

# 90smart

## Temperature control unit for water up to 90 °C

- RT70 control system with 3.5" TFT display
- Immersion pump with high flow rate: 60 l/min
- Immersion pump with high flow rate: optional 70 l/min
- Solid-state relay instead of heating contactor



## Technical specifications

Heat transfer medium	Outlet temperature	Heating capacity at 400V	Cooling capacity		Pump capacity/Type		
			80 °C	51 kW	TP20	60 l/min	0.5 kW
Water	90 °C	6 / 9 kW	80 °C	75 kW	TS22	70 l/min	0.92 kW

**Technical data**

<b>Outlet temperature</b>			
max.	°C	90	
<b>Heat transfer medium</b>		Water	
Filling quantity	l	7.0	
Expansion volume	l	2.5	
<b>Heating capacity at 400V</b>	kW	6 / 9	
<b>Cooling capacity</b>	kW	51	75
Cooler		1K	2K
at outlet temperature	°C	80	80
at cooling water temperature	°C	20	20
<b>Pump capacity/Type</b>		TP20	TS22
Flow rate max.	l/min	60	70
Power consumption	kW	0.5	0.92
Pressure max.	bar	3.8	5.4
<b>Control system</b>		RT70	
Measuring mode (standard)		Pt100	
<b>Operating voltage</b>	V/Hz	380-480 V, 50/60 Hz	
<b>Connections</b>			
Outlet/Inlet		G1/2"	
Cooling water mains		G1/2"	
<b>Degree of protection</b>		IP40	
<b>Dimensions W/H/D</b>	mm	202/560/661	
<b>Weight</b>	kg	44	
<b>Color</b>	RAL	9006/7016	
<b>Ambient temperature</b>			
max.	°C	40	
<b>Noise level</b>	db (A)	< 70	

## Standard equipment

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- Solid-state relay (SSR) instead of heating contactor
- Immersion pump
- Indirect cooling
- Automatic water refill
- Filter in cooling water circuit
- Unit in IP40 protection degree
- Draining the consumer by suction

