PAGE	of
FAGE	OI .

SUBMITTAL COVER SHEET

PROJECT: LOCATION:

ARCH	ITECT:											
ENGINEER:												
CONT	RACTOR:											
SUBM	SUBMITTED BY:											
Qty	Unit Designation	Model and Size	MBH Output	Type of Fuel	Motor HP	RPM	CFM	External Static Pressure	Voltage and Phase	Pilot (I)	Heating Control (II)	Temp Rise (@ Hi Fire)
1											_	
2												
3												
4												
5												
6												
with 4. Interpilot NOTES	 Intermittent spark pilot Intermittent spark pilot with timed lockout Intermittent hot surface pilot with lockout MUA) Intermittent hot surface pilot with lockout Three-stage with ductstat (MUA) Mechanical modulation with full fire bypass NOTES: (1) For description of RDF controls, refer to Form RGM S-MA, Manifold Arrangements; (2) For hydronic products, use Submittal Cover Sheet Form RGM S-HYDCRVR. OPTIONS AND NOTES: 											
						-						

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Makeup Air Schedule (Heat) w/o exhaust

			Supply Fan		Heating				Power			
						Winter						
Line No.	Model-Size / Unit Tag	Supply Airflow	Min OA	ESP	FuelType	OutputDsgn/Max	EAT	LAT	Voltage	FLA	MCA	МОР
		SCFM	SCFM	in wc		МВН	F	F	V//Hz	A	A	A
1	RPBL-700 / HV - B3, B4, B5, B6	9000	9000	0.800	Natural	408.2 / 560.0	30.0	72.0	460 / 3 / 60	32.24	40.30	70.00
2	RPBL-400 / HV - G1	7474	7474	1.000	Natural	320.0 / 320.0	30.0	69.6	208/3/60	27.30	34.12	50.00





Included Options for RPBL-700 / HV - B3, B4, B5, B6

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.
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.



AJ1 Left side control location facing airstream standard

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

AL16 20 HP 1800 RPM open style blower motor

AM18 Fan/drive at 1251-1300 RPM

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



AR1 100% O/A Makeup -- Constant Supply Air Volume, Horizontal Discharge.





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

AU0 NO COIL SECTION

AW11 Filter rack with 2" disposable pleated filters



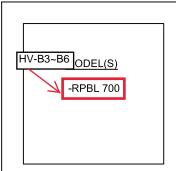
	AY2 Single wall with insulation
	BG7A UNT START REL,24V SIGNL BY OTH
ptional Gas ressure Switches	BP4 High and Low gas manifold pressure switches. The auto reset low pressure switch will shut off the gas to the manifold when the gas pressure falls below 50% of the maximum manifold pressure. The manual 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
	PC0 STANDARD MOTOR/BLOWER MOUNT
	SH1 Ship Via Flatbed no crating
	SPEC MERV13 Filters
	VFCA VFD SOFT START



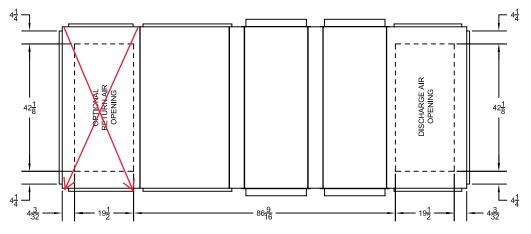


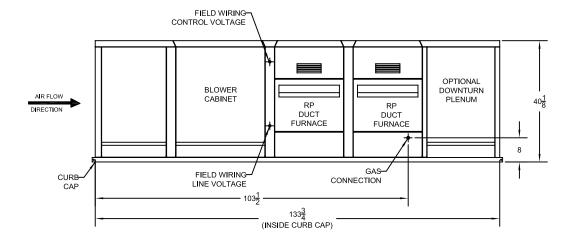
VFD1 Variable Frequency Drive, Installed in Unit. Variable Frequency Drive features a NEMA 1 Enclosure, Swinging Choke, Sensorless vector Control, and Factory set-up. Should not be installed in unit if subjected to temperatures below 18F

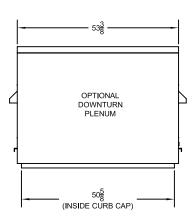
ZZ0 Unit has no cooling provided.



RPBL_C_DT









Included Options for RPBL-400 / HV - G1

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
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.
AF2 Burner drip pan and unit bottom panel of 409 E-3 stainless steel are



AJ1 Left side control location facing airstream standard

AK5 208 Volt, Three Phase, 60 cycle supply voltage.

AL10 5 HP 3450 RPM open style blower motor

AM14 Fan/drive at 1051-1100 RPM

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



AR1 100% O/A Makeup -- Constant Supply Air Volume, Horizontal Discharge.





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 SIGNL BY OTH
ptional Gas ressure Switches	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
	PC0 STANDARD MOTOR/BLOWER MOUNT
	SH1 Ship Via Flatbed no crating
	SPEC MERV13 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.

RPBL_A_DT HV - G1 MODEL(S) -RPBL 400 47<u>5</u> FIELD WIRING CONTROL VOLTAGE OPTIONAL DOWNTURN PLENUM OPTIONAL DOWNTURN PLENUM BLOWER AIR FLOW CABINET $40\frac{1}{8}$ DIRECTION DUCT FURNACE 8 GAS-FIELD WIRING-CURB-CONNECTION LINE VOLTAGE $\begin{array}{c} 56\frac{1}{8} \\ \text{(INSIDE CURB CAP)} \end{array}$ CAP $\begin{array}{c} -107\frac{3}{4}\\ \text{(INSIDE CURB CAP)} \end{array}$ 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)



MODEL RPBL (cont'd)

- 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)

•			cooling module	ΉV	7-
	HV-0	G1			_
	_				

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
neating input	(kW)	(117.2)	(146.6)	(175.9)	(205.2)	(234.5)	(307.8)	(351.7)
Thermal Output Capacity	BTUH	320,000	400,000	480,000	560,000	640,000	840,000	960,000
(80%) ^A	(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
All Volume Range	(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
Net Weight	(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
Ship Weight	(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"

-B3~B6

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.

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

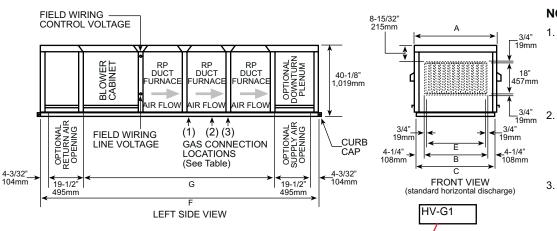


MODEL RPBL (cont'd)

HV-B3~B6

HV-G1

(+ 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.
 - 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.

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

Key - RPBL Dimensions:

HV-B3~

Width of Cabinet Width of Optional Downturn Plenum Discharge Air Opening Width of Standard Horizontal Air Inlet Opening Width of Optional Return Air (Bottom Opening) Width of Inside of the Curb Cap E = Width of Standard Horizontal Discharge Air Opening Overall Length of Inside of Curb Cap (with or without downturn plenum)

Distance between Optional Return Aair Cabinet Opening and Optional Downturn Plenum Discharge Air Opening Dimensions Air Openings

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)

-B6	ize		Α	В	С	E
	300, 600	in.	47 7/8	36 5/8	45 1/8	34 1/2
	300, 800	(mm)	(1,216)	(930)	(1,146)	(876)
\mathcal{U}	700, 1050	in.	53 3/8	42 1/8	50 5/8	40
	700, 1030	(mm)	(1.356)	(1.070)	(1.286)	(1.016)
1	400, <mark>800,</mark>	in.	58 7/8	47 5/8	56 1/8	45 1/2
	1200	(mm)	(1,495)	(1,210)	(1,426)	(1,156)

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 noncombustible material which has an "R" value of at least 5.0).

- 2. Control Side 56" (1,422mm).
- 3. Top Overhangs 36" (914mm).

	V
	700. 050
x20,	(2) 16x25, (4) 12x20,
x25	(4) 12x30
x25, x26	(2) 16x25, (8) 12x26

HV-B3~B6

ALL UNITS

\ .					
	SIZE	No. of Furnace Sections		F	G
\		1 (without downtum)	in.	83 3/4	
1	400	1 (without downturn)	(mm)	(2,127)	
	400	1 (with entional downtum)	in.	107 3/4	60 5/16
		1 (with optional downturn)	(mm)	(2,737)	(1,532)
		2 (without downtum)	in.	109 3/4	
	500, 600,	2 (without downturn)	(mm)	(2,788)	
_	700, 800 [°]	2 (with antional downtum)	in.	133 3/4	86 5/16
		2 (with optional downturn)	(mm)	(3,397)	(2,192)
HV-B3~B6		2 (without downtum)	in.	135 3/4	
	ا م	3 (without downturn)	(mm)	(3,448)	
	1050, 1200	2 (with antional downturn)	in.	159 3/4	112 5/16
		3 (with optional downturn)	(mm)	(4.058)	(2.853)

J	•	400,	800, 1200	500, 600		700. 050
1" or 2"	(2)	16x1	6, (4) 12x25,	(1) 16x25, (4) 12x20,	(2)	16x25, (4) 12x20,
Disposable	(1)	16x2	25, (4) 12x30	(1) 16x20, (4) 12x25	(4)	12x30
1" or 2"	(2)	16x1	16, (1) 16x25,	(1) 16x20, (4) 16x25,	(2)	16x25, (8) 12x26
Permanent	(8)	12x1	16, (4) 12x26	(4) 12x20, (4) 12x26	(2)	10,25, (6) 12,26
1" (<mark>r 2"</mark> Pleateu	(2)	16x1	l6, (1) 16x25,	(1) 16x20, (4) 16x25,	(2)	16x25, (4) 12x20,
Pleated	(4)	12x2	25, (4) 12x32	(4) 12x20, (4) 12x25	<u>(4)</u>	12x32

		_	~					
Weigh	ts of options shipped insta	lled	4	500,				
on the	furnace:		400	600	700	800	1050	1200
	Downturn Plenum Cabinet	lbs.	271	229	253	271	253	271
AQ5	(wt. Includes additional crate)	(kg)	(123)	(104)	(115)	(123)	(115)	(123)
Weigh	ts of options shipped sepa	rately f	or field	assen	ıbly aı	nd insta	allation:	
AS2	S2 Outside Air Inlet Hood		96	87	92	96	92	96
ASZ	Outside All Tillet Hood	(kg)	(44)	(39)	(42)	(44)	(42)	(44)
CJ1	Roof Curb for Basic Unit	lbs.	150	167	173	179	202	280
1631	Roof Curb for Basic Offic	(kg)	(68)	(76)	(78)	(81)	(92)	(127)
CJ2	Roof Curb for Unit with	lbs.	177	193	199	205	228	234
CJZ	Downturn Plenum Cabinet	(kg)	(80)	(88)	(90)	(93)	(103)	(106)

HV-B3~B6



BLOWER DATA (cont'd)

Air Flow Pressure Drops **Applies to Models RPBL & SSCBL**

		_	ı		KT AND	EXTERNAL S	TSIEWIPK	ESSURE D	ROP (W.C.)	1		ı	ı	
		Pressure Drop with Disposable Filters ^A	Pressure Drop with Permanent Alum. Filters ^A	Pressure Drop with Pleated Filters ^A		ure Drop with rative Cooler			Pressure	Drop	sure with g Coil ^B	External Pressure		djusted re Drop
Size	CFM	2"	2"	2"	12" Media	Moisture Elimination Pad	Pressure Drop with O/A Hood	Pressure Drop with Dampers	Drop with Downturn Plenum	Dry	Wet	Drop (Distribution Duct System)	Heating	Coolin
	3,300	0.02	0.03	0.03	0.02	0.013	0.06	0.01	0.02					
1	4,000	0.03	0.05	0.06	0.04	0.024	0.10	0.01	0.03					
J	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	7,000	0.08	0.16	0.19	0.10	0.073	0.31	0.03	0.10					
400	8,000	0.10	0.21	0.25	0.14	0.095	0.40	0.04	0.13					
700	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					
	3,700	0.04	0.04	0.06	0.02	0.018	0.13	0.01	0.04	ļ				
	4,000	0.05	0.06	0.08	0.04	0.024	0.16	0.02	0.06	ļ				
	5,000	0.08	0.10	0.12	0.06	0.037	0.25	0.03	0.08	ļ				
	6,000	0.12	0.14	0.17	0.08	0.053	0.36	0.04	0.12					
500,	7,000	0.16	0.20	0.23	0.10	0.073	0.49	0.05	0.16					
600	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	ļ				
	11,000	N/A	0.46	N/A	0.26	0.179	1.21	0.13	0.40	ļ				
	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	<u> </u>				
	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					
700	8,000	0.10	0.18	0.27	0.14	0.095	0.50	0.05	0.16					
700	9,000	N/A	0.24	0.33	0.18	0.120	0.63	0.07	0.22					
	10,000	N/A N/A	0.30 0.36	0.41 N/A	0.22	0.148 0.179	0.77 0.94	0.09 0.10	0.28 0.34					
	12.000	N/A	0.36	N/A N/A	0.26	0.179	1.12	0.10	0.34					
	13,000	N/A	0.50	N/A	0.36	0.213	1.12	0.12	0.46					
	5,900	0.05	0.10	0.12	0.06	0.230	0.20	0.13	0.40	1				
	6.000	0.05	0.10	0.12	0.08	0.043	0.20	0.02	0.00	<u> </u>				
	7,000	0.08	0.12	0.19	0.10	0.033	0.23	0.02	0.10	1				
	8,000	0.10	0.10	0.15	0.14	0.075	0.40	0.03	0.13	1				<u> </u>
800	9,000	0.13	0.26	0.23	0.14	0.120	0.50	0.04	0.17	1				
	10.000	N/A	0.33	0.39	0.10	0.120	0.62	0.00	0.17					
	11,000	N/A	0.40	0.47	0.26	0.179	0.76	0.07	0.25					
	12,000	N/A	0.48	0.56	0.30	0.113	0.90	0.10	0.30					
	13,000	N/A	0.56	N/A	0.36	0.250	1.05	0.12	0.35					
	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					
4050	9,000	N/A	0.24	0.20	0.18	0.120	0.63	0.07	0.22					
1050	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					
	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					
1200	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.

