
		5,850	312	.56	69.6 / 65.8	64.1	.32	409	.56	61.5 / 60.8	60.6	.42
		6,500	344	.56	69.8 / 66.0	64.3	.34	391	.59	64.6 / 63.8	63.5	.75
		7,076	359	.57	70.7 / 66.6	64.8	.39	410	.60	65.4 / 64.5	64.2	.87

Notes for Table:

1) Available with 1 or 2 external circuits (distributors) in interlaced configuration. Circuit capacities (distributors) do not have to be equal. Circuit capacity may be limited to 25 tons per circuit due to distributor size. Special configurations may be available at additional cost.

2) Based on 3/8" or 1/2" tube OD with 1.25" tube spacing (1.00" available), circuited for refrigerant velocity > 1000 fpm, refrigerant PD < 10 psi. Some discontinuities may be noted in MBH, SHR, Air PD, etc due to changes in tube OD and circuiting in order to maintain adequate refrig velocity and PD.

3) Multiply Total MBH by SHR to get Sensible MBH.

4) Values shown are based on 45° SST, 100° LLT, 10° superheat. Entering DB is based on WB shown at 45% RH (DB has minor impact on capacity and SHR). Capacities will be higher at lower evaporator SST's (not recommended for outside air) and capacities will be lower at higher evaporator SST's. Evaporator plots are produced by the coil selection software.

5) Available fin spacings are 8, 10, 12, 14. Available tube diameters are 3/8" and 1/2".

6) The "minimum coil" is 8 fpi at the minimum finned height resulting in less than 500 fpm face velocity when possible. The "maximum coil" is 14 fpi with the maximum allowable finned height. Absolute maximum face velocity is 550 fpm.

REZNOR®

COOLING PERFORMANCE TABLES (cont'd)

Models RPBL & SSCBL with 6 Row DX Coils

Coils Generally for 100% O/A Application in Warm & Humid Climates, Dehumidification												
6 Row DX Coils (R410A)			Minimum Coil					Maximum Coil				
Furnace Size	Entering Wet Bulb (°F)	Cooling Air Flow (scfm)	Total MBH	SHR	Leaving Air DB/WB (°F)	Leaving Air DewPoint (°F)	Air PD (in. WC)	Total MBH	SHR	Leaving Air DB/WB (°F)	Leaving Air DewPoint (°F)	Air PD (in. WC)
400, 800, 1200	67°F	3,300	144	.72	53.3 / 52.8	52.6	.21	174	.69	48.8 / 48.8	48.8	.21
		3,900	161	.73	54.4 / 53.6	53.2	.27	199	.70	49.5 / 49.5	49.5	.27
		4,500	177	.74	55.3 / 54.3	53.8	.34	221	.71	50.3 / 50.3	50.3	.34
		5,200	194	.76	56.3 / 55.1	54.5	.44	247	.71	51.0 / 51.0	51.0	.43
		5,900	218	.76	56.5 / 55.2	54.5	.46	270	.72	51.7 / 51.7	51.7	.52
		7,400	267	.76	56.9 / 55.5	54.7	.51	314	.75	53.1 / 53.1	53.1	.75
		8,069	281	.77	57.5 / 56.0	55.2	.58	331	.76	53.7 / 53.7	53.7	.86
	71°F	3,300	182	.64	54.6 / 54.0	53.8	.21	217	.62	49.5 / 49.5	49.5	.21
		3,900	203	.65	55.9 / 55.1	54.7	.27	248	.63	50.3 / 50.3	50.3	.27
		4,500	223	.66	57.1 / 56.1	55.6	.34	277	.64	51.2 / 51.2	51.2	.34
		5,200	245	.67	58.2 / 56.9	56.2	.44	308	.64	52.2 / 52.2	52.2	.43
		5,900	274	.67	58.5 / 57.1	56.4	.46	337	.65	53.1 / 53.1	53.1	.52
		7,400	334	.68	59.1 / 57.6	56.8	.51	384	.67	55.1 / 55.1	55.1	.75
		8,069	331	.72	60.3 / 59.0	58.4	.71	408	.68	55.7 / 55.7	55.7	.86
	75°F	3,300	225	.58	55.9 / 55.3	55.1	.21	265	.57	50.2 / 50.2	50.2	.21
		3,900	249	.59	57.6 / 56.7	56.3	.27	302	.57	51.3 / 51.3	51.3	.27
		4,500	274	.60	58.9 / 57.8	57.3	.34	336	.58	52.4 / 52.4	52.4	.34
		5,200	302	.60	60.1 / 58.8	58.2	.44	371	.59	53.8 / 53.8	53.8	.43
		5,900	323	.62	61.3 / 59.9	59.3	.46	408	.59	54.6 / 54.6	54.6	.52
		7,400	398	.62	61.8 / 60.2	59.4	.51	482	.60	56.2 / 56.2	56.2	.75
		8,069	409	.64	62.5 / 61.2	60.6	.71	513	.61	56.9 / 56.9	56.9	.86
	79°F	3,300	268	.53	57.6 / 57.0	56.8	.21	315	.52	51.2 / 51.2	51.2	.21
		3,900	302	.53	59.2 / 58.3	57.9	.27	360	.53	52.5 / 52.5	52.5	.27
		4,500	333	.54	60.6 / 59.5	59.0	.34	405	.53	53.4 / 53.4	53.4	.34
		5,200	365	.54	62.1 / 60.7	60.1	.44	453	.53	54.5 / 54.5	54.5	.43
		5,900	398	.55	63.1 / 61.6	60.9	.46	500	.54	55.5 / 55.5	55.5	.52
		7,400	488	.55	63.6 / 62.0	61.3	.51	591	.54	57.3 / 57.3	57.3	.75
		8,069	516	.56	64.5 / 62.7	61.9	.58	628	.55	58.1 / 58.1	58.1	.86
	82°F	3,300	306	.49	58.7 / 58.1	57.9	.21	359	.49	51.7 / 51.7	51.7	.21
		3,900	345	.50	60.4 / 59.5	59.1	.27	412	.49	52.9 / 52.9	52.9	.27
		4,500	380	.50	62.0 / 60.8	60.3	.34	464	.49	54.0 / 54.0	54.0	.34
		5,200	417	.51	63.6 / 62.2	61.6	.44	521	.50	55.1 / 55.1	55.1	.43
		5,900	458	.51	64.5 / 63.0	62.4	.46	574	.50	56.2 / 56.2	56.2	.52
		7,400	562	.51	65.1 / 63.5	62.8	.51	679	.51	58.3 / 58.3	58.3	.75
		8,069	594	.52	66.1 / 64.2	63.4	.58	722	.51	59.1 / 59.1	59.1	.86
500, 600	67°F	3,700	139	.76	56.1 / 55.0	54.4	.40	177	.71	50.8 / 50.8	50.8	.39
		4,450	162	.76	56.6 / 55.4	54.8	.46	204	.73	51.7 / 51.7	51.7	.52
		5,200	191	.76	56.6 / 55.3	54.6	.45	227	.74	52.6 / 52.6	52.6	.67
		6,082	209	.78	57.7 / 56.1	55.2	.58	253	.75	53.5 / 53.5	53.5	.86
	71°F	3,700	177	.67	57.8 / 56.6	56.0	.40	224	.64	51.6 / 51.6	51.6	.39
		4,450	206	.67	58.5 / 57.2	56.5	.46	257	.65	52.8 / 52.8	52.8	.52
		5,200	242	.67	58.4 / 57.1	56.4	.45	288	.66	53.8 / 53.8	53.8	.67
		6,082	266	.68	59.7 / 58.1	57.3	.58	320	.67	54.9 / 54.9	54.9	.86
	75°F	3,700	219	.60	59.6 / 58.4	57.8	.40	276	.58	52.5 / 52.5	52.5	.39
		4,450	255	.60	60.4 / 59.0	58.3	.46	316	.59	54.0 / 54.0	54.0	.52
		5,200	299	.60	60.3 / 58.9	58.2	.45	352	.59	55.2 / 55.2	55.2	.67
		6,082	329	.61	61.8 / 60.1	59.3	.58	371	.62	57.8 / 57.8	57.8	.86
	79°F	3,700	265	.54	61.6 / 60.3	59.7	.40	331	.53	53.7 / 53.7	53.7	.39
		4,450	308	.55	62.5 / 61.1	60.5	.46	365	.54	56.4 / 56.4	56.4	.52
		5,200	361	.55	62.4 / 61.0	60.4	.45	398	.55	58.4 / 58.4	58.4	.99
		6,082	373	.57	65.3 / 63.5	62.7	.58	441	.56	59.9 / 59.9	59.9	1.30
	82°F	3,700	287	.51	64.4 / 63.0	62.4	.40	376	.50	54.5 / 54.5	54.5	.39
		4,450	334	.52	65.3 / 63.8	63.2	.46	409	.51	58.0 / 58.0	58.0	.75
		5,200	392	.52	65.2 / 63.7	63.1	.45	455	.51	59.6 / 59.6	59.6	.99
		6,082	419	.54	67.0 / 65.6	65.1	.71	531	.51	59.8 / 59.8	59.8	.86
700, 1050	67°F	5,200	192	.76	56.5 / 55.2	54.5	.46	239	.72	51.6 / 51.6	51.6	.53
		5,850	212	.76	56.8 / 55.5	54.8	.49	260	.73	52.3 / 52.3	52.3	.64
		6,500	234	.77	56.9 / 55.5	54.7	.51	279	.74	52.9 / 52.9	52.9	.75
		7,076	248	.77	57.4 / 55.9	55.1	.58	294	.75	53.5 / 53.5	53.5	.86
	71°F	5,200	242	.67	58.4 / 57.1	56.4	.46	300	.65	52.9 / 52.9	52.9	.53
		5,850	269	.68	58.7 / 57.3	56.6	.49	325	.66	53.7 / 53.7	53.7	.64
		6,500	296	.68	58.9 / 57.5	56.8	.51	348	.66	54.5 / 54.5	54.5	.75
		7,076	310	.69	59.7 / 58.1	57.3	.58	344	.69	56.3 / 56.3	56.3	1.30
	75°F	5,200	297	.60	60.5 / 59.1	58.4	.46	349	.60	55.4 / 55.4	55.4	.53
		5,850	309	.63	61.7 / 60.5	60.0	.58	381	.60	56.2 / 56.2	56.2	.64
		6,500	339	.63	61.9 / 60.7	60.2	.61	403	.61	57.3 / 57.3	57.3	1.12
		7,076	355	.63	63.1 / 61.4	60.6	.58	425	.62	58.0 / 58.0	58.0	1.30
	79°F	5,200	340	.56	63.7 / 62.2	61.5	.46	421	.54	56.8 / 56.8	56.8	.75
		5,850	398	.55	63.0 / 61.4	60.7	.49	456	.55	57.9 / 57.9	57.9	.93
		6,500	412	.57	64.1 / 62.9	62.4	.61	507	.55	58.0 / 58.0	58.0	.75
		7,076	433	.57	64.9 / 63.5	62.9	.71	539	.55	58.7 / 58.7	58.7	.86
	82°F	5,200	385	.52	65.3 / 64.1	63.6	.55	496	.50	56.9 / 56.9	56.9	.53
		5,850	456	.51	64.5 / 62.9	62.2	.49	542	.50	57.9 / 57.9	57.9	.64
		6,500	482	.52	65.7 / 64.0	63.3	.51	585	.51	58.8 / 58.8	58.8	.75
		7,076	509	.52	66.6 / 64.7	63.9	.58	622	.51	59.6 / 59.6	59.6	.86

Notes for Table:

1) Available with 1 or 2 external circuits (distributors) in interlaced configuration. Circuit capacities (distributors) do not have to be equal. Circuit capacity may be limited to 25 tons per circuit due to distributor size. Special configurations may be available at additional cost.

2) Based on 3/8" or 1/2" tube OD with 1.25" tube spacing (1.00" available), circuited for refrigerant velocity > 1000 fpm, refrigerant PD < 10 psi. Some discontinuities may be noted in MBH, SHR, Air PD, etc due to changes in tube OD and circuiting in order to maintain adequate refrig velocity and PD.

3) Multiply Total MBH by SHR to get Sensible MBH.

4) Values shown are based on 45° SST, 100° LLT, 10° superheat. Entering DB is based on WB shown at 45% RH (DB has minor impact on capacity and SHR). Capacities will be higher at lower evaporator SST's (not recommended for outside air) and capacities will be lower at higher evaporator SST's. Evaporator plots are produced by the coil selection software.

5) Available fin spacings are 8, 10, 12, 14. Available tube diameters are 3/8" and 1/2".

6) The "minimum coil" is 8 fpi at the minimum finned height resulting in less than 500 fpm face velocity when possible. The "maximum coil" is 14 fpi with the maximum allowable finned height. Absolute maximum face velocity is 550 fpm.

REZNOR®

COOLING PERFORMANCE TABLES (cont'd)

Models RPBL with Chilled Water Coils

Performance based on entering air conditions – 80°F Dry Bulb and 67°F Wet Bulb

Capacity based on 80°F EDB, 67°F EWB, 45°F Entering Water, 70 GPM

Model RPBL				4 Row						6 Row					
Furnace Models	Cooling Airlfow (scfm)	Face Velocity (sfpm)	Fin Spacing (fpi)	Total MBH	Sens. MBH	DB (°F)	WB (°F)	APD (in. w.c.)	FPD (ft. w.c.)	Total MBH	Sens. MBH	DB (°F)	WB (°F)	APD (in. w.c.)	FPD (ft. w.c.)
400	4020	270	8	170	113	54	53	0.14	8.6	202	130	50	50	0.21	11.9
			10	183	120	53	52	0.17	8.6	213	136	49	49	0.26	11.9
			12	193	126	51	51	0.20	8.6	221	140	48	48	0.30	11.9
	8200	550	8	247	180	60	58	0.46	8.6	309	216	56	55	0.68	11.9
			10	269	195	58	57	0.54	8.6	331	230	54	54	0.82	11.9
			12	286	207	57	56	0.63	8.6	349	240	53	53	0.95	11.9
500, 600	3030	270	8	130	86	54	53	0.14	7.5	155	100	50	50	0.21	10.2
			10	140	92	52	52	0.17	7.5	163	104	49	49	0.26	10.2
			12	148	96	51	51	0.20	7.5	169	107	48	48	0.30	10.2
	6180	550	8	192	138	59	57	0.46	7.5	241	167	55	54	0.68	10.2
			10	210	150	58	56	0.54	7.5	259	178	54	53	0.82	10.2
			12	224	159	56	55	0.63	7.5	273	185	53	52	0.95	10.2
700	3530	270	8	150	100	54	53	0.14	8.0	179	115	50	50	0.21	11.0
			10	162	107	52	52	0.17	8.0	188	120	49	49	0.26	11.0
			12	171	111	51	51	0.20	8.0	196	124	48	48	0.30	11.0
	7190	550	8	220	159	59	57	0.46	8.0	276	192	56	55	0.68	11.0
			10	240	173	58	56	0.54	8.0	296	204	54	54	0.82	11.0
			12	256	183	57	56	0.63	8.0	312	213	53	53	0.95	11.0
800	4020	270	8	170	113	54	53	0.14	8.6	202	130	50	50	0.21	11.9
			10	183	120	53	52	0.17	8.6	213	136	49	49	0.26	11.9
			12	193	126	51	51	0.20	8.6	221	140	48	48	0.30	11.9
	8200	550	8	247	180	60	58	0.46	8.6	309	216	56	55	0.68	11.9
			10	269	195	58	57	0.54	8.6	331	230	54	54	0.82	11.9
			12	286	207	57	56	0.63	8.6	349	240	53	53	0.95	11.9
1050	3530	270	8	150	100	54	53	0.14	8.0	179	115	50	50	0.21	11.0
			10	162	107	52	52	0.17	8.0	188	120	49	49	0.26	11.0
			12	171	111	51	51	0.20	8.0	196	124	48	48	0.30	11.0
	7190	550	8	220	159	59	57	0.46	8.0	276	192	56	55	0.68	11.0
			10	240	173	58	56	0.54	8.0	296	204	54	54	0.82	11.0
			12	256	183	57	56	0.63	8.0	312	213	53	53	0.95	11.0
1200	4020	270	8	170	113	54	53	0.14	8.6	202	130	50	50	0.21	11.9
			10	183	120	53	52	0.17	8.6	213	136	49	49	0.26	11.9
			12	193	126	51	51	0.20	8.6	221	140	48	48	0.30	11.9
	8200	550	8	247	180	60	58	0.46	8.6	309	216	56	55	0.68	11.9
			10	269	195	58	57	0.54	8.6	331	230	54	54	0.82	11.9
			12	286	207	57	56	0.63	8.6	349	240	53	53	0.95	11.9

CONVERSIONS:

1 m^3/s = 2120 cfm

1 m/s = 197 fpm

1 ton cooling = 1/12 mbh

1 kW = 3.41 mbh

(°F-32) 5/9 = °C

1 in wc = 249 pascals

1 lb = 0.45 kg

NOTES :

1) Coil Performance Data certified in accordance with ARI Standard 410

2) Maximum recommended coil face velocity is 550 sfpm

3) Consult your Sales Representative for special coil requirements

REZNOR®

COOLING PERFORMANCE TABLES (cont'd)

Models SSCBL with Chilled Water Coils

Performance based on entering air conditions – 80°F Dry Bulb and 67°F Wet Bulb

Capacity based on 80°F EDB, 67°F EWB, 45°F Entering Water, 70 GPM

Model SSCBL				4 Row						6 Row					
Furnace Models	Cooling Airlfow (scfm)	Face Velocity (sfpm)	Fin Spacing (fpi)	Total MBH	Sens. MBH	DB (°F)	WB (°F)	APD (in. w.c.)	FPD (ft. w.c.)	Total MBH	Sens. MBH	DB (°F)	WB (°F)	APD (in. w.c.)	FPD (ft. w.c.)
500, 600	3030	270	8	130	86	54	53	0.14	7.5	155	100	50	50	0.21	10.2
			10	140	92	52	52	0.17	7.5	163	104	49	49	0.26	10.2
			12	148	96	51	51	0.20	7.5	169	107	48	48	0.30	10.2
	6180	550	8	192	138	59	57	0.46	7.5	241	167	55	54	0.68	10.2
			10	210	150	58	56	0.54	7.5	259	178	54	53	0.82	10.2
			12	224	159	56	55	0.63	7.5	273	185	53	52	0.95	10.2
700, 1050	3530	270	8	150	100	54	53	0.14	8.0	179	115	50	50	0.21	11.0
			10	162	107	52	52	0.17	8.0	188	120	49	49	0.26	11.0
			12	171	111	51	51	0.20	8.0	196	124	48	48	0.30	11.0
	7190	550	8	220	159	59	57	0.46	8.0	276	192	56	55	0.68	11.0
			10	240	173	58	56	0.54	8.0	296	204	54	54	0.82	11.0
			12	256	183	57	56	0.63	8.0	312	213	53	53	0.95	11.0
400, 800, 1200	4020	270	8	170	113	54	53	0.14	8.6	202	130	50	50	0.21	11.9
			10	183	120	53	52	0.17	8.6	213	136	49	49	0.26	11.9
			12	193	126	51	51	0.20	8.6	221	140	48	48	0.30	11.9
	8200	550	8	247	180	60	58	0.46	8.6	309	216	56	55	0.68	11.9
			10	269	195	58	57	0.54	8.6	331	230	54	54	0.82	11.9
			12	286	207	57	56	0.63	8.6	349	240	53	53	0.95	11.9

CONVERSIONS:

1 m^3/s = 2120 cfm

1 m/s = 197 fpm

1 ton cooling = 1/12 mbh

1 kW = 3.41 mbh

(°F-32) 5/9 = °C

1 in wc = 249 pascals

1 lb = 0.45 kg

NOTES :

1) Coil Performance Data certified in accordance with ARI Standard 410

2) Maximum recommended coil face velocity is 550 sfpm

3) Consult your Sales Representative for special coil requirements

REZNOR®

COOLING PERFORMANCE TABLES (cont'd)

Models RPBL with Chilled Water Coils

Performance based on entering air conditions – 95°F Dry Bulb and 75°F Wet Bulb

Capacity based on 95°F EDB, 75°F EWB, 45°F Entering Water, 70 GPM

Model RPBL				4 Row						6 Row					
Furnace Models	Cooling Airlfow (scfm)	Face Velocity (sfpm)	Fin Spacing (fpi)	Total MBH	Sens. MBH	DB (°F)	WB (°F)	APD (in. w.c.)	FPD (ft. w.c.)	Total MBH	Sens. MBH	DB (°F)	WB (°F)	APD (in. w.c.)	FPD (ft. w.c.)
400	4020	270	8	252	159	59	57	0.14	8.6	299	184	53	53	0.21	11.8
			10	271	170	56	55	0.17	8.6	315	192	51	51	0.26	11.8
			12	285	178	55	54	0.20	8.6	328	198	50	50	0.30	11.8
	8200	550	8	362	253	67	63	0.46	8.6	452	304	61	60	0.68	11.8
			10	393	274	64	62	0.54	8.6	485	323	59	58	0.82	11.8
			12	418	291	63	61	0.63	8.6	511	336	57	57	0.95	11.8
500, 600	3030	270	8	193	121	58	57	0.14	7.5	230	141	53	52	0.21	10.1
			10	208	130	56	55	0.17	7.5	242	147	51	51	0.26	10.1
			12	219	136	54	54	0.20	7.5	251	151	49	48	0.30	10.1
	6180	550	8	282	194	66	63	0.46	7.5	355	234	60	59	0.68	10.1
			10	307	211	64	61	0.54	7.5	381	249	58	57	0.82	10.1
			12	328	223	62	60	0.63	7.5	401	260	57	56	0.95	10.1
700	3530	270	8	223	141	59	57	0.14	8.0	265	162	53	52	0.21	11.0
			10	240	150	56	55	0.17	8.0	279	170	51	51	0.26	11.0
			12	253	157	54	54	0.20	8.0	290	175	50	50	0.30	11.0
	7190	550	8	322	224	66	63	0.46	8.0	405	270	61	59	0.68	11.0
			10	351	243	64	62	0.54	8.0	434	286	59	58	0.82	11.0
			12	374	258	62	61	0.63	8.0	457	299	57	57	0.95	11.0
800	4020	270	8	252	159	59	57	0.14	8.6	299	184	53	53	0.21	11.8
			10	271	170	56	55	0.17	8.6	315	192	51	51	0.26	11.8
			12	285	178	55	54	0.20	8.6	328	198	50	50	0.30	11.8
	8200	550	8	362	253	67	63	0.46	8.6	452	304	61	60	0.68	11.8
			10	393	274	64	62	0.54	8.6	485	323	59	58	0.82	11.8
			12	418	291	63	61	0.63	8.6	511	336	57	57	0.95	11.8
1050	3530	270	8	223	141	59	57	0.14	8.0	265	162	53	52	0.21	11.0
			10	240	150	56	55	0.17	8.0	279	170	51	51	0.26	11.0
			12	253	157	54	54	0.20	8.0	290	175	50	50	0.30	11.0
	7190	550	8	322	224	66	63	0.46	8.0	405	270	61	59	0.68	11.0
			10	351	243	64	62	0.54	8.0	434	286	59	58	0.82	11.0
			12	374	258	62	61	0.63	8.0	457	299	57	57	0.95	11.0
1200	4020	270	8	252	159	59	57	0.14	8.6	299	184	53	53	0.21	11.8
			10	271	170	56	55	0.17	8.6	315	192	51	51	0.26	11.8
			12	285	178	55	54	0.20	8.6	328	198	50	50	0.30	11.8
	8200	550	8	362	253	67	63	0.46	8.6	452	304	61	60	0.68	11.8
			10	393	274	64	62	0.54	8.6	485	323	59	58	0.82	11.8
			12	418	291	63	61	0.63	8.6	511	336	57	57	0.95	11.8

CONVERSIONS:

1 m^3/s = 2120 cfm

1 m/s = 197 fpm

1 ton cooling = 1/12 mbh

1 kW = 3.41 mbh

(°F-32) 5/9 = °C

1 in wc = 249 pascals

1 lb = 0.45 kg

NOTES :

1) Coil Performance Data certified in accordance with ARI Standard 410

2) Maximum recommended coil face velocity is 550 sfpm

3) Consult your Sales Representative for special coil requirements

REZNOR®

COOLING PERFORMANCE TABLES (cont'd)

Models SSCBL with Chilled Water Coils

Performance based on entering air conditions – 95°F Dry Bulb and 75°F Wet Bulb

Capacity based on 95°F EDB, 75°F EWB, 45°F Entering Water, 70 GPM

Model SSCBL				4 Row						6 Row					
Furnace Models	Cooling Airlfow (scfm)	Face Velocity (sfpm)	Fin Spacing (fpi)	Total MBH	Sens. MBH	DB (°F)	WB (°F)	APD (in. w.c.)	FPD (ft. w.c.)	Total MBH	Sens. MBH	DB (°F)	WB (°F)	APD (in. w.c.)	FPD (ft. w.c.)
500, 600	3030	270	8	193	121	58	57	0.14	7.5	230	141	53	52	0.21	10.1
			10	208	130	56	55	0.17	7.5	242	147	51	51	0.26	10.1
			12	219	136	54	54	0.20	7.5	251	151	49	48	0.30	10.1
	6180	550	8	282	194	66	63	0.46	7.5	355	234	60	59	0.68	10.1
			10	307	211	64	61	0.54	7.5	381	249	58	57	0.82	10.1
			12	328	223	62	60	0.63	7.5	401	260	57	56	0.95	10.1
700, 1050	3530	270	8	223	141	59	57	0.14	8.0	265	162	53	52	0.21	11.0
			10	240	150	56	55	0.17	8.0	279	170	51	51	0.26	11.0
			12	253	157	54	54	0.20	8.0	290	175	50	50	0.30	11.0
	7190	550	8	322	224	66	63	0.46	8.0	405	270	61	59	0.68	11.0
			10	351	243	64	62	0.54	8.0	434	286	59	58	0.82	11.0
			12	374	258	62	61	0.63	8.0	457	299	57	57	0.95	11.0
400, 800, 1200	4020	270	8	252	159	59	57	0.14	8.6	299	184	53	53	0.21	11.8
			10	271	170	56	55	0.17	8.6	315	192	51	51	0.26	11.8
			12	285	178	55	54	0.20	8.6	328	198	50	50	0.30	11.8
	8200	550	8	362	253	67	63	0.46	8.6	452	304	61	60	0.68	11.8
			10	393	274	64	62	0.54	8.6	485	323	59	58	0.82	11.8
			12	418	291	63	61	0.63	8.6	511	336	57	57	0.95	11.8

CONVERSIONS:

1 m^3/s = 2120 cfm

1 m/s = 197 fpm

1 ton cooling = 1/12 mbh

1 kW = 3.41 mbh

(°F-32) 5/9 = °C

1 in wc = 249 pascals

1 lb = 0.45 kg

NOTES :

1) Coil Performance Data certified in accordance with ARI Standard 410

2) Maximum recommended coil face velocity is 550 sfpm

3) Consult your Sales Representative for special coil requirements

Coil Selection Requirements

A. Required Application Information

- For any coil selection the following information is required;
  - Cabinet option number based on the furnace model. (See the **Cabinet Option Designations**)
  - Airflow in standard cubic feet per minute (scfm). (For conversion from actual to standard see **Conversion to Standard Airflow**)
- **Note:** To avoid conditions favorable to condensate blow-off, equipment should be selected so that coil face velocities DO NOT exceed 550 sfpm if the coil will experience a latent load.
  - Conditions (DB/WB) temperatures entering the coil
  - Cooling capacity requirements in MBH or Tons

B. Required Chilled Water Coil Information

- For water coils the following additional information must be supplied;
  - Entering fluid temperature, °F
  - Leaving fluid temperature, °F or fluid flow rate in gallons per minute (gpm)
  - Percentage of glycol and type (ethylene or propylene glycol)
- **Note:** For water coil applications where temperatures may fall below 32°F, coils should be drained per standard maintenance procedures. If a glycol is used, always test the glycol percentage prior to winter months to ensure adequate protection against freezing.
  - Maximum allowable fluid-side pressure drop through the coil, (ft w.c.)

REZNOR®

Coil Selection Requirements (cont'd)

C. Required Refrigerant Coil Information

For refrigerant coils the following additional information must be supplied;
- Evaporator temperature, °F
- Liquid temperature, °F
- Consult the factory for special circuiting or refrigerants

D. Special Requirements

The following special options are available on all coil types and sizes.
- Phenolic coatings
- Stainless steel coil casing material
- Copper fins
- **Note:** For special requirements not listed here, contact your Reznor Sales Representative.

E. Entering Air Conditions

Design dry bulb and wet bulb temperatures must be considered when choosing a coil. For applications using a percentage of outdoor air, the condition of the "mixed air" entering the coil can be calculated as shown in the following steps.
- Mixed Dry Bulb Temperature

The mixed dry bulb temperature is a simple arithmetic average of the return and outside air temperatures weighted by the percentage of the standard cfm in each air stream.

Example:

1000 acfm of outside air @ 95°F (db) is mixed with 5000 acfm of return air @ 80°F (db). The elevation is 2000 ft. above sea level.

Step 1

Determine the standard airflow (scfm) by adjusting the actual (acfm) with temperature, F_t, and elevation, F_e, correction factors; see Tables 10 and 11 to determine the value of these factors.

Correction Factors for **Outside Air** --
- F_t = 0.05 and
- F_e = 0.08

Standard airflow = acfm / (1+ F_t + F_e)
- 1000 / 1.13 = 885 scfm

Correction Factors for **Return Air** --
- F_t = 0.02 and
- F_e = 0.08

Standard airflow = acfm / (1 + F_t + F_e)
- 5000 / 1.10 = 4545 scfm

Total supply airflow = 885 + 4545 = 5430 scfm

Step 2

The **mixed air dry bulb temperature** is the average as shown below.
- {(95 x 885) + (80 x 4545)} / 5430 = **82.4°F**
- Mixed Wet Bulb Temperature

The mixed wet bulb temperature must be determined using a psychrometric chart.

Example

1000 acfm of outside air @ 75°F (wb) is mixed with 5000 acfm of return air @ 67°F (wb).

Step 1

Using Table 12, determine the enthalpy of each air stream.
- Outside air at 75°F (wb) = 38.6 Btu/lb
- Return air at 67°F (wb) = 31.6 Btu/lb.

Step 2

The enthalpy of the mixed airstream is determined by calculating the average as shown below.
- {(38.6 x 885) + (31.6 x 4545)} / 5430 = 32.7 Btu/lb

Step 3

The mixed airstream wet bulb temperature can be found in Table 12 corresponding to the mixed enthalpy value of 32.7 Btu/lb.
- T (wb) = **68.3 °F**
- Entering Air Condition

Entering air condition is typically written as T(db) / T(wb). In the above example, the mixed air condition is 82.4°F / 68.3°F.

F. Conversion to Standard Airflow

A fan must be selected using airflow calculated at the actual conditions of operation. Since a fan is a "constant volume" device, the **actual CFM (ACFM)** is required for analysis and properly determining motor requirements. To specify a coil, it is important that the airflow be converted into **standard CFM (SCFM)** or air at a density of 0.075 lb/ft^3. Cooling and heating coils must be selected using SCFM. Up to an altitude of approximately 1,500 feet above sea level, very little error is introduced if ACFM is substituted in the selection of a coil. For altitudes that exceed 1,500 feet above sea level, the coil should always be selected using SCFM. The relationship between ACFM and SCFM is shown by the following equation: SCFM = ACFM x (Actual Density / 0.075). From this equation it is obvious that the relationship between SCFM and ACFM is dependent upon air density which is a function of blower temperature and elevation. Tables 10 and 11 contain correction factors for conversion from ACFM to SCFM.

The factors are used in the following manner: SCFM = ACFM (1+F) where F may be a correction factor for temperature (F_T), or elevation (F_E), or both (F_E + F_T).
- **Example**: A cooling coil must be selected for an application that is 3,500 ft. above sea level with entering air of 90°F dry bulb. The blower delivers 10,000 ACFM. What is the SCFM seen by the coil?
- **Answer:** For 90°F the temperature correction factor in Table 10 is 0.04. At 3,500 feet, the elevation correction factor from Table 11 is 0.14. The answer is found by adding the two correction factors and dividing as shown here.
- SCFM = 10,000 ACFM / (1+0.14+0.04) = 8,475 SCFM

Temperature Correction Factors

°F	-40	-20	0	20	40	70	80	90	100	120
F_T	-0.21	-0.17	-0.13	-0.09	-0.06	0.00	0.02	0.04	0.06	0.09

Note : Standard temperature is 70°F.

Elevation Correction Factors

	Elevation, Ft.									
	1,500	2,000	2,500	3,000	3,500	4,000	4,500	5,000	6,000	7,000
F_E	0.06	0.08	0.10	0.12	0.14	0.16	0.18	0.20	0.25	0.30

Note : Applications for elevations below 1,500 ft. do not require the use of an elevation correction factor.

REZNOR®

COOLING COIL MODULE WITH DX OR CHILLED WATER COIL

Description

Reznor air handling units have a wide selection of factory installed custom designed DX and Chilled Water coils tailor made to the application, from 100% outside air in severe climates to 100% return air in mild climates. Coil application is designed by Reznor Software such as RezQuote™ or RezPro® Toolbox. The performance data is in compliance with ARI Standard 410. Design/Performance Data Sheets are generated by the software or are available from your Reznor Representative by submitting the Request Form found later in this catalog.

