

PROJECT: _____

LOCATION: _____

ARCHITECT: _____

ENGINEER: _____

CONTRACTOR: _____

SUBMITTED BY: _____

(I) PILOT	(II) HEATING/MAKEUP AIR (MUA) CONTROL (See Page ____ of ____)		
1. Manual match-lit pilot	1. One-stage heating	5. Four-stage with ductstat	9. Electronic modulation with room sensor
2. Intermittent spark pilot	2. Two-stage heating	(MUA)	10. Electronic modulation with ductstat (MUA)
3. Intermittent spark pilot with timed lockout	3. Two-stage with ductstat (MUA)	6. Six-stage with ductstat (MUA)	11. Electronic modulation with ductstat and remote setpoint adjustment (MUA)
4. Intermittent hot surface pilot with lockout	4. Three-stage with ductstat (MUA)	7. Mechanical modulation	12. Electronic modulation (MUA) reset from space temperature
	8. Mechanical modulation		

OPTIONS AND NOTES:

Makeup Air Schedule (Heat) w/o exhaust

Line No.	Model-Size / Unit Tag	Supply Fan			Heating				Power			
		Supply Airflow SCFM	Min OA SCFM	ESP in wc	FuelType	Winter			Voltage V//Hz	FLA A	MCA A	MOP A
						OutputDsgn/Max MBH	EAT F	LAT F				
1	RPBL-600 / HV - C4, C5	7200	7200	1.000	Natural	326.6 / 480.0	30.0	72.0	460 / 3 / 60	23.34	29.18	50.00

Included Options for RPBL-600 / HV - C4, C5

AA1 Unit equipped for natural gas heating. Natural gas is a naturally occurring gas mixture consisting primarily of methane and includes varying volumes of alkanes, carbon dioxide, nitrogen, and hydrogen sulfide. 1 Therm = 100,000 BTU = 29.3kWh

AB1 Burner orifices for elevations 0-2000 Feet

AC2 Heat exchanger is manufactured from die-formed halves of 409 E-3 Stainless Steel. Design for improved corrosion resistance over standard heat exchanger material.

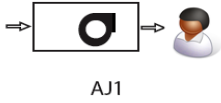
AD2 Units supplied with steel die-formed atmospheric burners constructed with 409 E-3 stainless steel ribbon inserts. Burners are designed with a die-formed flared venturi inlet ports. Units provided with 409 E-3 stainless steel burner body construction.

AE1 Standard Burner no air shutters

AF2 Burner drip pan and unit bottom panel of 409 E-3 stainless steel are provided to manage condensation from heat exchanger cells.

AG21 Gas controls designed for makeup air heating applications. Furnace is provided with a 24 volt, electronic modulating gas valve which provides for firing rates between 50% and 100%. The valve is controlled by an electronic signal conditioner that uses a direct digital control signal of either 4-20 mA., or 0-10 Volts, provided by an external D.D.C. system.

AH2 Spark-ignited, intermittent safety pilot with electronic flame supervision



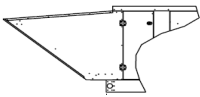
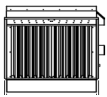
AJ1 Left side control location facing airstream standard

AK7 460 Volt, Three Phase, 60 cycle supply voltage.

AL12 10 HP 1800 RPM open style blower motor

AM17 Fan/drive at 1201-1250 RPM

AQ5 Downturn plenum Supply Air cabinet with bottom discharge and no discharge dampers.



AS2 100% outside air screened inlet hood with moisture eliminator louvers

AU0 NO COIL SECTION

AW11 Filter rack with 2" disposable pleated filters

AY2 Single wall with insulation

BG7A UNT START REL,24V SIGNAL BY OTH



BP4 High and Low gas manifold pressure switches. The auto reset low pressure switch will shut off the gas to the manifold when the gas pressure falls below 50% of the maximum manifold pressure. The manual reset high pressure switch will shut off gas to the manifold when the gas pressure rise to 125% of the maximum manifold pressure. See IOM for ratings.

