

ADDISON®

SEMI-CUSTOM PACKAGED COOLING SYSTEMS PR-SERIES

- Designed to be highly-energy efficient in both operation and construction- Units utilize 2", R-13 construction on the air side and direct-drive fans with premium efficiency motors and variable frequency drives.
- Compatible with many different load-side variations- Units available as air-cooled air conditioner, air-source heat pump, water-source heat pump, geothermal water-source heat pump and chilled water air handler.
- Provide four-season conditioning of air- Units available with high-output supplemental gas, electric and hydronic heat modules.
- Ideal for treatment of 100% outside air- Units available with optional digital scroll compressors, hot refrigerant gas reheat and energy conservation wheels.



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Intertek

PRRA AND PRRH: RATED IN ACCORDANCE TO ANSI / AHRI STANDARDS 210/240-2008 OR 340/360-2007
PRRW: RATED IN ACCORDANCE TO ISO STANDARD 13256-1:1998

SEMI-CUSTOM PACKAGED COOLING SYSTEMS

ADDISON® semi-custom packaged cooling systems are outdoor systems typically installed in new or retrofit commercial and institutional applications.

FEATURES OF PR-SERIES

Long-Lasting Construction Provided by:

- Heavy-duty frame design with reinforced base and heavy, 16 gauge steel corner posts and door mullions.
- Double wall construction of 2" thick, R-13 closed cell foam insulation to reduce heat transfer losses.
- Two-coat, primer-paint finish on exterior of galvanized steel cabinet panels that meets the 1,000 Hour Salt Spray Test as described in ASTM B117, "Standard Practice for Operating Salt Spray (Fog) Apparatus".
- Stainless steel and/or MAGNI® 555-coated hardware to help prevent fastener corrosion.
- Double-sloped, extra-large, stainless steel drain pan equipped with drain fittings positioned on exterior of cabinet to facilitate removal of condensate and eliminate standing water.
- Powder-coated condenser fan guards to help ensure long-term durability.
- Evaporator and condenser coils fabricated of aluminum fins and mechanically-expanded, seamless copper refrigeration tubing to help ensure long-term efficient heat transfer from tube to fin.
- Fully-insulated coaxial coils on water-source heat pump units to minimize condensation build-up.
- Optional harsh environment protection coating on coils and cabinet that exceeds 10,000 Hour Salt Spray Test as described in ASTM B117, "Standard Practice for Operation Salt Spray (Fog) Apparatus".

Ease of Maintenance Provided by:

- Access to evaporator, hot gas reheat and sub-cooling coils through hinged access door to ease access constraints.
- Liquid, suction and discharge line service ports that provide access when charging refrigerant or monitoring system.
- Touch-safe control panel to help protect service technician.
- Optional 115V GFCI electric receptacle to provide easy-access power for service technician at unit.

Reliable, Efficient System Operation Provided by:

- High-efficiency scroll compressors with crankcase heaters to reduce oil dilution on start-up.
- Direct-drive supply, exhaust and condenser fans with high-efficiency, ODP or TEFC fan motors (optional ECM) and variable frequency drives (VFD) to improve energy efficiency.
- Variable head pressure control to help ensure proper unit operation at low ambient conditions.
- Standard pre-filters (and optional final filters) to improve indoor air quality.
- Phase/voltage monitor to help detect abnormalities in electric supply.

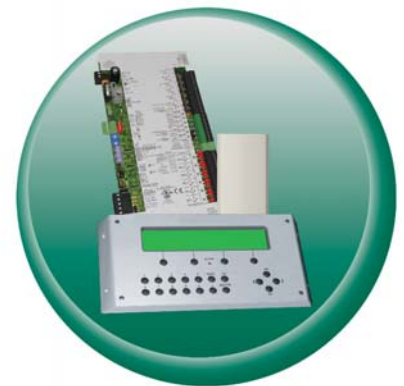
Suit Most Applications with Availability of:

- Multiple cabinet sizes help to optimize performance of operating components.
- Choice of bottom or end supply air discharge to help accommodate most applications.
- Optional digital scroll compressor or hot gas bypass to reduce overcooling or icing of evaporator coil during times when light load conditions are present.
- Optional energy recovery module to help provide pre-conditioning of evaporator inlet air with leaving exhaust air to help curtail energy usage.
- Optional gas heat furnaces with high outputs and turn-downs to help meet outside air heating requirements.
- Optional on/off or modulating hot gas reheat to help re-warm dehumidified air to a neutral discharge temperature for accurate humidity control.
- Optional switchable sub-cooling to increase system latent capacity with no increase in compressor power consumption.

