





- · Geothermal forced air heating & cooling
- Desuperheater for domestic hot water
- COPh up to 4.8
- Compact 28x29 footprint

- Available in sizes 3 to 6 nominal tons for whole home applications
- CuNi heat exchanger available
- · Open water well or closed loop



RS Series

The split water-to-air series (with remote indoor air handler) can heat or chill air in a forced air duct system. Being a split system it provides the ability to locate the compressor unit and air handler in different locations. It also uses its built-in desuperheater to preheat domestic hot water. This unit is available in sizes from 3 to 6 nominal tons, and works on an open water well or closed ground loop.

Features & Benefits

Size - A 28" x 29" footprint for the RS-45 to 80. The AHH/AHV have vertical and horizontal dimensions of approximately 24" x 24".

AHH/AHV Fan - Motor is a constant airflow variable speed ECM

Compressor - Copeland high efficiency two-stage scroll, with double isolation for quiet operation.

Hard Start Kit - Standard on all single phase units.

TXV (Thermostatic Expansion Valve) - Maintains refrigerant amount injected into the evaporator based on superheat

Filter-Dryer & Sight Glass - Standard on all units.

Accumulator - Protects compressor against liquid slugging.

Coaxial Heat Exchanger - Enhanced surface and heavy duty for efficiency and reliability (CuNi available).

Domestic Hot Water - Double wall heat exchanger and bronze head ECM circulator factory installed.

Electronic Control Board - With safety and short cycle protection.

Cabinet - Satin galvanized with powder coat finish. Acoustically insulated for quiet operation.

Doors - 4 panels can be removed for maximum service access.

Loop or Well - Unit pre-wired for operation on a closed loop or a water well.





AHH (Horizontal)

Performance Ratings

Standard Capacity Ratings for Open Loop (60Hz)												
Rating Conditions	Model	Tons	Flow (GPM)	Outdoor dP (psi)	Mode	Heating Capacity (Btu/hr)	Input Energy (Watts)	COPh (Heating)	Cooling Capacity (Btu/hr)	Input Energy (Watts)	COPc (Cooling)	EER
	45	3	10.0	4.0	Stage 1 Stage 2	25,500 35,700	1,625 2,375	4.5 4.3	29,500 38,500	1,080 1,805	8.0 6.3	27.3 21.3
Open Loop Heating EWT 50'F Cooling EWT 59'F	55	4	12.0	3.5	Stage 1 Stage 2	34,500 47,200	2,075 2,960	4.8 4.6	37,300 50,200	1,315 2,245	8.4 6.6	28.5 22.5
	65	5	14.0	4.3	Stage 1 Stage 2	42,800 58,700	2,670 3,740	4.6 4.5	47,200 62,600	1,705 2,865	8.0 6.3	27.1 21.5
	75	6	16.0	3.6	Stage 1 Stage 2	52,000 68,500	3,540 4,780	4.3 4.2	54,300 69,800	2,305 3,710	7.2 5.7	24.4 19.4
	80	6	17.0	4.1	Stage 1 Stage 2	77,500	5,315	4.1	86,500	4,130	5.8	19.6
		5	Standa	ard Cap	acity F	Ratings f	or Close	ed Loop	(6oHz)			
Closed Loop	45	3	10.0	4.4	Stage 1 Stage 2	22,000 27,200	1,535 2,155	4.3 3.6	26,800 35,100	1,130 2,155	7.0 4.8	23.7 16.3
	55	4	12.0	4.1	Stage 1 Stage 2	29,100 35,600	2,045 2,700	4.2 3.8	35,800 45,400	1,470 2,640	7.2 5.1	24.5 17.3
Heating EWT 32°F (Stg 1 EWT 41°F)	65	5	14.0	5.3	Stage 1 Stage 2	35,900 44,000	2,565 3,390	4.0 3.7	45,500 57,600	1,910 3,445	6.6 4.9	22.6 16.8
Cooling EWT 77°F (Stg 1 EWT 68°F)	75	6	16.0	4.1	Stage 1 Stage 2	45,100 53,200	3,435 4,355	3.9 3.6	52,700 66,400	2,620 4,300	6.2 4.6	21.0 15.7
	80	6	17.0	4.5	Stage 1 Stage 2	63,000	4,940	3.5	81,500	4,950	4.5	15.4