



Performance Heating, LLC - Data Sheet

OMV Series - Vertical

Thermal Fluid Heater (Coil Type)

Heater Features		200	300	400	600	800	1000	1250	1500	2000	2500	3000	4000	5000
Thermal Capacity	BTU/hr	800,000	1,200,000	1,600,000	2,400,000	3,200,000	4,000,000	5,000,000	6,000,000	8,000,000	10,000,000	12,000,000	16,000,000	20,000,000
Efficiency (100%Load)	%	86	86	86	86	87	87	87	87	87	87	87	87	87
Efficiency (75% Load)	%	87	87	87	87	88	88	88	88	88	88	88	88	88
Temp. Differential	Δ°F	54	54	54	54	54	59.4	72	72	72	72	72	72	90
Pressure Drop	psi	14.5	14.5	8.7	18.9	16.0	20.3	10.2	16.0	11.6	21.8	21.8	29.0	29.0
Flow Rate	gpm	88	88	110	176	264	264	286	330	462	550	660	902	902
L Length	in	49	55	64	64	74	74	80	80	83	95	97	106	106
A Width	in	47	51	54	54	63	63	70	70	77	84	92	105	105
H Height	in	81	82	96	100	132	132	135	142	157	171	181	211	241
H1 Oil Inlet/Outlet (CL)	in			50	50	78	78	80	80	88	92	101	127	158
H2 Oil Inlet (Elevation)	in			11	11	12	12	10	10	10	14	14	14	14
D Exhaust Diameter	in	12	12	12	12	16	16	16	16	16	19	19	21	24
Oil Inlet/Outlet Flange	in	2	3	3	3	4	4	5	5	5	6	6	6	8
Oil Content	gal	20	25	44	44	110	110	177	177	283	286	404	515	785
Weight (Empty)	lb	2420	3080	3520	3520	6160	6160	9460	9460	9900	13860	16720	27720	32120

Design Notes:

- (A) All flange connections are ANSI 300#
- (B) Standard design pressure is 145 psi
- (C) A standard burner has been used for dimensioning purposes
- (D) Multiple burner fuel options are available
- (E) Vertical orientations are available
- (F) Higher efficiency options are available (Model OMV-PA)

Additional Options:

- (A) Circulation pumps for thermal fluid heater
- (B) Motor control panel(s) for circulation pump and burner
- (C) Expansion tank(s) with or without tank tower
- (D) Inert gas blankets for the expansion tank
- (E) Drain tank(s) for above ground installation
- (F) Gear pump for system filling or draining
- (G) Skid assembly of heater and/or ancillary components
- (H) Complete packaged systems are available for easy installation
- (I) Containerized equipment is available
- (J) PLC for enhanced DCS communication

