Kuwatec
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REGLOPLAS temperature control units with VARIO

Customised for high flexibility

VARIO at a glance:

- Robust, customised applications and a low-cost system for variothermal uses with water up to 200°C.
- A flexible system for variothermal and standard applications thanks to a modular set-up on the basis of standard temperature control units.
- Variothermal applications with tool-related flows and back-flows to minimise energy losses. An additional option to further reduce costs is available in the form of an energy battery.
- Energy-saving, shorter heating and cooling phases thanks to consistent separation of cold and hot water circuits.
- Robust and durable construction.

The REGLOPLAS VARIO switching unit to control variothermal temperatures when manufacturing injection-moulded and composite parts can be flexibly used depending on the application. The VARIO system can be implemented together with REGLOPLAS standard temperature control units and thus can be deployed modularly. Tool-related flows and back-flows minimise energy losses and provide optimised heating and cooling phases.

Those who produce sophisticated injection-moulded and composite parts with high-gloss surfaces, for example for flat screens or mobile phone casings, need to satisfy extremely high quality demands without any welding lines or irregularities. The higher the temperatures during production are, the better these demands can be met. And the faster the change between the heating and cooling phases and less losses there are, the more efficient and energy-saving production is.

Flexibility thanks to modular usage possibilities

With VARIO, REGLOPLAS offers the ideal solution for these demands. The switching unit can be equipped with two standard temperature control units, which are required for variothermal production. This allows REGLOPLAS to offer customised solutions to customers. «Our temperature control units are suitable for both variothermal and standard applications», emphasised Christian Eckert, managing director of REGLOPLAS. «If you do not know whether you can produce variothermally, you definitely win with our system due to its flexibility because it does not collect all the components within one large unit.»

Reduced costs thanks to savings

Because VARIO separates the cold and hot water circuits, the cooling and heating phases are shorter and energy consumption is correspondingly lower. Thanks to the fact that the VARIO is modular and space-saving, it further minimises energy losses related to flows and back-flows. «VARIO is a simple, custom-deployable and attractively priced system», concludes Andreas Kuhn, Development Manager at REGLOPLAS. He also points out that use of an energy battery module is possible, yet again reducing energy consumption.

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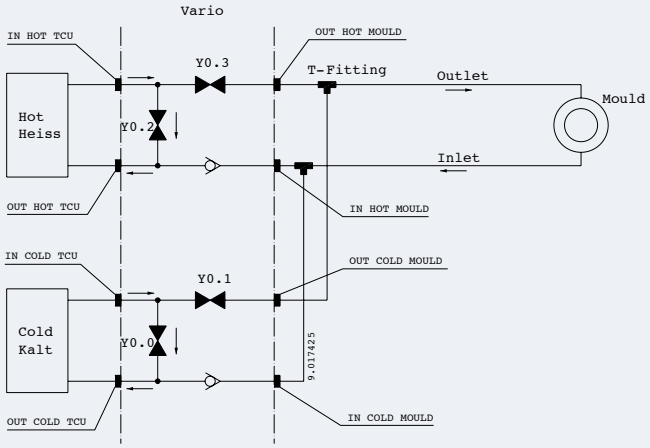

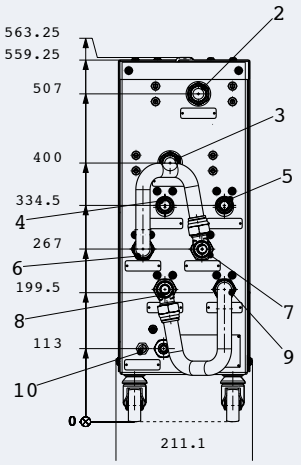

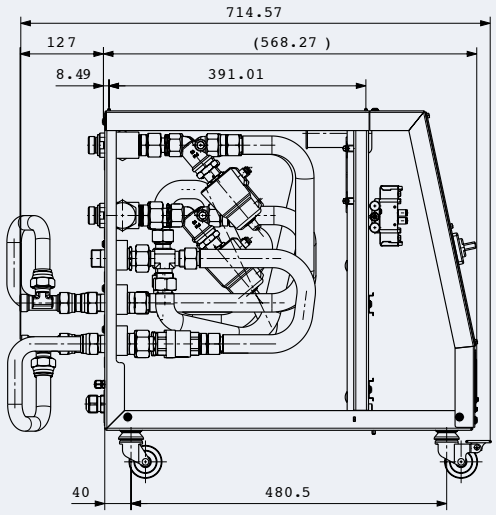

1 (Main switch on the front)
2 Inlet temperature control unit HOT
3 Inlet temperature control unit COLD
4 Outlet temperature control unit COLD
5 Outlet temperature control unit HOT
6 Inlet consumer COLD
7 Inlet consumer HOT
8 Outlet consumer COLD
9 Outlet consmer HOT
10 Pressure-controlled valves

Widely applicable thanks to the large spectrum

The VARIO is combinable with the full range of REGLOPLAS temperature control units. The range covers units for applications with water up to 200°C and with oil to 300°C. «The stable and durably constructed system can be used in injection-moulding as well as composite processes», explained Mr. Kuhn. «In the end, the design and the dimensions of the temperature control channels in the tools are crucial for successful use of dynamic temperature control. These must follow the contours as much as possible.»

Universal and customised

The REGLOPLAS product range includes high-performance temperature control units for water and heat-transfer oil – with standard and special equipment, or custom designs – as well as different control systems and extensive accessories. REGLOPLAS units have a universal utilisation and application standard. All systems however can be customised and adjusted to customer specifications, regardless of the market. VARIO further expands the range of options for the RT100 regulation system. Quick and flexible changing between «cold» and «hot» in order to produce variothermally. The REGLOPLAS VARIO switching unit makes it easy.

REGLOPLAS AG – a guarantee of quality and innovation

REGLOPLAS has specialised in the development and production of temperature control units for over 50 years. Customers benefit from the firm's extensive expertise and tremendous know-how in terms of advice, development and unit application possibilities. Based in St. Gallen, the company guarantees advanced and reliable Swiss precision and quality. Although the company is globally active, your contact person at Customer Service is not far away. Our own service technicians help customers with questions.

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