BY1 Units to be supplied from factory certified by AGA and US standards of ANSI.

DR2 Adjustable V-Belt Drive Blower

PC12 Rubber vibration isolation for blower motor

SH1 Ship Via Flatbed no crating

SPEC MERV 13 Filters

VFCA VFD SOFT START



VFD1 Variable Frequency Drive, Installed in Unit. Variable Frequency Drive features a NEMA 1 Enclosure, Swinging Choke, Sensorless vector Control, and Factory set-up. Should not be installed in unit if subjected to temperatures below 18F

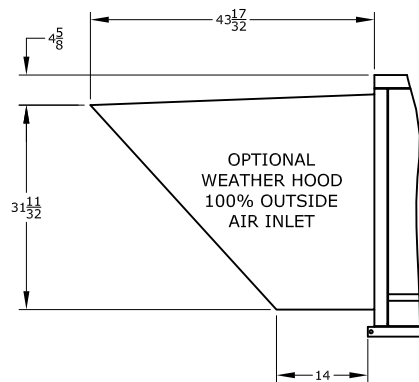
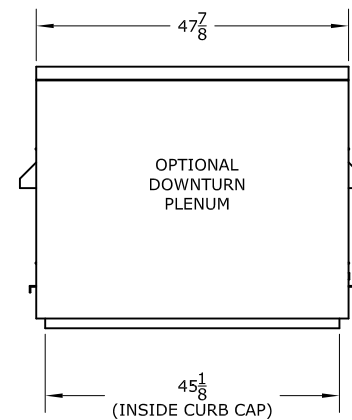
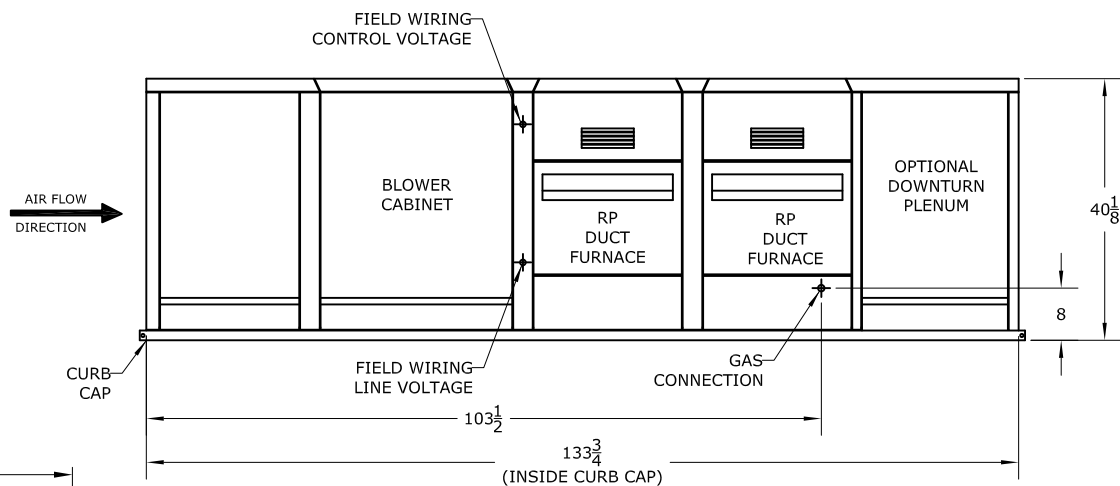
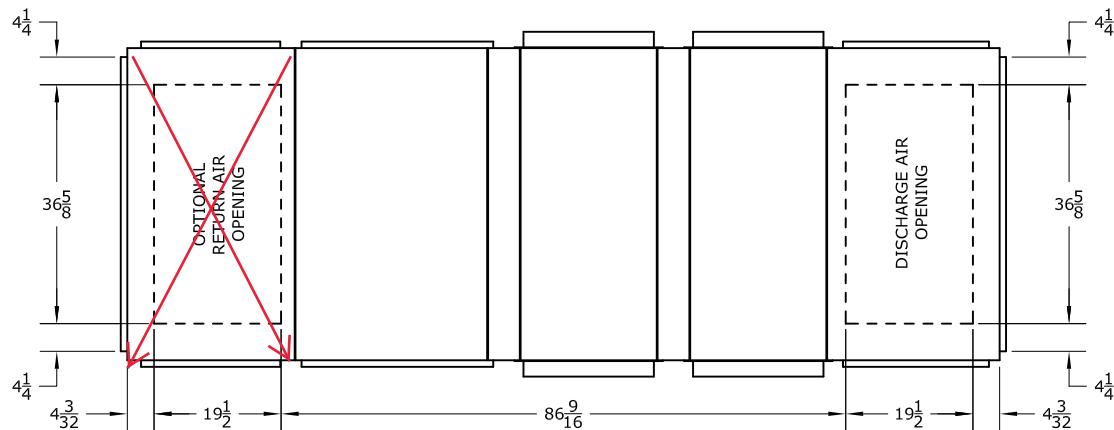
ZZ0 Unit has no cooling provided.

