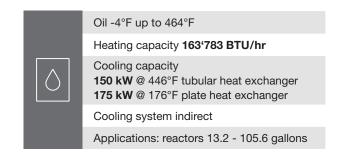


# TT-410 X

# Oil temperature control unit

- high performance unit with wide temperature range: -4°F up to +464°F
- for reactors and double-walled vessels





#### **Functions**

- Self-optimizing temperature controller with temperature display 1/10°F – 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

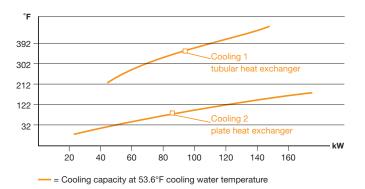
- High-performance centrifugal pump
- Hot oil circuit with bypass, which ensures the internal oil circulation when the valves are closed
- With two cooling circuits: circuit 1: +176°F to +464°F circuit 2: -4°F to +176°F
- Limescale free heat exchanger
- No cracking of the oil thanks to special heating construction
- All parts in contact with water are made of stainless steel or bronze
- Unit on adjustable feet

### Safety features

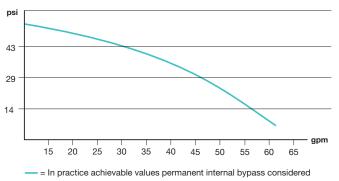
- Level control for dry run protection
- Expansion vessel with safety shut-off in case of overflow
- Electronic temperature limitation and monitoring in the controller
- Mechanical safety thermostats
- Visual and acoustic fault indications
- Integrated circuit breakers
- Main switch, transformer and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



## **Cooling capacity**



## **Pump capacity**



### **Technical data**

Product attribute	Unit	TT-410 X
Temperature range	°F	-4°F up to +464°F 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	BTU/hr	163'783 BTU/hr
Switchable in stages		8/8/16/16
		Automatic switching of the required heating power
Cooling capacity		
Cooling 1		150 kW at 446°F – see diagram - tubular heat exchanger
Cooling 2		175 kW at 176°F – see diagram - plate heat exchanger
Pump capacity		
Motor	HP	5.4 HP
Pressure mode		Max. 58 psi / max. 53-132 gpm – see diagram
Expansion tank capacity		25.3 gallons
Filling amount		19.8 gallons
Expansion volume		19.8 gallons
Connections		
Oil circuit		Flange DN32 / PN16
Cooling water		11/2" NPT female thread
Water-glycole		11/2" NPT female thread
Compressed air		1/4" NPT female thread, min. 72.5 psi
Dimensions (L×W×H)	mm	67.3×31.1×60.6 inch, incl. adjustable feet
Weight	kg	Approx. 1301 lbs, empty
Colour		Silvergrey RAL 7001