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## Midland Combustion Steam Line Heaters

**Midcom** Steam Line Heaters are multi U loop design and proven in service for the last 50 years. They can use steam, thermal oil, high pressure water as the heating medium and are designed to reduce the viscosity of the heated oils to aid regulation and control.

High viscosity crude oils as well as coal tar, bitumen, BIO fuels, Mineral oils, Water and a host of process fluids can be heated to specific temperatures and controlled precisely either by the more common direct acting temperature control or the more accurate system of electronic or pneumatic controllers.

They are extensively used in large and small heating applications such as Diesel Engine Installations, combustion systems, Furnace applications and all styles of heavy fuel oil ring main/boiler systems where accurate temperature control is needed.

With subtle design changes the heaters can be used for the heating of animal fats, BIO fuels, waste oils and for heating process water. The design is flexible that can be adapted to all applications.

All heaters are compliant with European Legislation covering CE marking/PED approved with the basic design complying with PD5500 and/or ASME.

The first design pressure range is 11.67 barg but heaters as high as 70 bar are designed and supplied for specific process conditions.

The standard materials of construction are carbon steel and stainless steel, depending on the medium being heated.

All heaters in the **Midcom** range have been supplied for **Marine** applications requiring rigorous inspections for the like of Lloyds Register of Shipping, Zurich, ABS etc.

Products are hydraulic and electrical tested before they leave the factory.

### Midland Combustion Limited

Station Works, Four Ashes, Wolverhampton WV10 7BX, UK

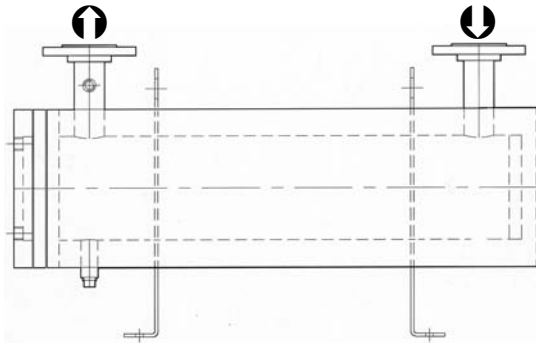
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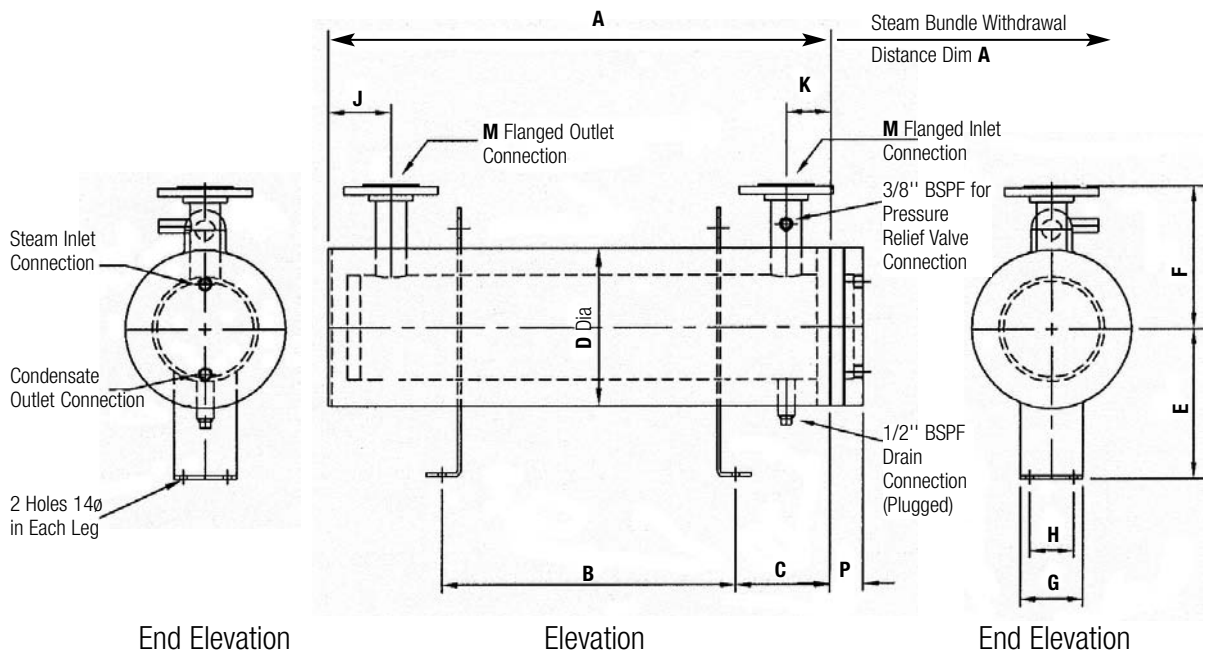
Midcom Code	Based on 7 barg steam. Maximum Heating Throughput Raising Heavy Fuel Oil through 45°C	Heating Surface
	(kg/hr)	Sq Mtrs
SL 3 - 24	248	0.26
SL 3 - 30	309	0.33
SL 3 - 42	433	0.46
SL 3 - 48	495	0.52
SL 3 - 60	619	0.65
SL 4 - 42	946	0.99
SL 4 - 48	1079	1.13
SL 4 - 60	1344	1.41
SL 4 - 72	1609	1.69
SL 4 - 84	1874	1.97
SL 4 - 96	2139	2.25
SL 6 - 42	1945	2.04
SL 6 - 48	2210	2.32
SL 6 - 60	2829	2.97
SL 6 - 72	3359	3.53
SL 6 - 84	3890	4.09
SL 6 - 96	4420	4.65
SL 8 - 48	4420	4.65
SL 8 - 60	5569	5.85
SL 8 - 72	6719	7.06
SL 8 - 84	7868	8.27
SL 8 - 96	8990	9.45

