

REZNOR®

PRE-ENGINEERED SPLIT SYSTEM

NOW WITH OPTIONAL
ELECTRIC HEATING
OR DEHUMIDIFICATION WITH REHEAT



PREEVA® & PREEVA^{dHTM} - Pre-Engineered Ventilating Air Handler

- > Model PDH - Power-vented, gas-fired heat, indoor unit
- > Model SDH - Separated combustion, gas-fired heat, indoor unit
- > Model RDH - Power-vented, gas-fired heat, outdoor unit
- > Model PEH - Electric heat, indoor unit
- > Model REH - Electric heat, outdoor unit

DX OR CHILLED WATER COOLING

- > Custom Coil design for maximum EER
- > Refrigerants: R-410A, R-22, R-407C or R-134
- > When matched with M Series Condenser, R-410A DX coils can provide full or part load*
 - DX coils can provide 1/3, 2/3 or full load
 - Energy Saving - Deliver only the amount of cooling required
 - Extended equipment life - part load cooling means fewer compressor on/off cycles

LONG LASTING, ATTRACTIVE CABINET FINISH

- > G-90 coated material with primer (interior surface)
- > Pre-coat white high gloss finish, meets ASTM B117 specification for salt spray for 1,000 hours (exterior surface)
- > Optional double wall construction with high density insulation

OPTIONAL OUTSIDE AIR MIXING BOX

- > A variety of optional damper controls including 2-position and modulating cooling economizer controls
- > Top and bottom return ducts opening - allows greater installation flexibility

OPTIONAL EVAPORATIVE COOLING SECTION

- > 6" or 12" media

EASY INSTALLATION AND MAINTENANCE

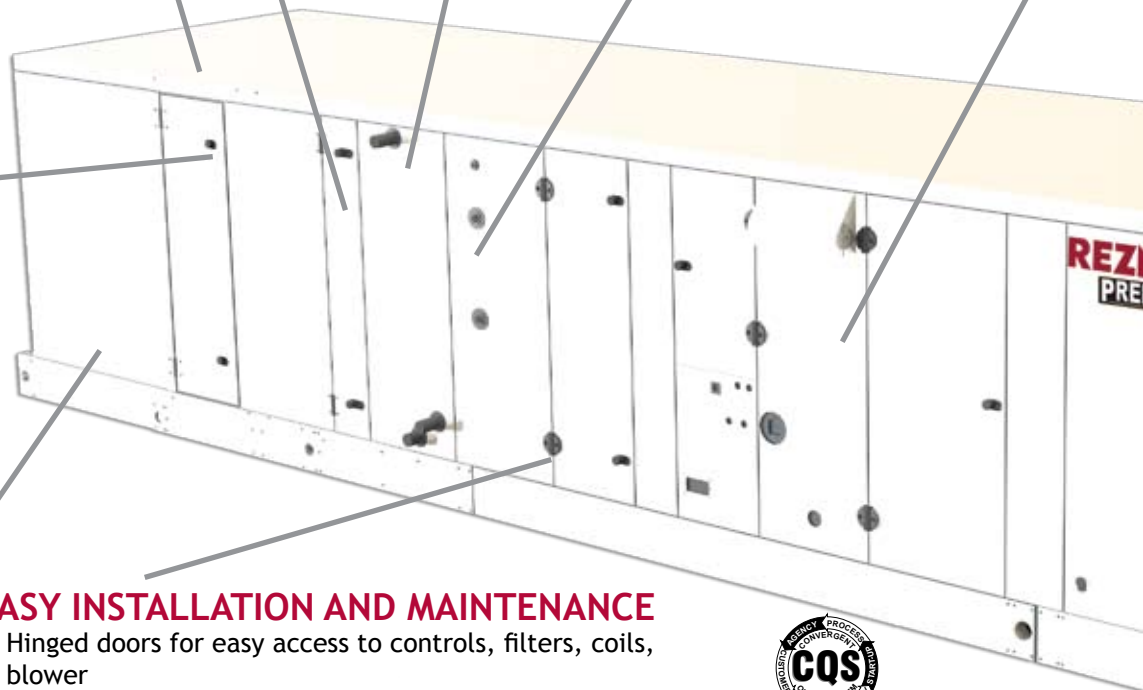
- > Hinged doors for easy access to controls, filters, coils, blower
- > Slide out burner for inspection or replacement
- > Slide out drain pan for easy cleaning
- > Standard refrigerant service valves
- > Convenient unit mounted disconnect
- > Convention left and right hand controls mounting