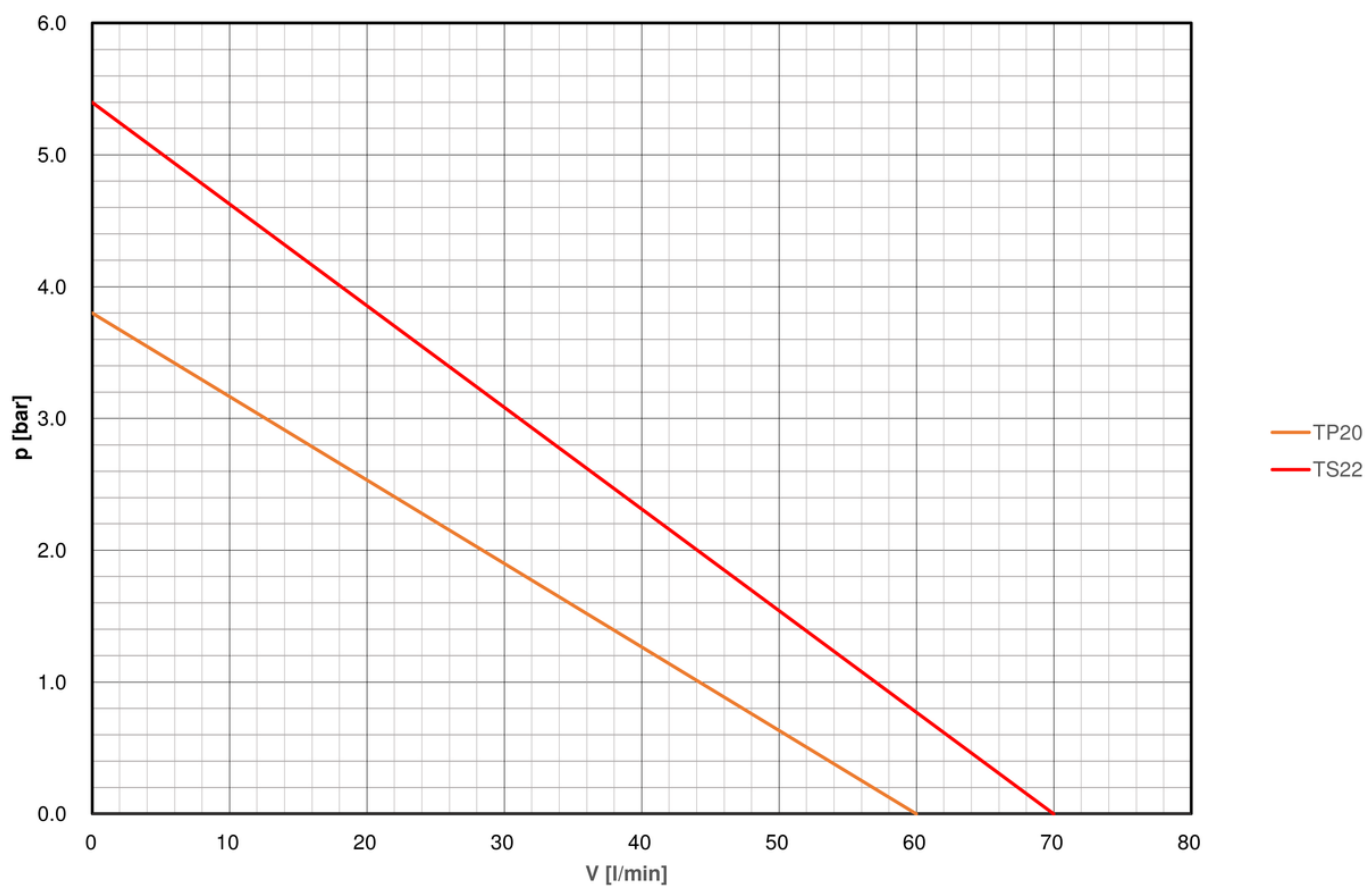
## Options

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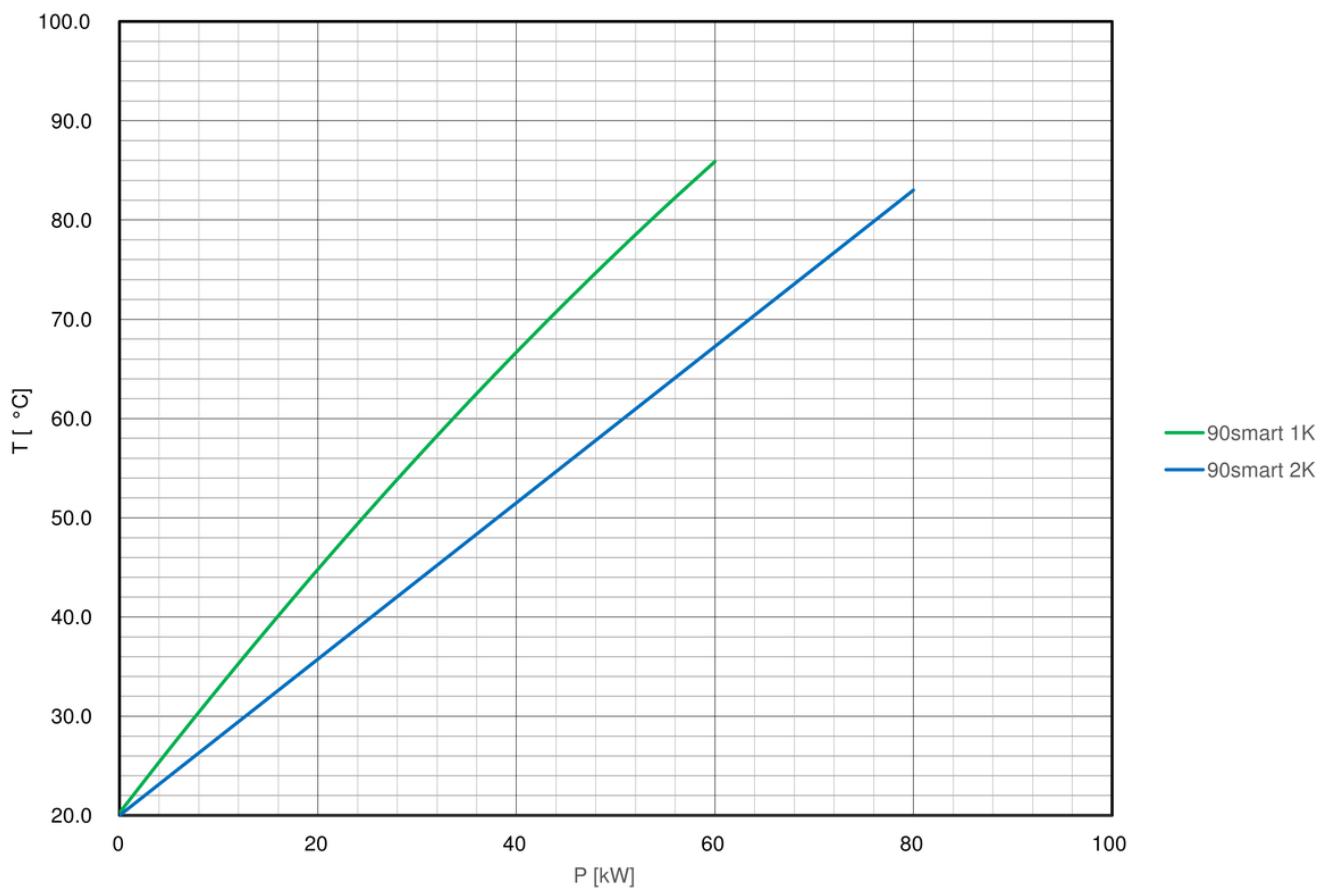
- Filler neck
- Electronic flow measurement
- Magnetic valve in inlet, one way check-valve in outlet

## Pump curve

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**Cooling curve**



**Representation Spain**

Coscollola Comercial S.L.  
 C/Motores, 160,  
 08038 Barcelona  
 Spain

Tel + 34 93 223 2599  
 Email [info@coscollola.com](mailto:info@coscollola.com)