Midcom Code	Based on 7 barg steam. Maximum Heating Throughput Raising Heavy Fuel Oil through 45°C	Heating Surface
	(kg/hr)	Sq Mtrs
SL 10 - 48	7249	7.62
SL 10 - 60	9017	9.48
SL 10 - 72	10785	11.33
SL 10 - 84	12641	13.29
SL 10 - 96	14410	15.14
SL 12 - 48	10697	11.24
SL 12 - 60	13349	14.03
SL 12 - 72	16001	16.82
SL 12 - 84	18741	19.70
SL 12 - 96	21305	22.39
SL 12 - 108	24045	25.27
SL 12 - 120	26786	28.15
SL 14 - 60	14940	15.70
SL 14 - 72	17946	18.86
SL 14 - 84	20951	22.02
SL 14 - 96	23869	25.08
SL 14 - 108	26786	28.15
SL 14 - 120	29703	31.22



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# Midland Combustion Steam Line Heater Dimensions



**Note:** Standard heater flanged terminal connections can be supplied with either ANSI B16.5 CL.150# or BS EN 1092:1 2001 PN16 Customer to specify when ordering Steam & Condensate sizes will vary, customer to confirm Steam Pressure.

Midcom Code	mm D	mm E	mm F	mm G	mm H	mm Min J	mm Min K	NB M	mm P			
SL 3	144	200	170	80	50	95	65	40	48			
SL 4	204	200	180	100	70	95	65	40	48			
SL 6	259	240	230	100	70	100	70	40	53			
SL 8	324	280	255	150	110	100	70	40	53			
SL 10	384	325	300	200	150	110	80	50	58			
SL 12	424	350	330	250	200	110	80	50	58			
SL 14	474	385	360	300	250	120	90	50	67			
Length	ins	ins	ins	ins	ins	ins	ins	ins	ins	ins	ins	ins
	18	24	30	36	42	48	60	72	84	96	108	120
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
A	500	650	805	955	1110	1260	1565	1870	2175	2480	2785	3090
B	200	320	475	465	620	770	935	1240	1385	1690	1855	2160
C	135	150	150	230	230	230	300	300	380	380	450	450