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Midland Combustion Electric Line Heaters

Midcom Electric Line Heaters are available to work with even the most difficult oils and process fluids when there is no other heating medium available.

High viscosity crude oils as well as coal tar, bitumen, mineral oils, water and a host of process fluids can be heated to specific temperatures and controlled precisely either by traditional thermostat or the more up to date method of solid state electronic control offering more accurate temperature control and power saving.

Long life low watts density removable ceramic core elements are designed for optimum trouble free service and ease of maintenance.

All **Midcom** Horizontal Line Heaters from **ELW** range are fitted with adjustable temperature control thermostat and over temperature – cut out – thermostat. Depending on how the heating load is arranged multiple heating banks with multiple thermostats are designed for efficient heater control fitted into pockets and located within a weather tight enclosure.

They are extensively used in small and large heating applications such as Diesel Engine Installations, light oil systems where there is a need to prevent waxing at low temperatures, combustion systems, furnace applications, all styles of heavy fuel oil ring main/power boiler systems where accurate temperature control is needed.

With subtle design changes the heaters can be used for the heating of BIO Fuels, Animal fats, Waste oils and for heating process water.

All heaters are compliant with European Legislation covering CE markings/PED approval 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.

One advantage of the **Midcom** Electric Line Heater is that a failed electric element can be replaced without the need to isolate and drain the heater.

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.

Electric Heaters as large as **2000kW** have been supplied and packaged with Electric Control Gear by **Midcom**.

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

Midland Combustion Limited

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

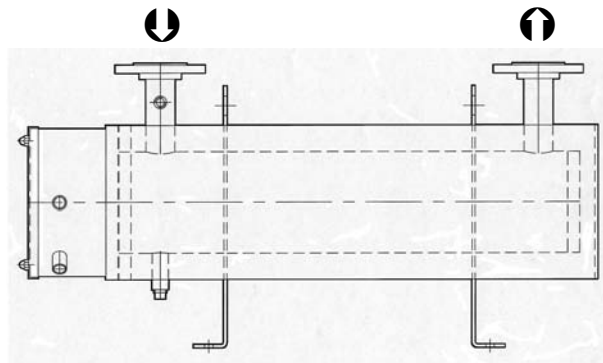
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Midland Combustion Electric Line Heaters



Midcom Code	Load for Heavy Fuel Oils	Rating for Lubricating Oils	Rating for Waste Oils	Maximum Heating Capacity for HFO. Through 45°C
	kW	kW	kW	kg / hr
ELW 4 - 18	2.7	2.7	1.35	107
ELW 4 - 24	3.6	3.6	1.8	143
ELW 4 - 30	4.5	4.5	2.25	178
ELW 4 - 36	5.4	5.4	2.7	214
ELW 4 - 42	6.3	6.3	3.15	250
ELW 4 - 48	7.2	7.2	3.6	285
ELW 4 - 60	9.0	9.0	4.5	356
ELW 4 - 72	10.8	10.8	5.4	428
ELW 4 - 84	12.6	12.6	6.3	499
ELW 4 - 96	14.4	14.4	7.2	570
ELW 6 - 24	10.8	8.1	5.4	745
ELW 6 - 30	13.5	10.125	6.75	535
ELW 6 - 42	18.9	14.175	9.45	749
ELW 6 - 48	21.6	16.2	10.8	855
ELW 6 - 60	27.0	20.25	13.5	1069
ELW 6 - 72	32.4	24.3	16.2	1283
ELW 6 - 84	37.8	28.35	18.9	1497
ELW 6 - 96	43.2	32.4	21.6	1711
ELW 8 - 30	22.5	16.88	11.25	891
ELW 8 - 36	27.0	20.25	13.5	1069
ELW 8 - 42	31.5	23.63	15.75	1248
ELW 8 - 48	36.0	27.0	18.0	1426
ELW 8 - 60	45.0	33.75	22.5	1782
ELW 8 - 72	54.0	40.5	27.0	2139
ELW 8 - 84	63.0	47.25	31.5	2495
ELW 8 - 96	72.0	54.0	36.0	2851