MODEL(S)

-RPBL 500

-RPBL 600

RPBL_B_DT



ALL DIMENSIONS ARE IN INCHES

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.

- 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
- 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

OPTIONAL FEATURES - FIELD INTALLED

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
	(m³/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"

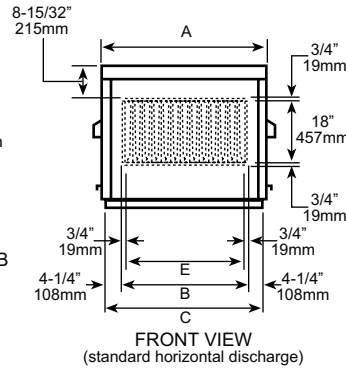
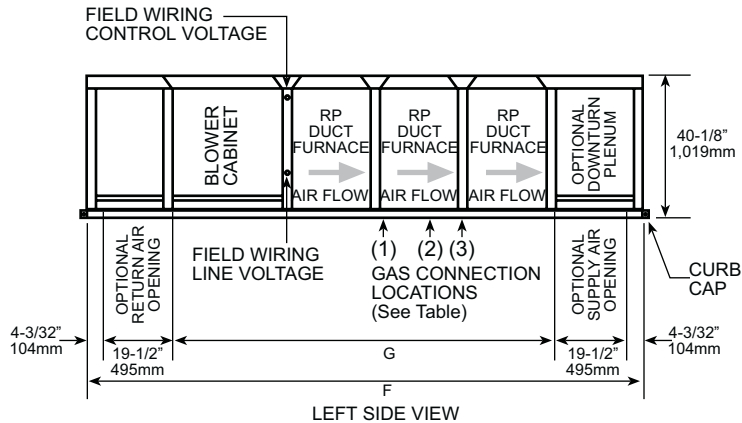
^A In the U.S. ratings are for altitudes to 2000 feet. Above 2000 feet derate by orifice change, 4% for each 1000 feet above sea level. In Canada ratings are for altitudes to 2000 feet. High altitude units (2001 to 4500 ft.) are derated by 10% of maximum input.

^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.

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 Air 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)

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" (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)

This connection is at curb cap "height" on the control side of the system

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).

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)

	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 (kg) (123)	229 (104)	253 (115)	271 (123)	253 (115)	271 (123)	
Weights of options shipped separately for field assembly and installation:								
AS2	Outside Air Inlet Hood	lbs. 96 (kg) (44)	87 (39)	92 (42)	96 (44)	92 (42)	96 (44)	
CJ1	Roof Curb for Basic Unit	lbs. 150 (kg) (68)	167 (76)	173 (78)	179 (81)	202 (92)	280 (127)	
CJ2	Roof Curb for Unit with Downturn Plenum Cabinet	lbs. 177 (kg) (80)	193 (88)	199 (90)	205 (93)	228 (103)	234 (106)	

