TEMP 90XS

Compact Water Temperature Control Unit

Compact footprint. Precise control. Built for tight spaces and fast deployment.

TEMPERATURE RANGE

10 - 90°C

HEATING CAPACITY

up to 9 kW

COOLING CAPACITY

50 kW (indirect, ΔT=60°C)

PUMP FLOW

60 l/min @ 3.8 bar

DIMENSIONS

535×270×540 mm

WEIGHT

approx. 45 kg

ABOUT BOE-THERM

ENGINEERING EXCELLENCE SINCE 1961

Boe-Therm A/S has been engineering temperature control solutions since 1961, from our own production facility in Assens, Denmark. Every unit is designed and manufactured in-house, giving us full control over quality, lead times, and customization.

With over 80,000 units installed worldwide across injection molding, die casting, rubber processing, composites, and other manufacturing industries, our systems are built for demanding industrial environments where temperature precision directly impacts product quality.

QUALITY STANDARDS

- Control accuracy: ±0.1°C
- Safety temperature limiter (manual reset) included in all units
- Standard filling from cooling water circuit
- In-house design and manufacturing
- Full control over quality and customization

80K+

UNITS INSTALLED

Worldwide deployment

±0.1°C

CONTROL ACCURACY

Precision temperature control

1961

ESTABLISHED

Over 60 years of expertise

TECHNICAL SPECIFICATIONS

GENERAL SPECIFICATIONS

Model	TEMP 90XS
Temperature range	10–90°C
Medium	Water
System pressure	Pressureless open tank (0 bar + pump pressure)
Supply voltage	3 × 400V / 50Hz (standard)
Control system	Mark VI Touch
Housing color	RAL 7016 Anthracite Grey
Front door color	RAL 9003 Signal White

HEATING

Heating capacity	9 kW
Heating element	Stainless steel tubular heater
Current draw (9 kW, 400V/50Hz)	13.5 A
Total power consumption (9 kW)	approx. 9.6 kW
Total current draw	approx. 15.3 A

PUMP

Type	TM6 (TM601, Speck/Simaco)
Impeller	Peripheral
Seal	Sealless
Max flow rate	60 l/min
Max pressure	3.8 bar
Motor power	0.6 kW / 1.4 A

CONTROL

Color Touch Screen	3,5"

COOLING

Type	I2 — Indirect cooling via plate heat exchanger
Cooling capacity	50 kW at ΔT = 60°C
Cooling water pressure required	3 bar

CONNECTIONS

Process circuit	1/2"
Cooling water	1/2"

DIMENSIONS AND WEIGHT

Length	535 mm
Width	270 mm
Height	540 mm
Weight	approx. 45 kg
Mounting	Castors (standard)

ELECTRICAL

Cable	4 m without plug, 5 × 2.5 mm²
Optional plug	6 m with 16A CEE plug

TANK

Volume	10 litres

AVAILABLE OPTIONS

PT	External PT100 connection
MD	Mould drain
SF	Separate filling (automatic from cooling water circuit)
CEE	6 m cable with 16A CEE plug
MF	Machine feet (instead of castors)

COMMUNICATION INTERFACES (OPTIONAL)

CL	20 mA TTY
PB	Profibus
PN	Profinet
EN	Ethernet
MS	4–20 mA
VS	0–10 V
MB	RS485 Modbus RTU

Alternative voltages available: 400V/60Hz, 230V/50Hz, 230V/60Hz, 480V/60Hz, 460V/60Hz, 440V/60Hz