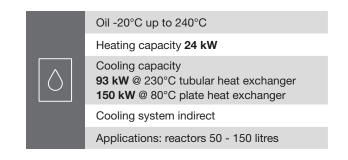


TT-409 Z

Oil temperature control unit

- high performance unit with wide temperature range: -20°C up to +240°C
- for reactors and double-walled vessels





Functions

- Self-optimizing temperature controller with temperature display 1/10°C – steps
- Display in °C or °F and I/min or gal/min
- Digital flow display and monitoring
- Automatic temperature control
- · Switchover for temperature control at the consumer
- · Heating switchable in stages
- Heaters with cascade connection
- Pressure indication: pump, compressed air unit, compressed air mains
- With pressure regulation

Construction

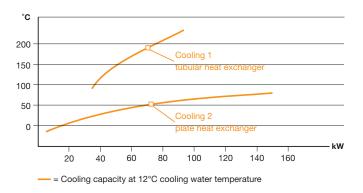
- High temperature pump with mechanical seal
- Hot oil circuit with bypass, which ensures the internal oil circulation when the valves are closed
- With two cooling circuits: circuit 1: +80°C to +240°C circuit 2: -20°C to +80°C
- · Limescale free heat exchanger
- No cracking of the oil thanks to special heating construction
- All parts in contact with water are made of stainless steel or bronze
- Unit on castors

Safety features

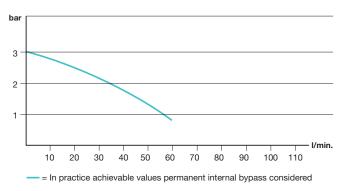
- Level control for dry run protection
- Expansion vessel with safety shut-off in case of overflow
- Electronic temperature limitation and monitoring in the controller
- Mechanical safety thermostats
- Visual and acoustic fault indications
- Integrated circuit breakers
- Main switch, transformer and motor protection switch



Cooling capacity



Pump capacity



Technical data

Product attribute	Unit	TT-409 Z
Temperature range	°C	-20°C up to +240°C with heat transfer liquid
Temperature control		Self-optimizing, electronic microprocessor controller MP-988 with digital display of the set and actual value. Automatic temperature monitoring.
Flow control		Electronically, with digital display and automatic control of the minimum flow.
Heating capacity	kW	24 kW
Switchable in stages		8/8/8
		Automatic switching of the required heating power
Cooling capacity		
Cooling 1		93 kW at 230°C – see diagram - tubular heat exchanger
Cooling 2		150 kW at 80°C – see diagram - plate heat exchanger
Pump capacity		
Motor	kW	1.8 kW
Pressure mode		Max. 3,0 bar / max. 60 l/min. – see diagram
Expansion tank capacity		46 Liter
Filling amount		60 Liter
Expansion volume		36 Liter
Connections		
Oil circuit		1" BSP female thread
Cooling water		3/4" BSP female thread
Water-glycole		¾" BSP female thread
Compressed air		1/4" BSP female thread, min. 5 bar
Dimensions (L×W×H)	mm	1'380x720x1'500 mm, incl. castors
Weight	kg	Approx. 340 kg, empty
Colour		Silvergrey RAL 7001