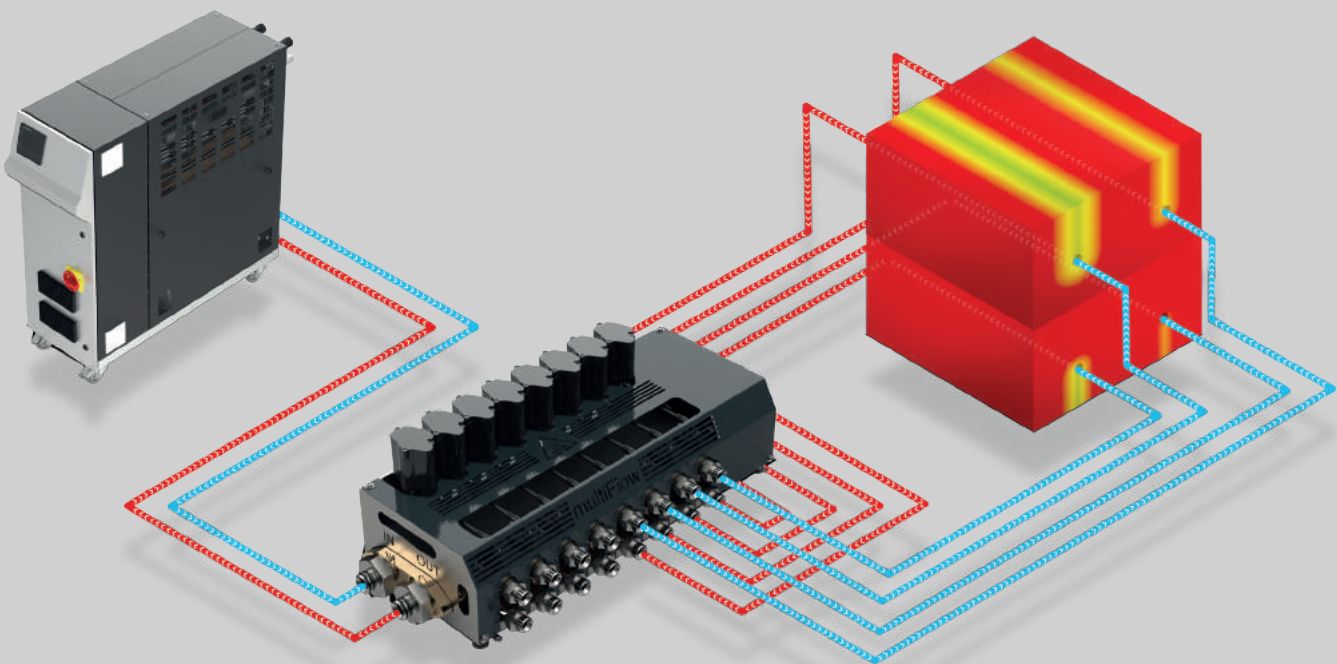


REGLOPLAS 

multiFlow multiple distributor systems for plastic processing

Flexible temperature control solutions
for demanding applications



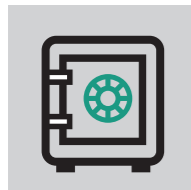
Customised temperature control solutions for demanding applications

REGLOPLAS multiFlow solutions enable you to achieve faster cycle times, more reliable process control and more flexible temperature control with your tools, with up to 48 channels that are individually controlled and monitored. In addition, it reduces the number of temperature control units and consequently the space required.

multiFlow features

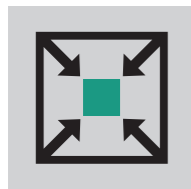
- Individual parameter settings for up to 48 channels
- Flow rate or Delta T control
- Channels monitored individually (flow rate, temperature)
- Automatic demand-driven control of pump output
- Oil up to 350 °C and water up to 230 °C
- Control via temperature control unit or stand-alone

Sustainable use with REGLOPLAS



Cost saving

You save thanks to lower investment and quality costs, as well as lower power consumption.



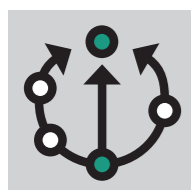
Space saving

You need less space because the number of temperature control units is reduced.



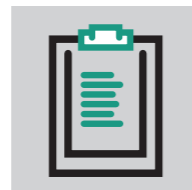
Monitoring

The system monitors individual channels, checking their function, as well as blockages or contamination.



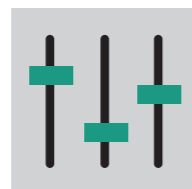
Flexibility

The temperature control can be individually and flexibly adapted to your needs and parameters.



Measurement and documentation

Process parameters such as flow rate and temperature are measured and displayed for each temperature control channel.