The double wall insulated draw-through coil cabinet is factory assembled to the system blower cabinet. Both DX and Chilled Water Coil cabinets are available. Both sides of the cooling coil section have easily removable door panels for routine coil inspection and cleaning. The removable stainless steel drain pan has an exterior 1" NPT connection.

- Reznor Coil Selection Software is downloadable from www.RezSpec.com

Primary considerations are:

1) Sizing the air handler unit to meet both heating and cooling requirements.
2) Deciding on condenser capacity and staging.
3) Specifying cooling controls

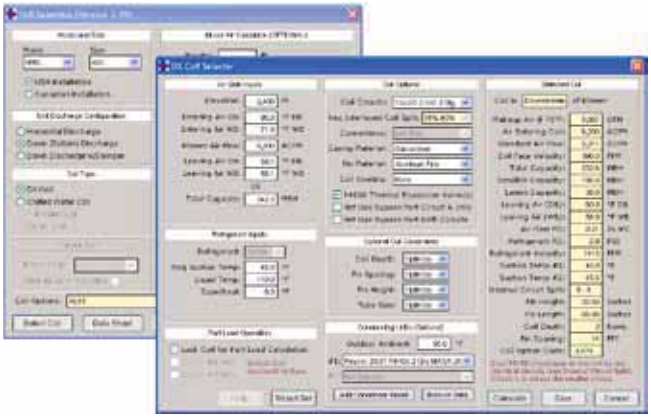
Approximate cooling airflow ranges and capacity ranges (sea level at 45° suction and 45° chilled water) are shown in the DX and Chilled Water Performance Range Tables. Somewhat higher or lower capacities will result from changes in elevation, operating temperatures, flow rates, etc.

Cooling Coil Module Options

DX Coil and dH Coil Circuiting	Single Circuit
	50-50 Dual Circuit
	1/3 - 2/3 Split Circuit
Coil Casing	Galvanized Steel
	Stainless Steel
Refrigerant Options	R22, R134a, R407c, R410a
Filters	1", 2", or 4" Pleated
	1" Permanent
	1" Disposable
Coil Material	Copper Tube with Aluminum Fins
	Copper Tube with Copper Fins
Coil Coating	ElectroFin™ Polymeric Coating
Cabinet	Double wall w/ insulation
	Double wall with high desnity insulation

ElectroFin™ is a registered trademark of AST ElectroFin, Inc.

NOTE: To select the correct coil, you (or your Reznor Representative) must run the Reznor Coil Selection Software Program.



REZNOR®

COIL SELECTION SOFTWARE

The Reznor Coil Selection Software (DX selection, shown above) that is part of RezQuote™ and RezPro® Toolbox packages will optimally design heating and cooling coils for your specific application for all Reznor models utilizing custom coils.

Exact design and performance are shown on coil data sheets output by Reznor coil selection software. You may request or download a copy of the software or submit the coil request form (found at the end of this section on cooling) to your Reznor Representative, who can then provide you with a detailed coil run.

DX Coil Controls and Circuits

DX coils are available for one, two, or three stage operation. Two or three stage operation is generally recommended for makeup air, where the load on the coil may vary considerably.

Two stage DX cooling operation is accomplished by two equal capacity interlaced coil circuits for connection to a two stage condensing unit or two equal capacity single stage condensers. Three stage operation is accomplished by two unequal interlaced circuits, with approximately 1/3 of the coil tubes on the first circuit and 2/3 of the coil tubes on the second. Two condensing units of unequal capacity are used – one 5 ton and one 10 ton for example. The first circuit is connected to the smaller condenser and the second to the larger. The 3 stage digital cooling control system in the unit will activate the first condenser on first stage. On second stage, the first condenser is deactivated and the larger second condenser is activated. On third stage, both condensers are activated. TXV's, liquid line solenoids, any desired hot gas bypass valves, and condensing units are provided by others. Alternate analog heating controls are available for cooling controls by others or heating/cooling by room thermostat only. Call your Reznor Representative for special requirements.

Coil Design – DX Coils

Individual coils are custom designed and internally circuited by Reznor coil selection/design software to optimize for the exact conditions specified. Variables are:

External Circuiting: Single (one stage), Dual 50-50 (2 stage), Dual 1/3-2/3 (3 stage)

Refrigerants: R410a

Rows: 2, 3, 4, or 6

Fins per Inch: 8, 10, 12, or 14

Tube OD: 1/2" (standard) or 3/8" (low load)

Fin Height: 20", 22.5", or 25" (75 to 150 sizes)

30", 32.5", or 35" (175 to 400A sizes)

Internal Circuiting: The number of internal coil circuits is thermodynamically optimized, but circuits may be increased to decrease refrigerant pressure drop or decreased to increase refrigerant velocity. Refrigerant velocity should be above 1000 fpm and refrigerant pressure drop should be less than 8 psi. When coil loads are light and refrigerant velocity would be less than 1100 fpm with 1/2" tube, 3/8" tube is used to improve refrigerant velocity . Note that higher refrigerant velocities are available with 20", 25", 30" and 35" height coils and lower refrigerant pressure drop with optimal thermodynamic efficiency are available with 22.5" and 32.5" height coils (due to internal circuiting). In general, preference is given to coils having the lowest air pressure drop, which favors taller fin heights.

Coil Design - Chilled Water Coils

Individual coils are custom designed and internally circuited by Reznor coil selection/design software to optimize for the exact conditions specified. Variables are:

Refrigerants: Water, Ethylene Glycol(%), or Propylene Glycol(%)

Rows: 4 or 6

Fins per Inch: 6, 8, 10, 12, or 14

Tube OD: 1/2

Internal Circuiting: Quarter, Half, Three Quarter, or Single serpentine

Quarter circuit coils are used for low flow rates and have high pressure drops. Full circuit coils are for high flow rates and have low pressure drops. Half and Three Quarter circuit coils are in between. The best circuiting for a given application can be optimized based on flow rate, pressure drop and output requirements.

Chilled water coil performance is significantly diminished by glycol, higher percentages causing lower performance. The unit size/coil face may have to be increased to achieve adequate cooling performance with glycol in some cases. See approximate derates in the table below:

Chilled Water Coil Output Derate (from pure water) for Glycol						
Glycol Type	% Glycol by Wt	12%	20%	28%	36%	40%
Ethylene	Derate	**2.7%**	**4.2%**	**6.4%**	**10.1%**	**11.7%**
	Freezing Point ºF	24.7	17.9	9.2	-1.5	-8.1
Propylene	Derate	**3.9%**	**7.0%**	**13.6%**	**22.9%**	**28.2%**
	Freezing Point ºF	24.9	19.2	2.2	0.8	-6.0

MODEL SSCBL
INDOOR HEATING AND MAKEUP AIR UNITS
(SEPARATED COMBUSTION)

GENERAL

Provide packaged heating and makeup air unit as Reznor® brand equipment. These units shall be the SSCBL series with power-vented separated combustion 80% thermal efficient gas furnaces, arranged for suspension or mounting on a (slab) (post and rail).

CABINET

The (single-wall) (double-wall) insulated blower cabinet (and coil cabinet) is (are) to be arranged for (recirculated) (makeup) (combination recirculated and makeup) air. Inlet air shall be supplied through (horizontal cabinet opening) (outdoor cabinet with bottom inlet opening) (cabinet with both horizontal and bottom air inlet openings) (100% outside air damper with motor) (modulating outside air and return air mixing dampers) (alternating 100% outside air or 100% return air with 2-position damper motor) (modulating 100% outside air and 100% return air mixing damper with remote manual dial [potentiometer]) (100% outside air and 100% return air dampers with modulating motor controlled by pressure null switch) (modulating 100% outside air and 100% return air mixing damper with DDC control).

BLOWER

The units are to include a centrifugal blower and filter rack with (2" disposable) (2" permanent) (2" pleated) filters, factory installed. Motor shall be (open drip-proof) (totally enclosed) and motors should meet EISA specifications for efficiency with (adjustable belt drive) (variable frequency drive with (soft start) (2-speed) (DDC signal from remote device) (other) control). Include all other required controls.

HEATING CONTROLS

All units shall be equipped for use with (natural) (propane) gas, (120/1) (208/1) (230/1) (208/3) (230/3) (460/3) (575/3) supply voltage, 24-volt control transformer, automatic power venter, (motor contactor) (motor starter), and a(n) intermittent spark pilot (intermittent spark pilot with timed lockout). Unit shall have a(n) (one-stage gas control [with relays] [with thermostat]) (two-stage gas control [with relays] [with thermostat]) (electronic modulation - 50%-100% turndown - gas control) (two-stage gas control from ductstat per furnace section) (electronic two-stage gas control using ductstat with remote temperature adjustment [and temperature display] per furnace section) (two-stage gas control for dual furnace units [using a ductstat with remote temperature adjustment {and temperature display}]) (three-stage gas control for triple furnace units) (electronic three-stage gas controls for triple furnace units using a ductstat with remote temperature selector [and temperature display]) (electronic modulation - 50%-100% turndown - with ductstat and remote temperature selector) (electronic modulation with DDC controls) (electronic modulation gas control with four to one turndown ratio and remote temperature selector).

HEAT EXCHANGER

The gas furnace shall contain a heat exchanger of (aluminized) (E-3 [409] stainless) steel, die-formed burners of (aluminized) (E-3 [409] stainless) steel, and an (aluminized) (E-3 [409] stainless) steel drip pan. The furnace(s) shall be equipped with all required safety and limit controls.

OPTIONAL ACCESSORIES

The following accessories shall be provided: (convenience outlet), (air proving switch), (high ambient burner cutoff), (firestat[s]), (freezestat), (summer/winter control), (remote console with required lights and switches) (high and low gas pressure switches), (evaporative cooler), (double wall cabinet construction) (cooling coil cabinet with [DX] [chilled water] coil).

CERTIFICATION

The duct furnace and the packaged heating and makeup air system shall be design-certified to ANSI and CSA Standards.

Manufacturer must have minimum of forty (40) years of experience with this type of makeup air heating equipment. See drawings and schedules for quantities, sizes and capacities.

MODEL RPBL

ROOF MOUNTED HEATING AND MAKEUP AIR UNITS (POWER-VENTED)

GENERAL

Provide packaged, roof-mounted heating and make up air units as Reznor® brand equipment. These units shall be the RPBL series designed for 80% thermal efficiency with power-vented gas furnaces, arranged for roof mounting on a (field-assembled curb) (slab) (post and rail). The units are to be arranged for field duct connection with horizontal (downturn plenum) supply connection at discharge and horizontal (and/or bottom) inlet connection.

CABINET

The single (double) wall insulated blower cabinet (and coil cabinet) is (are) to be arranged for (recirculated) (makeup) (combination recirculated and makeup) air. Inlet air shall be supplied through (horizontal cabinet opening) (bottom inlet opening) (both horizontal and bottom air inlet openings with manual dampers - 30% outside air) (both horizontal and bottom air inlet openings with motorized dampers - 30% outside air) (100% outside air damper with damper motor - on/off) (modulating outside air and return air mixing dampers) (alternating 100% outside air or 100% return air with 2-position damper motor) (modulating 100% outside air and 100% return air mixing damper with remote manual dial [potentiometer]) (modulating 100% outside air and 100% return air mixing damper with DDC control). (Outside air hood with moisture eliminator louvers to be shipped separately.)

BLOWER

The units are to include a centrifugal blower and filter rack with (2" disposable) (2" permanent) (2" pleated) filters, factory installed. Motor shall be (open drip-proof) (totally enclosed) and motors shall meet EISA specifications for efficiency with (adjustable belt drive) (variable frequency drive with (soft start) (2-speed) (DDC signal from remote device) (other) control). Include all other required controls.

HEATING CONTROLS

All units shall be equipped for use with (natural) (propane) gas (208/1) (230/1) (208/3) (230/3) (460/3) (575/3) supply voltage, 24-volt control transformer, automatic power venter, (motor contactor) (motor starter), (intermittent spark pilot [with timed lockout]), and a (one-stage) (two-stage [from ductstat]) (electronic two-stage using ductstat [with remote temperature adjustment] [with remote temperature adjustment and temperature display]) (three-stage) (electronic three-stage using ductstat with remote temperature adjustment [and temperature display]) (electronic modulation with DDC controls) (electronic modulation gas control with four to one turndown ratio and remote temperature selector) (electronic modulation with 2:1 or 4:1 turndown ration) gas control system.

HEAT EXCHANGER

The gas furnace(s) shall contain a heat exchanger of (aluminized) (E-3 [409] stainless) steel, die-formed burners of (aluminized) (E-3 [409] stainless) steel, and an (aluminized) (E-3 [409] stainless) steel drip pan.

OPTIONAL ACCESSORIES

The following accessories shall be provided: (convenience outlet), (air proving switch), (high ambient burner cutoff), (firestat[s]), (freezestat), summer/winter control), (remote console with required lights and switches), (high and low gas pressure switches), (outside air screened hood with moisture-eliminating louvers), (evaporative cooler), (downturn plenum), (double wall cabinet construction), (2-position discharge damper).

CERTIFICATION

All gas-fired packaged heating equipment must bear the C.S.A. label. The manufacturer must have a minimum of forty (40) years experience with this type of makeup air heating equipment.

Unit shall be warranted for 12 months from date of installation or 18 months from date of shipment, whichever occurs first.

See drawings and schedules for quantities, sizes and capacities.

MODEL RBL

OUTDOOR MOUNTED CABINET BLOWER

GENERAL

Provide roof-mounted cabinet blower, air handler units as Reznor® brand equipment. These units shall be Model RBL, arranged for roof mounting on a (field-assembled curb) (slab) (post and rail). The units are to be arranged for field duct connection with horizontal (downturn plenum) supply connection at discharge and horizontal (and/or bottom) inlet connection.

CABINET

The single (double) wall insulated blower cabinet (and coil cabinet) is (are) to be arranged for (recirculated) (makeup) (combination recirculated and makeup) air. Inlet air shall be supplied through (horizontal cabinet opening) (bottom inlet opening) (both horizontal and bottom air inlet openings) (both horizontal and bottom air inlet openings with manual dampers - 30% outside air) (both horizontal and bottom air inlet openings with motorized dampers - 30% outside air) (100% outside air damper with damper motor - on/off) (modulating outside air and return air mixing dampers) (alternating 100% outside air or 100% return air with 2-position damper motor) (modulating 100% outside air and 100% return air mixing damper with remote manual dial [potentiometer]) (modulating 100% outside air and 100% return air mixing damper with DDC control). (Outside air hood with moisture eliminator louvers to be shipped separately.)

BLOWER

The units are to include a centrifugal blower, (open drip-proof) (totally enclosed) blower motor, and an adjustable belt drive, filter (rack with 2" [disposable] [permanent] [pleated] filters, factory installed). Include all required controls, dampers, and inlets to provide an air control cycle of (100% outside air inlet and 100% return air inlet with dampers and [manual dial/potentiometer] [2-position motor] [modulating damper motor and mixed air controller]) (30% outdoor air inlet, hood [with manual locking damper] [with motorized damper] and bottom inlet) .

OPTIONAL ACCESSORIES

The following accessories shall be provided: (summer/winter control), (outside air screened hood with moisture-eliminating louvers), (evaporative cooler), (downturn plenum), (double wall cabinet construction), (2-position discharge damper).

CERTIFICATION

The manufacturer must have a minimum of forty (40) years experience with this type of air handling equipment.

Unit shall be warranted for 12 months from date of installation or 18 months from date of shipment, whichever occurs first.

See drawings and schedules for quantities, sizes and capacities.

REZNOR®

NOTES

REZNOR®

Enthalpy of Saturated Air for Various Wet Bulb Temperatures

Wet Bulb Temp, [deg.F]	Enthalpy [Btu / lb]
50	20.4
50.5	20.6
51	20.9
51.5	21.2
52	21.4
52.5	21.7
53	22
53.5	22.3
54	22.6
54.5	22.9
55	23.2
55.5	23.5
56	23.8
56.5	24.1
57	24.4

Wet Bulb Temp, [deg.F]	Enthalpy [Btu / lb]
57.5	24.7
58	25.1
58.5	25.4
59	25.7
59.5	26.1
60	26.4
60.5	26.8
61	27.1
61.5	27.5
62	27.8
62.5	28.2
63	28.6
63.5	28.9
64	29.3
64.5	29.7

Wet Bulb Temp, [deg.F]	Enthalpy [Btu / lb]
65	30.1
65.5	30.4
66	30.8
66.5	31.2
67	31.6
67.5	32
68	32.4
68.5	32.9
69	33.3
69.5	33.7
70	34.1
70.5	34.6
71	35
71.5	35.4
72	35.9

Wet Bulb Temp, [deg.F]	Enthalpy [Btu / lb]
72.5	36.3
73	36.8
73.5	37.2
74	37.7
74.5	38.2
75	38.6
75.5	39.1
76	39.6
76.5	40
77	40.5
77.5	41
78	41.5
78.5	42
79	42.5
79.5	43

General Note : Enthalpy is approximately constant with constant wet bulb temperature. There is a slight variation with dry bulb temperature, but the variation is typically negligible over the range of dry bulb temperatures common to HVAC applications.