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	Pressure Drop with Permanent Alum. Filters ^A	Pressure Drop with Pleated Filters ^A	Pressure Drop with Evaporative Cooler		Pressure Drop with O/A Hood	Pressure Drop with Dampers	Pressure Drop with Downturn Plenum	Pressure Drop with Cooling Coil ^B		External Pressure Drop (Distribution Duct System)	Total Adjusted Pressure Drop	
		2"	2"	2"	12" Media	Moisture Elimination Pad				Dry	Wet		Heating	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					
500	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					
	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					
700	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					
	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					
800	13,000	N/A	0.50	N/A	0.36	0.250	1.31	0.15	0.46					
	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	—	—	—	—	—	—	—	—	—	—
	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	1350/7.0
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	—	—	—	—	—	—	—	—	—	—	—
	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	1410/1											

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.

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.*

MAKEUP AIR HEATING APPLICATIONS

***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.

CONTROL OPTIONS continued

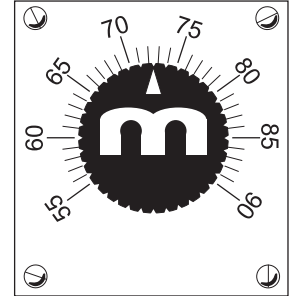
HEATING CONTROL OPTIONS - APPLIES TO MODELS RPBL, RPB & SSCBL

MAKEUP AIR HEATING APPLICATIONS continued

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.

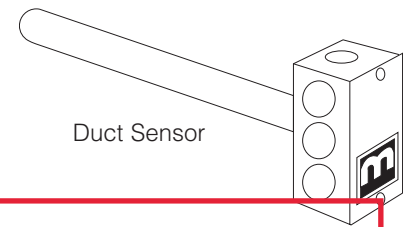


Maxitrol Signal Selector (AG9 Only)

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)



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.

MINIMUM QUANTITY OF RELAYS (Option BG2) REQUIRED WHEN:	Model	Size	AG3	AG4	AG5	AG15	AG17, AG18	AG19, AG20
<ul style="list-style-type: none"> Pkg Model w/2 or 3 furnaces with AG Option Listed (right) plus Override Thermostat 	RPBL	500, 600, 700, 800	4	2	N/A	4	2	N/A
		1050, 1200	6	N/A	3	6	N/A	3

OPTION AG39

ELECTRONIC MODULATION (SEE FIRING RATE TURNDOWN PERCENT IN TABLE BELOW):

(Available with natural gas Model RRB and only on Model 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).

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.

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)