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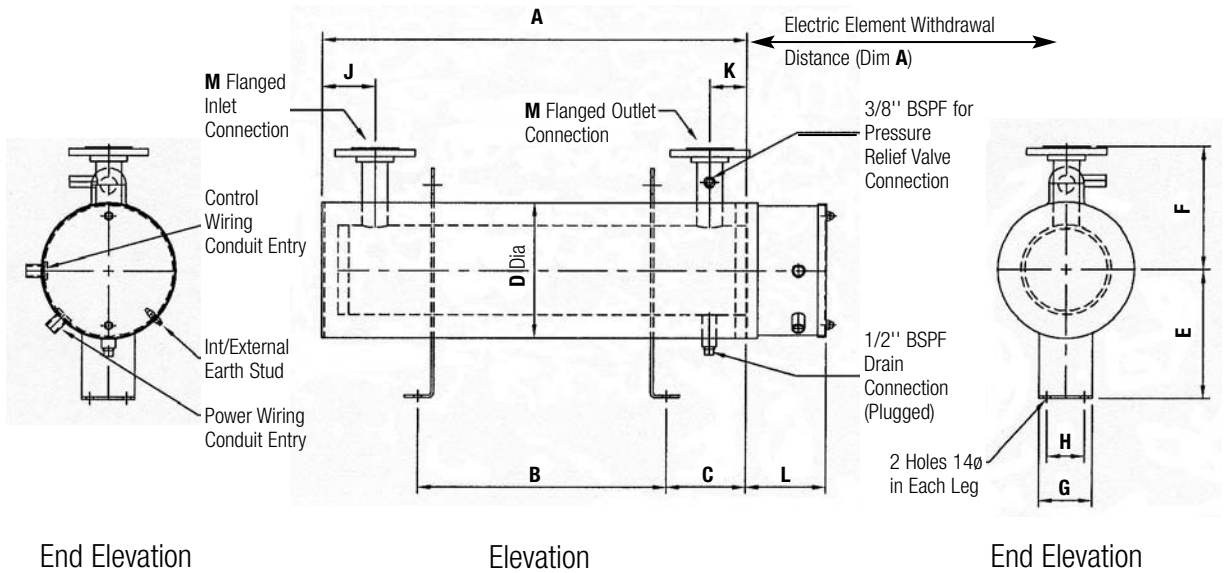
Midland Combustion Electric Line Heaters

Midcom Code	Load for Heavy Fuel Oils	Rating for Lubricating Oils	Rating for Waste Oils	Maximum Heating Capacity for HFO. Through 45°C
	kW	kW	kW	kg / hr
ELW 10 - 36	48.6	36.45	24.3	1925
ELW 10 - 42	56.7	42.525	28.35	2246
ELW 10 - 48	64.8	48.6	32.4	2566
ELW 10 - 60	81.0	60.75	40.5	3208
ELW 10 - 72	97.2	72.9	48.6	3850
ELW 10 - 84	113.4	85.05	56.7	4491
ELW 10 - 96	129.6	97.2	64.8	5133
ELW 12 - 42	75.6	65.7	37.8	2994
ELW 12 - 48	86.4	64.8	43.2	3422
ELW 12 - 54	97.2	72.9	48.6	3850
ELW 12 - 60	108.0	81.0	54.0	4277
ELW 12 - 72	129.6	97.2	64.8	5133
ELW 12 - 84	151.2	113.4	75.6	5988
ELW 12 - 96	172.8	129.6	86.4	6844
ELW 14 - 72	162.0	121.5	81.0	6416
ELW 14 - 84	189.0	141.75	94.5	7485
ELW 14 - 96	216.0	162.0	108.0	8554
ELW 16 - 72	194.4	145.8	97.2	7699
ELW 16 - 84	226.8	170.1	113.4	8982
ELW 16 - 96	259.2	194.4	129.6	10265
ELW 18 - 84	264.6	198.45	132.3	10479
ELW 18 - 96	302.4	226.8	151.2	11976
ELW 24 - 84	378.0	283.5	189.0	14970
ELW 24 - 96	432.0	324.0	216.0	17109
ELW 30 - 84	567.0	425.25	283.5	22455
ELW 30 - 96	648.0	486.0	324.0	25663



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Midland Combustion Electric Line Heater Dimensions