Worksheet

REZNOR®

Motor/Horsepower/Voltage Selection and Starter Requirement Chart

Applies to Models RPBL & SSCBL

Use this chart to determine whether a particular voltage/horsepower combination is available. Option AN10 starter must be ordered where indicated. 1-3 HP Open and Enclosed motors that require a starter do not have internal overload protection, and a starter (Option AN10) must be ordered to provide external overload protection. 1-3 HP Open and Enclosed motors that do not require a starter have internal overload protection and a standard contactor.

In the chart to the right, “S” indicates that a motor starter is standard, “C” indicates that the Contactor is standard and a motor starter is optional, “SV” indicates that an optional motor starter or a variable frequency drive **must** be selected.

Motor Type	Option No.	HP	Voltage RPM	208/1/60 AK2	230/1/60 AK3	208/3/60 AK5	230/3/60 AK6	460/3/60 AK7	575/3/60 AK8
Open Dripproof	AL6	1 HP	1800	C	C	C	C	C	SV
	AL7	1-1/2 HP	1800	C	C	C	C	C	SV
	AL8	2 HP	1800	C	C	C	C	C	SV
	AL9	3 HP	3600	S	S	C	C	C	SV
	AL10	5 HP	3600	S	S	SV	SV	SV	SV
	AL11	7-1/2 HP	1800	S	S	SV	SV	SV	SV
	AL12	10 HP	1800	S	S	SV	SV	SV	SV
	AL15	15 HP	1800	■	■	SV	SV	SV	SV
	AL16	20 HP	1800	■	■	SV	SV	SV	SV
Totally Enclosed	AL23	1 HP	1800	C	C	SV	SV	SV	SV
	AL24	1-1/2 HP	1800	C	C	SV	SV	SV	SV
	AL25	2 HP	1800	■	C	SV	SV	SV	SV
	AL26	3 HP	3600	■	S	SV	SV	SV	SV
	AL27	5 HP	3600	■	S	SV	SV	SV	SV
	AL32	7-1/2 HP	1800	■	S	SV	SV	SV	SV
	AL33	10 HP	1800	■	S	SV	SV	SV	SV
	AL34	15 HP	1800	■	■	SV	SV	SV	SV
	AL35	20 HP	1800	■	■	SV	SV	SV	SV

REZNOR®

Motor/Horsepower/Voltage Selection and Starter Requirement Chart

Applies to Models RPB

Use this chart to determine whether a particular voltage/horsepower combination is available. Option AN10 starter must be ordered where indicated. 1-3 HP Open and Enclosed motors that require a starter do not have internal overload protection, and a starter (Option AN10) must be ordered to provide external overload protection. 1-3 HP Open and Enclosed motors that do not require a starter have internal overload protection and a standard contactor.

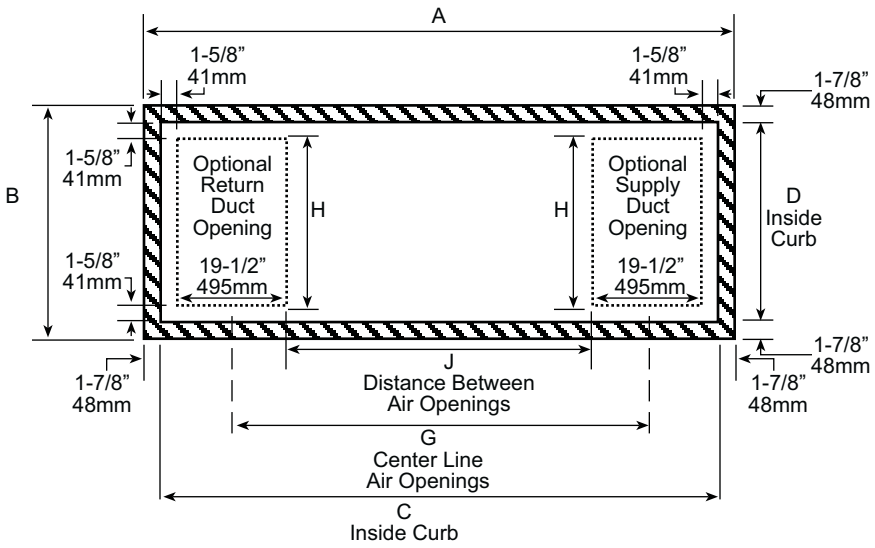
In the chart to the right, “S” indicates that a motor starter is standard, “C” indicates that the Contactor is standard and a motor starter is optional, “SV” indicates that an optional motor starter or a variable frequency drive **must** be selected.

Motor Type	Option No.	HP	Voltage RPM	115/1/60 AK1	208/1/60 AK2	230/1/60 AK3	208/3/60 AK5	230/3/60 AK6	460/3/60 AK7	575/3/60 AK8
Open Dripproof	AL2	1/4 HP	1800	C	C	C	S	S	S	■
	AL3	1/3 HP	1800	C	C	C	S	S	S	■
	AL4	1/2 HP	1800	C	C	C	C	C	C	S
	AL5	3/4 HP	1800	C	C	C	C	C	C	S
	AL6	1 HP	1800	C	C	C	C	C	C	S
	AL7	1-1/2 HP	1800	C	C	C	C	C	C	S
	AL8	2 HP	1800	C	C	C	C	C	C	S
	AL9	3 HP	3600	■	S	S	C	C	C	S
	AL10	5 HP	3600	■	■	■	SV	SV	SV	SV
Totally Enclosed	AL19	1/4 HP	1800	C	C	C	S	S	S	■
	AL20	1/3 HP	1800	C	C	C	S	S	S	■
	AL21	1/2 HP	1800	C	C	C	C	C	C	S
	AL22	3/4 HP	1800	C	C	C	C	C	C	S
	AL23	1 HP	1800	C	C	C	SV	SV	SV	SV
	AL24	1-1/2 HP	1800	C	C	C	SV	SV	SV	SV
	AL25	2 HP	1800	■	■	■	SV	SV	SV	SV
	AL26	3 HP	3600	■	■	■	SV	SV	SV	■

REZNOR®

ROOF CURB OPTION (cont'd)

APPLIES TO RPB



Roof Curb Dimensions for Model RPB

Option CJ1 - Roof Curb for Heater Only																
	A		B		C*		D*		G		H		J		Weight	
SIZE	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	lbs.	(kg)
75, 100, 125	60 5/8	(1,540)	24 5/16	(618)	56 15/16	(1,446)	20 9/16	(522)	--	--	17 3/8	(441)	--	--	90	(41)
150, 175	60 5/8	(1,540)	29 13/16	(757)	56 15/16	(1,446)	26 1/16	(662)	--	--	22 7/8	(581)	--	--	95	(43)
200, 225	60 5/8	(1,540)	35 5/16	(897)	56 15/16	(1,446)	31 9/16	(802)	--	--	28 3/8	(721)	--	--	101	(46)
250, 300	60 5/8	(1,540)	43 9/16	(1,106)	56 15/16	(1,446)	39 13/16	(1,011)	--	--	36 5/8	(930)	--	--	111	(50)
350	60 5/8	(1,540)	49 1/16	(1,246)	56 15/16	(1,446)	45 5/16	(1,151)	--	--	42 1/8	(1,070)	--	--	117	(53)
400	60 5/8	(1,540)	54 1/2	(1,384)	56 15/16	(1,446)	50 13/16	(1,291)	--	--	47 5/8	(1,210)	--	--	123	(56)
Option CJ2 - Roof Curb for Heater Plus Factory-Installed Downturn Plenum (Option AQ5 or AQ8)																
	A		B		C*		D*		G		H		J		Weight	
SIZE	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	lbs.	(kg)
75, 100, 125	84 9/16	(2,148)	24 5/16	(618)	80 13/16	(2,053)	20 9/16	(522)	58 1/8	(1,476)	17 3/8	(441)	38 5/8	(981)	112	(51)
150, 175	84 9/16	(2,148)	29 13/16	(757)	80 13/16	(2,053)	26 1/16	(662)	58 1/8	(1,476)	22 7/8	(581)	38 5/8	(981)	118	(54)
200, 225	84 9/16	(2,148)	35 5/16	(897)	80 13/16	(2,053)	31 9/16	(802)	58 1/8	(1,476)	28 3/8	(721)	38 5/8	(981)	124	(56)
250, 300	84 9/16	(2,148)	43 9/16	(1,106)	80 13/16	(2,053)	39 13/16	(1,011)	58 1/8	(1,476)	36 5/8	(930)	38 5/8	(981)	133	(60)
350	84 9/16	(2,148)	49 1/16	(1,246)	80 13/16	(2,053)	45 5/16	(1,151)	58 1/8	(1,476)	42 1/8	(1,070)	38 5/8	(981)	139	(63)
400	84 9/16	(2,148)	54 1/2	(1,384)	80 13/16	(2,053)	50 13/16	(1,291)	58 1/8	(1,476)	47 5/8	(1,210)	38 5/8	(981)	145	(66)

* C and D are roof opening dimensions

REZNOR®

MOTOR FULL LOAD AMPS (F.L.A.) TABLES

HP	Motor Type	Motor F.L.A.	RPM	Voltage	PH
0.25	OPEN	5.1	1750	120	1
0.25	OPEN	2.1	1750	208	1
0.25	OPEN	2.3	1750	240	1
0.25	OPEN	1.1	1750	208	3
0.25	OPEN	1.4	1750	240	3
0.25	OPEN	0.75	1750	480	3
0.25	TEFC	3.6	1750	120	1
0.25	TEFC	2.2	1750	208	1
0.25	TEFC	1.9	1750	240	1
0.25	TEFC	1.6	1750	208	3
0.25	TEFC	1.4	1750	240	3
0.25	TEFC	0.7	1750	480	3
0.33	OPEN	5.5	1750	120	1
0.33	OPEN	3.2	1750	208	1
0.33	OPEN	2.8	1750	240	1
0.33	OPEN	1.4	1750	208	3
0.33	OPEN	1.6	1750	240	3
0.33	OPEN	0.8	1750	480	3
0.33	TEFC	4.6	1750	120	1
0.33	TEFC	2.3	1750	208	1
0.33	TEFC	2.4	1750	240	1
0.33	TEFC	1.2	1750	208	3
0.33	TEFC	1.2	1750	240	3
0.33	TEFC	0.6	1750	480	3
0.50	OPEN	8.8	1750	120	1
0.50	OPEN	5.1	1750	208	1
0.50	OPEN	4.4	1750	240	1
0.50	OPEN	2.1	1750	208	3
0.50	OPEN	2	1750	240	3
0.50	OPEN	1	1750	480	3
0.50	TEFC	7	1750	120	1
0.50	TEFC	3.4	1750	208	1
0.50	TEFC	3.5	1750	240	1
0.50	TEFC	2.3	1750	208	3
0.50	TEFC	2	1750	240	3
0.50	TEFC	1	1750	480	3
0.50	TEFC	0.7	1750	575	3
0.75	OPEN	11	1750	120	1
0.75	OPEN	6.3	1750	208	1
0.75	OPEN	5.5	1750	240	1
0.75	OPEN	2.9	1750	208	3
0.75	OPEN	2.6	1750	240	3
0.75	OPEN	1.3	1750	480	3
0.75	TEFC	11	1750	120	1
0.75	TEFC	5.4	1750	208	1
0.75	TEFC	5.5	1750	240	1
0.75	TEFC	2	1750	208	3
0.75	TEFC	2.2	1750	240	3
0.75	TEFC	1.1	1750	480	3
0.75	TEFC	0.8	1750	575	3

HP	Motor Type	Motor F.L.A.	RPM	Voltage	PH
1.00	OPEN	13	1750	120	1
1.00	OPEN	7.5	1750	208	1
1.00	OPEN	6.5	1750	240	1
1.00	OPEN	3.7	1750	208	3
1.00	OPEN	3.2	1750	240	3
1.00	OPEN	1.6	1750	480	3
1.00	OPEN	1.4	1750	575	3
1.00	TEFC	13	1750	120	1
1.00	TEFC	6.5	1750	240	1
1.00	TEFC	3.3	1750	208	3
1.00	TEFC	3.4	1750	240	3
1.00	TEFC	1.7	1750	480	3
1.00	TEFC	1.4	1750	575	3
1.00	EE	3.1	1750	208	3
1.00	EE	2.7	1750	240	3
1.00	EE	1.35	1750	480	3
1.00	EE	1.1	1750	575	3
1.50	TEFC	16.4	1750	120	1
1.50	TEFC	9.5	1750	208	1
1.50	TEFC	8.2	1750	240	1
1.50	TEFC	4.3	1750	208	3
1.50	TEFC	4.4	1750	240	3
1.50	TEFC	2.2	1750	480	3
1.50	TEFC	1.8	1750	575	3
1.50	EE	4.5	1750	208	3
1.50	EE	3.9	1750	240	3
1.50	EE	1.95	1750	480	3
1.50	EE	1.6	1750	575	3
1.50	OPEN	15	1750	120	1
1.50	OPEN	8.3	1750	208	1
1.50	OPEN	7.5	1750	240	1
1.50	OPEN	5.6	1750	208	3
1.50	OPEN	5	1750	240	3
1.50	OPEN	2.7	1750	480	3
1.50	OPEN	2	1750	575	3
2.00	OPEN	20.4	1750	120	1
2.00	OPEN	10	1750	208	1
2.00	OPEN	10.2	1750	240	1
2.00	OPEN	7	1750	208	3
2.00	OPEN	6.6	1750	240	3
2.00	OPEN	3.3	1750	480	3
2.00	OPEN	2.4	1750	575	3
2.00	TEFC	24	1750	120	1
2.00	TEFC	12	1750	240	1
2.00	TEFC	6.5	1750	208	3
2.00	TEFC	5.6	1750	240	3
2.00	TEFC	2.8	1750	480	3
2.00	TEFC	2.2	1750	575	3
2.00	EE	6	1750	208	3
2.00	EE	5.2	1750	240	3
2.00	EE	2.6	1750	480	3
2.00	EE	2.1	1750	575	3

REZNOR®

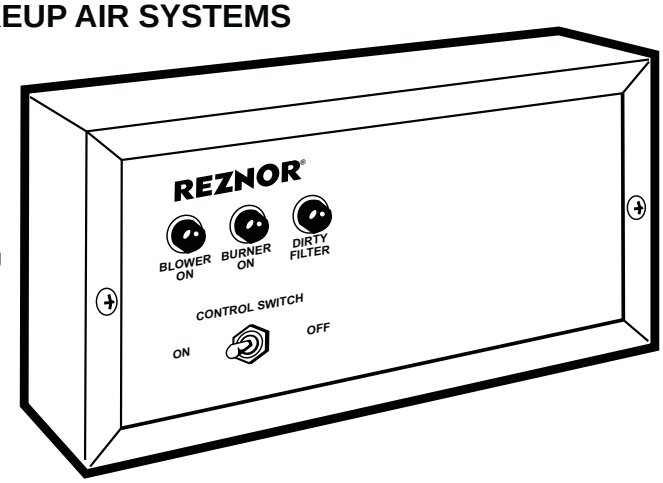
MOTOR FULL LOAD AMPS (F.L.A.) TABLES (cont'd)