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REZNOR°

BLOWER DATA (cont'd) RPM/BHP Chart Applies to Models RPBL & SSCBL

HV-G1

Section Process Proc	Г		Rise						Total Adi	usted Pres	sure Drop ("W.C.) - fro	m Air Flow	Pressure D	rop Table				
Page 1800 4801.5 5806.6 619/80 78971.5 78971.5 589	Si	ize		CFM	0.2	0.4	0.6	0.8								2.4	2.6	2.8	3
March Marc			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
March Marc		[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
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1 1400 3907 390	Ī	Ì	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
10 270 270 580 280 280 27 280			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	_	_
18 100			21	14000	1380/17.5	1410/18.0	1400/19.0	1480/19.5	1500/20.0	_	_	_	_	_	_	_	_	_	_
Math																			
Second Color Col		ļ																	
Say 1,000					-			-						-					
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1	50	00						•											
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Math 1900 33901.30 10401.35 14401.40 1701.45 15001.50 15001.51 15201.55 15701.00 16001.65	1	ŀ																	
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88 800 800 801 71016 78019 8602.1 8002.2 8302.5 8302.7 8003.0 1003.6 11503.6 11503.6 11503.6 12605.7 13006.5 13006.6 12605.7 13006.6 12605.7 13006.6 12605.7 13006.7 12605.7 13006.7 12605.7 13006.7 13007.4 1	L	أ	31		1480/16.0	1510/17.0	1550/17.5	1					<u>_</u> =						
Mathematics	Г		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
600 500		[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
65 800 1000 500 10075 1000																			
\$55 \$000 \$1407.0 \$1807.2 \$12007.8 \$12308.0 \$12008.5 \$12008.0 \$13009.5 \$14007.0																			
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Mathematics		ŀ																1540/12.0	1580/12.5
Say 1500 1420/15.0 1450/15.2 1500/16.0 150		ŀ								•					1				
Size Processor	ł	ŀ					•			•									
Nice Pic		ŀ	_		 		•	 	- 1330/17.2					1	_			<u> </u>	
									Total Adi	usted Pres	sure Drop ("W.C.) - fro	m Air Flow	Pressure D	rop Table				<u>' </u>
Ref 6000 640/16 730/19 790/23 860/26 900/30 940/32 1000/37 1060/40 1100/42 1140/44 1180/46 1210/49 1250/52 1300/48 1320/60 74 7000 760/26 800/30 860/32 920/37 960/40 1000/42 1050/46 1100/48 1140/50 1160/52 1220/55 1240/61 1280/66 1310/71 1340/73 758 9000 850/37 900/40 950/45 1000/48 1000/48 1000/48 1000/48 1150/65 1200/70 1240/73 1260/75 1300/79 1340/84 1380/90 1410/93 758 9000 1040/75 1107/8 1160/50 1180/55 1100/70 1130/75 1200/80 1280/86 1300/10 1300/75 1300/84 1380/86 1300/70 1300/85 1300/80 13	Si	ize		CFM	0.2	0.4	0.6	0.8									0.0		_
T4 7000 760/2.6 800/3.0 860/3.2 920/3.7 960/4.0 1000/4.2 1050/4.6 1100/6.8 1140/5.0 1160/5.2 1200/5.5 1240/6.1 1280/6.6 1310/7.1 1340/7.3 1260/7.5 12						v. .	0.0	0.0		1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
66 6000 8503.7 9004.0 9504.5 100004.8 103005.0 105005.5 11006.0 115005.5 12007.0 12407.3 12507.5 13007.9 13408.4 13809.0 14109.3 125005.0 125000.0 10407.5 11107.8 11508.0 11008.5 12008.7 12008.0 12008.0 12009.5 13009.0 13209.5 13609.8 140010.2 144011.0 146011.5 140010.0 12008.7 120010.0 1	T		100																
\$8 \$900 \$905.6 \$905.3 \$1309.6 \$1007.6 \$11007.6 \$1209.7 \$1209.8 \$1209.8 \$1209.8 \$1309.8 \$1309.8 \$14001.0			86	5200 6000	590/1.3 640/1.6	660/1.4 730/1.9	730/1.6	800/1.8 850/2.6	880/2.2 900/3.0	910/2.5 940/3.2	980/2.8 1000/3.7	1040/3.2 1060/4.0	1090/3.6 1100/4.2	1120/3.8 1140/4.4	1160/4.0 1180/4.6	1200/4.2 1210/4.9	1240/4.5 1250/5.2	1290/4.8 1300/4.8	1300/4.9 1320/6.0
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47 11000 1200/87 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 1500/15.5 1500/15.5 1500/15.5 1500/15.9 1570/16.4 1600/16.9 40 13000 1390/16.2 1400/16.5 1440/17.0 1460/14.5 1400/14.9 1430/15.5 1470/16.8 1490/17.0 1500/15.5 1400/16.5 1440/17.0 1460/14.5 1400/14.9 1430/15.5 1470/16.8 1490/17.0 1460/17.0 1460/18.0 1490/19.0 1530/20.0			86 74 65	5200 6000 7000 8000	590/1.3 640/1.6 760/2.6 850/3.7	660/1.4 730/1.9 800/3.0 900/4.0	730/1.6 790/2.3 860/3.2 950/4.5	800/1.8 850/2.6 920/3.7 1000/4.8	880/2.2 900/3.0 960/4.0 1030/5.0	910/2.5 940/3.2 1000/4.2 1060/5.5	980/2.8 1000/3.7 1050/4.6 1100/6.0	1040/3.2 1060/4.0 1100/4.8 1150/6.5	1090/3.6 1100/4.2 1140/5.0 1200/7.0	1120/3.8 1140/4.4 1160/5.2 1240/7.3	1160/4.0 1180/4.6 1200/5.5 1260/7.5	1200/4.2 1210/4.9 1240/6.1 1300/7.9	1240/4.5 1250/5.2 1280/6.6 1340/8.4	1290/4.8 1300/4.8 1310/7.1 1380/9.0	1300/4.9 1320/6.0 1340/7.3 1410/9.3
43 12000 1300/12.7 1320/13.0 1380/14.0 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	70		86 74 65 58	5200 6000 7000 8000 9000	590/1.3 640/1.6 760/2.6 850/3.7 950/5.0	660/1.4 730/1.9 800/3.0 900/4.0 980/5.3	730/1.6 790/2.3 860/3.2 950/4.5 1030/6.0	800/1.8 850/2.6 920/3.7 1000/4.8 1070/6.5	880/2.2 900/3.0 960/4.0 1030/5.0 1100/7.0	910/2.5 940/3.2 1000/4.2 1060/5.5 1130/7.5	980/2.8 1000/3.7 1050/4.6 1100/6.0 1200/8.0	1040/3.2 1060/4.0 1100/4.8 1150/6.5 1240/8.3	1090/3.6 1100/4.2 1140/5.0 1200/7.0 1280/8.6	1120/3.8 1140/4.4 1160/5.2 1240/7.3 1300/9.0	1160/4.0 1180/4.6 1200/5.5 1260/7.5 1320/9.5	1200/4.2 1210/4.9 1240/6.1 1300/7.9 1360/9.8	1240/4.5 1250/5.2 1280/6.6 1340/8.4 1400/10.2	1290/4.8 1300/4.8 1310/7.1 1380/9.0 1440/11.0	1300/4.9 1320/6.0 1340/7.3 1410/9.3 1460/11.5
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38 13500 1440/17.0 1460/18.0 1490/19.0 1530/20.0	70		86 74 65 58 52 47	5200 6000 7000 8000 9000 10000 11000	590/1.3 640/1.6 760/2.6 850/3.7 950/5.0 1040/7.5 1200/8.7	660/1.4 730/1.9 800/3.0 900/4.0 980/5.3 1110/7.8 1220/10.0	730/1.6 790/2.3 860/3.2 950/4.5 1030/6.0 1150/8.0 1250/10.6	800/1.8 850/2.6 920/3.7 1000/4.8 1070/6.5 1180/8.5 1290/11.3	880/2.2 900/3.0 960/4.0 1030/5.0 1100/7.0 1200/8.7 1310/11.8	910/2.5 940/3.2 1000/4.2 1060/5.5 1130/7.5 1230/9.0 1330/12.0	980/2.8 1000/3.7 1050/4.6 1100/6.0 1200/8.0 1280/9.8 1370/12.6	1040/3.2 1060/4.0 1100/4.8 1150/6.5 1240/8.3 1320/10.0 1410/13.0	1090/3.6 1100/4.2 1140/5.0 1200/7.0 1280/8.6 1350/10.5 1450/14.0	1120/3.8 1140/4.4 1160/5.2 1240/7.3 1300/9.0 1370/11.0 1460/14.5	1160/4.0 1180/4.6 1200/5.5 1260/7.5 1320/9.5 1400/12.0 1490/15.0	1200/4.2 1210/4.9 1240/6.1 1300/7.9 1360/9.8 1420/12.4 1500/15.5	1240/4.5 1250/5.2 1280/6.6 1340/8.4 1400/10.2 1470/12.6	1290/4.8 1300/4.8 1310/7.1 1380/9.0 1440/11.0 1490/12.8 1570/16.4	1300/4.9 1320/6.0 1340/7.3 1410/9.3 1460/11.5 1500/13.0 1600/16.9
85 7000 770/2.6 800/2.9 890/3.4 930/3.8 960/4.0 1000/4.2 1050/4.5 1100/6.9 1150/5.2 1180/5.9 1210/6.1 1240/6.5 1290/7.0 1310/7.2 1340/7.5 74 8000 860/3.7 900/4.0 100/4.8 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 3390/9.0 1410/9.3 190/9.0 1320/9.0 1320/9.3 1360/9.9 1400/1.0 1400/	70		86 74 65 58 52 47 43	5200 6000 7000 8000 9000 10000 11000 12000	590/1.3 640/1.6 760/2.6 850/3.7 950/5.0 1040/7.5 1200/8.7 1300/12.7	660/1.4 730/1.9 800/3.0 900/4.0 980/5.3 1110/7.8 1220/10.0 1320/13.0	730/1.6 790/2.3 860/3.2 950/4.5 1030/6.0 1150/8.0 1250/10.6 1360/14.0	800/1.8 850/2.6 920/3.7 1000/4.8 1070/6.5 1180/8.5 1290/11.3 1380/14.5	880/2.2 900/3.0 960/4.0 1030/5.0 1100/7.0 1200/8.7 1310/11.8 1400/14.9	910/2.5 940/3.2 1000/4.2 1060/5.5 1130/7.5 1230/9.0 1330/12.0 1430/15.5	980/2.8 1000/3.7 1050/4.6 1100/6.0 1200/8.0 1280/9.8 1370/12.6 1470/16.8	1040/3.2 1060/4.0 1100/4.8 1150/6.5 1240/8.3 1320/10.0 1410/13.0 1490/17.0	1090/3.6 1100/4.2 1140/5.0 1200/7.0 1280/8.6 1350/10.5 1450/14.0 1540/17.3	1120/3.8 1140/4.4 1160/5.2 1240/7.3 1300/9.0 1370/11.0 1460/14.5 1550/18.2	1160/4.0 1180/4.6 1200/5.5 1260/7.5 1320/9.5 1400/12.0 1490/15.0 1570/18.5	1200/4.2 1210/4.9 1240/6.1 1300/7.9 1360/9.8 1420/12.4 1500/15.5 1600/18.9	1240/4.5 1250/5.2 1280/6.6 1340/8.4 1400/10.2 1470/12.6 1540/15.9	1290/4.8 1300/4.8 1310/7.1 1380/9.0 1440/11.0 1490/12.8 1570/16.4	1300/4.9 1320/6.0 1340/7.3 1410/9.3 1460/11.5 1500/13.0 1600/16.9
