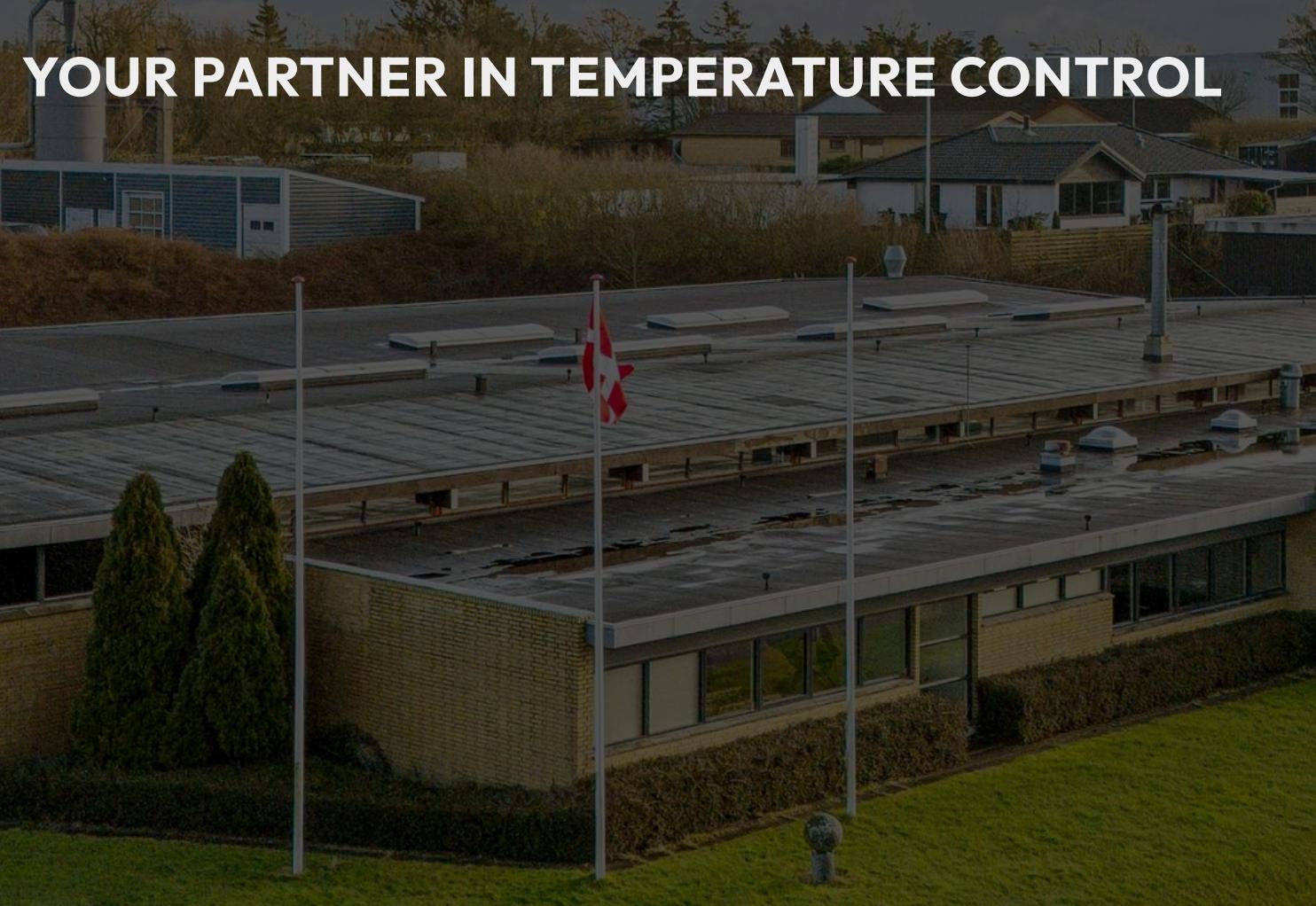


BOE-THERM

YOUR PARTNER IN TEMPERATURE CONTROL



TEMP 350L SERIES

Temperature Control Unit for Thermal oil up to 350 °C

- High isolation against heat loss
- Market leading life time
- Magnetic coupled pump
- High performance pump, heating and cooling
- Flexible configurations & safety features
- Industrial reliability and durability
- Solid-state relays



KEY BENEFITS: EFFICIENCY AND USER-CENTRIC DESIGN



RELIABLE AND DURABLE

Engineered with premium components including a magnetic coupled pump and solid-state relays, the TEMP 350L is built for continuous industrial operation. This robust construction ensures exceptional reliability, minimal maintenance requirements, and a market-leading service life that maximizes your return on investment.



