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RHYTEMPER® temperature control units

TEMPERATURE CONTROL UNITS



Innovative technology that pays off in a very short time – to the delight of both technical and commercial company executives.

More than 1 300 satisfied customers worldwide trust our products and benefit from our technology every day.

The great savings potential of our technology allows **amortisation time usually of less than 1 year.**

## PRECISE TEMPERATURE MANAGEMENT

### REFERENCES



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Do you have any questions?  
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PRECISE TEMPERATURE  
MANAGEMENT



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HIGH PERFORMANCE  
TEMPERATURE CONTROL UNITS



The high performance temperature control units by ONI Temperiertechnik RHYTEMPER® GmbH are ideal for deployment as stand-alone units or still more efficiently in conjunction with an ONI temperature unit.

Our units with individual, customized equipment variants are successfully established in plastics and metal processing. By virtue of the appropriate spectrum of equipment variants and space saving dimensions, the majority of the performance classes from medium to large flow rate range are covered. Separate specifications are possible on enquiry.

Our equipment is highly efficient due to the use of multiple-stage centrifugal pumps, and in conjunction with frequency regulation, can be optimally controlled to the necessary flow rates, which leads to significant energy savings. By means of an ideally designed heating with very little surface loading as well as the monitoring of each heat zone and the deployment of solid state relays (SSRs) in conjunction with a PLC controller, the equipment is state-of-the-art technology and provides all the common interfaces.

The series RHY-T95 and RHY-HighT160 equipment comprises direct cooled, high performance temperature control units for up to 95 °C and 160 °C with a very high cooling capacity and a closed stainless steel tank.

These are fitted with enlarged internal stainless steel pipework and equipment connections to the consumers up to 2 inch.

Via the interface, the temperature control unit can be connected to the RHYTEMPER® FlowControl, FlexControl, FlowWatch or HotPulse regulating unit for communication and used for remote adjustment.



User friendly PLC controller with 7 inch touchscreen display

### Standard configuration

- user friendly PLC controller with 7 inch touchscreen display
- digital interface RS485
- robust, powder coated housing for industrial use in RAL 7016 / 5002; special colours on request
- standard execution on equipment castors
- corrosion resistant stainless steel / brass materials
- heating control via SSRs
- highly corrosion resistant alloy heating elements
- filter on the temperature equipment inlet and also in the consumer return included
- 5 metre connecting lead with CEE plug
- safety temperature limiter
- multiple-stage centrifugal pumps with energy saving motors
- electrical cabinet with IP54 protection class
- fully automatic vent

From us you get a **complete** temperature control unit for immediate start of production.

### Optional equipment

- pump motor frequency regulation
- shut-off valves
- heat exchanger for indirect cooling
- analogue or digital interfaces (4–20 mA, Profinet, OPC UA etc.)
- housing type in stainless steel
- all media-contacting components in stainless steel



RHY-T95 L

RHY-HighT160 L

### Specifications | Technical features

TEMPERATURE CONTROL UNITS		SERIES RHY-T95 M	SERIES RHY-T95 L	RHY-HIGHT160 L
max. water temperature	°C	95	95	160
heating capacity	kW	6 / 12 / 18 / 24	9 / 18 / 27 / 36 / 45 / 54 / 72	18 / 36 / 54 / 72
max. cooling capacity direct/ indirect (ΔT=130K)	kW	220/150 (at 45 l/min)	370/300 (at 75 l/min)	220/150 (at 25 l/min); 400/290 (at 45 l/min)
max. operating pressure	bar	11,3	12,2	8,8
max. flow	m³/h	18,1	28,0	35,0
operating voltage		400 V AC   3~ PE   50 Hz special voltage optional	400 V AC   3~ PE   50 Hz special voltage optional	400 V AC   3~ PE   50 Hz special voltage optional
connection consumer group	inch	1; 1 ½	2	2
connections cooling water circuit	inch	¾	1	¾ (at 25 l/min); 1 (at 45 l/min)
dimension: length (with connection fitting)	mm	974 (1145)	1212 (1412)	1362 (1594)
width	mm	390	500	500
height (with eyebolt)	mm	785	1275 (1320)	1425 (1470)
empty weight	kg	150 – 200	250 – 350	400 – 450