Page	70		86 74 65 58 52 47 43 40	5200 6000 7000 8000 9000 10000 11000 12000 13000	590/1.3 640/1.6 760/2.6 850/3.7 950/5.0 1040/7.5 1200/8.7 1300/12.7	660/1.4 730/1.9 800/3.0 900/4.0 980/5.3 1110/7.8 1220/10.0 1320/13.0 1400/16.5	730/1.6 790/2.3 860/3.2 950/4.5 1030/6.0 1150/8.0 1250/10.6 1360/14.0	800/1.8 850/2.6 920/3.7 1000/4.8 1070/6.5 1180/8.5 1290/11.3 1380/14.5 1470/17.5	880/2.2 900/3.0 960/4.0 1030/5.0 1100/7.0 1200/8.7 1310/11.8 1400/14.9 1500/18.0	910/2.5 940/3.2 1000/4.2 1060/5.5 1130/7.5 1230/9.0 1330/12.0 1430/15.5	980/2.8 1000/3.7 1050/4.6 1100/6.0 1200/8.0 1280/9.8 1370/12.6 1470/16.8	1040/3.2 1060/4.0 1100/4.8 1150/6.5 1240/8.3 1320/10.0 1410/13.0 1490/17.0	1090/3.6 1100/4.2 1140/5.0 1200/7.0 1280/8.6 1350/10.5 1450/14.0 1540/17.3	1120/3.8 1140/4.4 1160/5.2 1240/7.3 1300/9.0 1370/11.0 1460/14.5 1550/18.2	1160/4.0 1180/4.6 1200/5.5 1260/7.5 1320/9.5 1400/12.0 1490/15.0 1570/18.5	1200/4.2 1210/4.9 1240/6.1 1300/7.9 1360/9.8 1420/12.4 1500/15.5 1600/18.9	1240/4.5 1250/5.2 1280/6.6 1340/8.4 1400/10.2 1470/12.6 1540/15.9	1290/4.8 1300/4.8 1310/7.1 1380/9.0 1440/11.0 1490/12.8 1570/16.4	1300/4.9 1320/6.0 1340/7.3 1410/9.3 1460/11.5 1500/13.0 1600/16.9
800 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 1440/11.5 1470/11.5	70		86 74 65 58 52 47 43 40 38	5200 6000 7000 8000 9000 10000 11000 12000 13500	590/1.3 640/1.6 760/2.6 850/3.7 950/5.0 1040/7.5 1200/8.7 1300/12.7 1390/16.2	660/1.4 730/1.9 800/3.0 900/4.0 980/5.3 1110/7.8 1220/10.0 1320/13.0 1400/16.5	730/1.6 790/2.3 860/3.2 950/4.5 1030/6.0 1150/8.0 1250/10.6 1360/14.0 1440/17.0	800/1.8 850/2.6 920/3.7 1000/4.8 1070/6.5 1180/8.5 1290/11.3 1380/14.5 1470/17.5	880/2.2 900/3.0 960/4.0 1030/5.0 1100/7.0 1200/8.7 1310/11.8 1400/14.9	910/2.5 940/3.2 1000/4.2 1060/5.5 1130/7.5 1230/9.0 1330/12.0 1430/15.5 1520/19.0	980/2.8 1000/3.7 1050/4.6 1100/6.0 1200/8.0 1280/9.8 1370/12.6 1470/16.8	1040/3.2 1060/4.0 1100/4.8 1150/6.5 1240/8.3 1320/10.0 1410/13.0 1490/17.0	1090/3.6 1100/4.2 1140/5.0 1200/7.0 1280/8.6 1350/10.5 1450/14.0 1540/17.3	1120/3.8 1140/4.4 1160/5.2 1240/7.3 1300/9.0 1370/11.0 1460/14.5 1550/18.2	1160/4.0 1180/4.6 1200/5.5 1260/7.5 1320/9.5 1400/12.0 1490/15.0 1570/18.5	1200/4.2 1210/4.9 1240/6.1 1300/7.9 1360/9.8 1420/12.4 1500/15.5 1600/18.9	1240/4.5 1250/5.2 1280/6.6 1340/8.4 1400/10.2 1470/12.6 1540/15.9	1290/4.8 1300/4.8 1310/7.1 1380/9.0 1440/11.0 1490/12.8 1570/16.4	1300/4.9 1320/6.0 1340/7.3 1410/9.3 1460/11.5 1500/13.0 1600/16.9
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	70		86 74 65 58 52 47 43 40 38	5200 6000 7000 8000 9000 10000 11000 12000 13500 5900	590/1.3 640/1.6 760/2.6 850/3.7 950/5.0 1040/7.5 1200/8.7 1300/12.7 1390/16.2 1440/17.0 650/1.6	660/1.4 730/1.9 800/3.0 900/4.0 980/5.3 1110/7.8 1220/10.0 1320/13.0 1400/16.5 1460/18.0 730/2.0	730/1.6 790/2.3 860/3.2 950/4.5 1030/6.0 1150/8.0 1250/10.6 1360/14.0 1440/17.0 1490/19.0 800/2.4	800/1.8 850/2.6 920/3.7 1000/4.8 1070/6.5 1180/8.5 1290/11.3 1380/14.5 1470/17.5 1530/20.0 860/2.6	880/2.2 900/3.0 960/4.0 1030/5.0 1100/7.0 1200/8.7 1310/11.8 1400/14.9 1500/18.0	910/2.5 940/3.2 1000/4.2 1060/5.5 1130/7.5 1230/9.0 1330/12.0 1430/15.5 1520/19.0	980/2.8 1000/3.7 1050/4.6 1100/6.0 1200/8.0 1280/9.8 1370/12.6 1470/16.8 — — 1010/3.6	1040/3.2 1060/4.0 1100/4.8 1150/6.5 1240/8.3 1320/10.0 1410/13.0 1490/17.0 —	1090/3.6 1100/4.2 1140/5.0 1200/7.0 1280/8.6 1350/10.5 1450/14.0 1540/17.3 —	1120/3.8 1140/4.4 1160/5.2 1240/7.3 1300/9.0 1370/11.0 1460/14.5 1550/18.2	1160/4.0 1180/4.6 1200/5.5 1260/7.5 1320/9.5 1400/12.0 1490/15.0 1570/18.5 — —	1200/4.2 1210/4.9 1240/6.1 1300/7.9 1360/9.8 1420/12.4 1500/15.5 1600/18.9	1240/4.5 1250/5.2 1280/6.6 1340/8.4 1400/10.2 1470/12.6 1540/15.9 ————————————————————————————————————	1290/4.8 1300/4.8 1310/7.1 1380/9.0 1440/11.0 1490/12.8 1570/16.4 ————————————————————————————————————	1300/4.9 1320/6.0 1340/7.3 1410/9.3 1460/11.5 1500/13.0 1600/16.9 ————————————————————————————————————
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 —	70		86 74 65 58 52 47 43 40 38 100 85 74	5200 6000 7000 8000 9000 10000 11000 12000 13500 5900 7000 8000	590/1.3 640/1.6 760/2.6 850/3.7 950/5.0 1040/7.5 1200/8.7 1390/16.2 1440/17.0 650/1.6 770/2.6 860/3.7	660/1.4 730/1.9 800/3.0 900/4.0 980/5.3 1110/7.8 1220/10.0 1320/13.0 1400/16.5 1460/18.0 730/2.0 800/2.9	730/1.6 790/2.3 860/3.2 950/4.5 1030/6.0 1150/8.0 1250/10.6 1360/14.0 1440/17.0 1490/19.0 800/2.4 890/3.4	800/1.8 850/2.6 920/3.7 1000/4.8 1070/6.5 1180/8.5 1290/11.3 1380/14.5 1470/17.5 1530/20.0 860/2.6 930/3.8 1000/4.8	880/2.2 900/3.0 960/4.0 1030/5.0 1100/7.0 1200/8.7 1310/11.8 1400/14.9 1500/18.0 900/3.0 960/4.0	910/2.5 940/3.2 1000/4.2 1060/5.5 1130/7.5 1230/9.0 1330/12.0 1430/15.5 	980/2.8 1000/3.7 1050/4.6 1100/6.0 1200/8.0 1280/9.8 1370/12.6 1470/16.8 ————————————————————————————————————	1040/3.2 1060/4.0 1100/4.8 1150/6.5 1240/8.3 1320/10.0 1410/13.0 1490/17.0 — 1060/4.0 1100/4.9 1150/6.4	1090/3.6 1100/4.2 1140/5.0 1200/7.0 1280/8.6 1350/10.5 1450/14.0 1540/17.3 — — 1110/4.2 1150/5.2 1190/6.9	1120/3.8 1140/4.4 1160/5.2 1240/7.3 1300/9.0 1370/11.0 1460/14.5 1550/18.2 — — 1140/4.4 1180/5.9 1230/7.1	1160/4.0 1180/4.6 1200/5.5 1260/7.5 1320/9.5 1400/12.0 1490/15.0 1570/18.5 ————————————————————————————————————	1200/4.2 1210/4.9 1240/6.1 1300/7.9 1360/9.8 1420/12.4 1500/15.5 1600/18.9 	1240/4.5 1250/5.2 1280/6.6 1340/8.4 1400/10.2 1470/12.6 1540/15.9 ————————————————————————————————————	1290/4.8 1300/4.8 1310/7.1 1380/9.0 1440/11.0 1490/12.8 1570/16.4 ————————————————————————————————————	1300/4.9 1320/6.0 1340/7.3 1410/9.3 1460/11.5 1500/13.0 1600/16.9 ————————————————————————————————————
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 1540/17.5 1540/18.2 1600/18.8		00	86 74 65 58 52 47 43 40 38 100 85 74 66	5200 6000 7000 8000 9000 10000 11000 12000 13500 5900 7000 8000 9000	590/1.3 640/1.6 760/2.6 850/3.7 950/5.0 1040/7.5 1200/8.7 1390/16.2 1440/17.0 650/1.6 770/2.6 860/3.7 950/5.0	660/1.4 730/1.9 800/3.0 900/4.0 980/5.3 1110/7.8 1220/10.0 1320/13.0 1400/16.5 1460/18.0 800/2.9 900/4.0	730/1.6 790/2.3 860/3.2 950/4.5 1030/6.0 1150/8.0 1250/10.6 1360/14.0 1440/17.0 1490/19.0 800/2.4 960/4.5 1040/6.0	800/1.8 850/2.6 920/3.7 1000/4.8 1070/6.5 1180/8.5 1290/11.3 1380/14.5 1470/17.5 1530/20.0 860/2.6 930/3.8 1000/4.8	880/2.2 900/3.0 960/4.0 1030/5.0 1100/7.0 1200/8.7 1310/11.8 1400/14.9 1500/18.0 	910/2.5 940/3.2 1000/4.2 1060/5.5 1130/7.5 1230/9.0 1330/12.0 1430/15.5 1520/19.0 — 940/3.2 1000/4.2 1070/5.5 1180/7.6	980/2.8 1000/3.7 1050/4.6 1100/6.0 1280/9.8 1370/12.6 1470/16.8 ————————————————————————————————————	1040/3.2 1060/4.0 1100/4.8 1150/6.5 1240/8.3 1320/10.0 1410/13.0 1490/17.0 — 1060/4.0 1100/4.9 1150/6.4	1090/3.6 1100/4.2 1140/5.0 1200/7.0 1280/8.6 1350/10.5 1450/14.0 1540/17.3 — — — 1110/4.2 1150/5.2 1190/6.9	1120/3.8 1140/4.4 1160/5.2 1240/7.3 1300/9.0 1370/11.0 1460/14.5 1550/18.2 — — 1140/4.4 1180/5.9 1230/7.1	1160/4.0 1180/4.6 1200/5.5 1260/7.5 1320/9.5 1400/12.0 1490/15.0 1570/18.5 ————————————————————————————————————	1200/4.2 1210/4.9 1240/6.1 1300/7.9 1360/9.8 1420/12.4 1500/15.5 1600/18.9 — 1210/5.0 1240/6.5 1300/8.0	1240/4.5 1250/5.2 1280/6.6 1340/8.4 1400/10.2 1470/12.6 1540/15.9 — — 1260/5.6 1290/7.0 1340/8.7	1290/4.8 1300/4.8 1310/7.1 1380/9.0 1440/11.0 1490/12.8 1570/16.4 ————————————————————————————————————	1300/4.9 1320/6.0 1340/7.3 1410/9.3 1460/11.5 1500/13.0 1600/16.9 ————————————————————————————————————
46 1300 1400/16.2 1420/16.5 1450/17.5 1490/17.8 1510/18.2 1540/19.0 1560/19.5 — — — — — — — — —		00	86 74 65 58 52 47 43 40 38 100 85 74 66 59	5200 6000 7000 8000 9000 11000 112000 13000 13500 5900 7000 8000 9000	590/1.3 640/1.6 760/2.6 850/3.7 950/5.0 1040/7.5 1200/8.7 1300/12.7 1390/16.2 1440/17.0 650/1.6 770/2.6 860/3.7 950/5.0 1100/7.8	660/1.4 730/1.9 800/3.0 990/4.0 980/5.3 1110/7.8 1220/10.0 1320/13.0 1400/16.5 1460/18.0 730/2.0 800/2.9 990/4.0 990/5.5 1130/8.1	730/1.6 790/2.3 860/3.2 950/4.5 1030/6.0 1150/8.0 1250/10.6 1360/14.0 1440/17.0 1490/19.0 800/2.4 960/4.5 1040/6.0 1190/8.8	800/1.8 850/2.6 920/3.7 1000/4.8 1070/6.5 1180/8.5 1290/11.3 1380/14.5 1470/17.5 1530/20.0 860/2.6 930/3.8 1000/4.8 1080/6.8	880/2.2 900/3.0 960/4.0 1030/5.0 1100/7.0 1200/8.7 1310/11.8 1400/14.9 1500/18.0 — 900/3.0 960/4.0 1030/5.0 1100/7.2 1240/9.6	910/2.5 940/3.2 1000/4.2 1060/5.5 1130/7.5 1230/9.0 1330/12.0 1430/15.5 1520/19.0 — 940/3.2 1000/4.2 1070/5.5 1180/7.6	980/2.8 1000/3.7 1050/4.6 1100/6.0 1200/8.0 1280/9.8 1370/12.6 1470/16.8 ————————————————————————————————————	1040/3.2 1060/4.0 1100/4.8 1150/6.5 1240/8.3 1320/10.0 1410/13.0 1490/17.0 — 1060/4.0 1150/6.4 1240/8.3 1330/11.0	1090/3.6 1100/4.2 1140/5.0 1200/7.0 1280/8.6 1350/10.5 1450/14.0 1540/17.3 — 1110/4.2 1150/5.2 1190/6.9 1280/8.6 1370/11.4	1120/3.8 1140/4.4 1160/5.2 1240/7.3 1300/9.0 1370/11.0 1460/14.5 1550/18.2 — — 1140/4.4 1180/5.9 1230/7.1 1300/9.0	1160/4.0 1180/4.6 1200/5.5 1260/7.5 1320/9.5 1490/12.0 1490/15.0 1570/18.5 — 1180/4.6 1210/6.1 1280/7.5 1320/9.3	1200/4.2 1210/4.9 1240/6.1 1300/7.9 1360/9.8 1420/12.4 1500/15.5 1600/18.9 ————————————————————————————————————	1240/4.5 1250/5.2 1280/6.6 1340/8.4 1400/10.2 1470/12.6 1540/15.9 — — 1260/5.6 1290/7.0 1340/8.7 1400/10.2	1290/4.8 1300/4.8 1310/7.1 1380/9.0 1440/11.0 1490/12.8 1570/16.4 ————————————————————————————————————	1300/4.9 1320/6.0 1340/7.3 1410/9.3 1460/11.5 1500/13.0 1600/16.9 ————————————————————————————————————
