



R Series 09-24 Water-to-Air Heat Pump



- Water-to-air heating & cooling for geothermal or building loop applications
- COP up to 4.2
- Quiet operation for installation near living spaces
- Small 19x19 footprint for vertical model
- Single speed rotary compressor
- 5-speed ECM fan motor
- Horizontal (RH Series) & heat recovery configurations available



R Series Commercial (Sizes 09-24)

Our R Series Commercial heat pump heats air for forced air heating and cools air for centralized air conditioning. Available in sizes from 0.75 tons to 2 tons, for commercial applications where multiple units are required and space is at a premium. Footprint is minimized by eliminating the desuperheater.

Features & Benefits

- ECM Fan** - 5-speed motor is standard for energy efficiency over PSC type.
- Footprint** - small 19" x 19" footprint, only 42" high.
- Service Access** - front side-only access for compact installations, blower is removable from inside unit.
- Safety Lockout Board** - with status light visible without removing any doors.
- Condensate Overflow Sensor** - standard on all units.
- Back-Up Plenum Heater** - onboard control for externally mounted electric backup plenum heater.
- Compressor** - dependable single-speed LG rotary compressor, with built-in accumulator.
- Low Noise** - double grommet compressor isolation for low noise.
- Heat Exchanger** - heavy duty coaxial heat exchanger.
- Air Coil** - Extra tubing wall thickness for durability.
- Price Point** - Aggressively priced for market competitiveness.



Vertical Configuration

Available Configurations

Our R Series Commercial heat pumps are available in vertical or horizontal configurations (RH Series - see website). They are also available as a heat recovery only unit using R134a refrigerant. Heat recovery units take heat from a hot mechanical room (minimum incoming temperature of 60°F) and heats water up to 160°F (71°C).



Horizontal Configuration

Performance Ratings

Standard Capacity Ratings for Open Loop (60Hz)

Rating Conditions	Model	Tons	Flow (GPM)	Outdoor dP (psi)	Heating Capacity (Btu/hr)	Input Energy (Watts)	COP _h (Heating)	Cooling Capacity (Btu/hr)	Input Energy (Watts)	COP _c (Cooling)	EER
Open Loop Heating EWT 50°F Cooling EWT 59°F	09	0.75	2.5	3.4	10,000	695	4.20	11,900	520	6.69	22.8
	12	1	3.0	3.2	13,500	945	4.18	13,600	600	6.64	22.7
	18	1.5	4.5	3.3	18,400	1,295	4.16	19,900	935	6.26	21.4
	24	2	8.0	4.4	25,500	1,507	4.20	23,600	931	5.75	19.6

Standard Capacity Ratings for Closed Loop (60Hz)

Rating Conditions	Model	Tons	Flow (GPM)	Outdoor dP (psi)	Heating Capacity (Btu/hr)	Input Energy (Watts)	COP _h (Heating)	Cooling Capacity (Btu/hr)	Input Energy (Watts)	COP _c (Cooling)	EER
Closed Loop Heating EWT 32°F (Stg 1 EWT 41°) Cooling EWT 77°F (Stag 1 EWT 68°F)	09	0.75	2.5	3.7	8,700	645	3.94	10,400	600	5.08	17.3
	12	1	3.0	3.5	11,800	920	3.75	12,800	740	5.07	17.3
	18	1.5	4.5	3.6	14,700	1,175	3.66	18,200	1,060	5.05	17.2
	24	2	8.0	4.7	19,900	1,365	3.55	21,700	1,165	4.42	15.1