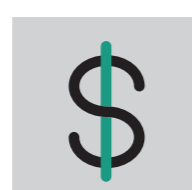
Individual control

It is possible to control the flow rate or Delta T individually for each temperature control channel.



Quality assurance

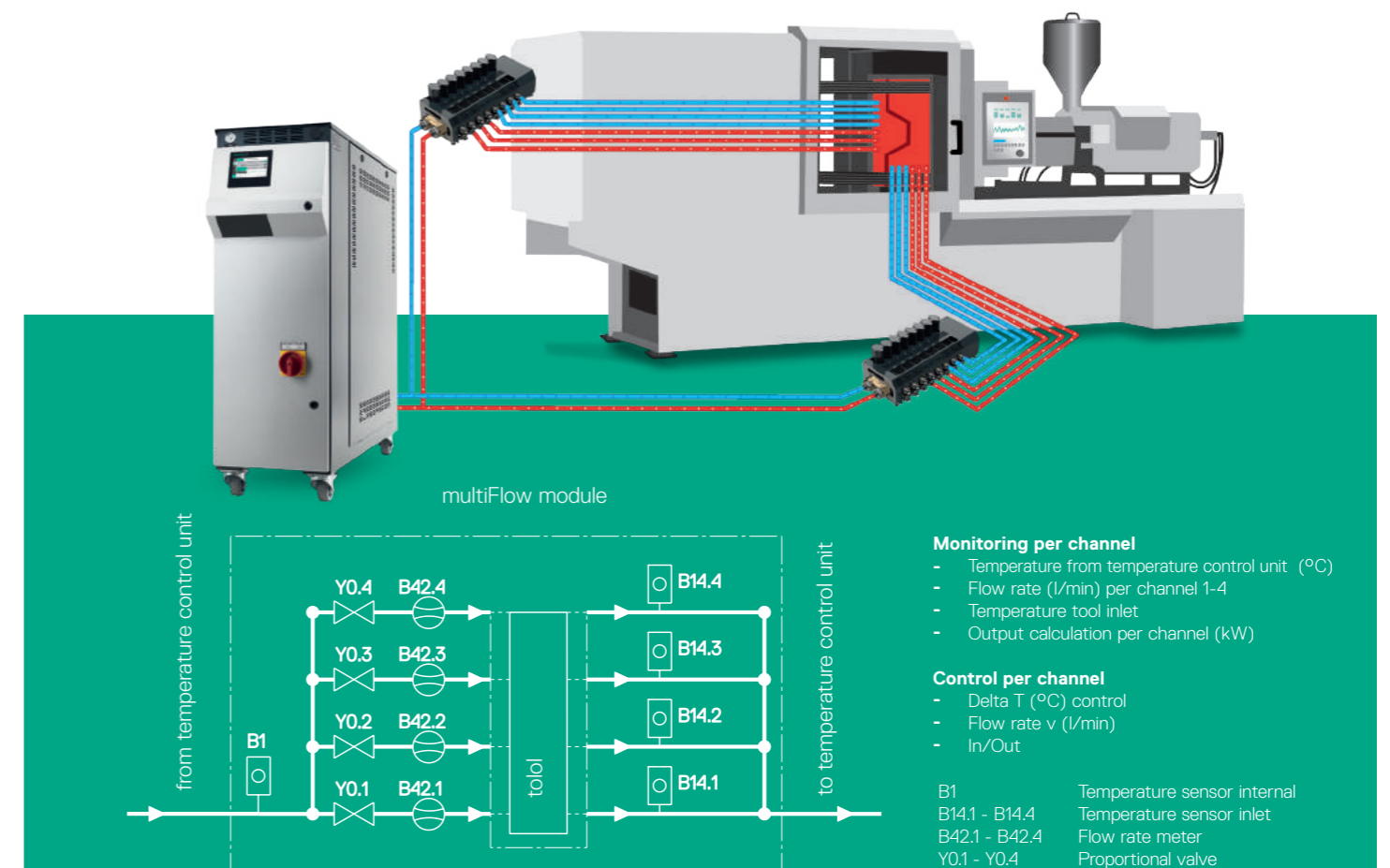
With process monitoring and alarm messages in the event of deviations, you ensure your product quality over the long term.



Lower unit costs

With optimised process parameters you increase the throughput and with process monitoring you avoid rejects.