44 13500 1440/17.5 1470/18.2 1510/19.5 1530/20.0 —		00	86 74 65 58 52 47 43 40 38 100 85 74 66 59 54	5200 6000 7000 8000 9000 110000 112000 13000 13500 5900 7000 8000 9000 110000	590/1.3 640/1.6 760/2.6 850/3.7 950/5.0 1040/7.5 1200/8.7 1390/16.2 1440/17.0 650/1.6 770/2.6 860/3.7 950/5.0 1100/7.8	660/1.4 730/1.9 800/3.0 900/4.0 980/5.3 1110/7.8 1220/10.0 1320/13.0 1400/16.5 1460/18.0 730/2.0 800/2.9 900/4.0 990/5.5 1130/8.1	730/1.6 790/2.3 860/3.2 950/4.5 1030/6.0 1250/10.6 1360/14.0 1440/17.0 1490/19.0 800/2.4 890/3.4 960/4.5 1040/6.0 1190/8.8	800/1.8 850/2.6 920/3.7 1000/4.8 1070/6.5 1180/8.5 1290/11.3 1380/14.5 1470/17.5 1530/20.0 860/2.6 930/3.8 1000/4.8 1080/6.8 1220/9.0	880/2.2 900/3.0 960/4.0 1030/5.0 1100/7.0 1200/8.7 1310/11.8 1400/14.9 1500/18.0 900/3.0 960/4.0 1030/5.0 1100/7.2 1240/9.6 1320/12.3	910/2.5 940/3.2 1000/4.2 1060/5.5 1130/7.5 1230/9.0 1330/12.0 1430/15.5 1520/19.0 — 940/3.2 1000/4.2 1070/5.5 1180/7.6 1280/9.8	980/2.8 1000/3.7 1050/4.6 1100/6.0 1200/8.0 1280/9.8 1370/12.6 1470/16.8 ————————————————————————————————————	1040/3.2 1060/4.0 1100/4.8 1150/6.5 1240/8.3 1320/10.0 1410/13.0 1490/17.0 — — 1060/4.0 1100/4.9 1150/6.4 1240/8.3 1330/11.0	1090/3.6 1100/4.2 1140/5.0 1200/7.0 1280/8.6 1350/10.5 1450/14.0 1540/17.3 — — 1110/4.2 1150/5.2 1190/6.9 1280/8.6 1370/11.4	1120/3.8 1140/4.4 1160/5.2 1240/7.3 1300/9.0 1370/11.0 1460/14.5 1550/18.2 — — 1140/4.4 1180/5.9 1230/7.1 1300/9.0 1380/11.9	1160/4.0 1180/4.6 1200/5.5 1260/7.5 1320/9.5 1400/12.0 1490/15.0 1570/18.5 — — 1180/4.6 1210/6.1 1280/7.5 1320/9.3 1420/12.4	1200/4.2 1210/4.9 1240/6.1 1300/7.9 1360/9.8 1420/12.4 1500/15.5 1600/18.9 ————————————————————————————————————	1240/4.5 1250/5.2 1280/6.6 1340/8.4 1400/10.2 1470/12.6 1540/15.9 — — — 1260/5.6 1290/7.0 1340/8.7 1400/10.2 1480/13.2 1550/16.0	1290/4.8 1300/4.8 1310/7.1 1380/9.0 1440/11.0 1490/12.8 1570/16.4 ————————————————————————————————————	1300/4.9 1320/6.0 1340/7.3 1410/9.3 1460/11.5 1500/13.0 1600/16.9 ————————————————————————————————————
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		00	86 74 65 58 52 47 43 40 38 100 85 74 66 59 54 49	5200 6000 7000 8000 9000 10000 11000 13000 13500 5900 8000 9000 10000 11000 12000	590/1.3 640/1.6 760/2.6 850/3.7 950/5.0 1040/7.5 1200/8.7 1390/16.2 1440/17.0 650/1.6 770/2.6 860/3.7 950/5.0 1100/7.8 1210/9.9	660/1.4 730/1.9 800/3.0 900/4.0 980/5.3 1110/7.8 1220/10.0 1320/13.0 1400/16.5 1460/18.0 730/2.0 800/2.9 900/4.0 990/5.5 1130/8.1 1220/10.1	730/1.6 790/2.3 860/3.2 950/4.5 1030/6.0 1250/10.6 1360/14.0 1440/17.0 1490/19.0 800/2.4 890/3.4 960/4.5 1040/6.0 1190/8.8 1260/11.0	800/1.8 850/2.6 920/3.7 1000/4.8 1070/6.5 1180/8.5 1290/11.3 1380/14.5 1470/17.5 1530/20.0 860/2.6 930/3.8 1000/4.8 1080/6.8 1220/9.0 1300/11.5	880/2.2 900/3.0 960/4.0 1030/5.0 1100/7.0 1200/8.7 1310/11.8 1400/14.9 1500/18.0 900/3.0 960/4.0 1030/5.0 1100/7.2 1240/9.6 1320/12.3 1410/15.0	910/2.5 940/3.2 1000/4.2 1060/5.5 1130/7.5 1230/9.0 1330/12.0 1430/15.5 1520/19.0 940/3.2 1000/4.2 1070/5.5 1180/7.6 1280/9.8 1350/12.5	980/2.8 1000/3.7 1050/4.6 1100/6.0 1200/8.0 1280/9.8 1370/12.6 1470/16.8 ————————————————————————————————————	1040/3.2 1060/4.0 1100/4.8 1150/6.5 1240/8.3 1320/10.0 1410/13.0 1490/17.0 ————————————————————————————————————	1090/3.6 1100/4.2 1140/5.0 1200/7.0 1280/8.6 1350/10.5 1450/14.0 1540/17.3 — — 1110/4.2 1150/5.2 1190/6.9 1280/8.6 1370/11.4	1120/3.8 1140/4.4 1160/5.2 1240/7.3 1300/9.0 1370/11.0 1460/14.5 1550/18.2 ————————————————————————————————————	1160/4.0 1180/4.6 1200/5.5 1260/7.5 1320/9.5 1400/12.0 1490/15.0 1570/18.5 — 1180/4.6 1210/6.1 1280/7.5 1320/9.3 1420/12.4 1500/15.3 1580/18.2	1200/4.2 1210/4.9 1240/6.1 1300/7.9 1360/9.8 1420/12.4 1500/15.5 1600/18.9 ————————————————————————————————————	1240/4.5 1250/5.2 1280/6.6 1340/8.4 1400/10.2 1470/12.6 1540/15.9 — — — 1260/5.6 1290/7.0 1340/8.7 1400/10.2 1480/13.2	1290/4.8 1300/4.8 1310/7.1 1380/9.0 1440/11.0 1490/12.8 1570/16.4 ————————————————————————————————————	1300/4.9 1320/6.0 1340/7.3 1440/9.3 1460/11.5 1500/13.0 1600/16.9 — — 1330/6.3 1340/7.5 1410/9.3 1470/11.5
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 1470/11.8 120/8.1 1100/8.5 1200/8.8 1240/9.0 1260/9.5 1290/10.0 1330/10.5 1360/14.0 1300/15.5 1400/14.2 1440/15.2 1480/13.2 1460/14.2 1470/14.5 1400/15.0 150/15.6 1550/16.1 1580/16.5 1580/16.0 1580/16.0 1580/16.5 1660/17.0 1380/16.5 1410/17.1 1440/15.2 1480/13.1 1370/14.5 1400/14.8 1410/15.0 1440/15.2 1460/15.7 1500/17.1 1550/17.4 1560/17.7 1580/18.6 1610/19.0		00	86 74 65 58 52 47 43 40 38 100 85 74 66 59 54 49 46	5200 6000 7000 8000 9000 10000 11000 13000 13500 5900 8000 9000 10000 11000 12000 13000	590/1.3 640/1.6 760/2.6 850/3.7 950/5.0 1040/7.5 1200/8.7 1390/16.2 1440/17.0 650/1.6 770/2.6 860/3.7 950/5.0 1100/7.8 1210/9.9	660/1.4 730/1.9 800/3.0 900/4.0 980/5.3 1110/7.8 1220/10.0 1320/13.0 1400/16.5 1460/18.0 730/2.0 800/2.9 900/4.0 990/5.5 1130/8.1 1220/10.1 1340/13.0	730/1.6 790/2.3 860/3.2 950/4.5 1030/6.0 1150/8.0 1250/10.6 1360/14.0 1440/17.0 1490/19.0 800/2.4 890/3.4 960/4.5 1040/6.0 1190/8.8 1260/11.0 1360/14.0	800/1.8 850/2.6 920/3.7 1000/4.8 1070/6.5 1180/8.5 1290/11.3 1380/14.5 1470/17.5 1530/20.0 860/2.6 930/3.8 1000/4.8 1220/9.0 1300/11.5 1400/14.8	880/2.2 900/3.0 960/4.0 1030/5.0 1100/7.0 1200/8.7 1310/11.8 1400/14.9 1500/18.0 900/3.0 960/4.0 1030/5.0 1100/7.2 1240/9.6 1320/12.3 1410/15.0	910/2.5 940/3.2 1000/4.2 1060/5.5 1130/7.5 1230/9.0 1330/12.0 1430/15.5 1520/19.0 940/3.2 1000/4.2 1070/5.5 1180/7.6 1280/9.8 1350/12.5	980/2.8 1000/3.7 1050/4.6 1100/6.0 1200/8.0 1280/9.8 1370/12.6 1470/16.8 ————————————————————————————————————	1040/3.2 1060/4.0 1100/4.8 1150/6.5 1240/8.3 1320/10.0 1410/13.0 1490/17.0 	1090/3.6 1100/4.2 1140/5.0 1200/7.0 1280/8.6 1350/10.5 1450/14.0 1540/17.3 — — 1110/4.2 1150/5.2 1190/6.9 1280/8.6 1370/11.4 1460/14.4	1120/3.8 1140/4.4 1160/5.2 1240/7.3 1300/9.0 1370/11.0 1460/14.5 1550/18.2 — — 1140/4.4 1180/5.9 1230/7.1 1300/9.0 1380/11.9	1160/4.0 1180/4.6 1200/5.5 1260/7.5 1320/9.5 1490/15.0 1570/18.5 — 1180/4.6 1210/6.1 1280/7.5 1320/9.3 1420/12.4 1500/15.3	1200/4.2 1210/4.9 1240/6.1 1300/7.9 1360/9.8 1420/12.4 1500/15.5 1600/18.9 ————————————————————————————————————	1240/4.5 1250/5.2 1280/6.6 1340/8.4 1400/10.2 1470/12.6 1540/15.9 — — — 1260/5.6 1290/7.0 1340/8.7 1400/10.2 1480/13.2 1550/16.0 —	1290/4.8 1300/4.8 1310/7.1 1380/9.0 1440/11.0 1490/12.8 1570/16.4 ————————————————————————————————————	1300/4.9 1320/6.0 1340/7.3 1440/9.3 1460/11.5 1500/13.0 1600/16.9 — — 1330/6.3 1340/7.5 1410/9.3 1470/11.5