HP	Motor Type	Motor F.L.A.	RPM	Voltage	PH
3.00	OPEN	14	3600	208	1
3.00	OPEN	12.4	3600	240	1
3.00	OPEN	9.1	3600	208	3
3.00	OPEN	8.4	3600	240	3
3.00	OPEN	4.2	3600	480	3
3.00	OPEN	3.6	3600	575	1
3.00	TEFC	30	3600	120	1
3.00	TEFC	15	3600	240	3
3.00	TEFC	8.5	3600	208	3
3.00	TEFC	8.2	3600	240	3
3.00	TEFC	4.1	3600	480	3
3.00	TEFC	3.1	3600	575	3
3.00	EE	8.6	3600	208	3
3.00	EE	7.8	3600	240	3
3.00	EE	3.9	3600	480	3
3.00	EE	3	3600	575	3
5.00	OPEN	28	3600	208	1
5.00	OPEN	26	3600	240	1
5.00	OPEN	13.4	3600	208	3
5.00	OPEN	13.2	3600	240	3
5.00	OPEN	6.6	3600	480	3
5.00	OPEN	5.4	3600	575	3
5.00	TEFC	13.2	3600	208	3
5.00	TEFC	12	3600	240	3
5.00	TEFC	6	3600	480	3
5.00	TEFC	4.8	3600	575	3
5.00	TEFC	22.8	3600	240	1
5.00	EE	13.9	3600	208	3
5.00	EE	12.6	3600	240	3
5.00	EE	6.3	3600	480	3
5.00	EE	4.8	3600	575	3
5/2.2	2 SPD	17.2/11.3	1800/1200	208	3
5/2.3	2 SPD	15.5/10.2	1800/1200	230	3
5/2.4	2 SPD	7.1/14.8	1800/1200	460	3
7.50	OPEN	35	1750	208	1
7.50	OPEN	32	1750	240	1
7.50	OPEN	22	1750	208	3
7.50	OPEN	21	1750	240	3
7.50	OPEN	10.5	1750	480	3
7.50	OPEN	8.4	1750	575	3
7.50	TEFC	34	1750	240	1
7.50	TEFC	23	1750	208	3
7.50	TEFC	21	1750	240	3
7.50	TEFC	10.5	1750	480	3
7.50	TEFC	8.4	1750	575	3
7.50	EE	22.5	1750	208	3
7.50	EE	19.6	1750	240	3
7.50	EE	9.8	1750	480	3
7.50	EE	7.5	1750	575	3

HP	Motor Type	Motor F.L.A.	RPM	Voltage	PH
7.5/3.3	2 SPD	21.6/13.6	1800/1200	208	3
7.5/3.3	2 SPD	19.5/12.3	1800/1200	230	3
7.5/3.3	2 SPD	9.75/6.2	1800/1200	460	3
10.00	OPEN	42	1750	208	1
10.00	OPEN	38	1750	240	1
10.00	OPEN	30	1750	208	3
10.00	OPEN	26	1750	240	3
10.00	OPEN	13	1750	480	3
10.00	OPEN	10.4	1750	575	3
10.00	OPEN	9.9	1750	575	3
10.00	TEFC	39	1750	240	1
10.00	TEFC	30	1750	208	3
10.00	TEFC	26	1750	240	3
10.00	TEFC	13	1750	480	3
10.00	TEFC	10.4	1750	575	3
10.00	EE	28	1750	208	3
10.00	EE	24.4	1750	240	3
10.00	EE	12.2	1750	480	3
10.00	EE	9.7	1750	575	3
10/4.4	2 SPD	31/19.4	1800/1200	208	3
10/4.4	2 SPD	28/17.5	1800/1200	230	3
10/4.4	2 SPD	13.5/7.5	1800/1200	460	3
15.00	OPEN	43.1	1750	208	3
15.00	OPEN	39	1750	240	3
15.00	OPEN	19.5	1750	480	3
15.00	OPEN	16	1750	575	3
15.00	TEFC	38	1750	240	3
15.00	TEFC	19	1750	480	3
15.00	TEFC	15	1750	575	3
15.00	EE	40	1750	208	3
15.00	EE	36	1750	240	1
15.00	EE	18	1750	480	3
15.00	EE	14.5	1750	575	3
20.00	OPEN	58.7	1750	208	3
20.00	OPEN	53	1750	240	3
20.00	OPEN	26.5	1750	480	3
20.00	OPEN	21.2	1750	575	3
20.00	TEFC	52	1750	240	3
20.00	TEFC	26	1750	480	3
20.00	TEFC	20.6	1750	575	3
20.00	EE	52.9	1750	208	3
20.00	EE	48	1750	240	3
20.00	EE	24	1750	480	3
20.00	EE	19.2	1750	575	3

REMOTE CONSOLE
OPTIONAL ON INDIRECT FIRED PACKAGED HEATING/MAKEUP AIR SYSTEMS

STANDARD FEATURES
- 16 Gauge steel box
- Wiring terminal blocks
- Engraved plastic cover
- Stainless steel mounting ring
- Designed for either recessed or wall mounting

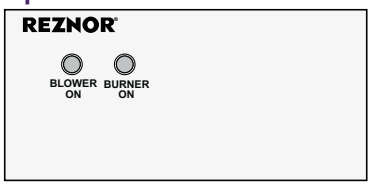


DESCRIPTION

A Reznor remote console is designed to allow remote control of the system as well as provide indicator safety lights. The console is comprised of a 16-gauge steel box with knockouts for field wiring, wiring terminal blocks suited to components, and a custom engraved plastic cover. The engraved lettering on the cover indicates the function and position of the switch and the message of the indicator light. The box may be either recessed or wall mounted. A mounted ring is included for wall mounting. In place of the standard plastic cover, an optional stainless steel cover is available (requires extended lead time).

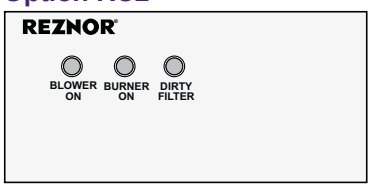
The remove console option is available with twelve pre-selected combinations of factory-installed switches, indicator lights and controls. The available combinations of components are illustrated below. Each of the consoles may be ordered with one additional factory-mounted control. Controls available are a one- or two-stage heating thermostat, a one- two-stage heating/cooling thermostat, or a Maxitrol Temperature Selector. If the installation requires any components or component combinations that are not available with Options RC1-12, it is necessary to specify a custom-built remote console (see Remote Console Section).

Option RC1



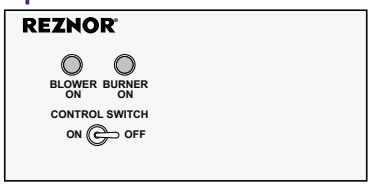
Lights
- Blower On
- Burner On

Option RC2



Lights
- Blower On
- Burner On
- Dirty Filter

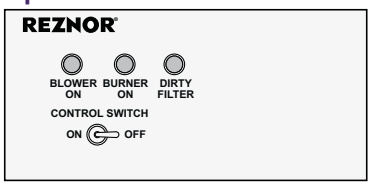
Option RC3



Lights
- Blower On
- Burner On

Switch
- On/Off

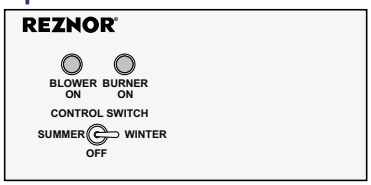
Option RC4



Lights
- Blower On
- Burner On
- Dirty Filter

Switch
- On/Off

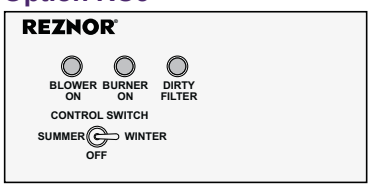
Option RC5



Lights
- Blower On
- Burner On

Switch
- Summer/Off/Winter

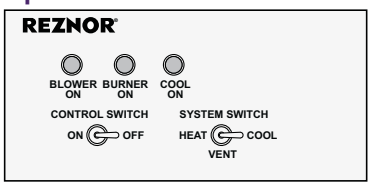
Option RC6



Lights
- Blower On
- Burner On
- Dirty Filter

Switch
- Summer/Off/Winter

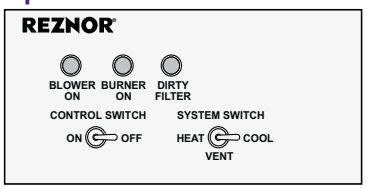
Option RC7



Lights
- Blower On
- Burner On
- Cool On

Switch
- On/Off
- Heat/Vent/Cool

Option RC8



Lights
- Blower On
- Burner On
- Dirty Filter

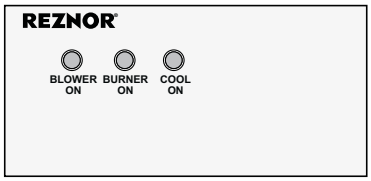
Switch
- On/Off
- Heat/Vent/Cool

REZNOR®

REMOTE CONSOLE

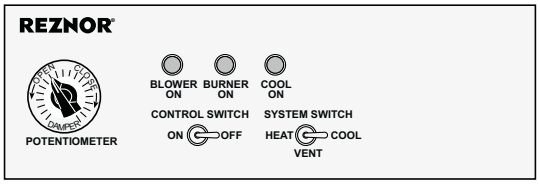
OPTIONAL ON INDIRECT FIRED PACKAGED HEATING/MAKEUP AIR SYSTEMS (cont'd)

Option RC9



Lights
- Blower On
- Burner On
- Cool On

Option RC11

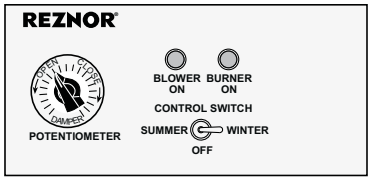


Lights
- Blower On
- Burner On
- Cool On

Switch
- On/Off
- Heat/Vent/Cool

Control
- Potentiometer*

Option RC10

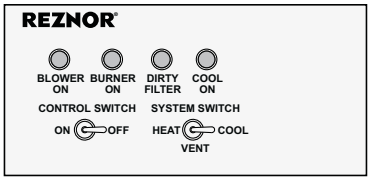


Lights
- Blower On
- Burner On

Switch
- Summer/Off/Winter

Control
- Potentiometer*

Option RC12



Lights
- Blower On
- Burner On
- Dirty Filter
- Cool On

Switch
- On/Off
- Heat/Vent/Cool

* ***Must order Damper Arrangement Option GE10 to get a remote potentiometer (see Air Control System section).***

NOTE: ***To coordinate option selection, see Mixing Box Module and Air Inlet Options section for damper arrangement options and Heating and Heating/Cooling Controls section for control selection.***

Remote Console Components	Function	Included Options											
		RC1	RC2	RC3	RC4	RC5	RC6	RC7	RC8	RC9	RC10	RC11	RC12
Blower On Indicator Light	Lights when blower is operating	X	X	X	X	X	X	X	X	X	X	X	X
Burner On Indicator Light	Lights when burners are lit	X	X	X	X	X	X	X	X	X	X	X	X
Dirty Filter Indicator Light	Lights when the pressure switch indicates that filters need to be cleaned or replaced	N/A	X	N/A	X	N/A	X	N/A	X	N/A	N/A	N/A	X
On/Off Control Switch	"On" position energizes the unit for thermostat control "Off" position de-energizes the unit and closes optional automatically controlled outside air dampers	N/A	N/A	X	X	N/A	N/A	X	X	N/A	N/A	X	X
Summer/Winter/ Off Control Switch	"Summer" position operates the blower only "Winter" position energizes the unit for thermostat control "Off" position de-energizes the unit and closes optional automatically controlled outside air dampers	N/A	N/A	N/A	N/A	X	X	N/A	N/A	N/A	X	N/A	N/A
Heat/Vent/Cool System Switch	"Heat" position energizes the unit for thermostat control. "Vent" position operates the blower and opens automatically controlled outside air dampers "Cool" position energizes the blower, the dampers and cooling unit	N/A	N/A	N/A	N/A	N/A	N/A	X	X	N/A	N/A	X	X
Cooling Indicator Light	Lights when cooling system is operating	N/A	N/A	N/A	N/A	N/A	N/A	X	N/A	X	N/A	X	X

Console Option	Minimum No. of Wires	Console Option	Minimum No. of Wires
RC1	3	RC10	7-9
RC2	4	RC11	9-10
RC3	5-6	RC12	8
RC4	6-7	1-Stage Heating Thermostat	+2
RC5	5-6	2-Stage Heating Thermostat	+3
RC6	6-7	1-Stage Heating/Cooling Thermostat	+4
RC7	7	2-Stage Heating/Cooling Thermostat	+5
RC8	8	Maxitrol Temperature Selector	+2
RC9	4		
CAUTION: The minimum number of wires listed should be used only as a guideline. Do NOT use for actual wiring. The required number of wires varies depending upon the circuit and the function of the switch and can only be accurately determined from the wiring diagram designed for the specific installation.			

Wires:

Console Feature	Minimum No. of Wires
1 Light	2
2 Lights	3
3 Lights	4
4 Lights	5
NOTE: For cooling light, add one wire.	
1 DPDT (3-position) Switch	4-6
1 SPDT Swtch	3
1 DPST Swtch	3-4
1 SPST Swtich	2
1 2-Stage Thermostat	3-9
1 1-Stage Thermostat	2-8
1 Potentiometer	3
CAUTION: The minimum number of wires listed should be used only as a guideline. Do NOT use for actual wiring. The required number of wires varies depending upon the circuit and the function of the switch and can only be accurately determined from the wiring diagram designed for the specific installation.	

REZNOR®

THERMOSTATS FOR WALL OR CONSOLE MOUNTING

(If console mounted, select one per console)

Applies to Models RPB, RPBL, & SSCBL (unless otherwise noted)

Single Stage Heating/Cooling Thermostat - Option CL1

Non-programmable
24V Supply voltage
50° - 90°F

(Cross reference: P/N 255350)

(Applies to Model RPB only)

Override Thermostat for Electronic Modulation - Option CL9

Low voltage room override thermostat
Electronic modulating
60-85°F
For use with makeup air applications
Vertical mounting
SPST
Line voltage

(Cross reference: P/N 24857)

Use with electronic modulating gas controls, Options AG8, AG9, AG39 or AG41

Electronic 2-Stage Heating/Cooling Thermostat (Wall Mount Option CL33, Console Mount Option RCT5 [A])

7-Day programmable
LCD Display
24VAC/50/60 Hz Supply
Microprocessor Control
Selectable Output Staging:
1) 1 Heat — 1 Cool
2) 1 Heat — 2 Cool
3) 2 Heat — 1 Cool
4) 2 Heat — 2 Cool
Sub/Base has Auto/Cool/Off/Heat System switch and Auto/On (fan) Switch

(Cross reference: P/N 221038)

Use with Remote Consoles RC1, RC2 or RC9

[A] RCT5 contains most switching functions that are likely to be needed. Any switches on the panel limit the number of lights and/or potentiometer that can be installed due to space limitations and affects control sequence. Consult your Reznor Representative.

Two Stage Heating/Cooling Thermostat - Option CL22

Non-programmable
24V Supply voltage
50° - 90°F

(Cross reference: P/N 220630)

Electronic Single Stage Heating/Cooling Thermostat on Panel (Wall Mount Option CL52, Console Mount Option RCT9)

5 Day/2 Day Programmable
LCD Display
(battery required)
with Fan Auto/On and Cool/Off/Heat Switches

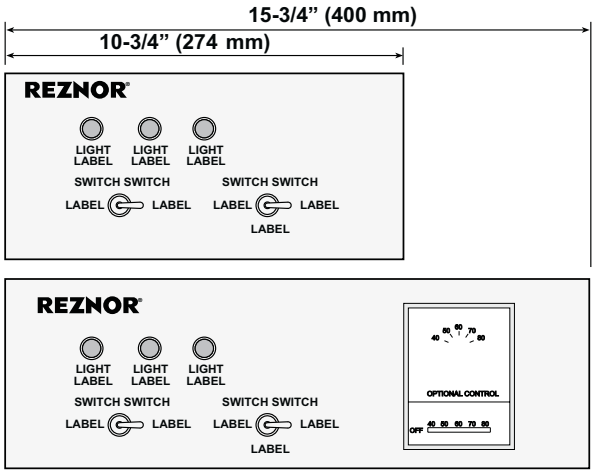
(Cross reference: P/N 220632)

Use with Remote Consoles RC1, RC2 or RC9

REZNOR®

REMOTE CONSOLE
OPTIONAL ON INDIRECT FIRED
PACKAGED HEATING/MAKEUP AIR SYSTEMS (cont'd)

Dimensions	Length		Height		Depth	
Wall Mounted - Remote Console with wall mounting ring	**in.**	**mm**	**in.**	**mm**	**in.**	**mm**
Consoles RC1-RC10 and RC12 **without** an optional control	10 3/4	273	7 5/8	194	2 5/8	67
Consoles RC-10 and RC12 **with** an optional control and RC11 **with or without** an optional control	15 3/4	400	7 5/8	194	2 5/8	67
Recessed - Size of the body; do not use mounting ring	**in.**	**mm**	**in.**	**mm**	**in.**	**mm**
Consoles RC1-RC10, RC12 **without** an optional control	10 3/4	273	6 5/8	168	2 5/8	67
Consoles RC-10 and RC12 **with** an optional control and RC11 **with or without** an optional control	15 3/4	400	6 5/8	168	2 5/8	67



CUSTOM BUILT REMOTE MONITORING CONSOLE

DESCRIPTION

If components or component combinations are required that are not included in the standard remote console option offering, select a custom-built remote console. Custom design the console by selecting from the light label, switch label, and control selections listed below. Specific functions of all switches and lights must be included on the order.