PREEVA^{dHTM} Humidity Control

- > Dedicated modulating reheat pump system provides dehumidification when you need it
 - Compact design allows R-410A reheat system to reside in the coil cabinet
 - 12-17° F temperature rise
 - Custom coil performance matched to reheat circuit to maintain best system EER
 - Digital controls to enable and disable reheat based upon outside and space conditions

BLOWER/MOTOR SECTION

- > ¼ through 5 hp standard and high efficiency motors
- > Optional variable frequency drives and controls
- > Vibration isolation for improved noise reduction
- > 5 cabinet sizes
 - Heating only: 570 - 7,500 cfm
 - Cooling & heating 570 - 5,863 cfm



* For complete details, see PREEVA Means More efficiency white paper on www.RezSpec.com, or contact your Reznor Representative.

M Series Condensing Unit

- > 5-20 tons
- > R-410A refrigerant (non ozone depleting - HFC)
- > High efficiency microchannel coil
- > Multiple stage cooling

LONG LASTING, ATTRACTIVE CABINET FINISH

- > G-90 coated material with primer (interior surface)
- > Pre-coat white high gloss finish, meets ASTM B117 specification for salt spray for 1,000 hours (exterior surface)

ROBUST HEATING SECTION

- > T_{CORE}²® heating system (patented Reznor feature)
 - Thermal efficiency is higher than most conventional heaters at full load* (minimum 81+% thermal efficiency throughout the heating range)
 - Propane or natural gas
 - 4:1 modulation
 - Optional stainless steel heat exchanger for demanding high outside air applications
 - 1, 5 or 10 year warranty
- > Electric heat from 10 - 120 kW
 - Single and 3 phase power options
 - SCR capacity control for 0-100% modulation



DUAL CIRCUIT - 3 STAGE

- > Scroll compressors
- > Optional five (5) year limited warranty on compressors
- > Allows for full or part load when coupled with PREEVA Series or similar unit with matching coil configuration
 - M Series can provide 1/3, 2/3 or full load
 - Energy saving - deliver only the amount of cooling required
 - Extended equipment life - fewer on/off cycles reduces wear and tear on the system

EASY INSTALLATION AND MAINTENANCE

- > Forklift holes for lifting
- > Heavy gauge base
- > Large door for easy access to controls, compressors, etc.

OPTIONAL DOWNTURN PLENUM (Model RDH Only)



OTHER M SERIES FEATURES

- > Liquid line receiver
- > Isolation relay on control circuit
- > Liquid line filter driers
- > Corrosion resistant micro-channel coil (easily cleanable)
- > UL Listed for U.S. and Canada (UL 1995 Heating and Cooling Equipment)
- > Service valves with gauge ports
- > Optional hot gas bypass for one or both circuits
- > Optional ElectroFin™ condenser coil coating

OTHER PREEVA FEATURES

- > Optional UV-C germicidal lamps for improved IAQ
- > Optional MERV 4 to MERV 7 Filters
- > Optional Analog or digital controls
- > Optional High ambient controls
- > Optional Remote display panels

PREEVA® & PREEVA^{dH}™ - PRE-Engineered Ventilating Air Handler

PREEVA (Models PDH, RDH & SDH)	Cabinet Size	A			B			C			D		E	
	Model Size	75	100	125	150	175	200	225	250	300	350	400A		
Input Heating Capacity	MBH	75	100	125	150	175	200	225	250	300	350	400		
	kw/h	22.0	29.3	36.6	43.9	51.2	58.6	65.9	73.2	87.8	102.5	117.1		
Output Heating Capacity (81% Thermal Efficiency)	MBH	61	81	101	122	142	162	182	203	243	284	324		
	kw/h	17.8	23.7	29.6	35.6	41.5	47.4	53.4	59.3	71.2	83.0	94.9		
Weight (lbs)	RDH	441	453	565	573	665	679	679	883	897	1028	1039		
	PDH	421	433	545	553	645	659	659	863	877	1008	1019		
	SDH	421	433	545	553	645	659	659	863	877	1008	1019		
Air Volume at Given Temperature Rise	40 °F	cfm	1406	1875	2344	2813	3281	3750	4219	4688	5625	6563	7500	
	4.4 °C	m³/min.	40	53	66	80	93	106	119	133	159	186	212	
	100 °F	cfm	563	750	938	1125	1313	1500	1688	1875	2250	2625	3000	
	37.8 °C	m³/min.	16	21	27	32	37	42	48	53	64	74	85	