DIRECT DIGITAL CONTROLLER

The ADDISON® ALC Control is a direct digital controller that can efficiently monitor and control ADDISON® equipment. Features and benefits of the ALC Control include:

- Greater control of equipment with ability to monitor and change setpoints for room temperature and humidity and leaving air temperature (as applicable depending on equipment type and application).
- Detect problems earlier with ability to monitor status of compressor(s), supply fan and exhaust fan (as applicable depending on equipment type and application).
- Design flexibility as controller can operate in stand-alone capacity or in conjunction with a Building Management System (BMS) via BACnet®, Modbus, Lonworks® and N2 protocols.
- Simple field set-up without the need for additional downloads or technical assistance as protocol point mapping is pre-set in the factory
- Customizable with digital outputs, analog outputs and universal inputs. Customized programming to meet a specific application's sequence of operation is also available.



CONFIGURATIONS & CAPACITIES

PROA Unit (Air-Cooled for 100% Outside Air Cooling Applications)

Design: Heat is transferred from load-side supply air to source-side ambient air via refrigerant.
Function: Provides cooled and dehumidified 100% outside air to the conditioned space.
Application: Ideal for applications requiring cooled and dehumidified 100% outside air for make-up air cooling.

PROA MODEL	AIRFLOW		COOLING CAPACITY		EER
	CFM	m ³ /h	Btu/h	kW	
036	450	764	39,300	11.5	12.9
048	600	1,019	49,600	14.5	13.8
060	750	1,274	58,700	17.2	13.6
072	900	1,529	67,500	19.8	14.2
084	1,050	1,784	84,600	24.8	12.2
096	1,200	2,038	95,300	27.9	12.2
120	1,500	2,548	122,100	35.8	13.6
150	1,800	3,058	142,600	41.8	13.2
180	2,100	3,567	163,500	47.9	12.4
210	2,600	4,417	200,900	58.9	12.8
240	3,000	5,097	229,300	67.2	12.7
300	3,700	6,286	273,200	80.1	13.1
360	4,000	6,796	313,200	91.8	13.0
420	4,950	8,410	381,100	111.7	11.9
480	5,500	9,344	433,400	127.0	13.2
540	6,700	11,383	551,800	161.7	13.1
600	7,400	12,572	608,700	178.4	13.5
660	8,700	14,781	673,200	197.3	12.5

PRRA Unit (Air-Cooled for Recirculating Air Cooling Applications)

Design: Heat is transferred from load-side supply air to source-side ambient air via refrigerant.
Function: Provides cooled, recirculating air to the conditioned space.
Application: Ideal for applications requiring cooled, recirculating air.

PRRA MODEL	AIRFLOW		COOLING CAPACITY		EER
	CFM	m ³ /h	Btu/h	kW	
036	1,200	2,038	39,700	11.6	13.0
048	1,600	2,718	52,900	15.5	13.5
060	2,000	3,398	67,500	19.8	13.0
072	2,400	4,077	73,600	21.6	11.7
084	2,800	4,757	88,800	26.0	11.4
096	3,200	5,436	99,100	29.0	11.2
120	4,000	6,796	123,700	36.3	12.0
150	5,000	8,495	154,800	45.4	11.2
180	6,000	10,194	191,900	56.2	11.3
210	7,000	11,893	208,400	61.1	11.1
240	8,000	13,592	239,900	70.3	11.4
300	10,000	13,592	324,700	95.2	11.1
360	12,000	16,990	363,600	95.2	11.5
420	14,000	20,388	416,900	106.6	11.1

Notes: 1. EER= Energy Efficiency Ratio (SEER=Seasonal Energy Efficiency Ratio for units with cooling capacity below 65,000 Btu/h)
 2. PROA cooling performance is based on 95.0°F (35.0°C) DB / 78.0°F (25.6°C) WB entering air temperature and 95.0°F (35.0°C) DB / 78.0°F (25.6°C) WB ambient temperature.
 3. PRRA cooling performance is based on 80.0°F (26.7°C) DB / 67.0°F (19.4°C) WB entering air temperature and 95.0°F (35.0°C) DB / 75.0°F (23.9°C) WB ambient temperature.

