

R Series 09-24

Water-to-Air Heat Pump



- Water-to-air heating & cooling for geothermal or building loop applications
- COPh up to 4.2
- Quiet operation for installation near occupied spaces
- Small 19x19 footprint for vertical model
- Single speed rotary compressor
- 5-speed ECM fan motor
- Horizontal & heat recovery configurations
- Designed and built in Canada
- R-454b low Global Warming Potential refrigerant
- Sizes from 0.75-2 ton (up to 24,000 Btu/hr)



R Series Commercial

Features & Benefits

Size - Sizes from 09 (0.75 tons) through 24 (2 tons).

Horizontal and vertical configurations - Suitable for any application

Heat Recovery Option - Using R513a refrigerant, takes warm room air (60°F) and heats water up to 160°F (71°C).

Small Refrigerant Volume - Less than 4lbs of R454b (an **A2L** refrigerant) eliminates need for leak detector.

ECM Fan - 5-speed motor is standard for energy efficiency over PSC type.

Service Access - Front side-only access for compact installations. Blower is removable via front access.

Safety Lockout Board - With status light visible without removing any doors.

Condensate Overflow Sensor - Standard on all units.

Back-Up Plenum Heater - 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.



Performance Ratings

Standard Capacity Ratings for Open Loop (60Hz)

Rating Conditions	Model	Tons	Flow (GPM)	Heating Capacity (Btu/hr)	Input Energy (Watts)	COP _h (Heating)	Cooling Capacity (Btu/hr)	Input Energy (Watts)	COP _c (Cooling)	EER
Open Loop Heating ELT 50°F Cooling ELT 59°F	09	0.75	2.5	9,900	673	4.31	10,100	457	6.48	22.1
	12	1	3.0	12,000	817	4.30	12,300	559	6.45	22.00
	18	1.5	4.5	18,200	1,242	4.29	18,900	871	6.36	21.7
	24	2	8.0	25,200	1,704	4.33	25,900	1,199	6.33	21.6

Standard Capacity Ratings for Closed Loop (60Hz)

Rating Conditions	Model	Tons	Flow (GPM)	Heating Capacity (Btu/hr)	Input Energy (Watts)	COP _h (Heating)	Cooling Capacity (Btu/hr)	Input Energy (Watts)	COP _c (Cooling)	EER
Closed Loop Heating ELT 32°F Cooling ELT 77°F	09	0.75	2.5	8,000	628	3.73	9,600	558	5.04	17.2
	12	1	3.0	9,700	771	3.69	11,800	686	5.04	17.2
	18	1.5	4.5	13,900	1,128	3.61	17,500	1,023	5.01	17.1
	24	2	8.0	18,800	1,561	3.53	24,200	1,423	4.99	17.0



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