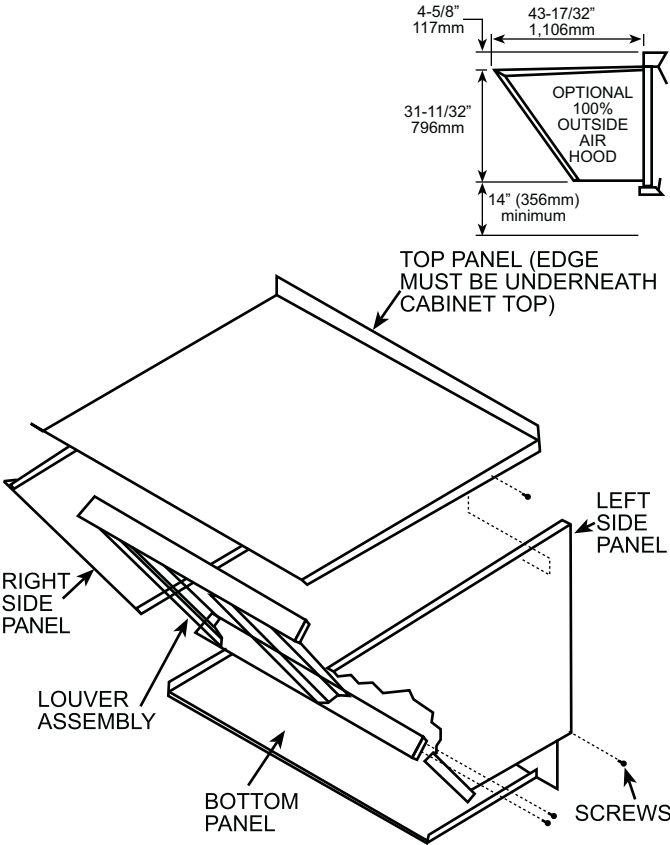
DESCRIPTION

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)	--	--	--

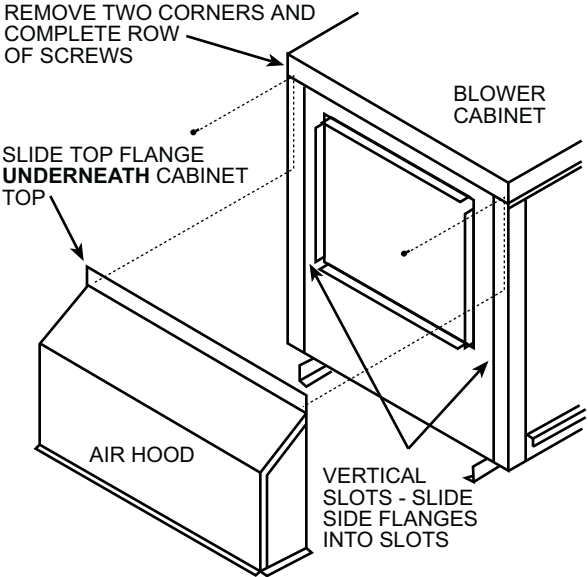


30% OUTSIDE AIR HOOD SUPPLIED WITH INLET AIR OPTIONS AR6 AND AR7
(see description in Air Control Option section)

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)





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
Totally Enclosed	AL16	20 HP	1800	■	■	SV	SV	SV	SV
	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® 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.

WARRANTY

Applies to: Nortek Global HVAC, LLC Products

JOB RECORD

JOB _____
INSTALLATION DATE _____
CONTRACTOR _____
DISTRIBUTOR _____

MANUFACTURER PRODUCT LIMITED WARRANTY

Nortek Global HVAC, LLC warrants to the original owner-user that this product will be free from defects in material and 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.

MANUFACTURER REPLACEMENT PARTS LIMITED WARRANTY

Nortek Global HVAC, LLC warrants replacement parts for thirty (30) days after installation or thirteen (13) months from date of shipment, whichever occurs first.

EXTENDED WARRANTY

(Limited to the following Models, Components, and Applications. See *Application NOTE* below.)

Model ZQYRA—Extended one (1)-year, non-prorated warranty on all parts.

Models F and B—Extended nine (9)-year, non-prorated warranty on the heat exchanger, burners, draft hood, and flue baffle assembly. Extended four (4)-year, non-prorated warranty on all electrical and mechanical operating components (with the exception of blower belts on Model B).

Models UBX, UBZ, UDX, UDZ, and UEZ—Extended nine (9)-year, non-prorated warranty on the heat exchanger, burner, and flue collection box assembly. Extended four (4)-year, non-prorated warranty on all electrical and mechanical operating components (with the exception of blower belts on Models UBX and UBZ).

Model CAUA—Extended nine (9)-year, non-prorated warranty on the heat exchanger and burners. Extended four (4)-year, non-prorated warranty on all electrical and mechanical operating components (with the exception of blower belts).

Models VCS, VCT, VPS, VPT, VR—Extended nine (9)-year, non-prorated warranty on all tubes. Extended four (4)-year, non-prorated warranty on the burner and all electrical and mechanical operating components.

Model OH—Extended four (4)-year, non-prorated warranty on the heat exchanger and combustion chamber.

Models AEB and PCD—Extended four (4)-year, non-prorated warranty on standard stainless steel primary and secondary heat exchangers.