CONFIGURATIONS & CAPACITIES (Continued)

PROH Unit (Air-Source Heat Pump for 100% Outside Air Heating/Cooling Applications)

Design: Depending on operation, heat is transferred from load-side supply air to source-side ambient air or from source-side ambient air to load-side supply air via refrigerant.

Function: Provides cooled or heated 100% outside air (depending on operation) to the conditioned space.

Application: Ideal for applications requiring cooled/dehumidified or heated 100% outside air (depending on operation) for year-round heating and cooling.

PROH MODEL	AIRFLOW		COOLING CAPACITY		EER	HEATING CAPACITY		COP
	CFM	m ³ /h	Btu/h	kW		Btu/h	kW	
036	450	764	39,400	11.5	13.0	29,800	8.7	3.2
048	600	1,019	49,500	14.5	13.8	36,900	10.8	3.4
060	750	1,274	59,100	17.3	14.1	45,100	13.2	3.5
072	900	1,529	66,500	19.5	13.9	49,500	14.5	3.9
084	1,050	1,784	82,300	24.1	11.8	66,600	19.5	3.3
096	1,200	2,038	94,300	27.6	12.0	76,900	22.5	3.4
120	1,500	2,548	120,800	35.4	13.4	96,500	28.3	3.8
150	1,800	3,058	141,400	41.4	12.6	112,600	33.0	3.9
180	2,100	3,567	162,100	47.5	12.2	131,900	38.7	3.6
210	2,600	4,417	199,300	58.4	12.7	157,900	46.3	3.8
240	3,000	5,097	228,200	66.9	12.6	190,300	55.8	3.7
300	3,700	6,286	278,100	81.5	13.7	238,800	70.0	4.1
360	4,000	6,796	312,600	91.6	13.1	258,500	75.8	3.7
420	4,950	8,410	382,900	112.2	12.0	336,600	98.7	3.6
480	5,500	9,344	438,900	128.6	13.6	351,500	103.0	3.9
540	6,700	11,383	553,800	162.3	13.1	454,000	133.1	3.8
600	7,400	12,572	598,500	175.4	12.7	498,900	146.2	3.8
660	8,700	14,781	670,300	196.5	12.3	552,700	162.0	3.8

PRRH Unit (Air-Source Heat Pump for Recirculating Air Heating/Cooling Applications)

Design: Depending on operation, heat is transferred from load-side supply air to source-side ambient air or from source-side ambient air to load-side supply air via refrigerant.

Function: Provides cooled or heated recirculating air (depending on operation) to the conditioned space.

Application: Ideal for applications requiring cooled or heated recirculating air (depending on operation) for year-round heating and cooling.

PRRH MODEL	AIRFLOW		COOLING CAPACITY		EER	HEATING CAPACITY		COP
	CFM	m ³ /h	Btu/h	kW		Btu/h	kW	
036	1,200	2,038	39,900	11.7	13.0	35,500	10.4	4.0
048	1,600	2,718	52,900	15.5	13.6	48,600	14.2	4.2
060	2,000	3,398	67,500	19.8	13.0	62,000	18.2	4.0
072	2,400	4,077	72,000	21.1	11.3	71,300	20.9	3.8
084	2,800	4,757	85,400	25.0	11.0	86,900	25.5	3.6
096	3,200	5,436	98,200	28.8	11.0	101,800	29.8	3.7
120	4,000	6,796	122,100	35.8	11.7	124,900	36.6	3.9
150	5,000	8,495	153,200	44.9	11.1	156,400	45.8	3.7
180	6,000	10,194	189,800	55.6	11.1	195,500	57.3	3.7
210	7,000	11,893	206,300	60.5	11.0	213,400	62.5	3.8
240	8,000	13,592	238,000	69.8	11.2	249,100	73.0	3.7
300	10,000	16,990	324,600	95.1	11.7	318,900	93.5	3.6
360	12,000	16,990	364,400	95.1	11.5	372,900	93.5	3.8
420	14,000	20,388	422,500	106.8	11.5	442,500	109.3	3.8

