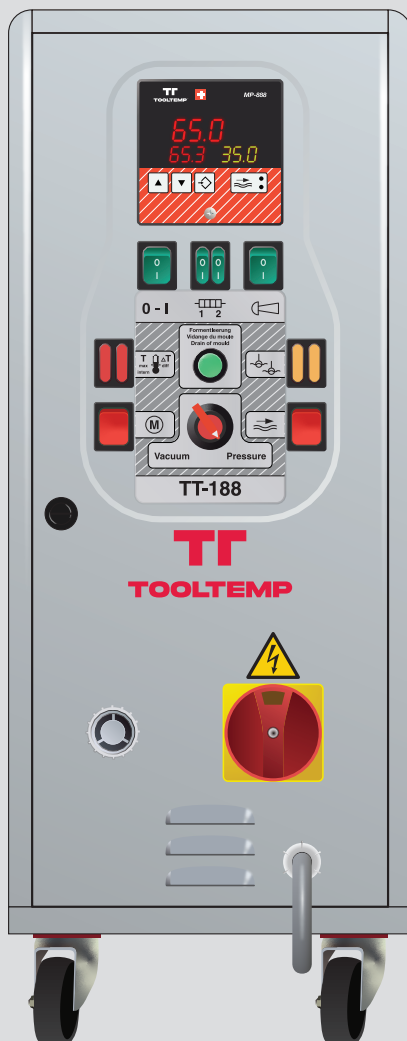# TT-188

Universal temperature control unit

Small device with high functionality
▪ with mould drainage
▪ with leakstopper
▪ with flow control

	Water	Oil
	Up to 90°C	Up to 150°C
	Heating capacity **9 kW**	**3 kW**
	Cooling capacity **35 kW** @ 90°C	
	Cooling system indirect	
	Application: moulds up to 600 kg	

Functions

▪ Self-optimizing temperature controller with temperature display 1/10 °C – steps
▪ Display in °C or °F and l/min or gal/min
▪ Digital flow display and monitoring
▪ Automatic temperature control
▪ Heating switchable in stages
▪ Pressure display
▪ Automatic or manual refill
▪ Automatic mould drainage
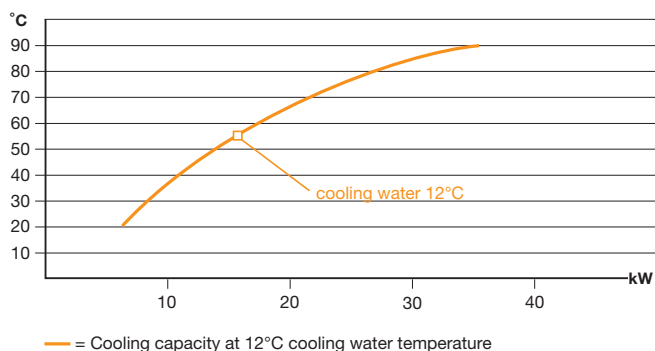▪ Leakstopper device – operation in pressure and vacuum mode possible

Construction

▪ Submersible sealless pump made from bronze
▪ Limescale free heat exchanger
▪ Corrosion resistant unit for a long service life
▪ All parts in contact with water are made of stainless steel or bronze
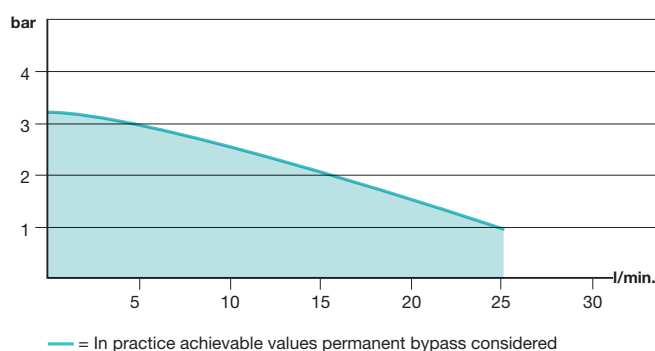▪ Unit on castors

Safety features

▪ Level control for dry run protection
▪ 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

— = Cooling capacity at 12°C cooling water temperature

Pump capacity

— = In practice achievable values permanent bypass considered

Technical Data

Product attribute	Unit	TT-188	
Medium		Water	Oil
Temperature range	°C	Up to 90°C	Up to 150°C
Temperature control		Self-optimizing, electronic microprocessor controller MP-888 with digital display of the set and actual value. Automatic temperature monitoring.	
Heating capacity	kW	**9 kW**	**3 kW**
Switchable in stages		3/6	None
Cooling capacity		**35 kW** at 90°C – see diagram	
Pump capacity			
Motor	kW	0,75 kW	
Pressure mode		Max. 4,0 bar / max. 60 l / min. – see diagram	
Vacuum mode		Vacuum max. 8 mH$_2$O	
Filling amount		Min. 5 litres, max. 7 litres	
Connections			
Medium		½″ BSP female thread	
Cooling water			
Inlet		With water filter ⅜″ BSP female thread	
Outlet		⅜″ BSP female thread	
Dimension (L×W×H)	mm	670×260×650 mm, incl. castors	
Weight	kg	Approx. 55 kg empty	
Colour		Silvergrey RAL 7001	