



## THERMOGEL TBX

### Water temperature controller (90°C)

This line of temperature controllers has been designed to operate up to a maximum temperature of 90°C and for running also in vacuum mode.

The compact design of the temperature controllers Microbox grants a reduced footprint.

Each unit is equipped with two rear wheels for easy moving.

Indirect cooling with large surface finned coil provides for a high cooling capacity.

They are available in two models:

- TBX with 6 kW heating capacity
- TBX with 8 kW heating capacity



*Microbox*

### Advantages

- Simple and competitive
- Capability of running continuously in vacuum mode thanks to the reversible pump
- High resistance to corrosion thanks to the main components in non-ferrous materials
- Reduced footprint and height
- High temperature accuracy thanks to double PID control

### Main features

- Low specific heat heating elements in stainless steel
- Open tank in stainless steel
- Indirect cooling through a high efficiency heat exchanger
- Automatic water filling system by means of solenoid valve and level sensor
- Magnetic level sensor
- Double PID control instrument
- Safety thermostat
- 3-Phases power supply
- 24V auxiliary circuits
- Y-strainer
- Rear wheels for easy handling



Technical Data of the TBX series

TBX			
Model		6	8
Power supply voltage and frequency		400V±10%/3/50Hz	
Cooling zones	N°	1	1
Heating capacity	kW	6	8
Cooling capacity (TCU)	kW	30	30
Cooling medium		Water	Water
Cooling system		Indirect	Indirect
Max set point temperature	°C	80	80
Control valve	Type	On/off	On/off
Process pump	Type	Peripheral	Peripheral
	Quantity	1	1
	kW	0.5	0.5
	min	l/min	2.0
	max		55.0
	max	bar	3.4
min	0.2		
Tank	Material	Stainless steel	Stainless steel
	Volume	L	6.5
Process water connections	Type	BSP	BSP
	In/out	¾"	¾"
Cooling water connections	Type	BSP	BSP
	In/out	½"	½"
Unit Full Load Ampere (FLA)	A	11	14
Protection level		IP22	IP22
Net weight	kg	30	30
Operating weight (**)	kg	36.5	36.5

(\*\*) Not considering the water in pipes and in exchangers

- Available supply voltage: 400V±10%/3/50Hz; 460V±10%/3/60Hz; 380V±10%/3/60Hz
- Pumps not rated for more than 35% glycol
- Altitude limit: 2,000 m a.s.l.
- Max water working pressure: 8 bar
- Not suitable for DI water (due to ferrous components)



Technical Data of the TBX series

TBX			
Model		8	
Power supply voltage and frequency		460V±10%/3/60Hz	
Cooling zones	N°	1	
Heating capacity	kW	8	
Cooling capacity (TCU)	kW	30	
Cooling medium		Water	
Cooling system		Indirect	
Max set point temperature	°C	80	
Control valve	Type	On/off	
Process pump	Type	Peripheral	
	Quantity	1	
	kW	0.5	
	min	l/min	2.0
	max		55.0
	max	bar	3.4
min	0.2		
Tank	Material	Stainless steel	
	Volume	L	6.5
Process water connections	Type	BSP	
	In/out	¾"	
Cooling water connections	Type	BSP	
	In/out	½"	
Unit Full Load Ampere (FLA)	A	11	
Protection level		IP22	
Net weight	kg	30	
Operating weight (**)	kg	36.5	

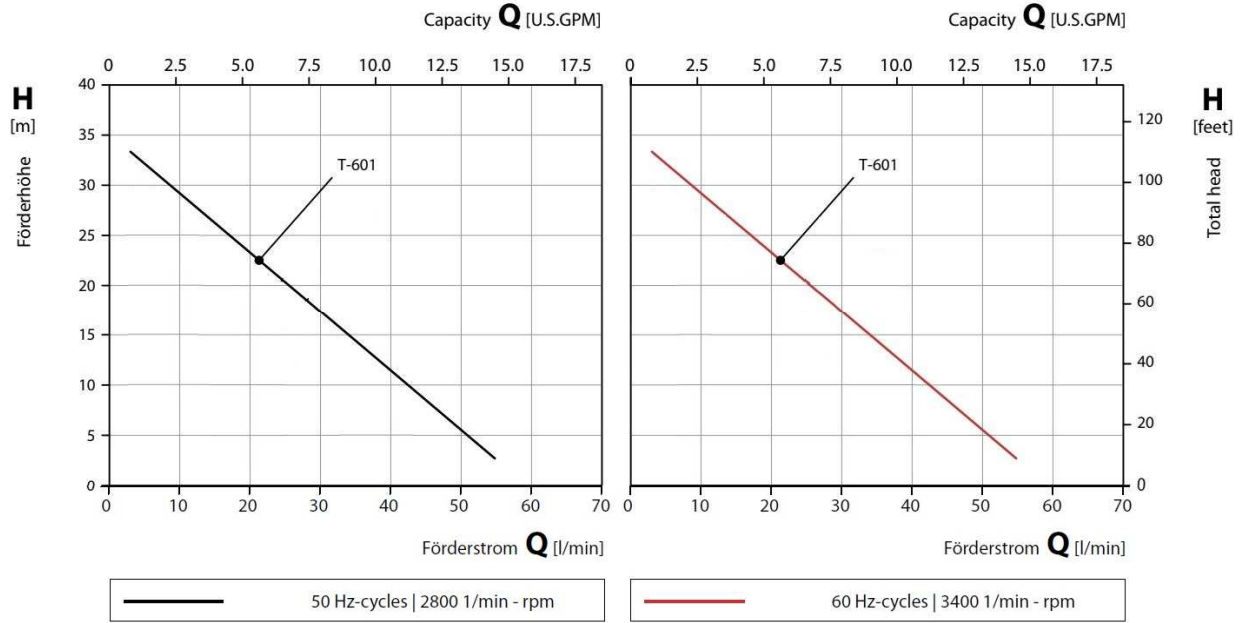
(\*) Heating capacity with 380Volt = 7,2kW

(\*\*) Not considering the water in pipes and in exchangers

- Available supply voltage: 400V±10%/3/50Hz; 460V±10%/3/60Hz; 380V±10%/3/60Hz
- Pumps not rated for more than 35% glycol
- Altitude limit: 2,000 m a.s.l.
- Max water working pressure: 8 bar
- Not suitable for DI water (due to ferrous components)

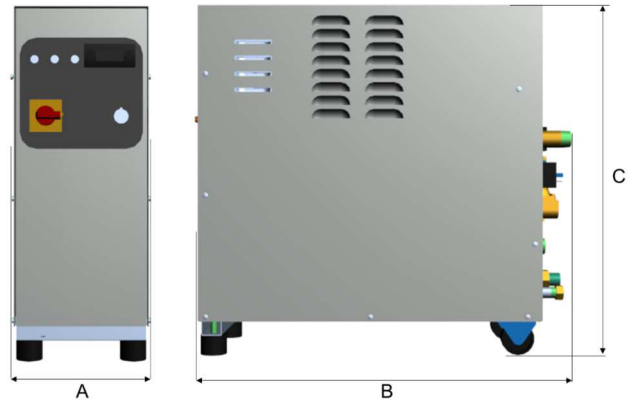
THERMOGEL TBX

Pump performance



Dimensional tecnica data

TBX			
Model		6	8
A	mm	200	200
B	mm	530	530
C	mm	527	527



Order Code