1050 1050		00	86 74 65 58 52 47 43 40 38 100 85 74 66 59 54 49 46	5200 6000 7000 8000 9000 110000 12000 13000 13500 5900 7000 8000 9000 110000 12000 13000 13500	590/1.3 640/1.6 760/2.6 850/3.7 950/5.0 1040/7.5 1200/8.7 1300/12.7 1390/16.2 1440/17.0 650/1.6 770/2.6 860/3.7 950/5.0 1100/7.8 1210/9.9 1300/12.7 1440/17.5	660/1.4 730/1.9 800/3.0 900/4.0 980/5.3 1110/7.8 1220/10.0 1320/13.0 1400/16.5 1460/18.0 730/2.0 800/2.9 900/4.0 990/5.5 1130/8.1 1220/10.1 1340/13.0 1420/16.5	730/1.6 790/2.3 860/3.2 950/4.5 1030/6.0 1150/8.0 1250/10.6 1360/14.0 1440/17.0 1490/19.0 800/2.4 890/3.4 960/4.5 1040/6.0 1190/8.8 1260/11.0 1360/14.0 1450/17.5	800/1.8 850/2.6 920/3.7 1000/4.8 1070/6.5 1180/8.5 1290/11.3 1380/14.5 1470/17.5 1530/20.0 860/2.6 930/3.8 1000/4.8 1080/6.8 1220/9.0 1300/11.5 1490/17.8	880/2.2 900/3.0 960/4.0 1030/5.0 1100/7.0 1200/8.7 1310/118.0 — 900/3.0 960/4.0 1030/5.0 1100/7.2 1240/9.6 1320/12.3 1410/15.0	910/2.5 940/3.2 1000/4.2 1060/5.5 1130/7.5 1230/9.0 1430/15.5 1520/19.0 — 940/3.2 1000/4.2 1070/5.5 1180/7.6 1280/9.8 1350/12.5 1450/15.5	980/2.8 1000/3.7 1050/4.6 1100/6.0 1200/8.0 1280/9.8 1370/12.6 1470/16.8 — 1010/3.6 1050/4.5 1100/6.0 1200/8.0 1380/10.0 1380/12.8 1480/16.4	1040/3.2 1060/4.0 1100/4.8 1150/6.5 1240/8.3 1320/10.0 1440/13.0 1490/17.0 — 1060/4.0 1100/4.9 1150/6.4 1240/8.3 1330/11.0 1410/14.0	1090/3.6 1100/4.2 1140/5.0 1200/7.0 1280/8.6 1350/10.5 1450/14.0 1540/17.3 — 1110/4.2 1150/5.2 1190/6.9 1280/8.6 1370/11.4 1460/14.4	1120/3.8 1140/4.4 1160/5.2 1240/7.3 1300/9.0 1370/11.0 1460/14.5 1550/18.2 — — 1140/4.4 1180/5.9 1230/7.1 1300/9.0 1380/11.9 —	1160/4.0 1180/4.6 1200/5.5 1260/7.5 1320/9.5 14400/12.0 1450/15.0 1570/18.5 — 1180/4.6 1210/6.1 1280/7.5 1320/9.3 1420/12.4 1500/15.3 1580/18.2 —	1200/4.2 1210/4.9 1240/6.1 1300/7.9 1360/9.8 1420/12.4 1500/15.5 1600/18.9 — 1210/5.0 1240/6.5 1300/8.0 1360/9.9 1450/12.5 1600/18.8 —	1240/4.5 1250/5.2 1280/6.6 1340/8.4 1400/10.2 1470/12.6 1540/15.9 — — 1260/5.6 1290/7.0 1340/8.7 1400/10.2 1480/13.2 1550/16.0 —	1290/4.8 1300/4.8 1310/7.1 1380/9.0 1440/11.0 1490/12.8 1570/16.4 — — 1300/6.0 1310/7.2 1390/9.0 1440/11.0 1510/13.5 1600/17.0 —	1300/4.9 1320/6.0 1340/7.3 1410/9.3 1460/11.5 1500/13.0 1600/16.9 — — — — 1330/6.3 1340/7.5 1410/9.3 1470/11.5 1540/14.4 — — — — — — — — — — — — — — — — — —
1050 78 10000 1100/7.7 1120/8.0 1160/8.5 1200/8.8 1240/9.0 1260/9.5 1290/10.0 1300/10.5 1360/11.0 1390/11.5 1410/12.1 1440/12.5 1480/13.0 1510/13.6 1530/14.0 1500/17.0 15		00	86 74 65 58 52 47 43 40 38 100 85 74 66 59 54 49 46 44 120	5200 6000 7000 8000 9000 110000 110000 13000 13500 5900 7000 8000 9000 110000 110000 12000 13500 6500	590/1.3 640/1.6 760/2.6 850/3.7 950/5.0 1040/7.5 1200/8.7 1390/16.2 1440/17.0 650/1.6 860/3.7 950/5.0 1100/7.8 1210/9.9 1300/12.7 1400/16.2	660/1.4 730/1.9 800/3.0 900/4.0 980/5.3 1110/7.8 1220/10.0 1320/13.0 1400/16.5 1460/18.0 900/4.0 990/5.5 1130/8.1 1220/10.1 1220/10.1 1240/13.0 1420/16.5	730/1.6 790/2.3 860/3.2 950/4.5 1030/6.0 1150/8.0 1250/10.6 1360/14.0 1440/17.0 1490/19.0 800/2.4 890/3.4 960/4.5 1040/6.0 1190/8.8 1260/11.0 1450/11.0 1450/17.5 1510/19.5	800/1.8 850/2.6 920/3.7 1000/4.8 1070/6.5 1180/8.5 1290/11.3 1380/14.5 1470/17.5 1530/20.0 930/3.8 1000/4.8 1220/9.0 1300/11.5 1490/14.8 1490/17.8	880/2.2 900/3.0 960/4.0 1030/5.0 1100/7.0 1200/8.7 1310/11.8 1400/14.9 1500/18.0 — 900/3.0 960/4.0 1030/5.0 1100/7.2 1240/9.6 1320/12.3 1410/15.0 1510/18.2 —	910/2.5 940/3.2 1000/4.2 1060/5.5 1130/7.5 1230/9.0 1330/12.0 1430/15.5 1520/19.0 — 940/3.2 1070/5.5 1180/7.6 1280/9.8 1350/12.5 1450/15.5 1540/19.0 — 980/3.7	980/2.8 1000/3.7 1050/4.6 1100/6.0 1280/9.8 1370/12.6 1470/16.8 — — 1010/3.6 1050/4.5 1100/6.0 1200/8.0 1300/10.0 1380/12.8 1480/16.4 1560/19.5 —	1040/3.2 1060/4.0 1100/4.8 1150/6.5 1240/8.3 1320/10.0 1410/13.0 1490/17.0 — — 1060/4.0 1150/6.4 1240/8.3 1330/11.0 1410/14.0 1500/17.0 — —	1090/3.6 1100/4.2 1140/5.0 1200/7.0 1280/8.6 1350/10.5 1450/14.0 1540/17.3 — — — 1110/4.2 1150/5.2 1190/6.9 1280/8.6 1370/11.4 1450/14.4 1530/17.5 —	1120/3.8 1140/4.4 1160/5.2 1240/7.3 1300/9.0 1370/11.0 1460/14.5 1550/18.2 — — 1140/4.4 1180/5.9 1230/7.1 1300/9.0 1380/11.9 1490/15.2 1540/17.9 —	1160/4.0 1180/4.6 1200/5.5 1260/7.5 1320/9.5 1490/12.0 1490/15.0 1570/18.5 ————————————————————————————————————	1200/4.2 1210/4.9 1240/6.1 1300/7.9 1360/9.8 1420/12.4 1500/15.5 1600/18.9 — — — 1210/5.0 1240/6.5 1300/8.0 1360/9.9 1450/12.6 1510/15.5 1600/18.8 —	1240/4.5 1250/5.2 1280/6.6 1340/8.4 1400/10.2 1470/12.6 1540/15.9 — — — 1260/5.6 1290/7.0 1340/8.7 1480/13.2 1550/16.0 — — — 1260/5.4	1290/4.8 1300/4.8 1310/7.1 1380/9.0 1440/11.0 1490/12.8 1570/16.4 ————————————————————————————————————	1300/4.9 1320/6.0 1340/7.3 1410/9.3 1460/11.5 1500/13.0 1600/16.9 ————————————————————————————————————
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		00	86 74 65 58 52 47 43 40 38 100 85 74 66 59 54 49 46 44 120 111	5200 6000 7000 8000 9000 11000 12000 13500 5900 7000 10000 11000 12000 13500 5900 7000 13500 5900 7000	590/1.3 640/1.6 760/2.6 850/3.7 950/5.0 1040/7.5 1200/8.7 1300/12.7 1390/16.2 1440/17.0 650/1.6 770/2.6 860/3.7 950/5.0 1100/7.8 1210/9.9 1300/12.7 1440/17.5 710/2.0 770/2.7	660/1.4 730/1.9 800/3.0 900/4.0 980/5.3 1110/7.8 1220/10.0 1320/13.0 1400/16.5 1460/18.0 730/2.0 900/4.0 990/5.5 1130/8.1 1220/10.1 1340/13.0 1470/16.5	730/1.6 790/2.3 860/3.2 950/4.5 1030/6.0 1150/8.0 1250/10.6 1360/14.0 1440/17.0 1490/19.0 800/2.4 960/4.5 1040/6.0 1190/8.8 1260/11.0 1360/14.0 1450/17.5 1510/19.5 820/2.7	800/1.8 850/2.6 920/3.7 1000/4.8 1070/6.5 1180/8.5 1290/11.3 1380/14.5 1470/17.5 1530/20.0 860/2.6 930/3.8 1000/4.8 1220/9.0 1300/11.5 1400/14.8 1530/20.0 900/3.1 940/3.75	880/2.2 900/3.0 960/4.0 1030/5.0 1100/7.0 1200/8.7 1310/11.8 1400/14.9 1500/18.0 — 900/3.0 960/4.0 1030/5.0 1100/7.2 1240/9.6 1320/12.3 1410/15.0 1510/18.2 — 930/3.3 960/4.0	910/2.5 940/3.2 1000/4.2 1060/5.5 1130/7.5 1230/9.0 1330/12.0 1430/15.5 1520/19.0 — 940/3.2 1000/4.2 1070/5.5 1180/7.6 1280/9.8 1350/12.5 1450/15.5 1540/19.0 — 980/3.7	980/2.8 1000/3.7 1050/4.6 1100/6.0 1280/9.8 1370/12.6 1470/16.8 ————————————————————————————————————	1040/3.2 1060/4.0 1100/4.8 1150/6.5 1240/8.3 1320/10.0 1410/13.0 1490/17.0 — 1060/4.0 1150/6.4 1240/8.3 1330/11.0 1500/17.0 — — 1090/4.3 1120/5.0	1090/3.6 1100/4.2 1140/5.0 1200/7.0 1280/8.6 1350/10.5 1450/14.0 1540/17.3 — 1110/4.2 1150/5.2 1280/8.6 1370/11.4 1460/14.4 1530/17.5 — — 1150/4.9 1160/5.2	1120/3.8 1140/4.4 1160/5.2 1240/7.3 1300/9.0 1370/11.0 1460/14.5 1550/18.2 — 1140/4.4 1180/5.9 1230/7.1 1300/9.0 1380/11.9 1540/17.9 — 1170/4.9 1180/5.5	1160/4.0 1180/4.6 1200/5.5 1260/7.5 1320/9.5 1400/12.0 1490/15.0 1570/18.5 ————————————————————————————————————	1200/4.2 1210/4.9 1240/6.1 1300/7.9 1360/9.8 1420/12.4 1500/15.5 1600/18.9 ————————————————————————————————————	1240/4.5 1250/5.2 1280/6.6 1340/8.4 1470/12.6 1540/15.9 — — 1260/5.6 1340/8.7 1400/10.2 1480/13.2 1550/16.0 — — — 1260/5.4 1290/6.9	1290/4.8 1300/4.8 1310/7.1 1380/9.0 1440/11.0 1490/12.8 1570/16.4 — — 1300/6.0 1310/7.2 1390/9.0 1440/11.0 1510/13.5 1600/17.0 — — 1300/5.9 1320/7.2	1300/4.9 1320/6.0 1340/7.3 1410/9.3 1410/9.3 1460/11.5 1500/13.0 1600/16.9 ————————————————————————————————————
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		00	86 74 65 58 52 47 43 40 38 100 85 74 66 69 59 46 44 120 111 97	5200 6000 7000 8000 9000 110000 12000 13500 5900 7000 10000 11000 12000 13500 5900 7000 10000 13500 5900 7000 10000 13500 13500 13500 13500 13500 13500 13500 13500 13500	590/1.3 640/1.6 760/2.6 850/3.7 950/5.0 1040/7.5 1200/8.7 1300/12.7 1390/16.2 1440/17.0 650/1.6 860/3.7 950/5.0 1100/7.8 1210/9.9 1300/12.7 1400/16.2 1440/17.5 770/2.6	660/1.4 730/1.9 800/3.0 990/4.0 980/5.3 1110/7.8 1220/10.0 1320/13.0 1400/16.5 1460/18.0 730/2.0 990/4.0 990/5.5 1130/8.1 1220/10.1 1340/16.5 1420/16.5 1470/18.2 770/2.4	730/1.6 790/2.3 860/3.2 950/4.5 1030/6.0 1150/8.0 1250/10.6 1360/14.0 1440/17.0 1490/19.0 800/2.4 960/4.5 1040/6.0 1190/8.8 1260/11.0 1360/14.0 1450/17.5 820/2.7 870/3.4	800/1.8 850/2.6 920/3.7 1000/4.8 1070/6.5 1180/8.5 1290/11.3 1380/14.5 1470/17.5 1530/20.0 860/2.6 930/3.8 1000/4.8 1220/9.0 1300/11.5 1490/17.8 1490/17.8 1490/17.8 1490/17.8 1490/17.9 150/20.0	880/2.2 900/3.0 960/4.0 1030/5.0 1100/7.0 1200/8.7 1310/11.8 1400/14.9 1500/18.0 900/3.0 960/4.0 1320/12.3 1410/15.0 1510/18.2 	910/2.5 940/3.2 1000/4.2 1060/5.5 1130/7.5 1230/9.0 1330/12.0 1430/15.5 1520/19.0 — 940/3.2 1070/5.5 1180/7.6 1280/9.8 1350/12.5 1450/15.5 1540/19.0 — 980/3.7 1010/4.3	980/2.8 1000/3.7 1050/4.6 1100/6.0 1200/8.0 1280/9.8 1370/12.6 1470/16.8 ————————————————————————————————————	1040/3.2 1060/4.0 1100/4.8 1150/6.5 1240/8.3 1320/10.0 1410/13.0 1490/17.0 	1090/3.6 1100/4.2 1140/5.0 1200/7.0 1280/8.6 1350/10.5 1450/14.0 1540/17.3 — 1110/4.2 1150/5.2 1280/8.6 1370/11.4 1460/14.4 1530/17.5 — 1150/4.9 1160/5.2 1210/7.1	1120/3.8 1140/4.4 1160/5.2 1240/7.3 1300/9.0 1370/11.0 1460/14.5 1550/18.2 ————————————————————————————————————	1160/4.0 1180/4.6 1200/5.5 1260/7.5 1320/9.5 1490/15.0 1570/18.5 — 1180/4.6 1210/6.1 1280/7.5 1320/9.3 1420/12.4 1500/15.3 1580/18.2 — 1190/5.0 1210/5.8 1270/7.6	1200/4.2 1210/4.9 1240/6.1 1300/7.9 1360/9.8 1420/12.4 1500/15.5 1600/18.9 	1240/4.5 1250/5.2 1280/6.6 1340/8.4 1400/10.2 1470/12.6 1540/15.9 — — 1260/5.6 1290/7.0 1340/8.7 1400/10.2 1480/13.2 1550/16.0 — — 1260/5.4 1290/6.9	1290/4.8 1300/4.8 1310/7.1 1380/9.0 1440/11.0 1490/12.8 1570/16.4 — — 1300/6.0 1310/7.2 1390/9.0 1440/11.0 1510/13.5 1600/17.0 — — 1300/5.9 1320/7.2 1400/9.1	1300/4.9 1320/6.0 1340/7.3 1410/9.3 1460/11.5 1500/13.0 1600/16.9 — — 1330/6.3 1340/7.5 1410/9.3 1470/11.5 1540/14.4 — — — 1340/6.2 1350/7.4