Custom REMCON			**- C**	**- D**	**- E**	**- F**	**- G**	**- H**	**- J**	**- K**	**- M**	**- Z**
Engraved Plastic Cover on Metal Box with Mounting Ring	Lights	Qty	2	3	4	2	3	4	2	3	4	Custom Plastic Cover (combinations or engraving not listed) - call Reznor Representative for approval and pricing.
	Switches (2 position or 3 position)	Qty	0	0	0	1	1	1	2	2	2	

LIGHT LABEL TO BE ENGRAVED ON PLASTIC COVER	
(number of selections must agree with quantity of lights available on the REMCON model ordered)	
BURNER	EB1
BLOWER	EB2
DIRTY FILTER (LIGHT with SWITCH IN UNIT)	EB3
COOL	EB4
SAFETY LOCKOUT	EB21
Custom Label - 14 characters maximum	SPEC

SWITCH LABELS TO BE ENGRAVED ON COVER			
Select REMCON Size -C through -M based on number of lights and switches selected. Switches selected cannot have duplicate function.			
SUMMER/OFF/WINTER	EB5A	ON/OFF (SPDT System Switch)	EB7X
HEAT/OFF/VENT	EB5B	SUMMER/WINTER	EB7A
ON/OFF/AUTO	EB5C	HEAT/VENT	EB7B
HEAT/VENT/COOL	EB5D	AUTO/ON	EB7C
DAY/OFF/NIGHT	EB5E	HEAT/COOL	EB7D
OCCUPIED/OFF/UNOCCUPIED	EB5F	DAY/NIGHT	EB7E
LOCAL/OFF/REMOTE	EB5G	OCCUPIED/UNOCCUPIED	EB7F
HIGH/OFF/LOW	EB5H	LOCAL/REMOTE	EB7G
HIGH/MED/LOW	EB5I	HIGH/LOW	EB7H
HAND/OFF/AUTO	EB5J	SPRAY/DRY	EB7J
HEAT/OFF/COOL	EB5K	FILL/DRAIN	EB7K
ON/OFF (DPST System Switch)	EB6X	DAMPER OPEN/CLOSED	EB7L
Custom Label - 22 characters maximum			SPEC

REZNOR®

CUSTOM BUILT REMOTE MONITORING CONSOLE (cont'd)

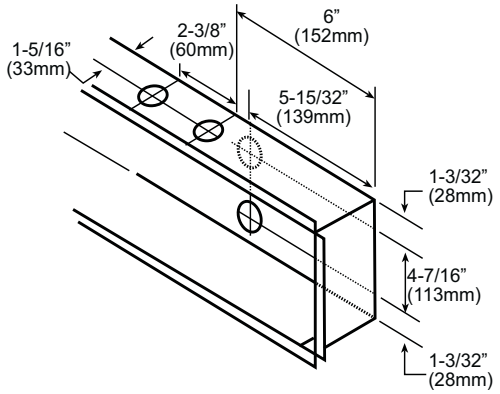
OPTIONAL CONTROLS MOUNTED ON CUSTOM REMCONS	
1-Stage Heating Thermostat	RCT1
2-Stage Heating Thermostat	RCT2
1-Stage Heating/Cooling Thermostat	RCT3
2-Stage Heating/Cooling Thermostat	RCT4
Commercial Electronic Programmable Heating/Cooling Thermostat*	RCT5
T244 Selectrastat used with Gas Control Option AG33	RT6A
T107A-1 Selectrastat used with Option AG7	RT6B
Maxitrol T115 Room Override Thermostat (Gas Control Options AG8, AG9, or AG31)	RCT7
2-Stage Heating/Cooling Thermostat (same as Option CL50)	RCT8
Maxitrol TD-121 Dial (used with Gas Control Option AG9)	RCM1
Maxitrol TD-114 Dial (used with Gas Control Options AG30 and AG31 - U.S.)	RCM2
Maxitrol TD-114 Dial (used with Gas Control Options AG30 and AG31 - Canada)	RCM3
Maxitrol TD-114A Dial (used with Gas Control Option AG32)	RCM4
Maxitrol TD-114B Dial (used with Gas Control Option AG35)	RCM5
Maxitrol TD-92 (used with Gas Control Options AG39 and AG41)	RCM6
Potentiometer (used with Air Control Options AR18, AR19, AR22, or AR55)	RCD1
Mount other Control on Remcon (Call for Quote - may require relays)	SPEC

Number of Optional Controls Available by custom REMCON Model - length of console changes; see dimensions below										
Custom REMCON			- C	- D	- E	- F	- G	- H	- J	- K	- M
Engraved Plastic Cover on Metal Box with Mounting Ring	Lights	Qty	2	3	4	2	3	4	2	3	4
	Switches (2 position or 3 position)	Qty	0	0	0	1	1	1	2	2	2
Maximum number of Optional Controls available			2	2	2	2	2	1	2	2	1
Custom REMCON Dimensions	Without an optional control, the length of the console is 10-3/4" (273mm). When an optional control is added to any custom console, length becomes 15-3/4" (400mm). All consoles with mounting ring are 7-5/8" (194mm) high and 2-5/8" (67mm) deep. If rececessed (not using mounting ring), box is 6-5/8" (168mm) high.									

* RCT5 contains most switching functions that are likely to be needed. Any switches on the panel limit the number of lights and/or potentiometer that can be installed due to space limitations and affects control sequence. Consult your Reznor Representative.

Location of Knockout Holes -

Dimensions to Center Line of all holes



REZNOR®

MODEL RPB

OUTDOOR, POWER VENTED, GAS FIRED PACKAGED DUCT FURNACE / BLOWER UNIT FOR COMMERCIAL/INDUSTRIAL HEATING AND MAKEUP AIR

ANSI Z83.9 & A.G.A. 14-95

CAN/C.G.A. 2.8 & 2.6

Model RPB has been discontinued. Orders will be accepted for replacement units only.

DESCRIPTION

Reznor® RPB Series packaged units are 80% thermal efficient, power-vented, gas-fired forced air furnaces, designed for installation outdoors and used with recirculating and/or makeup air warm air duct systems. These units use either natural or propane gas, as specified, in sizes from 125,000 through 400,000 BTUH gas input.

Standard features include a spark-ignited intermittent pilot and a single-stage, 24-volt gas valve. Each unit has all the required limit and safety controls including a venter pressure switch which verifies power vent flow prior to allowing operation of the gas valve. For automatic operation, each unit is wired for field connection to a remote 24-volt thermostat.

The RPB Series models have a weatherized galvalume steel cabinet with interlocking joint construction and a full curb cap for mounting on a roof curb or supports. The standard packaged furnace has a horizontal discharge air opening. A bottom discharge air opening is available with the addition of a downturn plenum. The blower cabinet has a standard horizontal inlet but is engineered to allow for horizontal and/or bottom air inlet with various optional damper control systems. The air control systems for both return air heating and makeup air are complemented by a selection of gas control options. To obtain the desired CFM, a wide selection of optional motor and drive combinations is available to operate the centrifugal blower.

To meet a variety of installation requirements, Model RPB packaged units are available in selected combinations equipped with a downturn plenum, an evaporative cooling module, a cooling coil cabinet with DX or chilled water coil, and/or an outside air inlet hood.

STANDARD FEATURES

- Orifices for natural gas
- Aluminized steel heat exchanger (When inlet air temperature is below 40°F or temperature rise is less than 40°F, optional stainless steel heat exchanger is recommended)
- 120-volt power supply
- 24-volt control transformer
- Redundant single-stage combination gas valve (see Note 1)
- Intermittent spark pilot
- Fan and limit safety controls
- Power venter
- Reverse air flow limit control
- Adjustable belt drive
- Motor contactor
- Terminal block wiring
- Full curb cap base
- Horizontal discharge air opening with duct flanges
- Horizontal inlet air opening with duct flanges
- Left side access to burner and controls (facing airstream)
- Insulated, weatherized steel cabinet with interlocking joint construction for outdoor mounting
- 1/2” O.D. BX cable (Chicago code)

NOTE 1: Regulated combination redundant gas valve consists of combination pilot solenoid valve, electric gas valve, pilot filter, pressure regulator, pilot shut-off, and manual shut-off, all in one body. Gas supply pressure must not exceed 0.5 PSI (8 oz. - 14” W.C.). Minimum inlet pressure for natural gas is 5” W.C. Minimum inlet pressure for propane gas is 11” W.C.
NOTE 2: Not certified for residential use.

REZNOR®

MODEL RPB (cont'd)

OPTIONAL FEATURES - FACTORY INSTALLED

- Unit equipped for propane gas
- E-3 (409) stainless steel heat exchanger
- E-3 (409) stainless steel burners
- E-3 (409) stainless steel drip pan
- Intermittent spark pilot with flame supervision and timed lockout
- 1/4 HP through 3 HP open drip-proof or totally enclosed motors, 5 HP available in open drip-proof motor only (motors meet EISA specifications for efficiency)
- 208/1, 230/1, 208/3, 230/3, 460/3, 575/3 alternate supply voltages
- Motor starter (optional with motors having internal overload protection)
- Burner air shutters (required for units equipped for propane gas)
- Two-stage gas control (unit mounted or remote temperature selector)
- Electronic modulation (50-100% turndown and 20-100% turndown)
- Direct digital control packages for system control
- Makeup air controls/dampers
- Convenience outlet
- Firestat(s)
- Freezestat
- Filter rack with filters (2" disposable, permanent or pleated)
- Evaporative cooling module
- 30% O/A inlet hood (adjustable 0-30% dampers)
- Downturn plenum cabinet (insulated)
- Discharge damper, 2-position, with downturn plenum
- Double wall cabinet construction
- High ambient burner cutoff
- Gas pressure safety switches
- Air flow proving switch
- Right side controls (facing airstream)

OPTIONAL FEATURES - FIELD INSTALLED

- Full roof curb
- Disconnect switch - UL Listed
- Single-stage thermostat
- Two-stage thermostat
- Electronic 7-day programmable thermostat
- Thermostat guard with locking cover
- Remote control console
- 100% outside air, screened inlet air hood
- Vertical flue extension

TECHNICAL DATA

SIZE			125	150	175	200	225	250	300	350	400
Heating Input		BTUH	125,000	150,000	175,000	200,000	225,000	250,000	300,000	350,000	400,000
		(kW)	(36.6)	(44.0)	(51.3)	(58.6)	(65.9)	(73.3)	(87.9)	(102.6)	(117.2)
Thermal Output Capacity (80%)[A]		BTUH	100,000	120,000	140,000	160,000	180,000	200,000	240,000	280,000	320,000
		(kW)	(29.3)	(35.2)	(41.0)	(46.9)	(52.8)	(58.6)	(70.3)	(82.1)	(93.8)
Unit Amps (Less motor) 115V			1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Control Amps (24V)			0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Air Volume Range	ANSI - RPB	cfm	1,025 - 1,230	1,230 - 1,480	1,440 - 1,725	1,645 - 1,975	1,850 - 2,220	2,055 - 2,465	2,465 - 2,960	2,880 - 3,455	3,290 - 3,950
		(m^3/hr)	(1,835 - 2,202)	(2,202 - 2,649)	(2,578 - 3,088)	(2,945 - 3,536)	(3,312 - 3,974)	(3,679 - 4,413)	(4,413 - 5,299)	(5,156 - 6,185)	(5,890 - 7,071)
	ANSI - HRPB[B]	cfm	1,230 - 3,800	1,480 - 4,700	1,725 - 5,000	1,975 - 5,100	2,220 - 5,150	2,465 - 5,800	2,960 - 6,300	3,455 - 6,800	3,950 - 7,100
		(m^3/hr)	(2,202 - 6,803)	(2,649 - 8,414)	(3,088 - 8,951)	(3,536 - 9,130)	(3,974 - 9,219)	(4,413 - 10,383)	(,5299 - 11,278)	(6,185 - 12,173)	(7,071 - 12,710)
	C.G.A. - RPB	cfm	1,025 - 1,850	1,230 - 2,220	1,440 - 2,590	1,645 - 2,960	1,850 - 3,330	2,055 - 3,700	2,465 - 4,440	2,880 - 5,185	3,290 - 5,925
		(m^3/hr)	(1,835 - 3,312)	(2,202 - 3,974)	(2,578 - 4,637)	(2,945 - 5,299)	(3,312 - 5,961)	(3,679 - 6,624)	(4,413 - 7,948)	(5,156 - 9,282)	(5,890 - 10,607)
	C.G.A. - HRPB[B]	cfm	1,850 - 3,800	2,220 - 4,700	2,590 - 5,000	2,960 - 5,100	3,330 - 5,150	3,700 - 5,800	4,440 - 6,300	5,185 - 6,800	5,925 - 7,100
		(m^3/hr)	(3,312 - 6,803)	(3,974 - 8,414)	(4,637 - 8,951)	(5,299 - 9,130)	(5,961 - 9,219)	(6,624 - 10,383)	(7,948 - 11,278)	(9,282 - 12,173)	(10,607 - 12,710)
Net Weight[C]		lbs.	482	520	520	534	534	588	588	630	662
		(kg)	(219)	(236)	(236)	(242)	(242)	(267)	(267)	(286)	(300)
Downturn Plenum Ship Weight[C]		lbs.	622	677	677	714	714	817	817	874	930
		kg	(282)	(307)	(307)	(324)	(324)	(371)	(371)	(396)	(422)
Cabinet Weight[D]		lbs.	166	177	177	196	196	229	229	253	271
		kg	(75)	(80)	(80)	(89)	(89)	(104)	(104)	(115)	(123)
Gas connection - Natural[E]			1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"
Filter Size (Filters are optional and available in 2" disposable, permanent or pleated)			(2)20x25	(2)16x20 (2)16x25	(2)16x20 (2)16x25	(1)16x20 (1)20x20 (1)16x25 (1)20x25	(1)16x20 (1)20x20 (1)16x25 (1)20x25	(1)20x20 (3)20x25	(1)20x20 (3)20x25	(3)20x25 (2)16x25	(2)20x20 (1)16x20 (1)16x25 (2)20x25

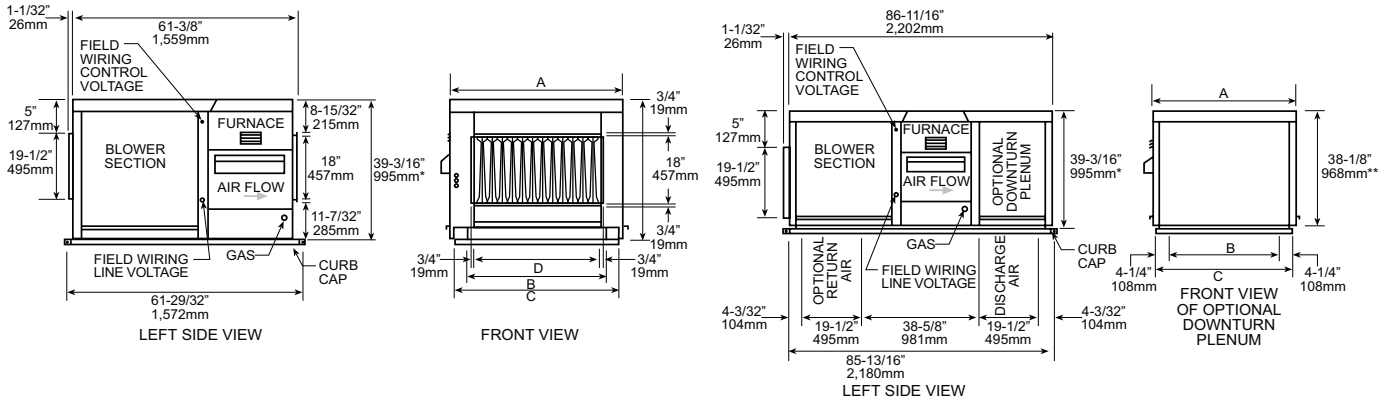
[A] In the U.S. ratings are for altitudes to 2000 feet. Above 2000 feet derate by orifice change, 4% for each 1000 feet above sea level. In Canada ratings are for altitudes to 2000 feet. High altitude units (2001 to 4500 ft.) are derated by 10% of maximum input.
[B] Prefix "H" indicates high CFM units without directional finger baffles.
[C] Weights shown are for packaged furnace and blower. For weights of accessories, see below.
[D] Add to base weight of unit. For weights for other options such as the cooling coil cabinet or roof curbs, see those sections.
[E] Gas connection for optional propane is 1/2" for all sizes. Sizes shown are for gas connection to single stage gas valve, NOT gas supply line size.

REZNOR®

MODEL RPB (cont'd)

Dimension

(+ or - 1/8" or 3mm)



MODEL RPB WITH OPTIONAL DOWNTURN PLENUM

* Height from top of cabinet to top of curb cap.
** Height from top of cabinet to bottom of cabinet side.

