



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 living spaces
- Small 19x19 footprint for vertical model
- Single speed rotary compressor
- 5-speed ECM fan motor
- Horizontal & heat recovery configurations available



R Series Commercial

Our R Series Commercial heat pump heats and cools air through a ducted air system. Available in sizes from 0.75 to 2 tons, for commercial applications where multiple units are required or residential applications where space is at a premium.

Features & Benefits

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

Size - R is a 19" x 19" footprint and 42" high, RH is a 21" x 21" footprint and 48" long

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.

Certification



Vertical Configuration

Available Configurations

Our R Series Commercial heat pumps are available in vertical or horizontal configurations (RH Series). 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 ELT 50°F Cooling ELT 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 ELT 32°F Cooling ELT 77°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 |