Multiple distributor principle



Versions and features multiFlow

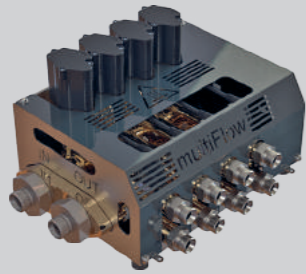
multiFlow modular

- Up to 160 °C with water
- Up to 48-fold distributor (4-fold modules)
- Automatic control with proportional valve
- Installation close to the tool
- Individual flow control per channel
- Delta T control per channel

Control

- via temperature control unit
- Stand-alone via REGLOPLAS RT200

multiFlow modular
4-fold automatic



multiFlow compact

- up to 230 °C with water
- up to 350°C with oil
- 4- or 8-fold distributor
- Automatic control with proportional valve
- Manually with ball valve or hand valve
- Installation on the temperature control unit or close to the tool
- Individual flow control per channel
- Delta T control per channel

Control

- via temperature control unit
- Stand-alone via REGLOPLAS RT200

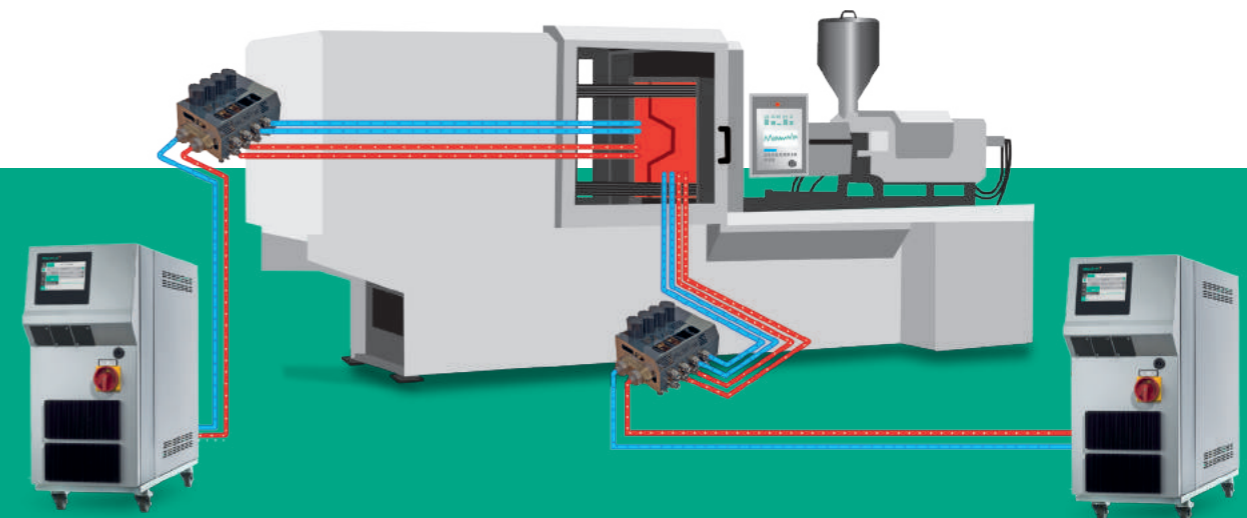
multiFlow compact
4-fold automatic



Application examples

Application example 1

Tool	1.4 T
Channels	2 x 4
Moulded part weight	0.5 kg
Cycle time	15 s
Temperature control unit	2 x P160M
multiple distributor	2 x multiFlow modular, 4-fold automatic