PreeVA Electric Heat (Models PEH & REH)	Cabinet Size	A			B			D			E				
	Unit Size	10A	20A	40A	15B	30B	60B	30D	60D	90D	120D	40E	80E	120E	
	kW Size	10	20	40	15	30	60	30	60	90	120	40	80	120	
	BTU _{nominal}	34.2	68.3	136.7	51.3	102.5	205.0	102.5	205.0	307.5	410.0	136.7	273.4	410.0	
Weight (lbs)	REH	442	442	442	524	524	524	794	794	794	794	901	901	901	
	PEH	402	402	402	524	524	524	774	774	774	774	881	881	881	
Air Volume at Given Temperature Rise	32 °F	CFM	971	1,941	3,883	1,456	2,912	5,824	2,912	5,824	7500*	7500*	3,883	7500*	7500*
	0 °C	m³/min	27	55	110	41	82	165	82	165	212*	212*	110	212*	212*
	45 °F	CFM	690	1,381	2,761	1,035	2,071	4,142	2,071	4,142	6,213	7500*	2,761	5,522	7500*
	7 °C	m³/min	20	39	78	29	59	117	59	117	176	212*	78	156	212*
	60 °F	CFM	518	1,035	2,071	777	1,553	3,106	1,553	3,106	4,660	6,213	2,071	4,142	6,213
	16 °C	m³/min	15	29	59	22	44	88	44	88	132	176	59	117	176

PREEVA^{dH}™ adds 4 tons of dehumidification cooling meeting ASHRAE Standard 90.1.

* Maximum CFM for the cabinet size. Temperature rise is higher than shown.

**Electric heat: 10A & 15B single phase 115/230V, 20A single and 3 Phase, All other sizes 3 phase 208-575V power.

M Series Condensing Unit

MASA Size		60	90	120	150	180	240
Nominal Capacity (Tons)		5	7.5	10	12.5	15	20
BTU Capacity	Circuit A / Circuit B	22,063 / 37,928	31,183 / 59,495	41,540 / 82,519	57,217 / 107,290	64,334 / 135,209	79,200 / 159,600
Operating Weight	lbs (kg)	440 (200)	461 (209)	632 (287)	699 (317)	749 (340)	771 (350)

PREEVA Cabinet Size/ Example Performance	MASA-060	MASA-090	MASA-120	MASA-150	MASA-180	MASA-240
	95/76	95/76	95/76	95/76	95/76	95/76
A	SCFM	811	1288	1673		
	DAT dB/wB	54.4/54.4	55.1/55.1	55.1/55.1		
	Coils Rows/FPI	6/8	6/14	6/14		
	SCFM	722	1026	1485		
	DAT dB/wB	50.5/50.4	50.2/50.2	52.7/52.7		
	Coils Rows/FPI	6/10	6/14	6/14		
B	SCFM		1293	1474		
	DAT dB/wB		55.7/55.3	56/55		
	Coils Rows/FPI		6/8	3/14		
	SCFM		1149	1325		
	DAT dB/wB		51.8/51.8	53.3/52.3		
	Coils Rows/FPI		6/12	4/10		
C	SCFM			1712	2229	
	DAT dB/wB			55.1/55.1	55.3/55.3	
	Coils Rows/FPI			6/12	6/14	
	SCFM			1485	1846	
	DAT dB/wB			51.0/51.0	50.4/50.4	
	Coils Rows/FPI			6/14	6/14	
D	SCFM			1816	2228	2815
	DAT dB/wB			56.9/56.3	55.8/55.0	55.4/55.4
	Coils Rows/FPI			3/14	6/8	6/12
	SCFM				1948	2436
	DAT dB/wB				50.5/50.5	50.9/50.9
	Coils Rows/FPI				6/14	6/14
E	SCFM				2280	2717
	DAT dB/wB				55.3/55.2	55.2/54.6
	Coils Rows/FPI				4/14	6/8
	SCFM				1948	2397
	DAT dB/wB				50.3/50.3	50.0/50.0
	Coils Rows/FPI				6/12	6/14

Custom evaporator coils dictate actual performance. Please see selection software for unit performance



800-695-1901
www.RezSpec.com

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