

# 500kW Packaged Boiler



## Operating Instructions & Safety Guide



0800 211 611  
andrews-sykes.com

### General Safety

- This equipment should only be used by a competent person who has read and understood these instructions.
- Check condition of equipment before use. If unit is showing any signs of damage contact your supplier immediately.
- Never operate this equipment if you are ill, feeling tired or under the influence of alcohol or drugs.
- Keep all vents and grills clear of obstructions.
- Keep children and animals away from electric powered equipment. Never leave them alone when the unit is in use.
- Make sure equipment is switched off and unplugged after use.

### Electrical Safety

- This unit operates on a 415 volt 5pin 32amp power supply
- Always inspect plugs and sockets before use and make sure there are no signs of damage
- DO NOT USE IF ANY DAMAGE IS FOUND.
- Ensure cables are installed to prevent hazards.
- If an extension lead is used, ensure it is of the correct standard and fully uncoiled before use.
- Cables must not be laid in wet or damp areas.
- Do not move equipment while operating.
- Make sure the boiler flu is positioned 1.5m away from the nearest building

### Getting started and operation

Position equipment on level ground.

Position away from any possible flammable materials.

Do not use within any zoned or hazardous areas.

Keep at least 1 meter of clearance around the Boiler and don't restrict the air flow around the Boiler.

Always make sure the fuel tank is positioned on level ground and is positioned within 1.5 meters of the boiler location to make sure the fuel line can reach and connect.

The temperature control setting will have to be set according to the actual application the boiler is being used for.

DHW applications cannot operate above 58 degrees Celsius.

5 pin 32amp 415 volt Appliance inlet plug found on the 500kW Boiler

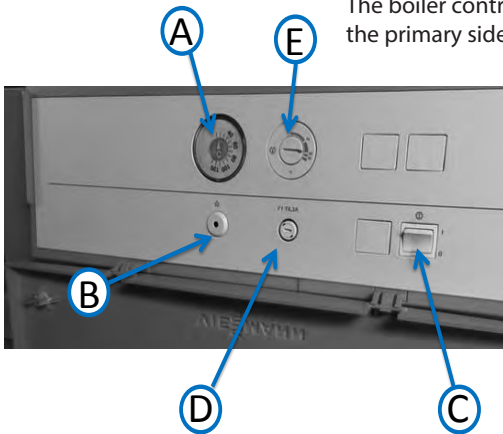


Fig 1 : 415 volt  
Appliance inlet plug

Fig 2 :  
The 500kW Packaged Boiler can be supplied with two fuel options. Gas oil or natural Gas. 3000 liter and 6000 liter Gas oil fuel tanks available. the boiler has only one fuel line for the fuel pick up and must be connected to the flow connection on the tank.



Fig 3:  
The boiler control panel for the primary side of the boiler



- A. Actual Primary Temperature
- B. Primary Overheat Re-Set (push in with blunt object)
- C. On and Off Power Switch
- D. Primary Control Fuses
- E. Primary Thermostat

Fig 2:  
Natural Gas options will require the gas train to the temporary boiler to be purged and tested by a gas safe engineer prior to the boiler commission

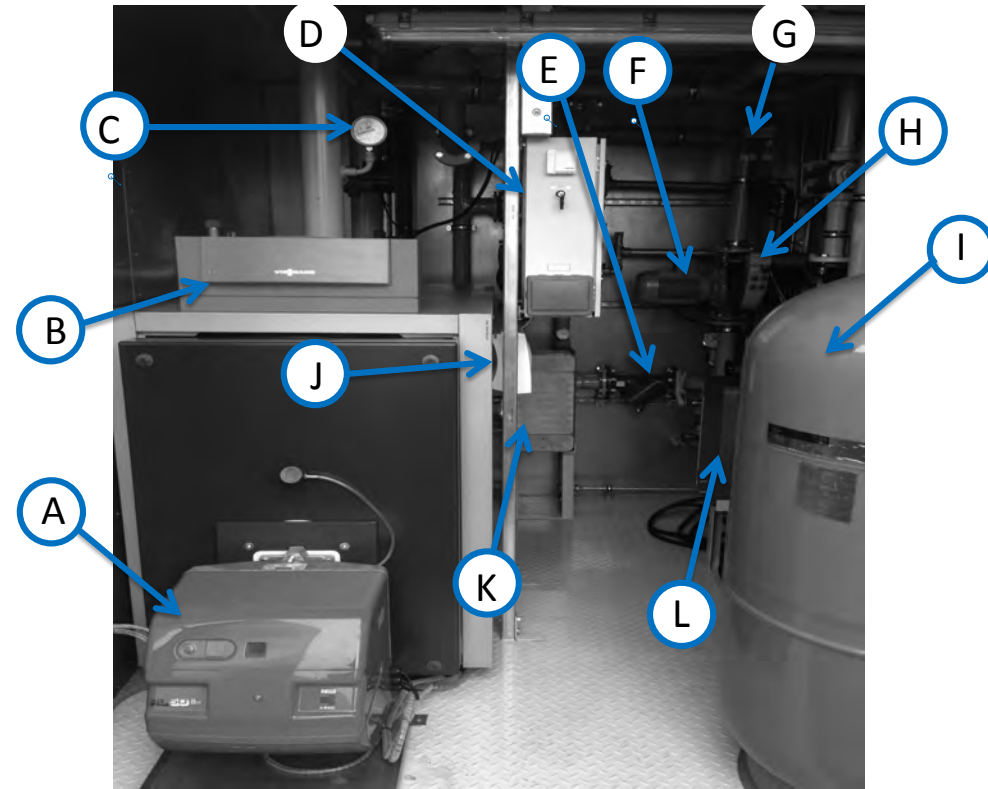
Fig 4:  
Thermostat used to control Heating and DHW applications. These temperatures can be set independent from each other



Fig 6:  
Example of the switch gear control panel



Fig 5 : Boiler Components



- A. Oil fired Burner
- B. Control panel for the burner and primary circuit temperature
- C. Primary circuit pressure gauge
- D. Main control panel with pump switches, phase rotation device, circuit breakers, time clock, etc.
- E. Secondary side water strainer
- F. Secondary side main circulating pump
- G. Secondary side temperature thermostat
- H. D.H.W Primary Circuit Pump
- I. Secondary side expansion vessel
- J. Frost protection heater
- K. Heating circuit plate heat exchanger
- L. D.H.W circuit plate heat exchanger