

Temperature Control Unit

TT-248

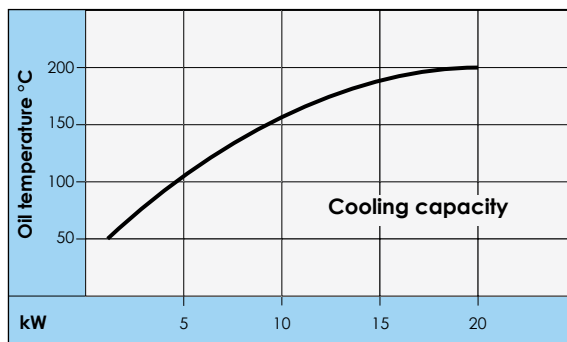
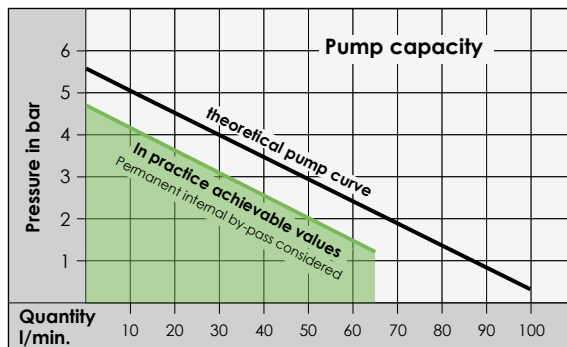
Powerful, small oil unit for temperatures up to 200°C

Operational use:
moulds up to 600 kg



Features included

- Self-optimizing temperature controller with digital display of the set and actual temperature. With high precision regulation in $1/10^\circ$ range; can be adjusted to read °C or °F.
- Automatic temperature control – difference between set and actual temperatures activates an alarm.
- Digital flow indication with control of the minimum flow.
- Indication of the pump pressure.
- Reversing switch for temperature controlling at the mould.
- Leakstopper device – unit can be used in pressure or vacuum mode. No medium is lost on leaking tools, therefore ensuring continued production.
- Automatic mould drain.
- Lime scale free heat exchanger.
- Leak free high temperature pump with axial face seal.
- Hot oil circuit with by-pass, which ensures internal circulation if valves are closed.
- Expansion tank with a drip pan.
- No oil cracking because of special construction of the heating elements.
- Safety devices:
 - Level control for dry run protection.
 - Electronic temperature limiter in the controller and separate mechanical safety thermostat.
 - Main switch, transformer and motor protection switch.
 - Horn in case of failure.
- All failures are visually indicated.
- Unit on castors.



TOOL-TEMP[®]

Technical data

| | |
|---|---|
| Temperature range | up to 200°C with heat transfer oil TOOL-THERM SH-3 |
| Temperature control | self-optimizing, electronic microprocessor controller MP-888 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 | 8 kW |
| Cooling capacity | approx. 20 kW at 200°C circulating temperature |
| Pump capacity | motor 1.8 kW |
| <i>Pressure mode</i> | max. 5.5 bar / max. 100 l/min |
| <i>Vacuum mode</i> | vacuum max. 8 mH ₂ O |
| Temperature measurement at the mould | yes |
| Leakstopper and mould drain | yes |
| Expansion tank capacity | 8 litres |
| Filling amount | 8 litres |
| Expansion volume | 6 litres |
| Connections | |
| <i>Oil circuit</i> | ¾" BSP female thread |
| <i>Cooling water</i> | inlet water filter ½" BSP female thread outlet ½" BSP female thread |
| Dimensions (L×W×H) | 880 × 360 × 920 mm, incl. castors |
| Weight | approx. 120 kg empty |
| Colour | silver grey RAL 7001 |

All possible voltages are available from 3 x 200 V to 3 x 600 V and 50/60 Hz. The units are available conform to UL/CSA specifications. For the USA market the units are equipped with NPT-thread connections and the controller is adjusted to indicated °F.

Electronic temperature controller MP-888

The electronic controller MP-888 can be operated to read °C or °F. The analog interfaces 0-5 V, 0-10 V and 4-20 mA are standard included in the controller - **without additional costs**.

Set temperature / required temperature adjustable in 1/10° range.

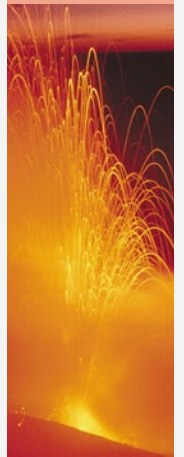


The self-optimizing feature on this controller allows a very high regulating accuracy even at high temperatures and adheres to the set temperatures independently of the consumer size.

Flow control:

The indication of the flow rate is possible in litres or gallons per minute. As soon as the flow falls below a minimum, the alarm is activated.

Actual temperature / effective temperature displayed in 1/10° range.



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