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# Midland Combustion Pumping, Heating & Filtering Units

**Midcom** Duplex/Simplex Pumping and Heating Units have been designed and supplied to a World Wide customer base for over 50 years. The unit, as suggested, combines the method of heating, pumping and filtration together with oil temperature regulation and oil pressure control. Designed for use with any grade of residual oil to supply the correct pressure and temperature to give optimum conditions at the boiler/furnace front for efficient operation.

Normally the P&H Units incorporate at least one heater with electric start up capability for when the primary heating medium is not available during start up conditions.

The electric facility is designed to provide a flow of oil for the start up operation. Once running the primary heating source can take over the heating operations.

The systems have been proven in service for many years.



The heaters themselves 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 and provide the oil at the correct temperature and viscosity at the point of use.

High viscosity crude oils as well as coal tar, bitumen, mineral oils 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 temperature sensitive pneumatic style.

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.

<b>Fuel Oils</b>	<b>Viscosity @ 50°C cSt</b>	<b>Minimum Pumping Temperature °C</b>	<b>Minimum Temperature @ Burner Rotary Cup</b>	<b>Viscosity cSt</b>	<b>Minimum Temperature @ Burner Pressure Jet °C</b>	<b>Viscosity cSt</b>
Class F	110	30	75°C	55	n/a	
Class G	380	50	89°C	55	130	15
Class H	600	55	95°C	55	140	15

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

Products are run tested in the test cell before they leave the factory.

## Midland Combustion Limited

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

Tel: +44 (0)1902 790541 – Fax: +44 (0) 791526

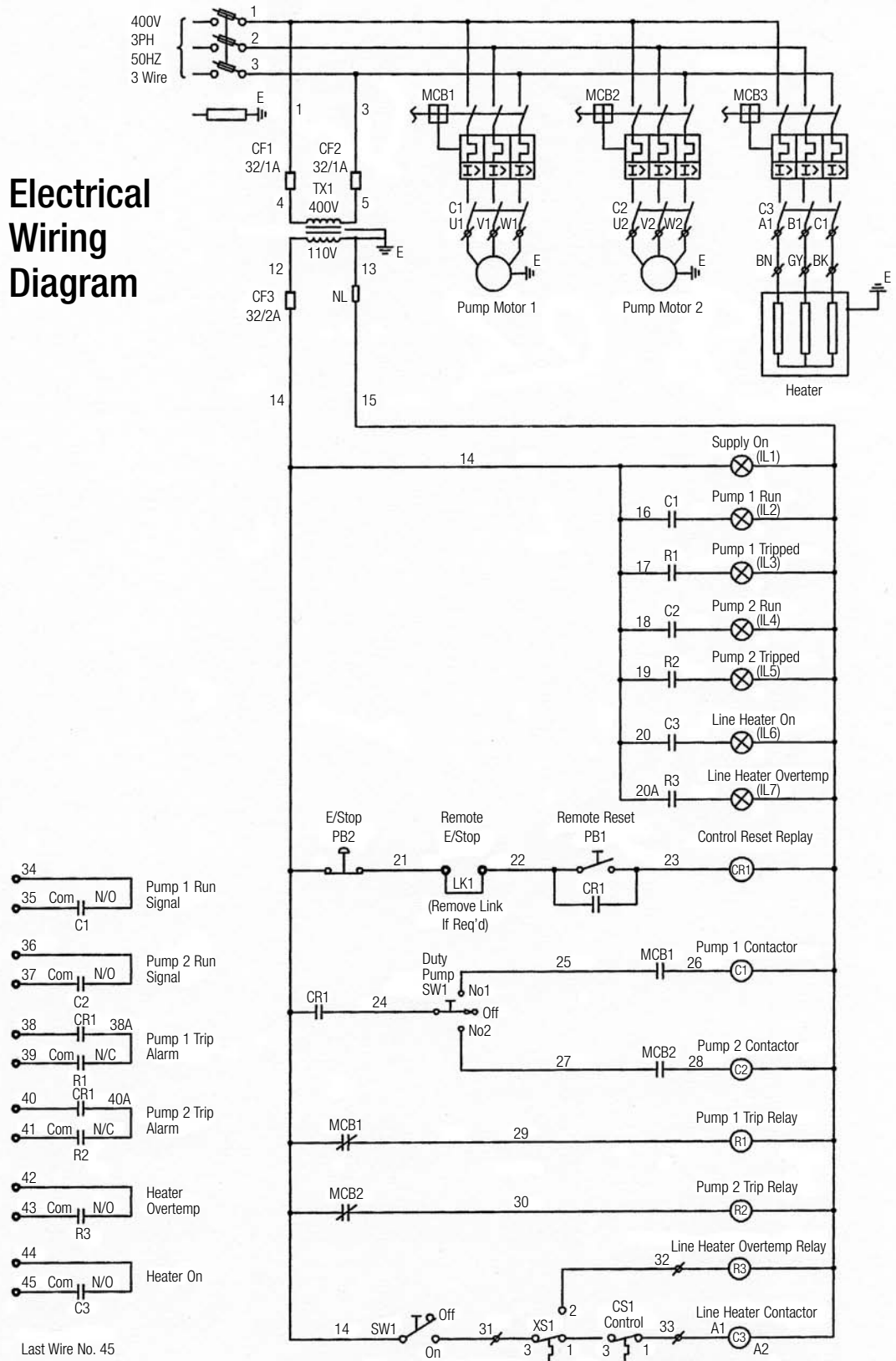
e.mail: sales@mid-com.co.uk - www.mid-com.co.uk



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# Midland Combustion Pumping, Heating & Filtering Units

## Electrical Wiring Diagram



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