- Notes:
1. EER= Energy Efficiency Ratio (SEER=Seasonal Energy Efficiency Ratio for units with cooling capacity below 65,000 Btu/h); COP= Coefficient of Performance
 2. PROH cooling performance is based on 95.0°F (35.0°C) DB / 78.0°F (25.6°C) WB entering air temperature and 95.0°F (35.0°C) DB / 78.0°F (25.6°C) WB ambient temperature. PROH heating performance is based on 30.0°F (-1.1°C) DB entering air temperature and 30.0°F (-1.1°C) DB ambient temperature.
 3. PRRH cooling performance is based on 80.0°F (26.7°C) DB / 67.0°F (19.4°C) WB entering air temperature and 95.0°F (35.0°C) DB / 75.0°F (23.9°C) WB ambient temperature. PRRH heating performance is based on 70.0°F (21.1°C) DB / 60.0°F (15.6°C) WB entering air temperature and 47.0°F (8.3°C) DB / 43.0°F (6.1°C) WB ambient temperature.

CONFIGURATIONS & CAPACITIES (Continued)

PROW Unit (Water-Source Heat Pump for 100% Outside Air Heating/Cooling Applications)

Design: Depending on operation, heat is transferred from load-side supply air to source-side water or from source-side water to load-side supply air via refrigerant.

Function: Provides cooled or heated air (depending on operation) to the conditioned space.

Application: Ideal for applications requiring cooled/dehumidified or heated 100% outside air (depending on operation) for year-round heating and cooling.

WATER LOOP APPLICATIONS	PROW MODEL	AIRFLOW		WATER FLOW		COOLING CAPACITY		EER	HEATING CAPACITY		COP
		CFM	m ³ /h	GPM	L/s	Btu/h	kW		Btu/h	kW	
	036	450	764	9.0	0.6	37,900	11.1	13.1	46,900	13.7	4.0
048	600	1,019	12.0	0.8	48,000	14.1	13.6	59,800	17.5	4.2	
060	750	1,274	15.0	0.9	58,000	17.0	13.7	72,900	21.4	4.2	
072	900	1,529	18.0	1.1	65,200	19.1	14.3	78,000	22.9	4.7	
084	1,050	1,784	21.0	1.3	75,900	22.2	12.1	99,100	29.0	4.0	
096	1,200	2,038	24.0	1.5	88,500	25.9	12.3	110,200	32.3	4.0	
120	1,500	2,548	30.0	1.9	119,800	35.1	14.1	147,900	43.3	4.6	
150	1,800	3,058	40.0	2.5	140,300	41.1	13.1	175,100	51.3	4.3	
180	2,100	3,567	46.0	2.9	161,700	47.4	13.1	207,200	60.7	4.2	
210	2,600	4,417	54.0	3.4	198,700	58.2	13.2	256,400	75.1	4.4	
240	3,000	5,097	60.0	3.8	225,200	66.0	13.1	291,100	85.3	4.3	
300	3,700	6,286	76.0	4.8	270,100	79.2	13.3	257,200	75.4	4.5	
360	4,000	6,796	90.0	5.7	306,900	89.9	13.4	399,200	117.0	4.3	
420	4,950	8,410	106.0	6.7	377,500	110.6	12.1	500,800	146.8	4.0	
480	5,500	9,344	120.0	7.6	424,200	124.3	13.1	531,700	155.8	4.4	
540	6,700	11,383	136.0	8.6	538,900	157.9	13.4	659,300	193.2	4.1	
600	7,400	12,572	150.0	9.5	587,600	172.2	13.3	721,400	211.4	4.1	
660	8,700	14,781	166.0	10.5	659,000	193.1	13.0	819,700	240.2	4.1	

PRRW Unit (Water-Source Heat Pump for Recirculating Air Heating/Cooling Applications)

Design: Depending on operation, heat is transferred from load-side supply air to source-side water or from source-side water to load-side supply air via refrigerant.

Function: Provides cooled or heated recirculating air (depending on operation) to the conditioned space.

Application: Ideal for applications requiring cooled or heated recirculating air (depending on operation) for year-round heating and cooling.