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58 13500 1450/18.0 1480/18.5 1520/19.0 — <th< th=""><th>80</th><th>000</th><th>86 74 65 58 52 47 43 40 85 74 66 59 54 49 46 41 120 111 97 86 78 71</th><th>5200 6000 7000 8000 9000 110000 12000 13000 13500 5900 7000 8000 9000 11000 13500 6500 7000 8000 9000 10000 11000 11000 11000 11000 11000 11000 11000 11000</th><th>590/1.3 640/1.6 760/2.6 850/3.7 950/5.0 1040/7.5 1200/8.7 1390/16.2 1440/17.0 650/1.6 770/2.6 860/3.7 950/5.0 1100/7.8 1210/9.9 1300/12.7 1400/16.2 1440/17.5 710/2.0 770/2.7 870/3.8 960/5.1 1100/7.7</th><th>660/1.4 730/1.9 800/3.0 900/4.0 980/5.3 1110/7.8 1220/10.0 1320/13.0 1400/16.5 1460/18.0 730/2.0 800/2.9 900/4.0 990/5.5 1130/8.1 1220/10.1 1340/13.0 1420/16.5 1470/18.2 770/2.4 810/3.1 1910/4.1 1000/5.5 1120/8.0</th><th>730/1.6 790/2.3 860/3.2 950/4.5 1030/6.0 1250/10.6 1360/14.0 1440/17.0 1490/19.0 800/2.4 890/3.4 960/4.5 1040/6.0 1190/8.8 1260/11.0 1360/14.0 1450/17.5 820/2.7 870/3.4 960/4.6 1040/6.2</th><th>800/1.8 850/2.6 920/3.7 1000/4.8 1070/6.5 1180/8.5 1290/11.3 1380/14.5 1470/17.5 1530/20.0 860/2.6 930/3.8 1000/4.8 1020/9.0 1300/11.5 1400/14.8 1490/17.8 1530/20.0 900/3.1 940/3.75 1010/4.9 1080/7.0 1200/8.8</th><th>880/2.2 900/3.0 960/4.0 1030/5.0 1100/7.0 1200/8.7 1310/11.8 1400/14.9 1500/18.0 960/4.0 1030/5.0 1100/7.2 1240/9.6 1320/12.3 1410/15.0 1510/18.2 — 930/3.3 960/4.0 1120/7.5 1240/9.0 1320/11.5</th><th>910/2.5 940/3.2 1000/4.2 1060/5.5 1130/7.5 1230/9.0 1330/12.0 1430/15.5 1520/19.0 940/3.2 1000/4.2 1070/5.5 1180/7.6 1280/9.8 1350/12.5 1450/15.5 1540/19.0 980/3.7 1010/4.3 1070/5.6 1190/7.8</th><th>980/2.8 1000/3.7 1050/4.6 1100/6.0 1200/8.0 1280/9.8 1370/12.6 1470/16.8 ————————————————————————————————————</th><th>1040/3.2 1060/4.0 1100/4.8 1150/6.5 1240/8.3 1320/10.0 1410/13.0 1490/17.0 ————————————————————————————————————</th><th>1090/3.6 1100/4.2 1140/5.0 1200/7.0 1280/8.6 1350/10.5 1450/14.0 1540/17.3 — 1110/4.2 1150/5.2 1190/6.9 1280/8.6 1370/11.4 1460/14.4 1530/17.5 — 1150/4.9 1160/5.2 1290/8.8 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489 1 0000 1110/7.8 1140/8.2 1 200/9.0 1 230/9.1 1 250/9.7 1 290/9.9 1 310/10.5 1 340/11.1 1 380/11.5 1 390/12.0 1 430/12.5 1 460/12.7 1 490/13.3 1 530/14.1 1 550/14.5 81 1 11000 1 220/10.0 1 230/10.2 1 270/11.1 1 310/11.6 1 330/12.4 1 360/12.5 1 390/13.0 1 420/14.5 1 480/14.7 1 510/15.5 1 520/15.6 1 560/16.1 1 590/17.1 — 74 1 2000 1 310/12.8 1 340/13.1 1 370/14.1 1 410/15.0 1 420/15.4 1 470/16.0 1 490/16.5 1 510/17.1 1 550/17.6 1 560/18.0 1 590/18.6 1 610/19.0 — — — 68 1 3000 1 410/16.5 1 420/17.0 1 460/17.8 1 500/18.2 1 520/19.0 1 550/19.6 —	80	000	86 74 65 58 52 47 43 40 38 100 85 59 54 49 46 44 120 111 97 86 78 71 65 60 58	5200 6000 7000 8000 9000 110000 12000 13500 5900 7000 8000 9000 11000 13500 6500 7000 8000 9000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 13500 7400	590/1.3 640/1.6 760/2.6 850/3.7 950/5.0 1040/7.5 1200/8.7 1300/12.7 1390/16.2 1440/17.0 650/1.6 770/2.6 860/3.7 950/5.0 1100/7.8 1210/9.9 1300/12.7 1400/16.2 770/2.7 870/3.8 960/5.1 1100/7.7 1200/9.9 1310/12.8 1400/16.5 1450/18.0 810/3.1	660/1.4 730/1.9 800/3.0 990/4.0 980/5.3 1110/7.8 1220/10.0 1320/13.0 1400/16.5 1460/18.0 730/2.0 990/5.5 1130/8.1 1220/10.1 1340/13.0 1420/16.5 1470/18.2 770/2.4 810/3.1 910/4.1 1000/5.5 1120/8.0 1220/10.1 1430/13.0 1440/16.5	730/1.6 790/2.3 860/3.2 950/4.5 1030/6.0 1150/10.6 1360/14.0 1440/17.0 1490/19.0 800/2.4 960/4.5 1040/6.0 1190/8.8 1260/11.0 1360/14.0 1450/17.5 820/2.7 870/3.4 960/4.6 1040/6.2 1160/8.5 1260/10.6 1370/14.5 1460/10.6 1360/10.6 1360/10.6 1360/10.6 1360/10.6 1360/10.6 1360/10.6 1360/10.6 1360/10.6 1360/10.6 1360/10.6 1360/10.6 1360/10.6	800/1.8 850/2.6 920/3.7 1000/4.8 1070/6.5 1180/8.5 1290/11.3 1380/14.5 1470/17.5 1530/20.0 860/2.6 930/3.8 1000/4.8 1220/9.0 1300/11.5 1490/17.8 1490/17.8 1530/20.0 900/3.1 940/3.75 1010/4.9 1080/7.0 1200/8.8 1300/11.5 1490/14.8	880/2.2 900/3.0 960/4.0 1030/5.0 1100/7.0 1200/8.7 1310/11.8 1400/14.9 1500/18.0 960/4.0 1030/5.0 1100/7.2 1240/9.6 1320/12.3 1410/15.0 1510/18.2 930/3.3 960/4.0 1040/5.1 1120/7.5 1240/9.0 1320/11.5 1240/9.0 1320/11.5	910/2.5 940/3.2 1000/4.2 1060/5.5 1130/7.5 1230/9.0 1330/12.0 1430/15.5 1520/19.0 — 940/3.2 1070/5.5 1180/7.6 1280/9.8 1350/12.5 1450/15.5 1540/19.0 — 980/3.7 1010/4.3 1070/5.6 1190/7.8 1260/9.5 1340/12.0 1440/15.2 1540/19.0 —	980/2.8 1000/3.7 1050/4.6 1100/6.0 1200/8.0 1280/9.8 1370/12.6 1470/16.8 — 1010/3.6 1050/4.5 1100/6.0 1200/8.0 1300/10.0 1380/12.8 1480/16.4 1560/19.5 — 1040/4.0 1060/4.7 1110/6.1 1220/8.1 1220/8.1 1290/10.0 1380/12.5 1460/15.7 1560/19.5 —	1040/3.2 1060/4.0 1100/4.8 1150/6.5 1240/8.3 1320/10.0 1410/13.0 1490/17.0 	1090/3.6 1100/4.2 1140/5.0 1200/7.0 1280/8.6 1350/10.5 1450/14.0 1540/17.3 — 1110/4.2 1150/5.2 1280/8.6 1370/11.4 1460/14.4 1530/17.5 — 1150/5.2 1210/7.1 1290/8.8 1360/11.0 1460/14.2 1550/17.4 — 1180/5.5	1120/3.8 1140/4.4 1160/5.2 1240/7.3 1300/9.0 1370/11.0 1460/14.5 1550/18.2 ————————————————————————————————————	1160/4.0 1180/4.6 1200/5.5 1260/7.5 1320/9.5 1490/15.0 1570/18.5 1180/4.6 1210/6.1 1280/7.5 1320/9.3 1420/12.4 1500/15.3 1580/18.2 1190/5.0 1210/5.8 1270/7.6 1330/9.6 1410/12.1 1490/15.0 1580/18.6 11490/15.0	1200/4.2 1210/4.9 1240/6.1 1300/7.9 1360/9.8 1420/12.4 1500/15.5 1600/18.9	1240/4.5 1250/5.2 1280/6.6 1340/8.4 1400/10.2 1470/12.6 1540/15.9 — — 1260/5.6 1290/7.0 1340/8.7 1400/10.2 1480/13.2 1550/16.0 — 1260/5.4 1290/6.9 1350/8.5 1410/10.5 1480/13.0 1550/16.1 — — 1330/7.5	1290/4.8 1300/4.8 1310/7.1 1380/9.0 1440/11.0 1490/12.8 1570/16.4 — — 1300/6.0 1310/7.2 1390/9.0 1440/11.0 1510/13.5 1600/17.0 — 1300/5.9 1320/7.2 1400/9.1 1450/11.1 1510/13.6 1580/16.5 — — 1360/7.8	1300/4.9 1320/6.0 1340/7.3 1410/9.3 1460/11.5 1500/13.0 1600/16.9 — — 1330/6.3 1340/7.5 1410/9.3 1470/11.5 1540/14.4 — — 1340/6.2 1350/7.4 1420/9.4 1470/11.8 1530/14.0 1660/17.0 — — 1400/8.0
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 — 68 13000 1410/16.5 1420/17.0 1460/17.8 1500/18.2 1520/19.0 1550/19.6 —	80	000	86 74 65 58 52 47 43 40 38 100 85 74 66 59 54 49 46 44 120 78 78 71 65 60 60 58 120 111	5200 6000 7000 8000 10000 11000 13000 13500 5900 7000 8000 11000 11000 13500 6500 7000 8000 9000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 13500 6500	590/1.3 640/1.6 760/2.6 850/3.7 950/5.0 1040/7.5 1200/8.7 1300/12.7 1390/16.2 1440/17.0 650/1.6 770/2.6 860/3.7 950/5.0 1100/7.8 1210/9.9 1300/12.7 1440/17.5 770/2.6 870/3.8 960/5.1 1100/7.7 1200/9.9 1310/12.8 1400/16.5 1450/18.0 810/3.1	660/1.4 730/1.9 800/3.0 900/4.0 980/5.3 1110/7.8 1220/10.0 1320/13.0 1400/16.5 1460/18.0 730/2.0 800/2.9 900/4.0 990/5.5 1130/8.1 1220/10.1 1340/13.0 1420/16.5 1470/18.2 1470/18.2 120/10.1 1330/3.1 910/4.1 1000/5.5 1120/8.0 1220/10.1 1330/13.1 1410/17.0 1480/18.5 870/3.5	730/1.6 790/2.3 860/3.2 950/4.5 1030/6.0 1150/10.6 1360/14.0 1440/17.0 1490/19.0 800/2.4 890/3.4 960/4.5 1040/6.0 1190/8.8 1260/11.0 1450/17.5 1510/19.5 820/2.7 870/3.4 960/4.6 1040/6.2 1160/8.5 1260/10.6 1370/14.5 1260/10.6 1370/14.5 1260/10.6 1370/14.5 1260/10.6 1370/14.5 1260/10.6	800/1.8 850/2.6 920/3.7 1000/4.8 1070/6.5 1180/8.5 1290/11.3 1380/14.5 1470/17.5 1530/20.0 860/2.6 930/3.8 1000/4.8 1080/6.8 1220/9.0 1300/11.5 1400/14.8 1490/17.8 1530/20.0 100/4.8 100/4.8 100/4.8 1490/17.8 1530/20.0 100/4.9	880/2.2 900/3.0 960/4.0 1030/5.0 1100/7.0 1200/8.7 1310/11.8 1400/14.9 1500/18.0 960/4.0 1030/5.0 1100/7.2 1240/9.6 1320/12.3 1410/15.0 1510/18.2 — 930/3.3 960/4.0 1040/5.1 1120/7.5 1240/9.0 1320/11.5 11410/15.0 1510/18.6	910/2.5 940/3.2 1000/4.2 1060/5.5 1130/7.5 1230/9.0 1330/12.0 1430/15.5 1520/19.0 — 940/3.2 1000/4.2 1070/5.5 1180/7.6 1280/9.8 1350/12.5 1450/15.5 1540/19.0 — 980/3.7 1010/4.3 1070/5.6 1190/7.8 1260/9.5 1340/12.0 1440/15.2 1450/15.3 1070/5.6	980/2.8 1000/3.7 1050/4.6 1100/6.0 