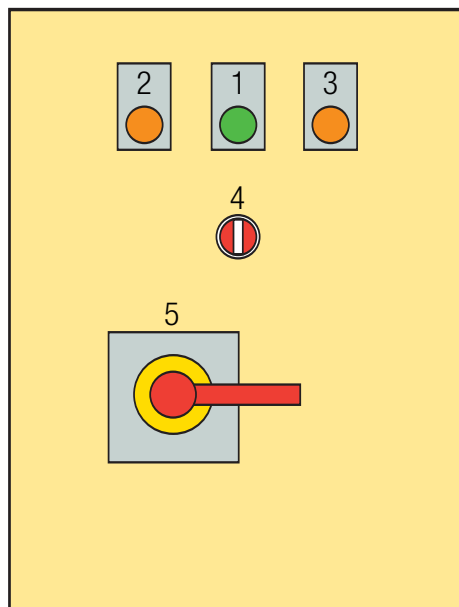
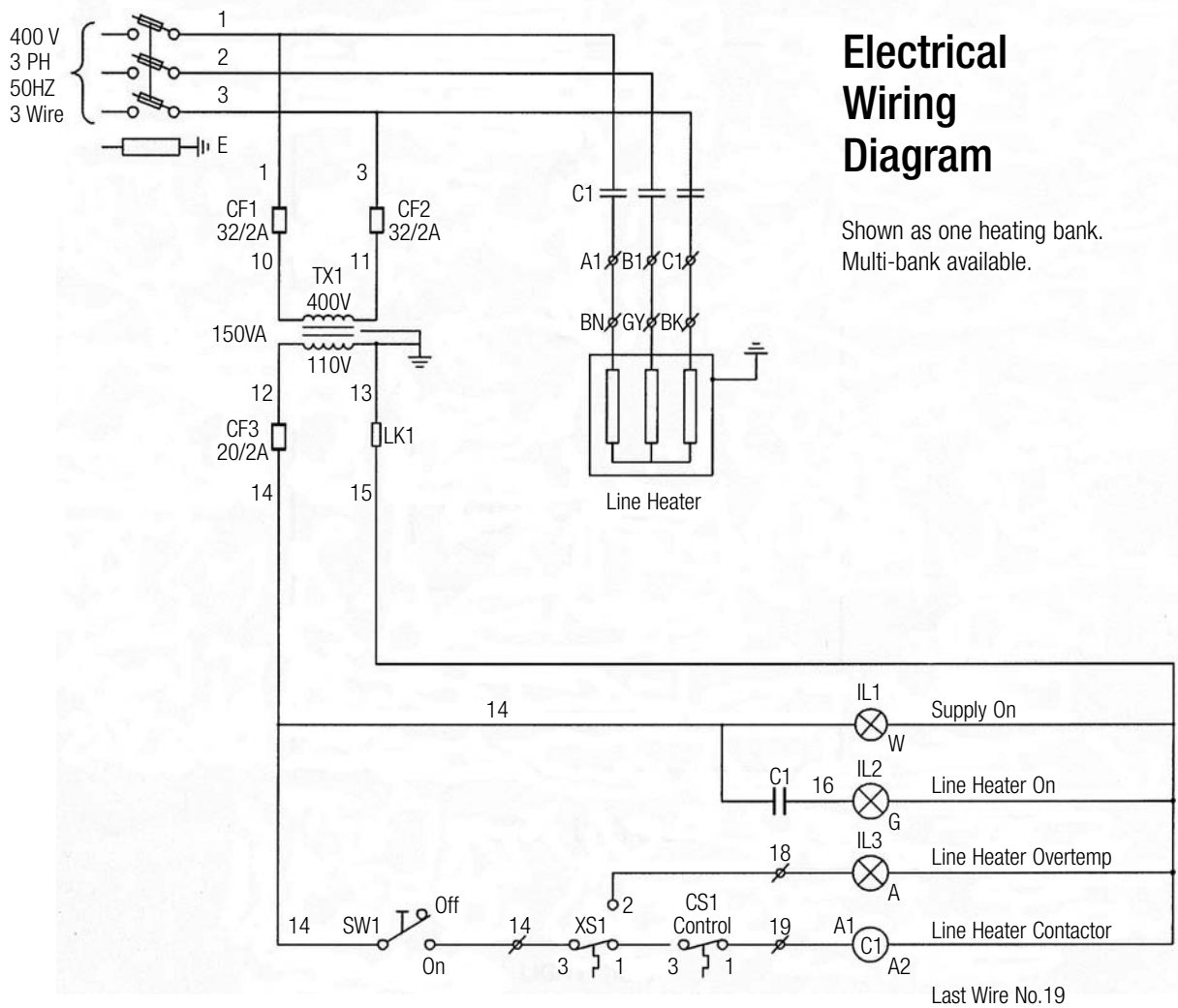
Note: Standard heater flanged terminal connections can be supplied with either ANSI B16.5 CL.150# or BS EN 1092:1 2001 PN16 Customer to specify when ordering.

Midcom Code	mm D	mm E	mm F	mm G	mm H	mm Min J	mm Min K	mm L	NB M	
ELW 4	204	200	180	100	70	95	65	147	40	
ELW 6	259	240	230	100	70	100	70	151	40	
ELW 8	324	280	255	150	110	100	70	151	40	
ELW 10	384	325	300	200	150	110	80	156	50	
ELW 12	424	350	330	250	200	110	80	156	50	
ELW 14	474	385	360	300	250	120	90	250	50	
ELW 16	Dimensions available on request for these Line Heaters									
ELW 18										
ELW 24										
ELW 30										
Length	18	24	30	36	42	48	60	72	84	96
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
A	500	650	805	955	1110	1260	1565	1870	2175	2480
B	200	320	475	465	620	770	935	1240	1385	1690
C	135	150	150	230	230	230	300	300	380	380



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Midland Combustion Electric Line Heater



Door Layout for Electric Line Heater IP65 Control Panel

1. Supply On Light (IL1)
2. Line Heater On Light (IL2)
3. Line Heater Overtemp Light (IL3)
4. Line Heater Off/On Selector Switch
5. Fuse Switch Handle