WATER LOOP APPLICATIONS	PRRW MODEL	AIRFLOW		WATER FLOW		COOLING CAPACITY		EER	HEATING CAPACITY		COP
		CFM	m ³ /h	GPM	L/s	Btu/h	kW		Btu/h	kW	
	036	1,200	2,038	9.0	0.6	36,800	10.8	15.0	44,000	12.9	5.6
048	1,600	2,718	12.0	0.8	49,100	14.4	15.2	59,400	17.4	5.6	
060	2,000	3,398	15.0	0.9	63,200	18.5	15.2	76,000	22.3	5.5	
072	2,400	4,077	18.0	1.1	74,300	21.8	14.4	86,400	25.3	5.1	
084	2,800	4,757	21.0	1.3	86,100	25.2	14.1	101,900	29.9	4.9	
096	3,200	5,436	24.0	1.5	96,100	28.2	13.6	113,400	33.2	4.8	
120	4,000	6,796	30.0	1.9	126,900	37.2	15.2	150,600	44.1	5.2	
150	5,000	8,495	36.0	2.3	159,900	46.9	14.1	188,400	55.2	4.8	
180	6,000	10,194	44.0	2.8	200,300	58.7	14.5	233,700	68.5	4.8	
210	7,000	11,893	52.0	3.3	216,400	63.4	14.3	265,900	77.9	5.1	
240	8,000	13,592	60.0	3.8	246,000	72.1	14.3	300,700	88.1	4.9	
300	10,000	16,990	76.0	4.8	330,300	96.8	14.5	398,200	116.7	4.9	
360	12,000	16,990	90.0	4.8	374,600	96.8	14.5	447,400	116.7	4.9	
420	14,000	20,388	104.0	5.7	432,300	109.8	14.1	515,300	131.1	4.8	

- Notes:
1. EER= Energy Efficiency Ratio; COP= Coefficient of Performance
 2. PROW cooling performance is based on 95.0°F (35.0°C) DB / 78.0°F (25.6°C) WB entering air temperature and 86.0°F (30.0°C) entering water temperature. PROW heating performance is based on 30.0°F (-1.1°C) DB entering air temperature and 68.0°F (20.0°C) entering water temperature.
 3. PRRW cooling performance is based on 80.6°F (27.0°C) DB / 66.2°F (19.0°C) WB entering air temperature and 86.0°F (30.0°C) entering water temperature. PRRW heating performance is based on 68.0°F (20.0°C) DB / 59.0°F (15.0°C) WB entering air temperature and 68.0°F (20.0°C) entering water temperature.

CONFIGURATIONS & CAPACITIES (Continued)

PROW Unit (Water-Source Heat Pump for 100% Outside Air Heating/Cooling Applications)

Design: Depending on operation, heat is transferred from load-side supply air to source-side water or from source-side water to load-side supply air via refrigerant.

Function: Provides cooled or heated 100% outside air (depending on operation) to the conditioned space.

Application: Ideal for applications requiring cooled/dehumidified or heated 100% outside air (depending on operation) for year-round heating and cooling.

GROUND LOOP APPLICATIONS	PROW MODEL	AIRFLOW		WATER FLOW		COOLING CAPACITY		EER	HEATING CAPACITY		COP
		CFM	m ³ /h	GPM	L/s	Btu/h	kW		Btu/h	kW	
	036	450	764	9.0	0.6	39,200	11.5	14.9	30,500	8.9	3.4
048	600	1,019	12.0	0.8	49,700	14.6	15.4	38,500	11.3	3.5	
060	750	1,274	15.0	0.9	60,100	17.6	15.5	46,900	13.7	3.4	
072	900	1,529	18.0	1.1	67,700	19.8	16.1	50,100	14.7	3.9	
084	1,050	1,784	21.0	1.3	81,900	24.0	14.1	64,000	18.8	3.6	
096	1,200	2,038	24.0	1.5	91,600	26.8	13.8	70,700	20.7	3.4	
120	1,500	2,548	30.0	1.9	124,300	36.4	16.0	95,500	28.0	3.9	
150	1,800	3,058	40.0	2.5	145,400	42.6	14.5	120,000	35.2	3.8	
180	2,100	3,567	46.0	2.9	167,600	49.1	14.6	135,000	39.6	3.8	
210	2,600	4,417	54.0	3.4	206,000	60.4	14.8	168,500	49.4	3.9	
240	3,000	5,097	60.0	3.8	233,200	68.3	14.8	189,800	55.6	3.8	
300	3,700	6,286	76.0	4.8	280,600	82.2	15.0	236,800	69.4	3.9	
360	4,000	6,796	90.0	5.7	318,600	93.4	15.1	265,300	77.8	3.8	
420	4,950	8,410	106.0	6.7	392,100	114.9	13.4	328,100	96.2	3.6	
480	5,500	9,344	120.0	7.6	439,600	128.8	14.4	347,100	101.7	3.8	
540	6,700	11,383	136.0	8.6	558,500	163.7	15.0	425,700	124.8	3.6	
600	7,400	12,572	150.0	9.5	608,700	178.4	14.9	470,600	137.9	3.6	
660	8,700	14,781	166.0	10.5	682,000	199.9	14.4	531,100	155.7	3.6	

