

autotherm Temperature Control Units Medium Thermal Oil

autotherm temperature control units Type AT for thermal oil offer customized solutions for precise temperature control in the most demanding industrial and research environments. By combining cutting-edge technology with high adaptability, we ensure reliable and energy-efficient temperature regulation across a wide temperature range from -40°C to +350°C.

Key Features of Thermal Oil Temperature Control Units:

- Heating elements: Low surface load ($< 2,1 \text{ W/cm}^2$) for maximum service life
- Thermal oil pumps: High delivery rate for uniform temperature distribution
- Integrated fill and expansion tanks: Prevent contact of oil with atmospheric oxygen
- Cooling: Demand-based cooling via bypass circuit of heat exchangers for high cooling capacities

Your Benefits at a Glance:

- **Reliable temperature control** – precise regulation for machines and processes in industry and research
- **Robust design** – proven for continuous operation in thermal oil systems
- **High performance** – Heating capacities from 1,5kW to 300kW
– Cooling capacities from 0,5kW to 500kW
- **Easy commissioning** – delivered ready for connection and factory-tested
- **Flexible customization** – from standard solutions to tailor-made designs
- **Direct contact with the manufacturer** – development, production, and service in Bad Königshofen



Technical Information

Type			AT											
Max. supply temperature. [°C]			160		200			250		300		350		
Befüllung			manual		manual									
Heating capacity [kW]			4,5	6	6	9	12	18	24	36	48			
Pump Type			Tp1		Tp1			Tp2			Tp3			
Max. delivery head [mWs]			5,5		5,5			2,6			4,0			
Max. flow rate [m³/h]			1,8		1,8			16			16			
Motor power [kW]			0,55		0,55			2,2			2,2			
Expansion tank volume [l]			6		12			30						
Temperature control			PID microprocessor controller with PT100 DIN sensor											
Connection voltage			3/PE AC 50 Hz 400 V											
Consumer connection			1/2"		1/2"			Flange DN32 PN16						
Water connection			3/8"		3/8"									
Dimensions			300		380			500			600			
Width [mm]			300		380			500			600			
Depth [mm]			760		760			1100			1100			
Height [mm]			630		750			1100			1100			

Cooling Options (freely selectable for all device configurations above)	Type	Cooling Capacity at Medium Temperature			
		50°C	90°C	140°C	200°C
Water Cooling	Standard (stainless steel tube bundle)	1,7 kW	5,2 kW	9,9 kW	16,3 kW
Cooling water temperature 15°C	VK (enhanced cooling)	per additional cooler			
Flow rate: 4 l/min (+4 l/min per additional cooler)		+1,5 kW	+4,7 kW	+9,3 kW	+15 kW
Air Cooling	LK (at 22°C ambient temperature)	---	1,6 kW	3,2 kW	5,2 kW

Optional and Additional Equipment – Feel Free to Contact us

Speed-controlled pumps • Flow measurement and monitoring • Multi-circuit systems • Extended pump, heating and cooling capacities • Enlarged expansion volumes • External temperature control • Return pumping of thermal oil • Integration with customer-specific interfaces • Special working voltages and frequencies • Custom paint finishes in RAL colors • Electrical control systems built to customer specifications