

Energy Module Series



Everything needed for a hydronic heating & cooling application, all in one machine.



Certifications



Product Features

R410a - Environmentally friendly refrigerant, will not cause depletion of our ozone layer.

Compressor - Copeland UltraTech® high efficiency two-stage scroll.

Hard Start Kit - Standard on all single phase models.

Relays - Oversized commercial quality - 2 million cycle rating.

CuproNickel - Available on the ground loop side.

TXV - Expansion valve system maintains maximum capacity under all operating conditions.

Filter Drier - Standard on all units.

Sight Glass - Standard on all units.

Accumulator - Protects compressor against liquid slugging.

Turbotec® - Enhanced surface coaxial style heat ex-

changers (CuproNickel available).

50 Gal. Hot Water Distribution Tank - Foam Insulated.

Expansion Tank - Standard equipment.

In-Floor circulator Pump - standard equipment.

12Kw Back-Up Heat - standard.

Desuperheater - For domestic hot water. Bronze head circulator factory installed.

Service Ports - High and low service ports for quick connection to a manifold gauge set.

Electronic Lock Out Board - With short cycle timer protection.

Cabinet - Satin galvanized with powder coat finish.

Doors - For servicing, all 6 side panels can be removed.

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

Thermostat - Internal Ranco® 2-stage digital aquastat.

Performance Specifications

Rating Conditions	Model	Flow (US-GPM)	Outdoor PD (Psig)	Mode	Input Energy (Watts)	Heating Capacity (Btu/hr)	COPh (Heating)	Input Energy (Watts)	Cooling Capacity (Btu/hr)	COPc (Cooling)	EER	DHW Heating (Btu/hr)	
Open Loop Heating EWT 50°F Cooling EWT 59°F	EMW-45	9.6	3.7	Stage 1	1,815	23,500	3.78	1,000	25,300	7.39	25.22	940	
				Stage 2	2,560	35,300	4.04	1,700	35,100	6.05	20.64	1,765	
	EMW-55	12.0	3.9	Stage 1	2,615	34,300	3.84	1,480	35,300	6.97	23.78	1,372	
				Stage 2	3,660	47,400	3.79	2,365	47,900	5.93	20.23	2,370	
	EMW-65	14.4	4.9	Stage 1	3,390	42,900	3.71	1,800	42,900	7.00	23.89	1,716	
				Stage 2	4,545	58,800	3.79	2,785	57,200	6.02	20.54	2,940	
	EMW-75	16.8	5.0	Stage 1	3,860	52,200	3.96	2,350	51,300	6.40	21.84	2,088	
				Stage 2	4,860	66,300	4.00	3,335	64,900	5.70	19.54	3,315	
	EMW-80	16.8	4.6	Stage 1	-	-	-	-	-	-	-	-	-
				Stage 2	4,765	78,200	4.07	3,545	73,800	6.10	20.81	3,910	
Closed Loop Heating EWT 32°F PL EWT 41°F Cooling EWT 77°F PL EWT 68°F	EMW-45	9.6	4.3	Stage 1	1,865	20,000	3.15	1,145	23,900	6.12	20.88	800	
				Stage 2	2,580	27,000	3.07	2,025	32,100	4.64	15.83	1,350	
	EMW-55	12.0	4.5	Stage 1	3,685	30,200	3.29	1,720	34,000	5.79	19.76	1,208	
				Stage 2	3,560	36,500	3.00	2,860	42,300	4.33	14.77	1,825	
	EMW-65	14.4	5.6	Stage 1	3,370	37,600	3.27	2,055	41,300	5.89	20.10	1,504	
				Stage 2	4,380	45,800	3.07	3,345	51,500	4.51	15.39	2,290	
	EMW-75	16.8	5.7	Stage 1	3,905	46,600	3.42	2,605	48,200	5.42	18.49	1,864	
				Stage 2	4,740	51,400	3.18	3,895	57,900	4.36	14.98	2,570	
	EMW-85	16.8	5.5	Stage 1	-	-	-	-	-	-	-	-	-
				Stage 2	5,525	59,400	3.15	4,305	67,100	4.57	15.97	2,970	

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