TWK srl, Italy Apollo SLR 80 Thermal Fluid Heater

Stock No	TE366
Manufacturer	TWK srl, Italy
Model	Apollo SLR 80
Year of Manufacture	2005
Serial	APR 80.6003
Condition	Excellent Condition, Unused
Other Info	Thermal process heater
Location	Our Central Warehouse, Aldridge, UK
Weight (kgs)	594
External Dimensions (WxDxH mm)	620 x 1170 x 1950

Description

The TWK srl Apollo SLR 80 Thermal Fluid Heater typically operates at up to 200°C at atmospheric pressure, the remaining fluid and pumpable down to minus -20°C (even lower with special fluids). Making it a solution suitable for a multitude of thermal processing applications. Only ever run for commissioning purposes.

With thermal fluid as the heat transfer medium, users are not confronted with the well known problems of pressure, scale formation, corrosion and frost of the more traditional heating mediums.

The TWK srl Apollo SLR 80 Thermal Fluid Heater has a vertical configuration with embedded electric heaters

Optimal distribution of the heat exchange, high fluid velocity and specialist flow control offer both long fluid life and the highest safety.

The fully integrated control panel, with system controls, expansion tank, cooling circuit and safety equipment makes this unit ready for connection to your heating fluid circuits.

The thermal fluid circulates in a cylinder heated by the electric elements and is then distributed through a low pressure network to the various sources requiring the heat source. On the return circuit, the expansion vessel ensures the elimination of entrapped air, vapour and light fractions before the thermal fluid re-enters the heater chamber.

Effective fluid expansion and deaeration systems with thermal buffers are critical for the good, long term operation of a thermal fluid system. The TWK srl Apollo SLR 80 Thermal Fluid Heater Expansion Tank achieves all these functions with the simplest practicable installation.

The primary circulating pump provides the flow in the system to take the heat from the heater and transfers it to the process. Due to the characteristics of thermal fluids heat losses are very through the insulated distribution pipework meaning what you produce in the boiler your use at the source.

The versatility and very low running costs of thermal fluid make it suitable for a wide range of applications – from a simple, single heating duty to complete process lines comprising of multiple machines.

Process temperatures from 50 to 200ºC and space heating on demand plus heating and cooling with positive control at widely differing temperatures mean simple systems with high efficiency.

The TWK srl Apollo SLR 80 includes a brazed plate heat exchanger that allows the use of an external water supply to cool the oil and keep a close process control on the supplied temperature.

Here are some examples of applications and industries where thermal fluid heating is regularly chosen as the best method:

Process tank heating, reactor heating, bulk liquid storage, food processing, metal finishing, pharmaceuticals, refining and blending, marine, press heating & cooling, extrusion heating, moulding processes, laminating, drying & forming, plastics, automotive manufacturing, paper & foil coating, textile transfer printing, calendaring and ironing, printing & laminating, batch & continuous dryers, and waste treatment.

User Advantages:

- Non-pressurised system.
- Closed circuit no loss system.
- Point of use location possible.
- No water treatment or chemical usage is required.
- No effluents disposal costs.
- No freezing hazards.
- The very lowest maintenance costs.
- Rapid start-up and shutdown with lowest standing heat losses.

- No boiler blowdown losses, no condensate losses.
- Simple plant design.
- Easy and accurate temperature control.
- Heating and cooling can be undertaken in the same system.
- Zero carbon emissions.
- Mixed temperatures can be easily achieved for different users in a single system.

Photographs taken prior refurbishment. Our refurbishment service is not available on all machines.