EASY OPERATION

Designed with the user in mind, the TEMP 350L boasts an intuitive interface and straightforward controls. This ensures quick setup, minimal training requirements, and hassle-free daily operation, allowing technicians to focus on core production tasks.



TEMPERATURE DEVIATION ALARM

A crucial safety and quality assurance feature, the integrated temperature deviation alarm provides immediate alerts if process temperatures fall outside predefined parameters. This enables prompt intervention, preventing potential damage to materials or equipment and ensuring product consistency.



LOW NOISE OPERATION

Operating with remarkably low noise levels, the TEMP 350L contributes to a more comfortable and productive work environment. This quiet performance is particularly beneficial in facilities where noise reduction is a priority, enhancing overall workplace safety and communication.

TECHNICAL SPECIFICATIONS

Below is a detailed overview of how the unit can be configured:

Max. Operating Temperature	350 °C						
Heat Transfer Medium	Oil						
* Heat Capacity (kW)	9	24	36	48	60	72	96
Internal volume (L)	21	21	21	21	21	42	42
Dimensions (LxWxH) mm	9kW 24-96kW	1500 1500	420 510	1100 1100			
* Pump Type	Q8	Q15	Q20				
Pump Flow Rate (Max)	80L/min	150	190				
Pump Pressure (Max)	9,2 Bar	8,2	8,4				
Connection to Process	1"	1"	1"				
* Cooling Capacity at $\Delta T = 250 \text{ °C} - \text{kW}$:	I2 160						
Connection:	1/2"						
* Electrical Connection	3x	3x	3x	3x	3x	3x	
Voltage	400	400	230	230	460	440	
Hz	50	60	50	60	60	60	

* = To choose

The compact footprint of the TEMP 350L allows for flexible installation, even in space-constrained production environments. Its robust construction ensures durability and consistent performance under continuous industrial operation.

PUMP PERFORMANCE VARIANTS

Choosing the correct pump for your Temperature Control Unit (TCU) isn't just a technical detail — it's the key to **consistent product quality, faster cycle times, and fewer production stops.**

FLOWRATE (M³/H OR L/H)

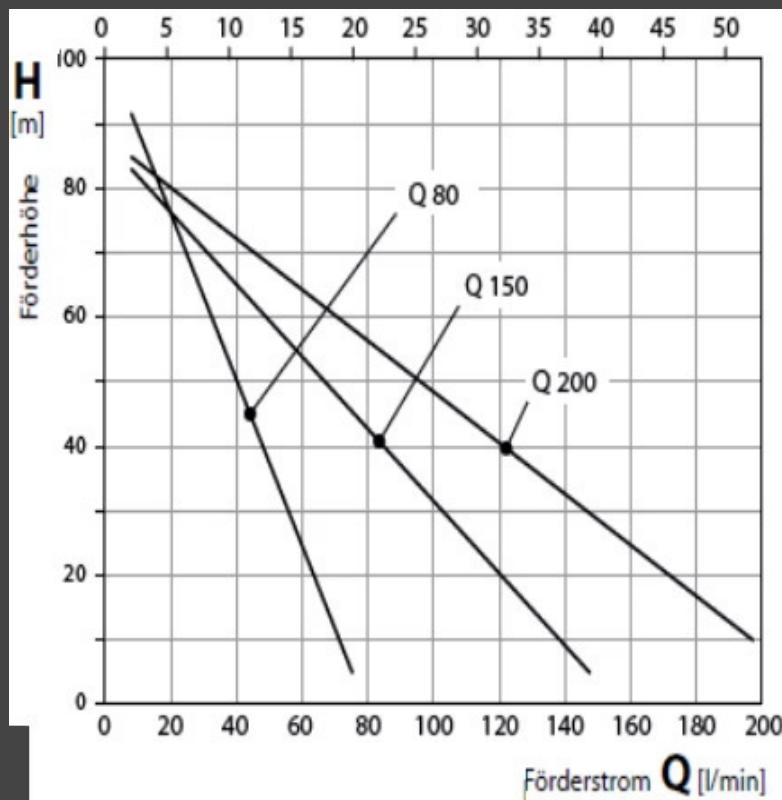
is how much heat-transfer liquid moves through your system. The right flow ensures your molds or tooling heat up and cool down evenly, so every part meets your quality standards. Too little flow slows production; too much wastes energy without improving results.