PRRW Unit (Water-Source Heat Pump for Recirculating Air Heating/Cooling Applications)

Design: Depending on operation, heat is transferred from load-side supply air to source-side water or from source-side water to load-side supply air via refrigerant.

Function: Provides cooled or heated recirculating air (depending on operation) to the conditioned space.

Application: Ideal for applications requiring cooled or heated recirculating air (depending on operation) for year-round heating and cooling.

GROUND LOOP APPLICATIONS	PRRW MODEL	AIRFLOW		WATER FLOW		COOLING CAPACITY		EER	HEATING CAPACITY		COP
		CFM	m ³ /h	GPM	L/s	Btu/h	kW		Btu/h	kW	
	036	1,200	2,038	9.0	0.6	38,700	11.3	17.3	27,400	8.0	3.8
048	1,600	2,718	12.0	0.8	51,400	15.1	17.5	37,500	11.0	3.9	
060	2,000	3,398	15.0	0.9	65,900	19.3	17.3	47,600	14.0	3.9	
072	2,400	4,077	18.0	1.1	77,400	22.7	16.4	53,500	15.7	3.5	
084	2,800	4,757	21.0	1.3	89,900	26.3	16.0	63,700	18.7	3.6	
096	3,200	5,436	24.0	1.5	100,000	29.3	15.3	71,900	21.1	3.5	
120	4,000	6,796	30.0	1.9	132,800	38.9	17.4	94,700	27.8	3.7	
150	5,000	8,495	40.0	2.5	167,200	49.0	16.0	120,100	35.2	3.4	
180	6,000	10,194	46.0	2.9	208,800	61.2	16.2	148,800	43.6	3.6	
210	7,000	11,893	54.0	3.4	225,700	66.1	16.0	167,800	49.2	3.7	
240	8,000	13,592	60.0	3.8	256,000	75.0	16.1	188,100	55.1	3.6	
300	10,000	16,990	76.0	4.8	344,700	101.0	16.3	254,000	74.4	3.7	
360	12,000	16,990	90.0	4.8	391,000	101.0	16.3	285,200	74.4	3.6	
420	14,000	20,388	106.0	5.7	451,900	114.6	15.9	327,600	83.6	3.5	

- Notes:
1. EER= Energy Efficiency Ratio; COP= Coefficient of Performance
 2. PROW cooling performance is based on 95.0°F (35.0°C) DB / 78.0°F (25.6°C) WB entering air temperature and 77.0°F (25.0°C) entering water temperature. PROW heating performance is based on 30.0°F (-1.1°C) DB entering air temperature and 32.0°F (0.0°C) entering water temperature with 20% glycol.
 3. PRRW cooling performance is based on 80.6°F (27.0°C) DB / 66.2°F (19.0°C) WB entering air temperature and 77.0°F (25.0°C) entering water temperature. PRRW heating performance is based on 68.0°F (20.0°C) DB / 59.0°F (15.0°C) WB entering air temperature and 32.0°F (0.0°C) entering water temperature with 20% glycol.

CONFIGURATIONS & CAPACITIES (Continued)

PROW Unit (Water-Source Heat Pump for 100% Outside Air Heating/Cooling Applications)

Design: Depending on operation, heat is transferred from load-side supply air to source-side water or from source-side water to load-side supply air via refrigerant.

Function: Provides cooled or heated 100% outside air (depending on operation) to the conditioned space.

Application: Ideal for applications requiring cooled/dehumidified or heated 100% outside air (depending on operation) for year-round heating and cooling.