Size		A	B	C	D
125	in.	28 5/8	17 3/8	25 7/8	15 1/4
	(mm)	(727)	(441)	(657)	(387)
150, 175	in.	34 1/8	22 7/8	31 3/8	20 3/4
	(mm)	(867)	(581)	(797)	(527)
200, 225	in.	39 5/8	28 3/8	36 7/8	26 1/4
	(mm)	(1,006)	(721)	(937)	(667)
250, 300	in.	47 7/8	36 5/8	45 1/8	34 1/2
	(mm)	(1,216)	(930)	(1,146)	(876)
350	in.	53 3/8	42 1/8	50 5/8	40
	(mm)	(1,356)	(1,070)	(1,286)	(1,016)
400	in.	58 7/8	47 5/8	56 1/8	45 1/2
	(mm)	(1,495)	(1,210)	(1,426)	(1,156)

Air Openings	Dimensions
Standard Horizontal Air Inlet	19-1/2" (495mm) x B
Optional Return Air Opening	19-1/2" (495mm) x B
Standard Horizontal Discharge Air Opening	18" (457mm) x D
Optional Discharge Air Opening (with Downturn Plenum)	19-1/2" (495mm) x B

NOTES:

1. ***Reznor designed optional outside air hood or evaporative cooling module is required to ensure complete weather resistance. See Outside Air Hood Option for dimensions.***
2. ***Burner and control access shown left side (facing air stream). Specify right side (Option AJ2) for opposite side access and connections.***

CLEARANCE FROM COMBUSTIBLES

1. Furnace bottom - 0". (When installed on a roof curb on a combustible surface, the roof area enclosed within the curb must be either ventilated, left open, or covered with anon-combustible material which has an "R" value of at least 5.0)
2. Unit top to overhangs - 36" (914mm)
3. Side opposite controls - 6" (152mm)
4. Control side - unit width plus 6" (152mm)

Weights of Accessories - add to unit Ship Weight

Weights of options shipped installed on the furnace:			75, 100, 125	150, 175	200, 225	250, 300	350	400
AQ5	Downturn Plenum Cabinet (wt. Includes additional crate)	lbs.	166	177	196	229	253	271
		(kg)	(75)	(80)	(89)	(104)	(115)	(123)
Weights of options shipped separately for field assembly and installation:								
AS2	AS2 Outside Air Inlet Hood	lbs.	70	76	79	87	92	96
		(kg)	(32)	(34)	(36)	(39)	(42)	(44)
CJ1	Roof Curb for Basic Unit	lbs.	90	95	101	111	117	123
		(kg)	(41)	(43)	(46)	(50)	(53)	(56)
CJ2	Roof Curb for Unit with Downturn Plenum Cabinet	lbs.	112	118	124	133	139	145
		(kg)	(51)	(54)	(56)	(60)	(63)	(66)

REZNOR®

CONTROL OPTIONS
Applies to Model RPB

IGNITION CONTROL OPTIONS

STANDARD EQUIPMENT INTERMITTENT **SPARK PILOT:** Automatic lighting of pilot with an electronic spark on a call for heat. Pilot gas flow is shut off between heat cycles. Certified by the Canadian Standards Association for use in Canada with natural gas only. Certified for use in the U.S.A. on outdoor units with natural gas or propane.

OPTION AH3 INTERMITTENT SPARK PILOT WITH TIMED LOCKOUT: Automatic lighting of pilot with an electronic spark on a call for heat. Pilot gas flow is shut off between heat cycles. This system also incorporates a lockout device which stops gas flow to the pilot if the pilot fails to light in 120 seconds. Reset of lockout requires manual interruption of the thermostat cycle. Approved for use with natural or propane gas.

GAS CONTROLS

SPACE HEATING APPLICATIONS

Option AG1 ONE-STAGE CONTROL: Single-stage gas valve which cycles on at 100% fire on a call for heat by a remote single-stage thermostat. Thermostat is not included.

Option AG2 TWO-STAGE CONTROL: Two-stage gas valve which fires at 100% or 50%, as required, on call by a remote two-stage thermostat. Thermostat is not included.

Option AG7 ELECTRONIC MODULATION (60°-85°F): Solid state control system, providing close temperature control via manifold pressure. On a call for heat from a remote electronic thermostat, controls modulate between 50% and 100%. Remote thermostat is included.

MAKEUP AIR HEATING APPLICATIONS

Option AG3 TWO-STAGE CONTROL FROM DUCTSTAT (60°-110°F): Two-stage gas valve which fires at 100% or 50% as required, on call from a unit-mounted, two-stage ductstat.

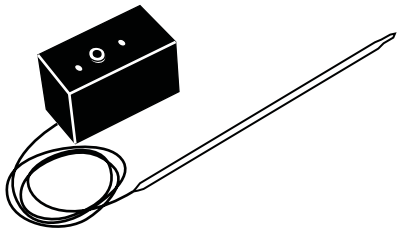
Option AG15 ELECTRONIC TWO-STAGE CONTROL USING DUCTSTAT (50°-130°F) WITH REMOTE TEMPERATURE ADJUSTMENT: Same type of control as Option AG3, but the setpoint of the ductstat is adjustable from a remote temperature-selector. Includes factory-installed sensor and field-installed temperature-selector module with an adjustable stage-adder module.

Options AG15

A = Ductstat Temperature Module P/N 115848

B = Stage Adder Module, P/N 115849 (quantity varies - see Option description)

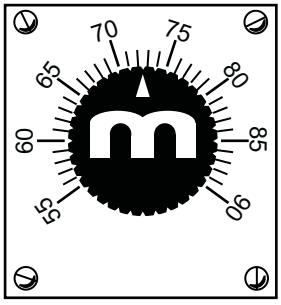
Options AG3



Unit-Mounted Ductstat P/N 41700 (quantity varies - see Option description)

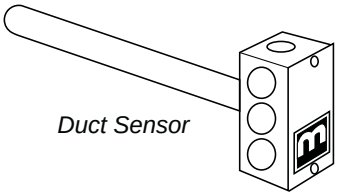
Option AG8 ELECTRONIC MODULATION (55°-90°F) WITH DUCTSTAT: Solid state control system, providing close temperature control through regulated manifold pressure. On a call for heat from a unit-mounted ductstat, controls modulate between 50% and 100%, as required. A room override thermostat (Option CL9) is available for use with this system. Temperature range 55° - 90°F.

Option AG9 ELECTRONIC MODULATION (55°-90°F) WITH DUCTSTAT AND REMOTE TEMPERATURE SELECTION: Control is the same as Option AG8 except that the duct sensor setpoint may be reset from a remote selector. A room override thermostat (Option CL9) is available for use with this system. (See illustration)



Maxitrol Signal Selector (AG9 Only)

AG21 ELECTRONIC MODULATION WITH DDC CONTROL: Used with customer-supplied 4-20MA or 0-10V input signal. Includes Maxitrol A200/SC10C-B6S1 signal conditioner and special modulating gas regulator.



Duct Sensor

REZNOR®

CONTROL OPTIONS (cont'd)

Applies to Model RPB

MAKEUP AIR HEATING APPLICATIONS (cont'd)

Option AG39 ELECTRONIC MODULATION (SEE FIRING RATE TURNDOWN PERCENT IN TABLE BELOW): **(Available with natural gas only)**

Description

- Reznor Option AG39 is an electronic modulation gas control that will provide precise control of discharge air temperature over an increased range of outside air conditions. It is now available on selected Models of Reznor gas furnaces.
- This option allows the furnace input ratio to be fully modulated between 100% and 28 to 20%.
- The part-load thermal efficiency of this system complies with and exceeds the current seventy-five percent minimum requirement of ASHRAE standard 90.1 for part-load efficiencies. This system offers an average thermal efficiency over the range of modulation that is equal to or exceeds the full input rate thermal efficiency.
- Furnaces with Option AG39 require stainless steel burners, a stainless steel heat exchanger, and a stainless steel bottom pan. The gas train includes a single-stage gas valve, a modulating valve, and two gas pressure switches. The burner rack is equipped with one flash carry-over and a regulated gas lighter tube system. The carry-over lighter tube receives its gas supply through the regulator, simultaneously with the gas to the burner. Control of the system is through a Maxitrol #A1092 amplifier with a corresponding remote temperature dial (Maxitrol® #TD92-0509).

Sensor Location

- The duct temperature sensor will be located in the discharge ductwork (Refer to the installation manual for recommend location).

Sample Specification

- The unit shall have electronic modulation offering at least full modulation to 28% of full fire (capacity) input rate.
- Modulating gas control shall be certified by CSA for use in The United States and Canada.
- The furnace shall maintain an average thermal efficiency over the range of modulation that is equal to or exceeds the full input rate thermal efficiency.
- The furnace shall ignite at any fire rate within its modulation range, not just high fire on start.

Option AG40 ELECTRONIC MODULATION (SEE FIRING RATE TURNDOWN PERCENT IN TABLE BELOW) WITH DDC CONTROL: Same system as AG39 but includes signal conditioner for use with customer-supplied 4-20MA or 0-10V input signal. **(Available with natural gas only)**

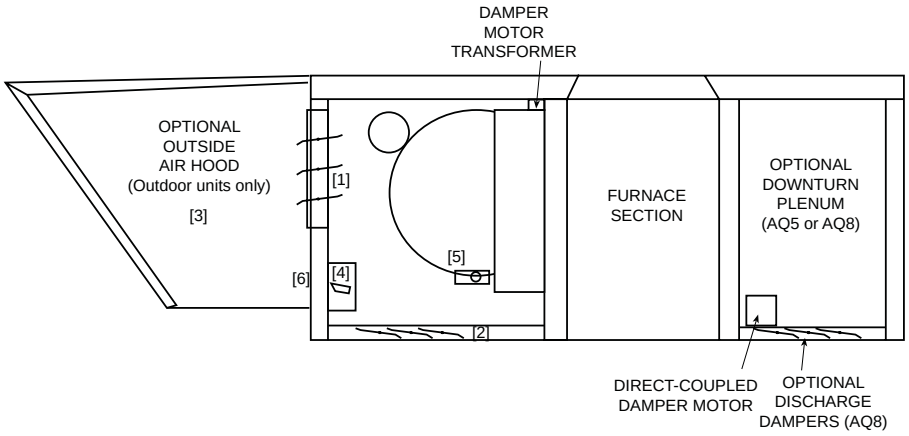
Options AG39 and 40		Maximum Trundown	Input Range		Gas Supply Pressure Required	
Model	Size	Percent	MBH	kW		
RPB	125	20%	25 - 125	7.3 - 36.6	5" w.c.	12.5 mbar
RPB	150	27%	40.3 - 150	11.8 - 44	5" w.c.	12.5 mbar
RPB	175	23%	40.3 - 175	11.8 - 51.3	5" w.c.	12.5 mbar
RPB	200	26%	51.8 - 200	15.2 - 58.6	5" w.c.	12.5 mbar
RPB	225	23%	51.8 - 225	15.2 - 65.9	5" w.c.	12.5 mbar
RPB	250	28%	69 - 250	20.2 - 73.3	5" w.c.	12.5 mbar
RPB	300	23%	69 - 300	20.2 - 87.9	5" w.c.	12.5 mbar
RPB	400	25%	100 - 400	29.3 - 117.2	6" w.c.	14.9 mbar

APPLICATION NOTE:** ***If the installation of a packaged unit with more than one furnace section requires that any of the controls in this table be used in conjunction with an override thermostat, additional factory-installed relays are required. Since this application is not covered by "normal" control sequence, the additional relays (Option BG2) must be specified.

REZNOR®

CONTROL OPTIONS (cont'd)
AIR CONTROL SYSTEMS
Applies to Model RPB

INLET AIR CONTROL OPTIONS



	[1]					[2]			[3]	[4]				[5]			[6]	[7]	
Option	Horiz. Inlet Air Opening	30% Horiz. O/A Opening	...with 100% O/A Dampers	...with O/A Damper	...with Duct Flanges and Insulation	Bottom Inlet Air Opening	...with R/A Damper	...with Duct Flanges and Insulation	30% O/A Hood	Damper Motor	2 Pos. Damper Motor	Modulating Damper Motor	Modulating Damper Motor with DDC	Mixed Air Controller	Potentiometer	Warm-up Control	Optional O/A Changeover	Remote Potentiometer	Remote Pressure Null Switch
STD	X																		
AR4						X			X										
AR6 [A]		X		X		X			X										
AR7 [A]		X		X		X			X	X									
AR8			X								X								
AR15				X			X					X		X	X	X	X		
AR17				X			X				X								
AR18 [B]				X			X					X						X	
AR23 [C]				X			X					X							X
AR24					X			X											
AR25				X			X						X						

[A] Outdoor units only.
[B] Includes manual locking quadrant - not shown.
[C] Includes remote potentiometer - not shown.
[D] Includes remote pressure null switch - not shown.

Standard Control - Outside Horizontal Air Inlet

Option AR4 - Bottom Return Air Inlet, 100% Return Air Inlet only - Designed for 100% recirculated heating system. **OUTDOOR UNITS ONLY.**

Option AR6 - 30% Outside Horizontal Air Inlet, Bottom Return Air Inlet, 30% Outside Air Hood, Outside Air Dampers: 100% Return Air Inlet, 30% Outside Air Inlet with Hood (see Outside Air Hood section) and Manual Outside Air Damper - Supplies constant 30% or less outside air to recirculating heating system. Outside air hood is shipped separately for field installation. **OUTDOOR UNITS ONLY.**

Option AR7 - 30% Outside Horizontal Air Inlet, Bottom Return Air Inlet, 30% Outside Air Hood, Outside Air Dampers, Damper Motor: 100% Return Air Inlet, 30% Outside Air Inlet with Hood (see Outside Air Hood section) and Motorized Outside Air Damper - Supplies 30% outside air to a recirculating heating system at specific times, as controlled by a time clock or switch. On shutdown, the outside air damper closes. Outside air hood is shipped separately for field installation.

Option AR8 - Outside Horizontal Air Inlet, Outside Air Dampers, Damper Motor (2-Position): 100% Outside Air Inlet, with Two-Position (open/closed) Motorized Damper - 100% outside air system which provides makeup air intermittently, usually in unison with a building exhauster. Outside air damper opens when unit is on; closes when units is off.

REZNOR®

CONTROL OPTIONS (cont'd)

Applies to Model RPB

INLET AIR CONTROL OPTIONS (cont'd)

Option AR15 - Outside Horizontal Air Inlet, Bottom Return Air Inlet, Outside Air Dampers, Damper Motor (Modulating), Return Air Dampers, Mixed Air Controller, Potentiometer, Warm Up Control : 100% Outside Air and 100% Return Air Inlets with Dampers, Modulating Damper Motor, Potentiometer, Mixed Air Controller and Warm-up Control (ASHRAE Cycle II) - 100% return air on warm-up and automatically controlled mix of outside/return air to meet the temperature setting of the mixed air controller after warm-up. A minimum amount of outside air is allowed after warm-up as determined by the potentiometer setting. When used with mechanical cooling, optional air change over control may be added. An outside air change over control (not included in Option AR15 package) closes outside air dampers when the entering air reaches a set temperature (Usually 75 degrees F).

Option AR17 - Outside Horizontal Air Inlet, Bottom Return Air Inlet, Outside Air Dampers, Damper Motor (2-Position), Return Air Dampers: 100% Outside Air and 100% Return Air Inlets with Dampers and a Two-Position Damper Motor - 100% return air or 100% outside air as controlled by a switch or time clock. ON shutdown, the outside air damper closes.

Option AR18 - Outside Horizontal Air Inlet, Bottom Return Air Inlet, Outside Air Dampers, Damper Motor (Modulating), Return Air Dampers, Remote Potentiometer: 100% Outside Air and 100% Return Air Inlets with Dampers, a Modulating Damper Motor and Potentiometer - Mixture of return and outside air as controlled by a manually set remote potentiometer. On shutdown, the outside air damper closes.

Option AR25 - Outside Horizontal Air Inlet, Bottom Return Air Inlet ,Outside Air Dampers, Damper Motor with DDC, Return Air Dampers: Includes outside air damper and return air damper linked together with a modulating damper motor with an interface module to accept a 0 - 10 volt, or 4 - 20 mA signal from a D.D.C. system, to position the dampers for mixed air.

DISCHARGE AIR OPTIONS

	Horiz. Discharge Air Opening w/ Duct Flanges	Downturn Plenum for Vertical Discharge Air	Vertical Discharge Air Opening w/ Duct Flanges	2-Position Dampers
STD	X			
AQ5		X	X	
AQ8		X	X	X

Standard Discharge - Installation that requires connection to horizontal ductwork before turning downward or where immediate downturn ductwork with horizontal connection is field supplied.

- 3/4" Duct Flange designed for "U" channel top/bottom ductwork connection and "L" type on each side

Option AQ5 - Installation where vertical ductwork is attached and sealed directly to the duct flange on the bottom of the downturn plenum cabinet.

