



Performance Heating, LLC - Data Sheet

OMV Series - Horizontal

Thermal Fluid Heater (Coil Type)

Heater Features		200	300	400	600	800	1000	1250	1500	2000	2500	3000	4000	5000
Thermal Capacity	kCal/hr	200,000	300,000	400,000	600,000	800,000	1,000,000	1,250,000	1,500,000	2,000,000	2,500,000	3,000,000	4,000,000	5,000,000
	kW	234	352	469	703	938	1,172	1,465	1,758	2,345	2,931	3,517	4,689	5,861
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°C	30	30	30	30	30	33	40	40	40	40	40	40	50
Pressure Drop	bar	1	1	0.6	1.3	1.1	1.4	0.7	1.1	0.8	1.5	1.5	2.0	2.0
Flow Rate	m ³ /hr	20	20	25	40	60	60	65	75	105	125	150	205	205
L Length	mm	2050	2090	2450	2550	3350	3350	3420	3420	4000	4350	4600	5360	6120
A Width	mm	1200	1300	1700	1700	1900	1900	2150	2150	2350	2490	2750	3000	3000
H Height	mm	1250	1400	1390	1390	1680	1680	1810	1810	1960	2330	2380	3000	3000
H1 Oil Inlet/Outlet (CL)	mm			1275	1275	1993	1993	2023	2023	2225	2340	2570	3220	4020
H2 Oil Inlet (Elevation)	mm			278	278	310	310	244	244	244	350	350	352.5	355
H3 Oil Inlet/Outlet (CL)	mm			705	705	850	850	900	900	1000	1150	1200	2395	2395
D Exhaust Diameter	mm	314	314	314	314	400	400	400	400	400	470	470	535	600
Oil Inlet/Outlet Flange	mm	50	65	80	80	100	100	125	125	125	150	150	150	200
Oil Content	L	75	96	165	165	418	418	670	670	1070	1083	1530	1950	2970
Weight (Empty)	kg	1100	1400	1600	1600	2800	2800	4300	4300	4500	6300	7600	12600	14600

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 our 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

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