PRESSURE (BAR)

is the force that drives the liquid through your entire circuit — through hoses, fittings, and narrow channels. Without enough pressure, temperature will vary and defects can appear. Too much pressure can wear out seals and hoses, leading to unplanned downtime.

At Boe-Therm, every pump option is tested and proven for industrial duty. By finding the point on the **pump diagram** where your required flow meets your system's resistance, you can select the pump that delivers **peak efficiency and long service life.**

In short: The right pump configuration means **better parts, less scrap, faster throughput, and more uptime** — every day your TCU is running.



STANDARD FEATURES

The TEMP 350L comes equipped with a comprehensive suite of standard features designed to optimize performance, ensure safety, and simplify maintenance. These integrated functionalities address common industrial needs, providing a reliable and efficient temperature control solution right out of the box.

AUTOMATIC RESTART

In the event of a power interruption, the unit automatically restarts and resumes its previous operating parameters once power is restored. This minimizes manual intervention and prevents process disruptions, ensuring continuous production.

ALARM

An audible and visual alarm system notifies operators immediately if the process temperature deviates from the set point by a configurable margin. This proactive alert system helps prevent material spoilage and equipment damage.

ISOLATION AGAINST LOSS OF HEAT

Enhanced insulation and design features minimize heat dissipation from the oil circuit, maintaining stable process temperatures. This ensures energy efficiency and reduces the operational load on the heating elements.

TOUCH DISPLAY

Set and maintain precise temperatures effortlessly with our Touch Controller, ensuring accuracy within $\pm 0.1^\circ\text{C}$. The controller further offers Service Indicator to track operating hours, facilitating proactive maintenance.

AUTOMATIC COOL DOWN FUNCTION

Automatically lowers the process temperature to a safe level upon completion of a batch or at the end of a shift, saving energy and preparing the unit for the next cycle.

SEAMLESS INTEGRATION WITH INDUSTRIAL NETWORKS

In today's interconnected industrial landscape, seamless communication is paramount. All Boe-Therm units offer a variety of optional industrial network interfaces, ensuring that the units can be fully integrated into existing plant automation systems for centralized control, data acquisition, and remote monitoring.



ETHERNET/IP

For high-speed, real-time data exchange and robust integration with Rockwell Automation systems.



PROFINET

A leading industrial Ethernet standard, providing deterministic communication for Siemens and other compatible PLCs.



SERIAL INTERFACE 20 MA CL

Provides a reliable serial communication standard with current loop capability, suitable for long-distance and noisy industrial environments.



PROFIBUS

A widely adopted fieldbus standard for reliable communication in process and factory automation environments.



DEVICENET

A low-cost, open-level network for industrial devices, offering efficient data transfer for a broad range of applications.



ANALOG INTERFACE 0-10V

Provides a standard analog signal output for integration with legacy control systems or for precise proportional control.



ANALOG INTERFACE 4-20 MA

Provides a standard analog signal output for integration with legacy control systems or for precise proportional control.

These integration options empower facilities to achieve greater process transparency, facilitate predictive maintenance, and respond more rapidly to changing production demands, ultimately leading to higher operational efficiency and reduced manual oversight.

BOE-THERM: A LEGACY OF INDUSTRIAL INNOVATION

Boe-Therm A/S stands as a testament to Danish engineering excellence, with a rich history rooted in the design and manufacturing of high-quality temperature control solutions. For decades, Boe-Therm has been a trusted partner for industries worldwide, consistently delivering reliable, durable and energy-efficient units that meet the rigorous demands of modern manufacturing.

"Since our founding in 1961, Boe-Therm has accumulated over sixty years of invaluable experience, deeply shaping our understanding of diverse industrial needs. This legacy enables our customer-centric approach, allowing us to deliver flexible, tailored solutions that precisely optimize production, enhance product quality, and reduce operational costs for our clients across various sectors."

- Thomas Hass Thomsen, CEO, Boe-Therm A/S

Based in Assens, Denmark, Boe-Therm's expertise is reflected in every product, from meticulous design to robust construction, ensuring that each unit serves as a dependable cornerstone in your industrial operations.

CONTACT INFORMATION AND SUPPORT

For further inquiries, technical support, or to discuss how our TCUs can optimize your specific industrial processes, please reach out to Boe-Therm directly. Their team of experts is ready to provide comprehensive assistance and tailored solutions.



BOE-THERM A/S

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ONLINE RESOURCES

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Visit the official Boe-Therm website for detailed product brochures, technical documentation, and the latest updates on their innovative temperature control solutions.