- Downturn Plenum Cabinet
- 1" Duct Flange for slip-type connection (flange is perpendicular to the cabinet)

Options AQ8 - Installation where vertical ductwork is attached and sealed directly to the duct flange on the bottom of the downturn plenum cabinet. The two-position (open/close) dampers in the discharge opening are designed to isolate the unit from the building atmosphere when the system is not operating. The damper motor is located inside the downturn plenum cabinet.

- Downturn Plenum Cabinet
- Two-Position Dampers
- Direct-Coupled Motor (rated for use in discharge airstream)
- 1" Duct Flange for slip-type connection (flange is perpendicular to the cabinet)

REZNOR®

OUTSIDE AIR HOOD OPTION

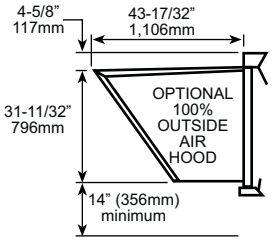
SCREENED OUTSIDE AIR HOOD FOR 100% OUTSIDE AIR INLET OPENING

Applies to Model RPB

DESCRIPTION

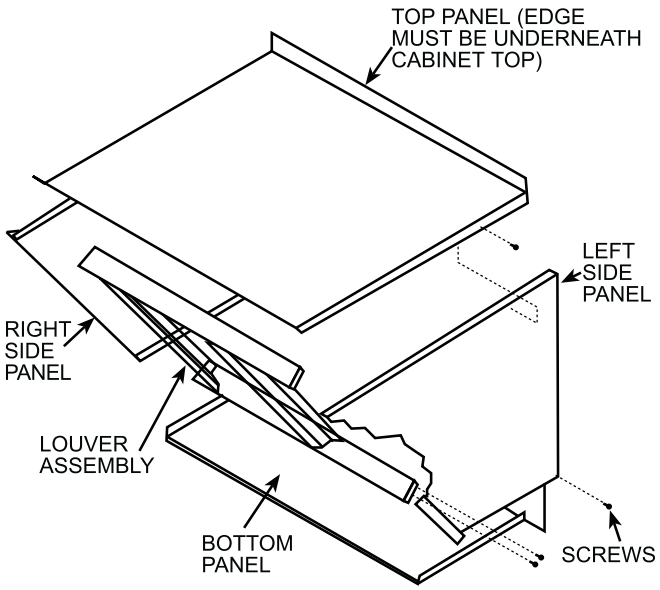
Option AS2, Outside Air Hood, is a weatherized screened hood designed to be field assembled and installed around the horizontal inlet air opening of a Model RPB or RPBL packaged unit or a Model RBL blower cabinet. The air hood includes a pre-assembled louver assembly designed to help eliminate moisture from the inlet air.

Models	Size	Width of Outside Air Hood	
		in.	mm
RPB	**125**	28 5/8	727
RPB	**150, 175**	34 1/8	867
RPB	**200, 225**	39 5/8	1,006
RPB	**250, 300**	47 7/8	1,216
RPB	**350**	53 3/8	1,356
RPB	**400**	58 7/8	1,495



Note: The width of the outside air hood is the same as the width of the blower cabinet.

MODEL	SIZE	125	150, 175	200, 225	250, 300	350	400
RPB	**lbs.**	70	76	79	87	92	96
	(kg)	(32)	(34)	(36)	(39)	(42)	(44)

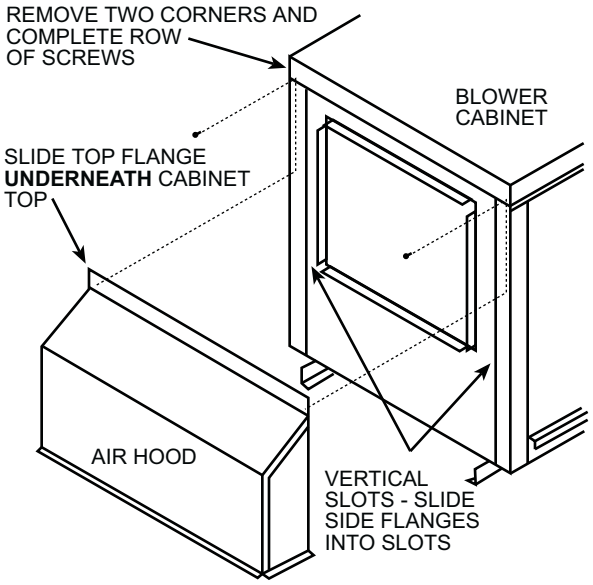


30% OUTSIDE AIR HOOD SUPPLIED WITH INLET AIR OPTIONS AR6 AND AR7 (see description in Air Control Option section)

DESCRIPTION

The outside air hood included in the air inlet options that provide 30% outside air (Options AR6 and AR7) is shipped separately for field installation. The hood is factory assembled but requires field attachment to the blower cabinet. Illustrated instructions are provided.

RPB		Width of 30% Hood
125	**in.**	28 5/8
	(mm)	(727)
150, 175	**in.**	34 1/8
	(mm)	(867)
200, 225	**in.**	39 5/8
	(mm)	(1,006)
250, 300	**in.**	47 7/8
	(mm)	(1,216)
350	**in.**	53 3/8
	(mm)	(1,356)
400	**in.**	58 7/8
	(mm)	(1,495)

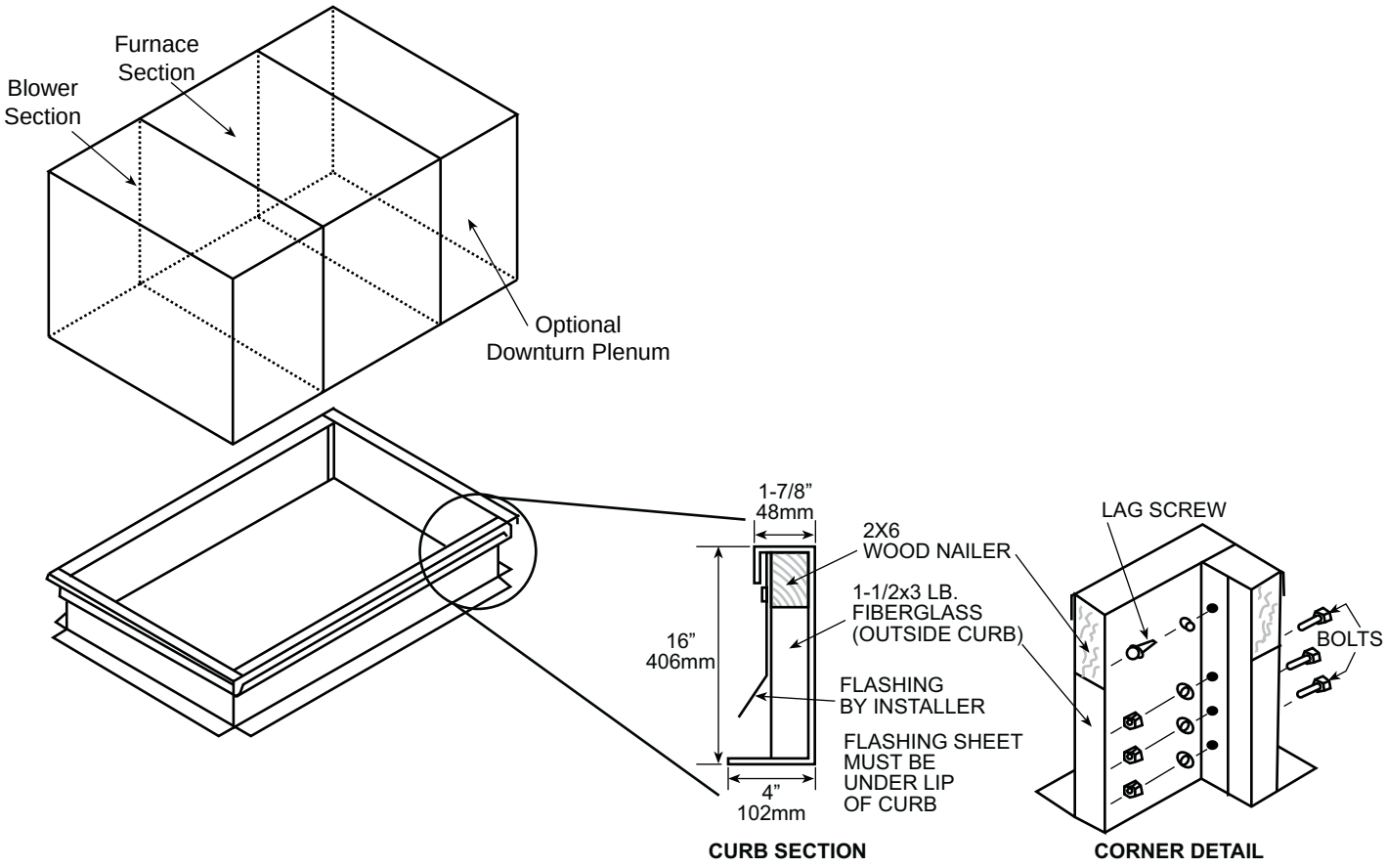


REZNOR®

ROOF CURB OPTION

Applies to Model RPB

Reznor optional roof curbs are available in sizes to fit all Reznor packaged heating/makeup air systems. Roof curbs are shipped in pre-assembled sections constructed of 16 gauge aluminized steel, 2x6 wood nailers and 3# fiberglass insulation. Field assembly and installation are required.



CURB SECTION **CORNER DETAIL**

REZNOR®

REZNOR® PRODUCT LIMITED WARRANTY

Manufacturer warrants to the original owner-user that this Reznor product will be free from defects in material or workmanship. This warranty is limited to twelve (12) months from the date of original installation, whether or not actual use begins on that date, or eighteen (18) months from date of shipment, whichever occurs first.

OPTIONAL PURCHASED EXTENDED WARRANTY

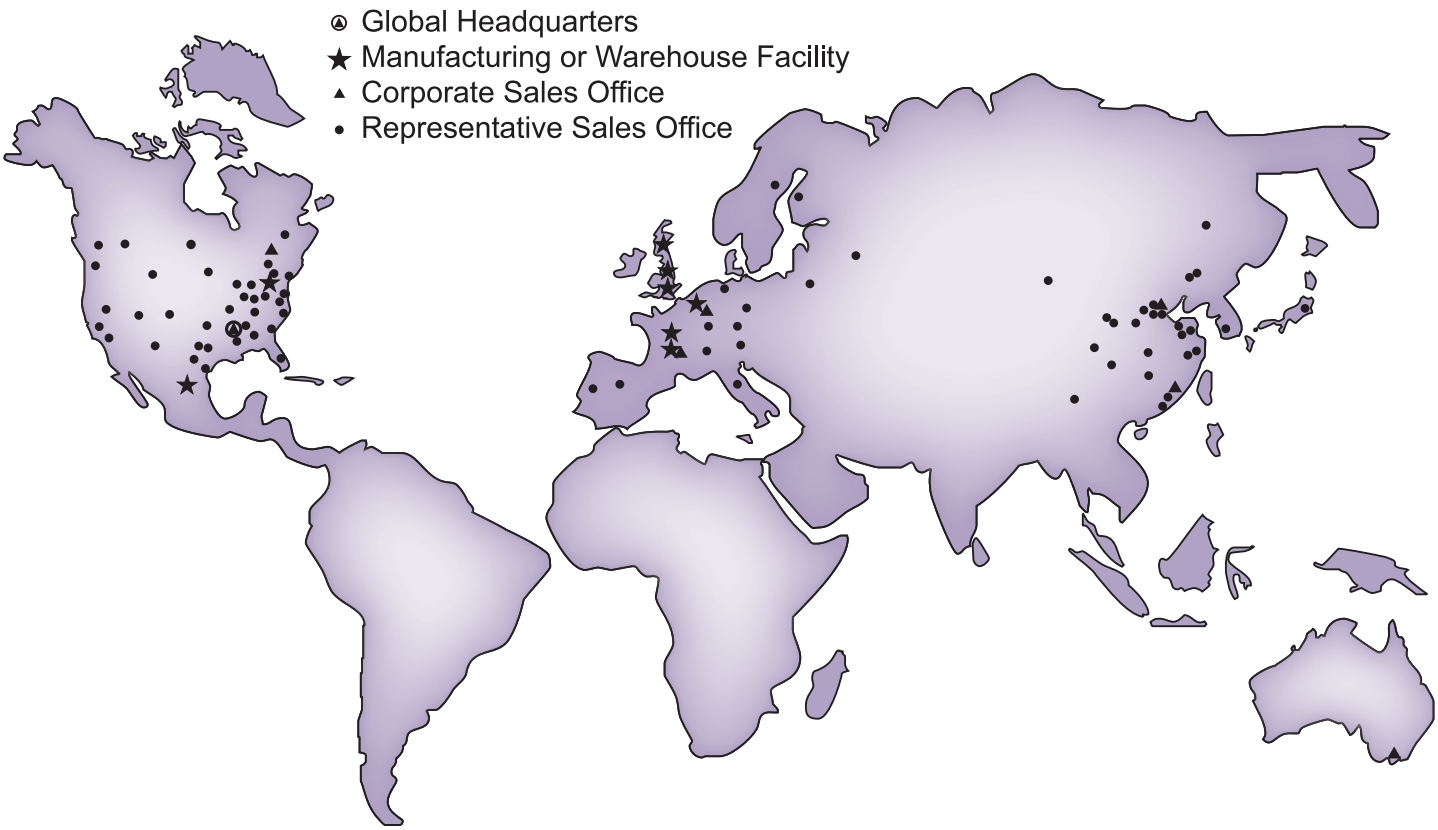
Models RPBL and SSCBL — Option XW2 - Extended four (4) years for a total five-year, non-prorated warranty on the heat exchanger. — **Option XW3 -** Extended nine (9) years for a total ten-year, non-prorated warranty on the heat exchanger.

LIMITATIONS AND EXCLUSIONS

Manufacturer's obligations under this warranty and the sole remedy for its breach are limited to repair, at its manufacturing facility, of any part or parts of its Reznor products which prove to be defective; or, in its sole discretion, replacement of such products. All returns of defective parts or products must include the product model number and serial number, and must be made through an authorized Reznor distributor or arranged through Reznor Customer Service. Authorized returns must be shipped prepaid. Repaired or replacement parts will be shipped F.O.B. shipping point.

1. The warranty provided herein does not cover charges for labor or other costs incurred in the troubleshooting, repair, removal, installation, service or handling of parts or complete products.
2. All claims under the warranty provided herein must be made within ninety (90) days from the date of discovery of the defect. Failure to notify manufacturer of a warranted defect within ninety (90) days of its discovery voids obligations hereunder.
3. The warranty provided herein shall be void and of no effect in the event that (a) the product has been operated outside its designed output capacity (heating, cooling, airflow); (b) the product has been subjected to misuse, neglect, accident, improper or inadequate maintenance, corrosive environments, environments containing airborne contaminants (silicone, aluminum oxide, etc.), or excessive thermal shock; (c) unauthorized modifications are made to the product; (d) the product is not installed or operated in compliance with the manufacturer's printed instructions; (e) the product is not installed and operated in compliance with applicable building, mechanical, plumbing and electrical codes; or (f) the serial number of the product has been altered, defaced or removed.
4. The warranty provided herein is for repair or replacement only. Manufacturer shall not be liable for any loss, cost, damage, or expense of any kind arising out of a breach of the warranty. Further, manufacturer shall not be liable for any incidental, consequential, exemplary, special, or punitive damages, nor for any loss of revenue, profit or use, arising out of a breach of this warranty or in connection with the sale, maintenance, use, operation or repair of any Reznor product. In no event will manufacturer be liable for any amount greater than the purchase price of a defective product. The disclaimers of liability included in this paragraph 4 shall remain in effect and shall continue to be enforceable in the event that any remedy herein shall fail of its essential purpose.
5. THIS WARRANTY IS THE SOLE AND EXCLUSIVE WARRANTY FOR REZNOR PRODUCTS, AND IS IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES. MANUFACTURER SPECIFICALLY DISCLAIMS ALL OTHER EXPRESS AND IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. No person or entity is authorized to bind manufacturer to any other warranty, obligation or liability for any Reznor product. Installation, operation or use of the Reznor product for which this warranty is issued shall constitute acceptance of the terms hereof.

Reznor® is your global source for heating, ventilating and air conditioning equipment.



REZNOR®

For more information on Reznor HVAC Equipment, contact your local Reznor Representative by calling 800-695-1901.
Or, find us on the internet at www.ReznorHVAC.com

In keeping with our policy of continuous product improvement, we reserve the right to alter, at any time, the design, construction, dimensions, weights, etc., of equipment information shown here.

0315 POD OG Form C-AH