GROUND WATER APPLICATIONS	PROW MODEL	AIRFLOW		WATER FLOW		COOLING CAPACITY		EER	HEATING CAPACITY		COP
		CFM	m ³ /h	GPM	L/s	Btu/h	kW		Btu/h	kW	
	036	450	764	9.0	0.6	41,700	12.2	18.7	38,600	11.3	3.7
048	600	1,019	12.0	0.8	52,900	15.5	19.3	48,900	14.3	3.9	
060	750	1,274	15.0	0.9	64,000	18.8	19.5	59,600	17.5	3.9	
072	900	1,529	18.0	1.1	72,300	21.2	20.2	63,500	18.6	4.3	
084	1,050	1,784	21.0	1.3	86,900	25.5	16.8	81,300	23.8	3.8	
096	1,200	2,038	24.0	1.5	97,400	28.5	16.6	90,200	26.4	3.8	
120	1,500	2,548	30.0	1.9	132,600	38.9	20.1	121,500	35.6	4.3	
150	1,800	3,058	40.0	2.5	154,900	45.4	17.6	144,500	42.4	4.2	
180	2,100	3,567	46.0	2.9	178,800	52.4	17.6	170,900	50.1	4.1	
210	2,600	4,417	54.0	3.4	219,500	64.3	18.3	211,700	62.0	4.2	
240	3,000	5,097	60.0	3.8	248,900	72.9	18.5	240,200	70.4	4.1	
300	3,700	6,286	76.0	4.8	300,900	88.2	19.3	296,700	87.0	4.3	
360	4,000	6,796	90.0	5.7	340,400	99.8	19.3	330,900	97.0	4.2	
420	4,950	8,410	106.0	6.7	418,100	122.5	16.0	414,600	121.5	3.9	
480	5,500	9,344	120.0	7.6	468,500	137.3	17.0	439,000	128.7	4.2	
540	6,700	11,383	136.0	8.6	595,200	174.4	17.9	542,700	159.1	4.0	
600	7,400	12,572	150.0	9.5	647,500	189.8	18.2	594,600	174.3	3.9	
660	8,700	14,781	166.0	10.5	724,000	212.2	17.4	674,400	197.7	3.9	

PRRW Unit (Water-Source Heat Pump for Recirculating Air Heating/Cooling Applications)

Design: Depending on operation, heat is transferred from load-side supply air to source-side water or from source-side water to load-side supply air via refrigerant.

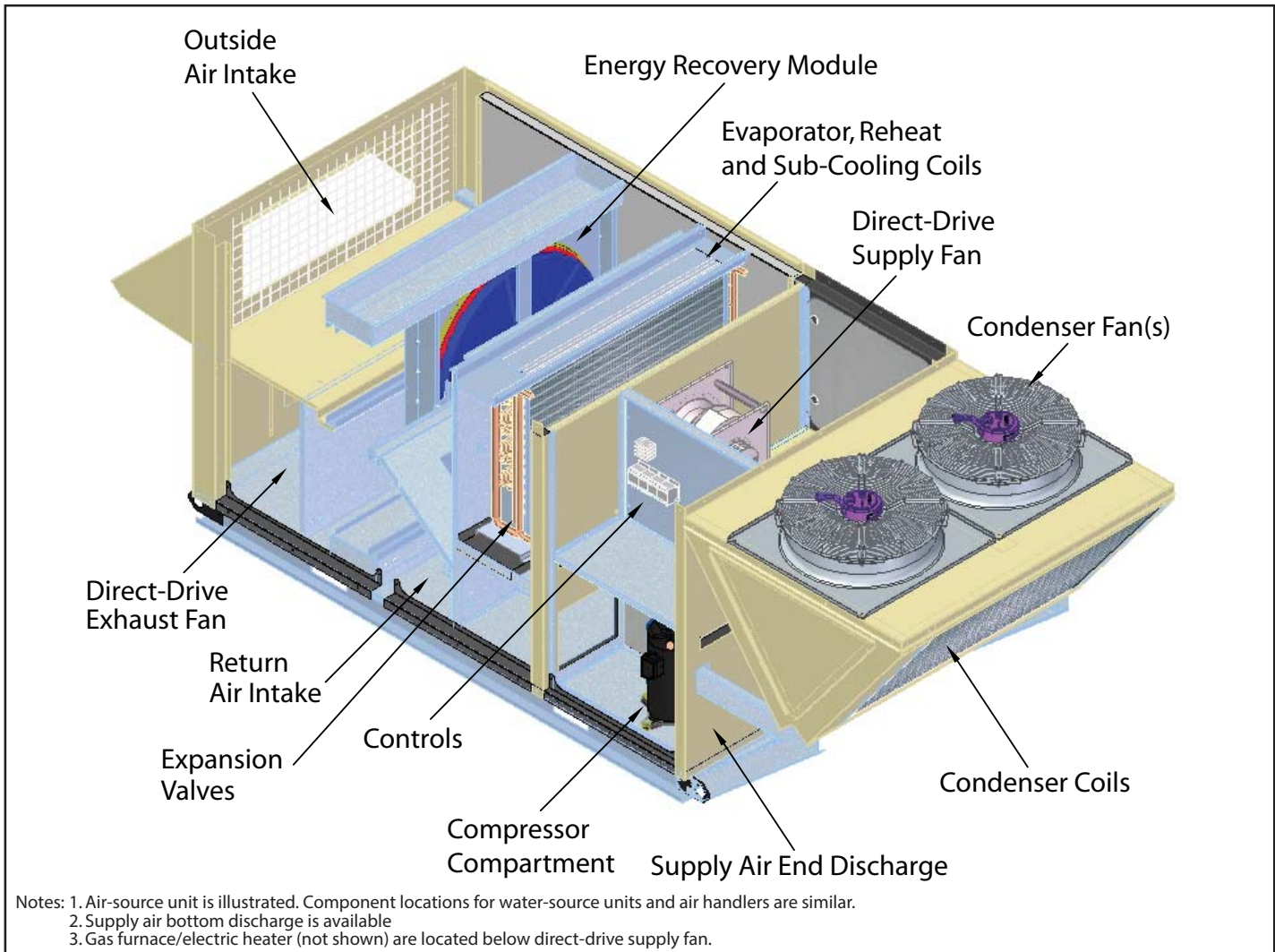
Function: Provides cooled or heated recirculating air (depending on operation) to the conditioned space.

