

## Smart W TS

Water temperature control unit for industrial applications up to 90°C in the field of plastic injection moulding, chemical, pharmaceutical, cosmetics or steel.

### Main features

- Pump works under pressure and reverse operation feature
- Solid State relays for heating
- Frontal cooler for solid state relays
- PID temperature control in cooling and heating process
- Hose breakage and leakage monitor
- Sensor failure monitor
- Automatic water filling
- Standard pump 60 l/m 3,8 bar
- Indirect cooling system
- Two independent solenoid valves one for cooling one for filling
- Entire cooling system, heaters, tank, process pipes and thermocouple in stainless steel
- Water level sensor through electrode
- Acoustic alarm
- Castors
- Pressure transducer
- Thermocouple in process return
- User friendly touch screen pcb card

### Options

- Analogic Input/Output temperature 4...20mA / 0-10 volt
- Interface TTY 20mA, OPC UA, Profinet, RS 485, RS 232
- Multi polar connector for external signals
- Electronic flow measurement
- Pump 5,8 bar
- Plate exchanger 20 or 40 plates
- Manual mould drain
- Automatic mould drain

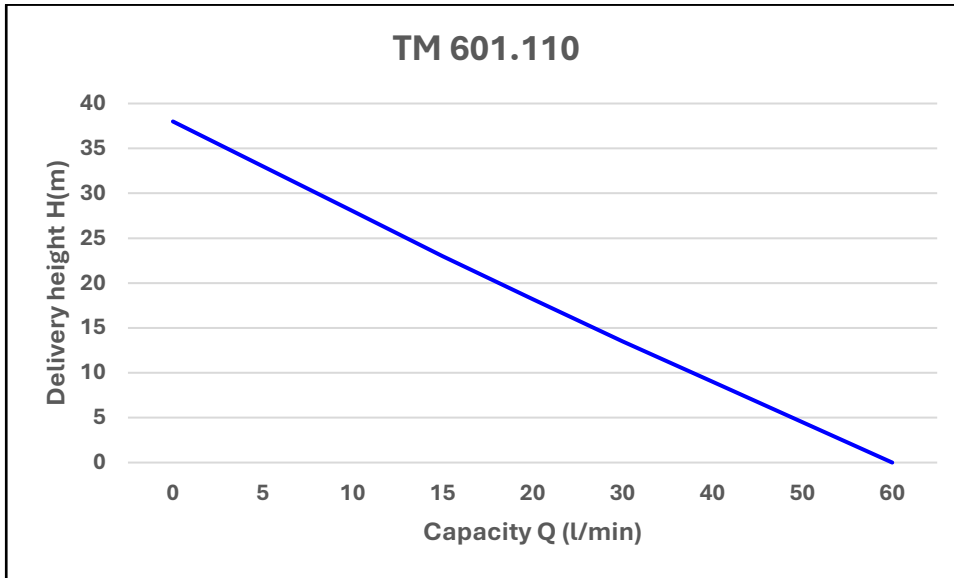


## Technical datas

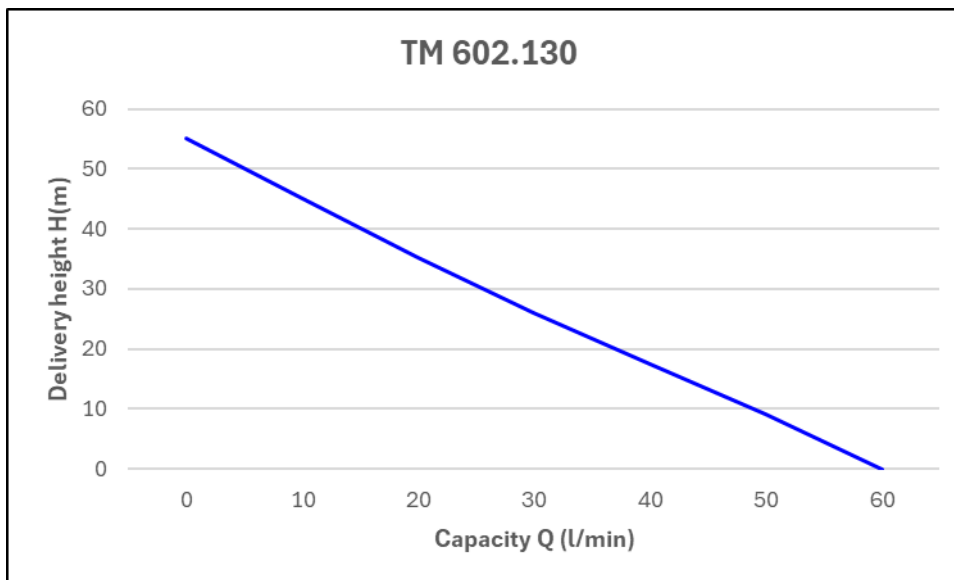
Model		<b>SMART W TS</b>	
Fluid			Water
Maximum temperature		°C	90
PID temperature control heating / cooling			Yes
Solid state relays + frontal cooler			Yes
Heating power		Kw	6 or 9
Cooling power at 15°C	E5Tx10	Kw	<b>65</b>
	E5Tx20		<b>90</b>
	E5Tx40		<b>120</b>
Tank capacity		Lit.	12
Expansion volume		Lit.	4
Pump TM 601.110		Max.Flow Max.Pressure Motor power	60 lit/min 3,8 bar 0,5 kw
Pump TM 602.130 (option)		Max.Flow Max.Pressure Motor power	60 lit/min 5,8 bar 1 kw
Hydraulic process connections		inlet / outlet	3/4"
Hydraulic cooling connections		inlet / outlet	1/2"
PCB card		Touch screen	TG 111
Thermocouple type			PT1000
Dimensions		mm	285 x 570 x 500h
Color		RAL	7016 - 7035
Max.electrical cabinet temperature		°C	40
Sound pressure level		db (A)	< 70
Weight		kg	35
Voltage		V/Ph/Hz	400/3/50hz 480/3/60hz (option)

## Pumps curves

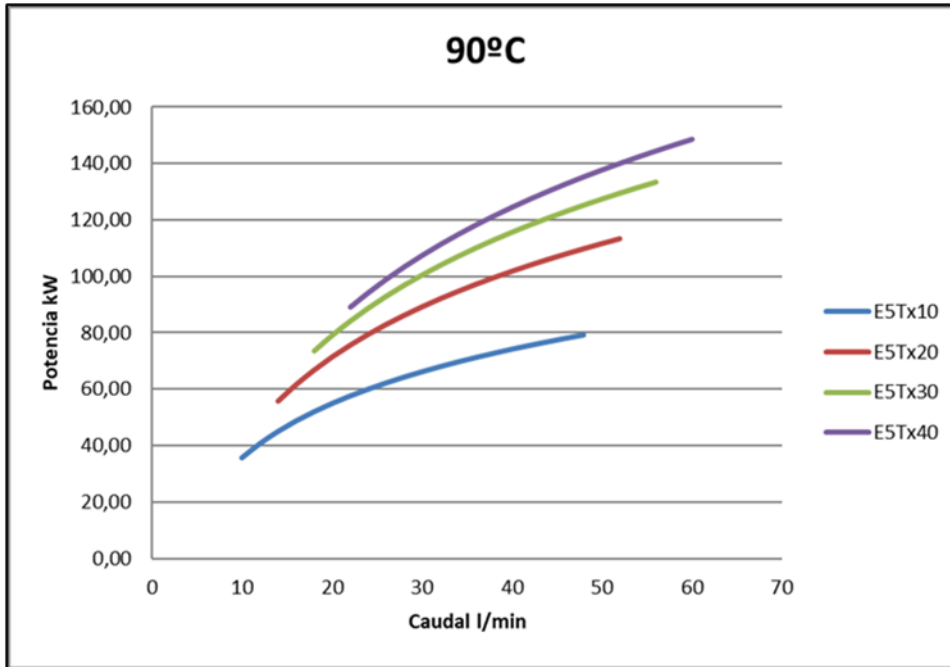
### Standard pump



### Optional pump



## Cooling curves



E5Tx10 Standard plate exchanger

E5Tx20 Option

E5Tx40 Option