TCU • TEMPERATURE CONTROL UNIT

SMART 5A TS

Oil temperature control unit for industrial aplications up to 150ºC in the field of plastic injection moulding, extrusion, chemical, pharmaceutical, cosmetics or steel.

Oil FLUID | **150ºC** MAX. TEMP.

MAIN FEATURES

- Pump works under pressure
- 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
- Manual oil filling
- Standard pump 200 l/m 5,8 bar
- Indirect cooling system (submersible double coil)
- One solenoide valve for cooling
- Entire heaters, tank, process pipes and thermocouple in stainless steel
- Oil level sensor through stainless steel buoy
- Electronic flow measurement
- 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* OPT.
- *Interface TTY 20mA, OPC UA, Profinet, RS 485* OPT.
- *Multi polar connector for external signals* OPT.
- *By pass* OPT.
- *Pump frequency converter* OPT.

EQUIPMENT TYPE

OIL
OPEN TANK

EQUIPMENT IMAGE

KEY DATA

Oil
Fluid

150 ºC
Max. temp.

400/3/50hz
Power supply

CERTIFICATION
Industry 4.0 Ready

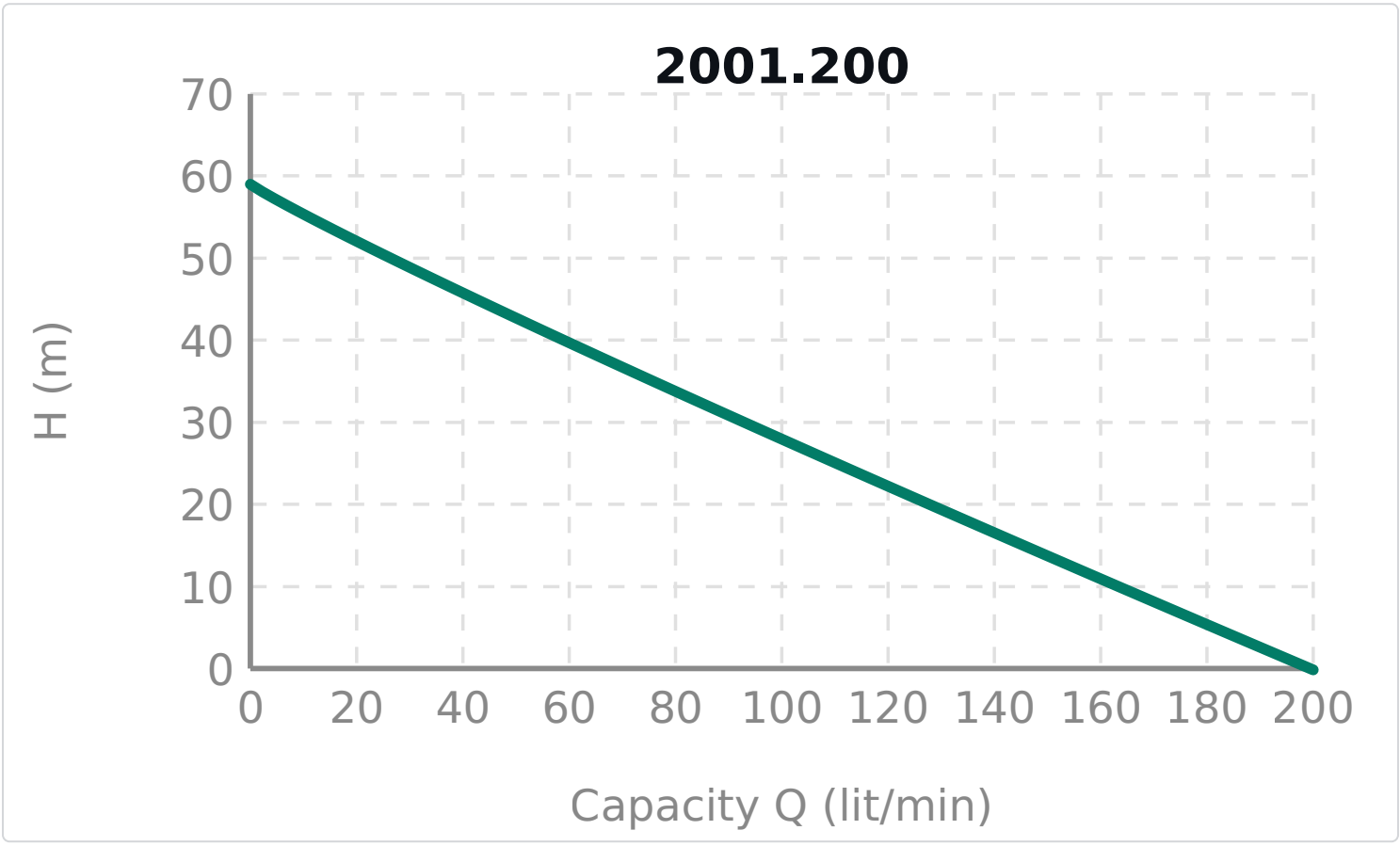
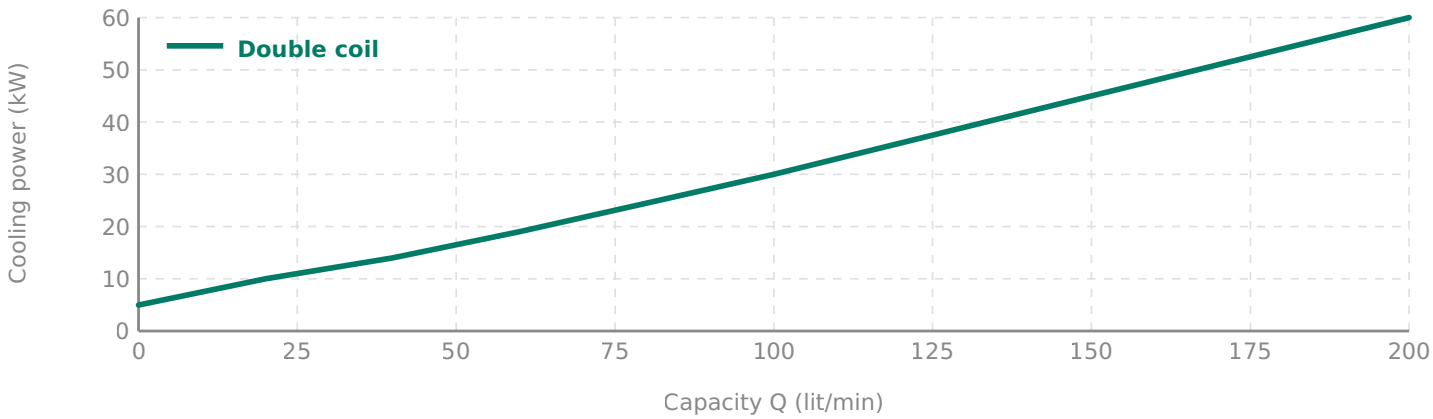
TECHNICAL DATA

PARAMETER	UNIT	SMART 5A TS
SMART 5A TS		
Fluid		**Oil**
Maximum temperature	ºC	**150**
PID temperature control heating / cooling		**Yes**
Solid state relays + frontal cooler		**Yes**
Heating power	kW	**18 – 24 – 30**
Cooling power at 15ºC	kW	**60**
Tank capacity	Lit.	**70**
Expansion volume	Lit.	**24**
Pump T 2001.200	Max.Flow Max.Pressure Motor power	**200 lit/min 5,8 bar 2,8 kw**
Hydraulic process connections	inlet / outlet	**1 1/2"**
Hydraulic cooling connections	inlet / outlet	**1”**
PCB card	Touch screen	**TG 111**
Thermocouple type		**PT1000**
Dimensions	mm	**510 x 1000 x 930h**
Color	RAL	**7016 – 7035**
Max. electrical cabinet temperature	ºC	**40**
Sound pressure level	db (A)	**< 70**
Weight	kg	**120**
Voltage	V/Ph/Hz	**400/3/50hz** **480/3/60hz** OPT

Note: Technical data subject to change. For custom specifications, contact the Marse technical department.

PUMP CURVES

2001.200 STANDARD



COOLING CURVES