1200/8.0 1200/8.0 1470/16.8 — 1010/3.6 1050/4.5 1100/6.0 1300/10.0 1380/12.8 1480/16.4 1560/19.5 — 1040/4.0 1060/4.7 1110/6.1 1220/8.1 1220/8.1 1290/10.0 1380/12.5 1460/15.7 1560/19.5 — 1080/5.0 110/6.1	1040/3.2 1060/4.0 1100/4.8 1150/6.5 1240/8.3 1320/10.0 1410/13.0 1490/17.0 	1090/3.6 1100/4.2 1140/5.0 1200/7.0 1280/8.6 1350/10.5 1450/14.0 1540/17.3 — — 1110/4.2 1150/5.2 1190/6.9 1280/8.6 1370/11.4 1460/14.4 1530/17.5 — — — 1150/4.9 1160/5.2 1210/7.1 1290/8.8 1360/11.0 1460/14.2 1550/17.4 — — — 1180/5.5 1200/7.0	1120/3.8 1140/4.4 1160/5.2 1240/7.3 1300/9.0 1370/11.0 1550/18.2 ————————————————————————————————————	1160/4.0 1180/4.6 1200/5.5 1260/7.5 1320/9.5 1400/12.0 1490/15.0 1570/18.5 — 1180/4.6 1210/6.1 1280/7.5 1320/9.3 1420/12.4 1500/15.3 1580/18.2 — 1190/5.0 1210/5.8 1270/7.6 1330/9.6 1410/12.1 1490/15.0 1580/18.6 — 1240/6.4 1290/7.7	1200/4.2 1210/4.9 1240/6.1 1300/7.9 1360/9.8 1420/12.4 1500/15.5 1600/18.9	1240/4.5 1250/5.2 1280/6.6 1340/8.4 1400/10.2 1470/12.6 1540/15.9 — — 1260/5.6 1290/7.0 1480/13.2 1550/16.0 — 1260/5.4 1290/6.9 1350/8.5 1410/10.5 1480/13.0 1550/16.1 — — 1330/7.5 1360/8.8	1290/4.8 1300/4.8 1310/7.1 1380/9.0 1440/11.0 1440/11.0	1300/4.9 1320/6.0 1340/7.3 1410/9.3 1460/11.5 1500/13.0 1600/16.9 — — 1330/6.3 1340/7.5 1410/9.3 1470/11.5 1540/14.4 — — 1340/6.2 1350/7.4 1420/9.4 1470/11.8 1530/14.0 1660/17.0 — — 1400/8.0 1420/9.5
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 — — — — — — — — — — —	10	000	86 74 65 58 52 47 43 40 85 74 66 59 54 49 46 44 120 86 78 71 65 60 65 60 58	5200 6000 7000 8000 9000 110000 12000 13500 5900 7000 8000 110000 110000 13500 6500 7000 8000 9000 110000	590/1.3 640/1.6 760/2.6 850/3.7 950/5.0 1040/7.5 1200/8.7 1390/16.2 1440/17.0 650/1.6 770/2.6 860/3.7 950/5.0 1100/7.8 1210/9.9 1300/12.7 1400/16.2 1440/17.5 710/2.0 870/3.8 960/5.1 1100/7.7 1200/9.9 1310/12.8 1450/18.0 810/3.1 870/3.8 960/5.1	660/1.4 730/1.9 800/3.0 900/4.0 980/5.3 1110/7.8 1220/10.0 1320/13.0 1400/16.5 1460/18.0 730/2.0 800/2.9 900/4.0 990/5.5 1130/8.1 1220/10.1 1340/13.0 1420/16.5 1470/18.2 770/2.4 810/3.1 910/4.1 1000/5.5 1120/8.0 1220/10.1 1330/13.1 1410/17.0 1480/18.5 870/3.5 910/4.1	730/1.6 790/2.3 860/3.2 950/4.5 1030/6.0 1250/10.6 1360/14.0 1440/17.0 1490/19.0 800/2.4 890/3.4 890/3.4 1260/11.0 1360/14.0 1450/17.5 1510/19.5 820/2.7 870/3.4 960/4.6 1040/6.2 1160/8.5 1260/10.6 1370/14.5 1460/17.6 1370/14.5 1460/17.6	800/1.8 850/2.6 920/3.7 1000/4.8 1070/6.5 1180/8.5 1290/11.3 1380/14.5 1470/17.5 1530/20.0 860/2.6 930/3.8 1000/4.8 1080/6.8 1220/9.0 1300/11.5 1400/14.8 1490/17.8 1530/20.0 900/3.1 900/3.1 1400/14.8 1300/11.5 1400/14.8 1300/11.5	880/2.2 900/3.0 960/4.0 1030/5.0 1100/7.0 1200/8.7 1310/11.8 1400/14.9 1500/18.0 900/3.0 960/4.0 1030/5.0 1100/7.2 1240/9.6 1320/12.3 1410/15.0 1510/18.2 — 930/3.3 960/4.0 1040/5.1 1120/7.5 1240/9.0 1320/11.5 1410/15.0 1510/18.5 — 1000/4.6 1040/5.2 1110/7.3	910/2.5 940/3.2 1000/4.2 1060/5.5 1130/7.5 1230/9.0 1330/12.0 1430/15.5 1520/19.0 — 940/3.2 1000/4.2 1070/5.5 1180/7.6 1280/9.8 1350/12.5 1450/15.5 1540/19.0 — 980/3.7 1010/4.3 1070/5.6 1190/7.8 1260/9.5 1340/12.0 1440/15.2 1550/4.8 1080/5.8 1190/7.8	980/2.8 1000/3.7 1050/4.6 1100/6.0 1200/8.0 1280/9.8 1370/12.6 1470/16.8 ————————————————————————————————————	1040/3.2 1060/4.0 1100/4.8 1150/6.5 1240/8.3 1320/10.0 1410/13.0 1490/17.0 ————————————————————————————————————	1090/3.6 1100/4.2 1140/5.0 1200/7.0 1280/8.6 1350/10.5 1450/14.0 1540/17.3 — 1110/4.2 1150/5.2 1190/6.9 1280/8.6 1370/11.4 1460/14.4 1530/17.5 — 1150/4.9 1160/5.2 1210/7.1 1290/8.8 1360/11.0 1460/14.2 1550/17.4 — 1180/5.5 1200/7.0 1290/9.0	1120/3.8 1140/4.4 1160/5.2 1240/7.3 1300/9.0 1370/11.0 1460/14.5 1550/18.2 1140/4.4 1180/5.9 1380/11.9 1490/15.2 1540/17.9 - 1170/4.9 1310/9.1 1390/11.5 1470/14.5 1560/17.7 1210/6.0 1250/7.5 1310/9.3	1160/4.0 1180/4.6 1200/5.5 1260/7.5 1320/9.5 1400/12.0 1490/15.0 1570/18.5 — — 1180/4.6 1210/6.1 1280/7.5 1320/9.3 1420/12.4 1500/15.3 1580/18.2 — — — — — — — — — — — — — — — — — — —	1200/4.2 1210/4.9 1240/6.1 1300/7.9 1360/9.8 1420/12.4 1500/15.5 1600/18.9	1240/4.5 1250/5.2 1280/6.6 1340/8.4 1400/10.2 1470/12.6 1540/15.9 1260/5.6 1290/7.0 1340/8.7 1400/10.2 1480/13.2 1550/16.0 1260/5.4 1350/8.5 1410/10.5 1480/13.0 1550/16.1 1330/7.5 1330/7.5 1330/7.8	1290/4.8 1300/4.8 1310/7.1 1380/9.0 1440/11.0 1490/12.8 1570/16.4 — — 1300/6.0 1310/7.2 1390/9.0 1440/11.0 1510/13.5 1600/17.0 — — 1300/5.9 1320/7.2 1400/9.1 1450/11.1 1510/13.6 1580/16.5 — — 1360/7.8 1400/9.1	1300/4.9 1320/6.0 1340/7.3 1440/9.3 1440/11.5 1500/16.9 — — 1330/6.3 1340/7.5 1410/9.3 1470/11.5 1540/14.4 — — — 1340/6.2 1350/7.4 1420/9.4 1470/11.8 1530/14.0 1660/17.0 — — 1400/8.0 1420/9.5 1490/12.0
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	10	000	86 74 65 58 47 43 40 38 100 85 59 54 49 46 44 120 111 97 86 60 58 120 58 111 99 89 81	5200 6000 7000 8000 10000 11000 112000 13500 5900 7000 8000 11000 12000 13500 6500 7000 8000 9000 11000 11000 12000 13500 6500 7000 8000 9000 11000 11000 11000 11000 11000 11000 11000 11000	590/1.3 640/1.6 760/2.6 850/3.7 950/5.0 1040/7.5 1200/8.7 1300/12.7 1390/16.2 1440/17.0 650/1.6 770/2.6 860/3.7 950/5.0 1100/7.8 1210/9.9 1300/12.7 1400/16.2 1440/17.5 710/2.0 770/2.7 870/3.8 960/5.1 1100/7.7 1200/9.9 1310/12.8 1450/18.0 810/3.1 870/3.8 960/5.1 1110/7.8	660/1.4 730/1.9 800/3.0 900/4.0 980/5.3 1110/7.8 1220/10.0 1320/13.0 1400/16.5 1460/18.0 730/2.0 990/5.5 1130/8.1 1220/10.1 1340/13.0 770/2.4 810/3.1 910/4.1 1000/5.5 1120/8.0 1220/10.1 1330/13.1 1410/17.0 1480/18.5 870/3.5 910/4.1 1000/5.7 1140/8.2	730/1.6 790/2.3 860/3.2 950/4.5 1030/6.0 1150/8.0 1250/10.6 1360/14.0 1440/17.0 1490/19.0 800/2.4 890/3.4 960/4.5 1040/6.0 1190/8.8 1260/11.0 1360/14.0 1450/17.5 1510/19.5 820/2.7 870/3.4 960/4.6 1040/6.2 1160/8.5 1260/10.6 1370/14.5 1460/17.6 1520/19.0 920/3.8 960/4.7 1520/19.0 1270/11.1	800/1.8 850/2.6 920/3.7 1000/4.8 1070/6.5 1180/8.5 1290/11.3 1380/14.5 1470/17.5 1530/20.0 860/2.6 930/3.8 1000/4.8 1220/9.0 1300/11.5 1400/14.8 1530/20.0 900/3.1 940/3.75 1010/4.9 1080/7.0 1200/8.8 1300/11.5 1400/14.8 1300/11.5	880/2.2 900/3.0 960/4.0 1030/5.0 1100/7.0 1200/8.7 1310/11.8 1400/14.9 1500/18.0	910/2.5 940/3.2 1000/4.2 1060/5.5 1130/7.5 1230/9.0 1330/12.0 1430/15.5 1520/19.0 — 940/3.2 1000/4.2 1070/5.5 1180/7.6 1280/9.8 1350/12.5 1450/15.5 1540/19.0 — 980/3.7 1010/4.3 1070/5.6 1190/7.8 1260/9.5 1340/12.0 1440/15.2 1540/19.0 — 1050/4.8 1190/7.8 1190/7.8 1190/7.8	980/2.8 1000/3.7 1050/4.6 1100/6.0 1280/9.8 1370/12.6 1470/16.8 ————————————————————————————————————	1040/3.2 1060/4.0 1100/4.8 1150/6.5 1240/8.3 1320/10.0 1410/13.0 1490/17.0 ————————————————————————————————————	1090/3.6 1100/4.2 1140/5.0 1200/7.0 1280/8.6 1350/10.5 1450/14.0 1540/17.3 — — — — — 1110/4.2 1150/5.2 1190/6.9 1280/8.6 1370/11.4 1530/17.5 — — 1150/4.9 1160/5.2 1210/7.1 1290/8.8 1360/11.0 1460/14.2 1550/17.4 — — — — — 1180/5.5 1200/7.0 1290/9.0 1380/11.5	1120/3.8 1140/4.4 1160/5.2 1240/7.3 1300/9.0 1370/11.0 1460/14.5 1550/18.2 — — — — — — — — — 1140/4.4 1180/5.9 1230/7.1 1300/9.0 1380/11.9 1490/15.2 1540/17.9 — — 1170/4.9 1180/5.5 1250/7.4 1310/9.1 1390/11.5 1470/14.5 1560/17.7 — — — — — 1210/6.0 1250/7.5 1310/9.3 1390/12.0 1480/14.7	1160/4.0 1180/4.6 1200/5.5 1260/7.5 1320/9.5 1400/12.0 1490/15.0 1570/18.5 — — 1180/4.6 1210/6.1 1280/7.5 1320/9.3 1420/12.4 1500/15.3 1580/18.2 — — 1190/5.0 1210/5.8 1270/7.6 1330/9.6 1410/12.1 1490/15.0 1580/18.6 — — 1240/6.4 1290/7.7 1330/9.7	1200/4.2 1210/4.9 1240/6.1 1300/7.9 1360/9.8 1420/12.4 1500/15.5 1600/18.9 — — — — — — — — 1210/5.0 1360/9.9 1450/12.6 1510/15.5 1600/18.8 — — 1230/5.2 1250/6.2 1300/8.0 1380/10.0 1440/12.5 1510/15.6 1610/19.0 — — — — 1280/6.8 1310/8.1 1390/10.0 1460/12.7 1520/15.6	1240/4.5 1250/5.2 1280/6.6 1340/8.4 1400/10.2 1470/12.6 1540/15.9 — — — — — — 1260/5.6 1290/7.0 1340/8.7 1400/10.2 1480/13.2 1550/16.0 — — 1260/5.4 1290/6.9 1350/8.5 1410/10.5 1480/13.0 1550/16.1 — — — — — — — — — — — — — — — — — — —	1290/4.8 1300/4.8 1310/7.1 1380/9.0 1440/11.0 1490/12.8 1570/16.4 ————————————————————————————————————	1300/4.9 1320/6.0 1340/7.3 1410/9.3 1410/9.3 14600/11.5 1500/13.0 1600/16.9 ————————————————————————————————————
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CONTROL OPTIONS Heating Control Options

