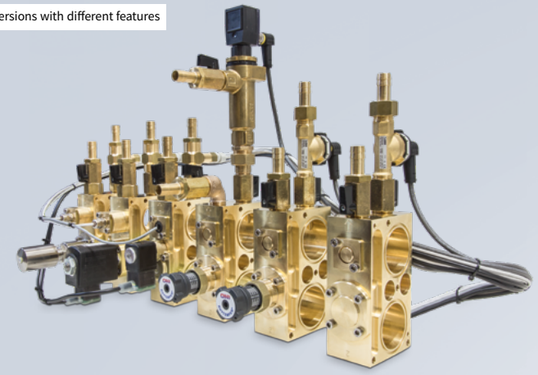
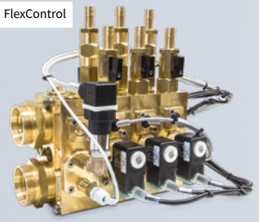
Versions with different features



ONI Temperiertechnik RHYTEMPER®

PRECISE TEMPERATURE MANAGEMENT

FlexControl



FlowControl

FlowWatch

For more information use the QR-Code
RHYTEMPER® Temperature control units – injection molding

INJECTION MOLDING

FlowWatch // FlowControl // FlexControl
HotPulse // Temperature contol units

ONI Temperiertechnik RHYTEMPER®

TEMPERATURE CONTROL UNITS
Tool emptying and pre-heating

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.**

REFERENCES

Volkswagen, GROHE, Sumitomo SHI DEMAG, ZKW, Audi, MAHLE Driven by performance, Krauss Maffei, POLYTEC GROUP, Mercedes-Benz, faurecia, FRESENIUS KABI, pollmann INTERNATIONAL

Do you have any questions?
Contact us: +49 35952 41100

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PRECISE TEMPERATURE MANAGEMENT

Temperature control units 6 – 72 KW

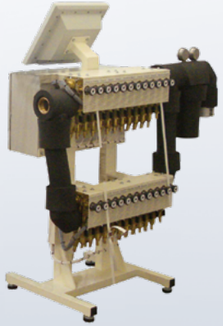
Serial and special temperature control units with the circulating media water and oil in the temperature range from 20 – 160 °C.

TECHNICAL FEATURES

- high conveyor volume up to 35 m^3/h
- high pump pressure up to 12 bar
- large connection widths up to 2 inch
- stainless steel tubing
- option: pneumatic water evacuation
- pump according to latest energy standards

Tool emptying via compressed air

Individual tool preheating station



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TEMPERING FOR INJECTION MOLDING

MADE IN GERMANY

ONI Temperiertechnik RHYTEMPER®

Flow rate and temperature monitoring

The RHYTEMPER® FlowWatch is a water distributor made of corrosion-free material for flow rate and temperature monitoring of several individual circuits.

TECHNICAL FEATURES

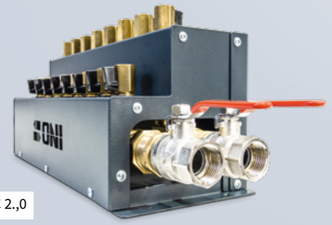
- compact components in brass
- space-saving machine integration
- installation close to the tool
- individual circuit labelling
- flow rate calibration of each tool circuit
- option: flow rate control of the circuits by hand valve

Specifications

FlowWatch BASIC 2.0

low-cost system for self-assembly

- rugged build, contained in metal housing
- visualization Basic or Midi available
- 4-, 6-, 8-, 10- or 12-way components aviallable
- flow rate measurement without mechanically rotating parts (vortex)
- temperature and flow-rate monitoring of every
- cooling circuit by limit determination
- maximum media temperature up to 125 °C
- measuring range between 1.8 and 32 l/min or 1.0 and 15 l/min
- tool data record management
- option: forerun pressure and forerun temperature recording
- option: hand regulation valve per circuit



FlowWatch BASIC 2.,0

FlowWatch STANDARD

Expansion of the BASIC Version

- modular build
- visualization Basic, Midi or Profi available
- measuring principle turbine , vortex or ultrasonic
- maximum media temperature up to 160 °C (turbine)
- measured range depending on measuring principle between 0.3 and 75 l/min
- expandable to the multi-circuit temperature adjustment systems FlowControl, FlexControlor HotPulse

FlowWatch PROFESSIONAL

Expansion of the STANDARD Version

- incl. SPS control unit
- incl. handvalve per circulation

Visualization

Basic

- incl. 4.3 inch touchscreen
- suitable for FlowWatch

Midi

- incl. 5.7 inch touchscreen
- suitable for FlowWatch

Profi

- incl. 10.4 inch touchscreen
- suitable for FlowWatch, FlowControl, FlexControl and HotPulse

Multi-circuit temperature adjustment

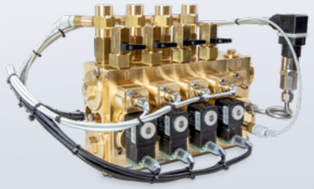
The self-optimizing systems of the RHYTEMPER® multi-circuit temperature adjustment regulate the heat content of each individual tempering zone of the injection-moulding tool. The aim is to distribute continuously the same amount of heat per cycle. This guarantees a consistently quality of the injection-moulding products as well as the shortest cycle times.

TECHNICAL FEATURES

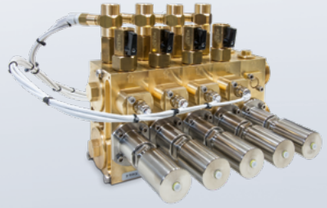
- compact components in brass
- incl. 10.4 inch TFT visualization Profi
- space-saving machine integration
- installation close to the tool
- individual circuit labelling
- heat level and flow rate monitoring of an unlimited number of temperature circuits
- automatic adjustment of the cooling impulses to the current injection moulding process (selfoptimizing control)
- interruption of heat withdrawal during injection and the tool movement, reducing of weld line formation
- largest possible flow rate through 1 ½ inch water collection
- combination with a temperature adjustment devices, cooling network or other sytems possible flow-rate calibration of each tool circuit
- balancing contact situation as well as compressive strength within all stages of expansion

FlowControl // proportional valve

FlexControl // magnetic valve



HotPulse // peumatic valve



SPECIFICATIONS | TECHNICAL FEATURES

FlowControl – continious flow rate control			
circulation control	proportional valve		
measuring principle	**turbine**	**vortex**	**ultrasonic**
measuring range flow rate	0.3 – 40 l/min	1.8 – 32 l/min 1.0 – 15 l/min	0.3 – 75 l/min
max. medium temperature	85 / 140 °C	125 °C	100 °C
measuring medium	water		
connection main media low	1 ½ inch IG		
connection consumer group	½ inch IG		
rated pressure	PN 10		

FlexControl – impulse temperature adjustment			
circulation control	magnetic valve		
measuring principle	**turbine**	**vortex**	**ultrasonic**
measuring range flow rate	0.3 – 40 l/min	1.8 – 32 l/min 1.0 – 15 l/min	0.3 – 75 l/min
max. medium temperature	85 °C / 130 °C	125 °C	100 °C
measuring medium	water		
connection consumer group	½ inch IG		
rated pressure	PN 10		

HotPulse – impulse temperature adjustment	
circulation control	pneumatic valve
measuring principle	turbine
measuring range flow rate	0.3 – 40 l/min
max. medium temperature	160 °C
measuring medium	water
connection consumer group	½ inch IG
rated pressure	PN 16