Application: Ideal for applications requiring cooled or heated recirculating air (depending on operation) for year-round heating and cooling.

GROUND WATER APPLICATIONS	PRRW MODEL	AIRFLOW		WATER FLOW		COOLING CAPACITY		EER	HEATING CAPACITY		COP
		CFM	m ³ /h	GPM	L/s	Btu/h	kW		Btu/h	kW	
	036	1,200	2,038	9.0	0.6	42,000	12.3	22.6	35,400	10.4	4.7
048	1,600	2,718	12.0	0.8	56,100	16.4	22.6	48,000	14.1	4.8	
060	2,000	3,398	15.0	0.9	71,800	21.0	22.5	61,400	18.0	4.7	
072	2,400	4,077	18.0	1.1	83,700	24.5	20.8	69,400	20.3	4.4	
084	2,800	4,757	21.0	1.3	97,200	28.5	19.6	82,100	24.1	4.3	
096	3,200	5,436	24.0	1.5	108,000	31.7	18.8	91,800	26.9	4.2	
120	4,000	6,796	30.0	1.9	144,300	42.3	22.5	121,700	35.7	4.5	
150	5,000	8,495	36.0	2.3	181,000	53.0	20.2	153,000	44.8	4.1	
180	6,000	10,194	44.0	2.8	225,000	65.9	20.1	190,200	55.7	4.2	
210	7,000	11,893	52.0	3.3	244,500	71.7	20.0	215,200	63.1	4.4	
240	8,000	13,592	60.0	3.8	276,500	81.0	20.2	242,600	71.1	4.3	
300	10,000	16,990	76.0	4.8	373,300	109.4	20.3	324,300	95.0	4.3	
360	12,000	16,990	90.0	4.8	423,800	109.4	20.2	364,000	95.0	4.3	
420	14,000	20,388	104.0	5.7	487,800	124.2	19.7	417,900	106.7	4.2	

- Notes:
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 3. PRRW cooling performance is based on 80.6°F (27.0°C) DB / 66.2°F (19.0°C) WB entering air temperature and 59.0°F (15.0°C) entering water temperature. PRRW heating performance is based on 68.0°F (20.0°C) DB / 59.0°F (15.0°C) WB entering air temperature and 50.0°F (10.0°C) entering water temperature.

PR-SERIES UNIT CONFIGURATION



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