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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.

ALL UNITS

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 duct-stat 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.

MAKEUP AIR HEATING APPLICATIONS

CONTROL OPTIONS continued

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

MAKEUP AIR HEATING APPLICATIONS continued

OPTION AG8

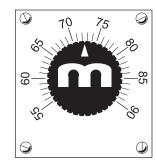
ELECTRONIC MODULATION (55°-90°F) WITH DUCTSTAT:

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.

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. ALL UNITS 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)







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	Model	Size	AG3	AG4	AG5	AG15	AG17, AG18	AG19, AG20
(Option BG2) REQUIRED WHEN: Pkg Model w/2 or 3 furnaces	DDDI	500, 600, 700, 800	4	2	N/A	4	2	N/A
with AG Option Listed (right)plus Override Thermostat	RPBL	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.

REZNOR°

CONTROL OPTIONS (cont'd)

Page Number _____ of ____

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

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

ALL UNITS

- 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)



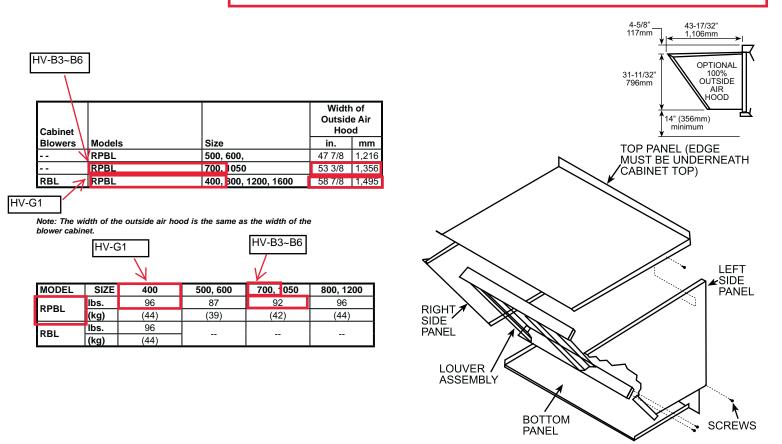
OUTSIDE AIR HOOD OPTION

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.

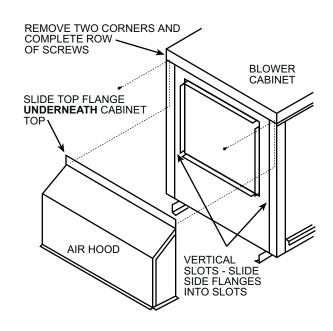


30% OUTSIDE AIR HOOD SUPPLIED WITH INLET AIR OPTIONS AR6 AND AR7 (see description in Air Control Option section)

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
	400	(mm)	(1,495)
	500, 600	in.	47 7/8
-	300, 600	(mm)	(1,216)
	700, 1050	in.	53 3/8
	700, 1030	(mm)	(1,356)
RBL	800, 1200	in.	58 7/8
NBL	500, 1200	(mm)	(1,495)





Motor/Horsepower/Voltage **Selection and Starter Requirement Chart** Applies to Models RPBL & SSCBL HV-G1

HV-B3~B6

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. HV-B3~

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.

١.	Motor	Option		Voltage	208/1/60	230/1/60	208/3/60	230/3/60	460/3/60	575/3/60
•	Туре	No.	HP	RPM	AK2	AK3	AK5	AK6	AK7	AK8
L	IV-G1	AL6	1 HP	1800	С	С	С	С	С	SV
, Ľ	10-01	AL7	1-1/2 HP	1800	С	С	С	С	С	SV
ı		AL8	2 HP	1800	С	С	С	С	С	SV
•		AL9	3 HP	3600	S	S	С	С	С	SV
t	Open Dripproof	AL10	5 HP	3600	S	S	SV	SV	SV	SV
l	Dripprooi	AL11	7-1/2 HP	1800	S	S	SV	SV	SV	SV
l		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
3~B	6	AL23	1 HP	1800	С	С	SV	SV	SV	SV
		AL24	1-1/2 HP	1800	С	С	SV	SV	SV	SV
		AL25	2 HP	1800		С	SV	SV	SV	SV
		AL26	3 HP	3600		S	SV	SV	SV	SV
L	Totally Enclosed	AL27	5 HP	3600		S	SV	SV	SV	SV
•	Enclosed	AL32	7-1/2 HP	1800		S	SV	SV	SV	SV
		AL33	10 HP	1800		S	SV	SV	SV	SV
L		AL34	15 HP	1800			SV	SV	SV	SV
;		AL35	20 HP	1800			SV	SV	SV	SV

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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 IM-PLIED 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°

JOB RECORD						
JOB						
INSTALLATION DATE						
CONTRACTOR						
DISTRIBUTOR						

Revision: W (02-21) 1036195-0 Supersedes: — (Original Version)

WARRANTY

Applies to: Nortek Global HVAC, LLC Products

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: 70Y1



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.

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