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Midland Combustion Combined Steam/Electric Line Heaters

Midcom Combined Steam/Electric Line Heaters (**SEL**) are multi U loop design incorporating electric elements where the primary heating system is not available for start up conditions. The electric facility provides a flow of oil for the start up operation. Once running the primary heating source can take over the heating operations. They have been proven in service for the last 50 years.

They can use steam, hot water or thermal oil as the heating medium and are designed to reduce the viscosity of the heated oils to aid regulation and control.

The electric start up facility is provided with adjustable temperature control thermostat and over temperature – cut out – thermostat fitted into pockets and located within a weather tight enclosure.

High viscosity crude oils as well as coal tar, bitumen, mineral oils, BIO fuels, 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 systems of electronic or pneumatic controllers.

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

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 barg are designed and supplied for specific process conditions.

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

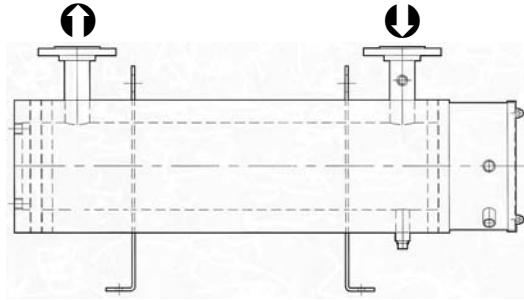
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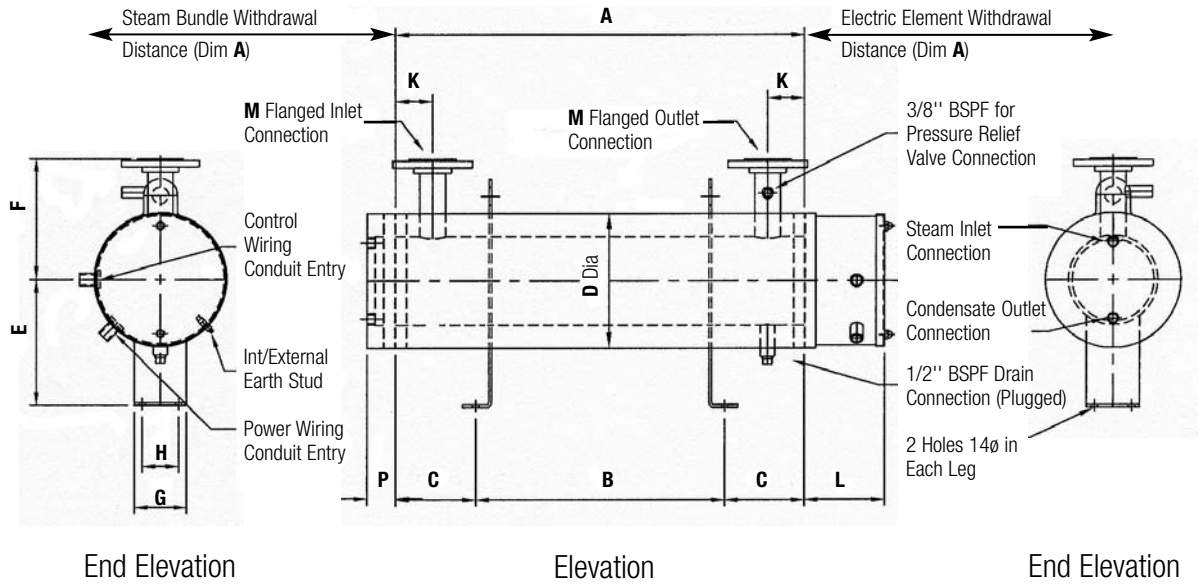


Midcom Code	Basing on 7 barg steam. Maximum Heating Throughput Raising Heavy Fuel Oil through 45°C kg/hr	Heating Surface	Standard Load
		M ²	kW
SEL 3 - 24	150	0.16	2.25
SEL 3 - 30	177	0.19	3.0
SEL 3 - 42	265	0.28	4.5
SEL 3 - 48	301	0.32	4.5
SEL 3 - 60	371	0.39	6.0
SEL 4 - 24/3	354	0.37	2.25
SEL 4 - 30/3	442	0.46	3.0
SEL 4 - 42/3	619	0.65	4.5
SEL 4 - 48/3	707	0.74	4.5
SEL 4 - 60/3	884	0.93	6.0
SEL 4 - 72/3	1061	1.11	6.0
SEL 6 - 42	1238	1.30	13.5
SEL 6 - 48	1414	1.49	13.5
SEL 6 - 60	1768	1.86	13.5
SEL 6 - 72	2122	2.23	18.0
SEL 8 - 42	2475	2.60	18.0
SEL 8 - 48	2917	3.07	18.0
SEL 8 - 60	3624	3.81	18.0
SEL 8 - 72	4332	4.55	24.0
SEL 10 - 48	5658	5.95	18.0
SEL 10 - 60	7072	7.43	18.0
SEL 10 - 72	8487	8.92	24.0
SEL 12 - 48	8663	9.10	22.5
SEL 12 - 60	10785	11.33	22.5
SEL 12 - 72	12907	13.56	30.0



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Midland Combustion Steam/ Electric 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 K	mm L	NB M	mm P
SEL 3	144	200	170	80	50	65	146	40	48
SEL 4	204	200	180	100	70	65	146	40	48
SEL 6	259	240	230	100	70	70	151	40	53
SEL 8	324	280	255	150	110	70	151	40	53
SEL 10	384	325	300	200	150	80	156	50	58
SEL 12	424	350	330	250	200	80	156	50	58
	ins	ins	ins	ins	ins	ins	ins		
Length	24	30	36	42	48	60	72		
	mm	mm	mm	mm	mm	mm	mm		
A	620	775	925	1080	1230	1535	1840		
B	320	475	465	620	770	935	1240		
C	150	150	230	230	230	300	300		