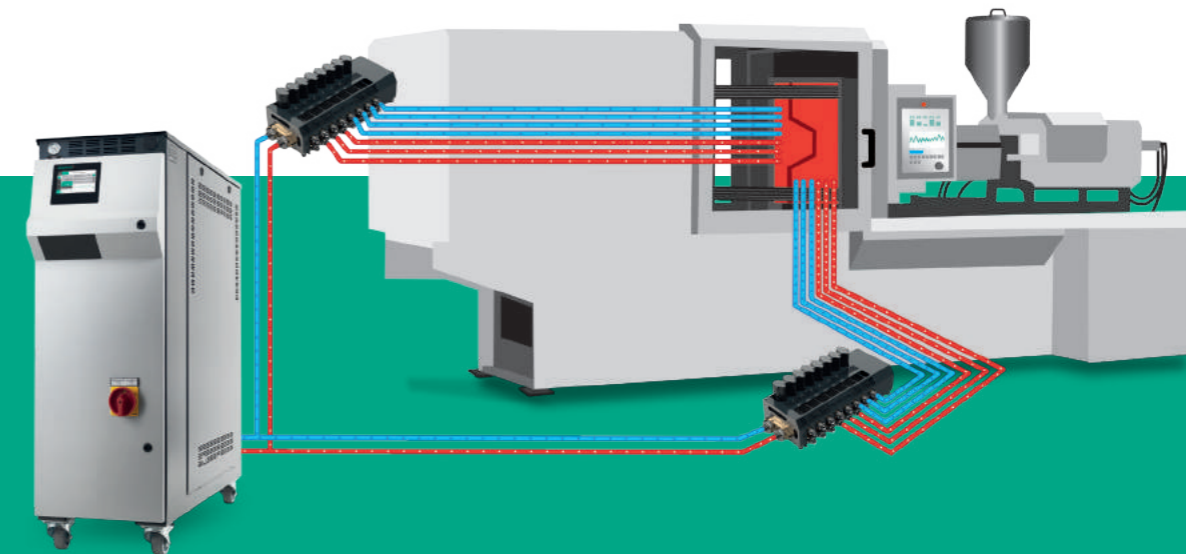


Advantages with multiFlow

- 2 instead of 4 temperature control units
- Monitoring of each channel individually
- Operation of the temperature control units and multiple distributors directly from the injection moulding machine
- short hose connections to the tool
- Less space required and reduced installation expenditure
- Detection and alarm in the event of obstruction or deviation
- Lower quality and unit costs
- Pressure control with frequency converter
- Delta T (°C) control

Application example 2

Tool	0.4 T
Channels	2 x 8
Moulded part weight	0.5 kg
Cycle time	12 s
Temperature control unit	1 x 90XL
multiple distributor	2 x multiFlow modular, 8-fold automatic



Advantages with multiFlow

- 1 instead of 2 temperature control units
- Monitoring of each channel individually
- Half the number of hoses, short hose connections to the tool
- Less space required
- Reduced installation expenditure
- Detection and alarm in the event of obstruction or deviation
- Lower quality and unit costs
- Pressure control with frequency converter
- Delta T (°C) control

Product details

	Medium		Max. Temperature °C					Number of channels					Version				Flow meter		Assembly		Control						
	Water	Oil	120	160	180	230	350	4	8	12	16	...	up to 48	Flow rate (l/m)	Delta T (°C)	Ball valve *3	Hand valve *4	IFM (0.3 - 25 l/min)	F181 (3 - 30 l/min)	F351 (8.5 - 85 l/min)	VFS (1-18 l/min)	VFS (2-40 l/min)	On TCU *5	Tool/ Machine	TCU *6	Stand-alone RT200 *7	
multiFlow modular Spritzguss																											
Automatic *2																											
Manual																											
multiFlow compact																											
Automatic *2																											
Manual																											
Manual																											
Manual																											
Manual																											

Notes

- 1 Combination of multiple distributors in 4-fold and 8-fold size
- 2 Temperature control unit (TCU) with option «variable pump pressure» and «separate system and cooling water» required
- 3 Ball valve only for open or closed position
- 4 Hand valve with adjustable flow rate
- 5 Direct assembly on the temperature control unit possible
- 6 multiFlow multiple distributor is controlled by the temperature control unit (TCU)
- 7 multiFlow multiple distributor is controlled by a separate RT200 controller (stand-alone, without REGLOPLAS temperature control unit)

Accessories

- In the case of stand-alone, the RT200 controller plus accessories must be ordered
- Hose material, T-pieces and other accessories must be ordered separately

Water conditioning and temperature control units (TCU)

Water conditioning with REGLOPLAS waterCare

For applications at higher water temperatures, above 140 °C, water conditioning is essential. In addition, the use of conditioned water with additives is absolutely necessary, depending on the existing water conditioning. Soiling and calcification of the tool and temperature control unit lead to poorer performance due to the reduction in the heat transfer between tool, heating and the temperature control medium. It also shortens the service life of the components and leads to more maintenance costs. The REGLOPLAS waterCare is a mobile water conditioning system which provides suitable conditioned system water in a space-saving manner. This prevents corrosion, soiling and calcification and reduces maintenance and cleaning costs for temperature control units.



- Energy efficiency thanks to pressure accumulation
- Minimum pump switch-on duration
- Controlled system water temperature
- Capacity 23 litres
- Siemens PLC control

REGLOPLAS cleaning agents

- REM93 Descaling agent
- SR80 System cleaner

REGLOPLAS additives

- RK93 Corrosion inhibitor
- RK100 Corrosion inhibitor specific for aluminium
- RK-HT Corrosion protection from 160 °C

TCU for multiple distributor systems

Thanks to the wide range of REGLOPLAS temperature control units, there is a suitable custom solution for every multiFlow application. Talk to our specialists!

Open bath water/ oil units *all XL units	Pressurised water units *all M-XL units	High temperature oil units *300MD, 300L(D), 350L(D)
--	---	---

* With options: Variable pump pressure control, separate water connections and multiFlow interface.



Regloplas AG
Flurhofstrasse 158
P.O. Box
9006 St.Gallen
Switzerland
Phone +41 71 282 58 00
E-mail info@regloplas.com

www.regloplas.com

Art.-No.: 500-100058 - INFO 3541-2104