Application NOTE: Extended warranty on electrical and mechanical operating components does not apply to any HVAC equipment installed in highly humid environments such as greenhouses.

OPTIONAL PURCHASED EXTENDED WARRANTY

(Purchased with and limited to the following Models and Components.)

Option XW1—Extended four (4) years for a total five-year, non-prorated warranty on compressors.

For Models: PEH, PXH, PDH, RCB, RDB, RDCB, RDDB, RECB, REDB, RCC, RDC, RDCC, RDDC, RECC, REDC, RHH, REH, RXH, RDH, SDH, SHH, MASA, YDHA, YDMA, YDSA, DF6SF, JS4BD, JT4BD, P6SD, P6SP, Q6SD, Q6SP, R6GD, R6GF, R6GI, R6GP, R6GN, R8GD, R8HE, S5BP, T5BP

Option XW2—Extended four (4) years for a total five-year, non-prorated warranty on the heat exchanger.

For Models: PDH, PXH, SDH, SHH, RDH with AC2 or AC4, RHH with AC5, RDCB, RDDB, RDCC, RDDC, RPB, RPBL, SCE, SSCBL, YDHA, YDMA, YDSA

Option XW3—Extended nine (9) years for a total ten-year, non-prorated warranty on the heat exchanger.

For Models: PDH, PXH, SDH, SHH, RDH with AC2 or AC4, RHH with AC5, RDCB, RDDB, RDCC, RDDC, RPB, RPBL, SCE, SSCBL, YDHA, YDMA, YDSA, B6BMM, DF6SF, R6GD, R6GF, R6GI, R6GP, R6GN, R8GD, R8HE

Option XW4—Extended four (4) years for a total five-year, non-prorated warranty on electric furnace.

For Models: PEH, REH, RECB, REDB, RECC, REDC, YDHA, YDMA, YDSA

Option XW8—Extended one (1) year for a total two-years, non-prorated warranty on all parts (including compressor and heat section).

For Models: YDHA, YDMA, YDSA, B5SM, B6BMM, DF6SF, JS4BD, JT4BD, P6SD, P6SP, Q6SD, Q6SP, R6GD, R6GF, R6GI, R6GP, R6GN, R8GD, R8HE, S5BP, T5BP

Option XW9—Extended three (3) years for a total five-year, non-prorated warranty on all parts.

For Model: ZQYRA

Option XW10—Extended eight (8) years for a total ten-year, non-prorated warranty on all parts.

For Model: ZQY1

LIMITATIONS AND EXCLUSIONS

Nortek Global HVAC, LLC (Nortek) 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 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 distributor or arranged through 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.

EXCEPTION: Model WS—If heat exchanger leaks or other failure occurs within the warranty period, Nortek will pay up to \$50 for qualified contractor to make necessary repairs. If the heat exchanger cannot be repaired, Nortek will exchange the defective unit for a new hydronic heater.

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 the manufacturer of a warranted defect within ninety (90) days of its discovery voids obligation 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. the manufacturer shall not be liable for any loss, cost, damage, or expense of any kind arising out of a breach of the warranty. Further, 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 product. In no event will 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 NORTEK PRODUCTS, AND IS IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES. NORTEK GLOBAL HVAC LLC 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 NORTEK to any other warranty, obligation, or liability for any product. Installation, operation, or use of the product for which this warranty is issued shall constitute acceptance of the terms hereof.

6. Failure and replacement caused by contamination from bacteria are excluded from warranty coverage (i.e. dirty sock syndrome). Consequential or other damage(s) caused by rust, brownouts, blackouts, oxidation, corrosion, water, water condition, freezing, fire, other abnormal environmental conditions or other natural acts are excluded from warranty coverage. Premature failure due to the use of inferior building materials such as high sulfur content dry wall, corrosive conditions caused by location, moisture, green slime, etc. are also excluded from warranty coverage.

7. This warranty does not apply to parts that fail as a direct result of environmental influences.

Specifications and illustrations subject to change without notice or incurring obligations.

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