

single

created for your perfection

WP4 – SERIES WATER TEMPERATURE CONTROL UNIT 90 °C – 200 °C



EFFICIENT PERFORMANCE

WP4 SERIES

It's the inner values that matter: In the WP4 series we use only high-quality materials and innovative technology. Stainless steel, non-ferrous metal and well-thought-out construction ensure a long service life. Intelligent control allows the WP4 units operate with maximum safety and efficiency.

SERVICE PROFESSIONAL

- **THOUGHT-THROUGH:** All components highly accessible
- **PRACTICAL:** Quick change from parts

LONG – DISTANCE RUNNER

- **STAINLESS:** Pipelines and tanks made of stainless steel/non-ferrous metal
- **DURABLE:** Long service life through thermal optimization
- **ROBUST:** Powder-coated sheet steel housing
- **SAFE:** Control box temperature monitoring
- **INTELLIGENT:** Heating control with SSR

SEAL HOLDS

- **PROTECTED:** Switch cabinet IP54

MAKE POSSIBLE

- **ADAPTABLE:** Can be upgraded on site
- **SIMPLE:** Tool emptying with compressed air (optional)
- **RELIABLE:** Integrated backflow protection

CLEANER

- **CLEVER:** Continuous bypass of the heat exchanger
- **CONSISTENT:** No pressure shocks in the cooling water
- **IDEAL:** Evaporation-free, calcification-free

KEY PLAYERS

- **RESSURE FULL:** Powerful centrifugal pump also for high flow rates

WISHES FULFILLMENT

- **THE FIT:** many optional extras, extensive options and accessories

SAVING MASTER

- **EFFICIENT:** innovative, economical centrifugal pumps
- **INTELLIGENT:** Frequency controlled pump with Speed control saves up to 70 percent energy (optional)
- **THOUGHT-THROUGH:** Insulation saves 588 W Power loss (at 150°C)

SIMPLE MAKER

- **VOICE:** Booster pump for correct water quantity at any temperature (Series 180 °C and 200 °C, for 150 °C optional)

SMART

- **INTELLIGENT:** latest technology for simple Operation and advanced control
- **SCHLAU:** thanks to Smart Controller Industry 4.0 capable (optional)
- **INNOVATIVE:** latest interface OPC UA Euromap 82.1 (optional)

SECURITY TYPE

- **RELIABLE:** redundant temperature sensors
- **CONTROLLED:** each heater is thermally controlled
- **CONTROLLED:** electronic pressure monitoring in the instrument and pressure gauge on the back of the instrument
- **CERTIFIED:** TÜV-approved safety valve
- **MONITORED:** Temperature limiter for Operational safety (optional/200°C series)

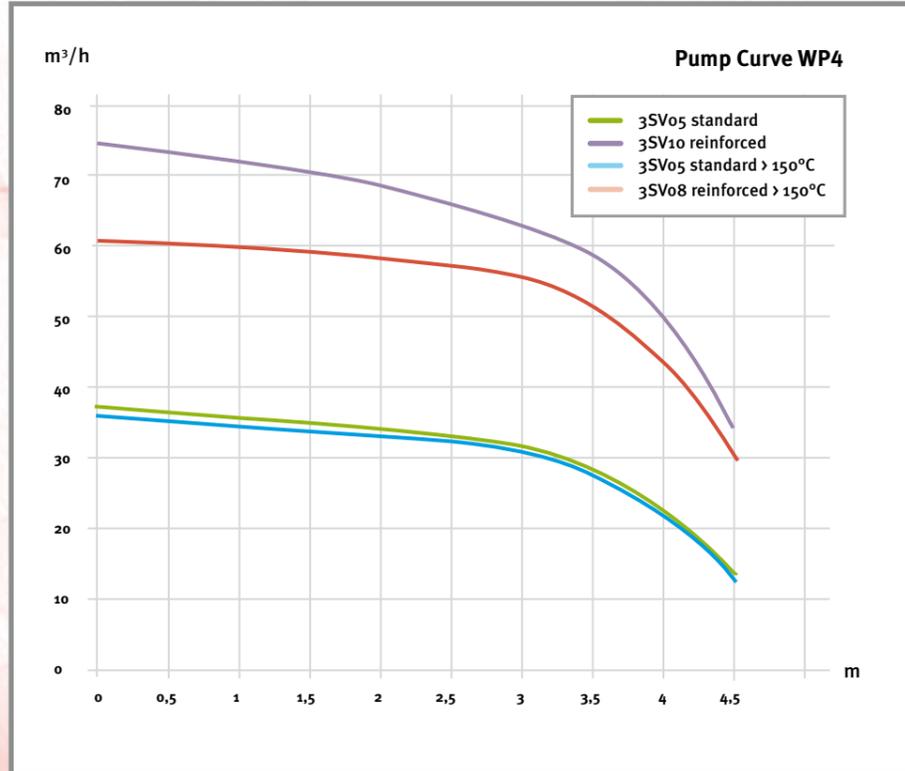
EXACTLY

- **PRECISE:** exact mixing through 3-way valve. Series at 180°/200°
- **ADJUSTED:** PID controller with self-tuning
- **EXACT:** Heating control via SSR
- **SAVE:** Process control via flow measurement plus condition monitoring via 4 temperature sensors



STRONG THING: THE WP4 SERIES

The WP4 - water temperature control units for applications and requirements in the medium to upper performance range and Temperatures up to 200 °C are particularly common in plastic injection moulding, but are also used in other processes. They are suitable for temperature control of high quality applications and enable documentation of process - parameters.

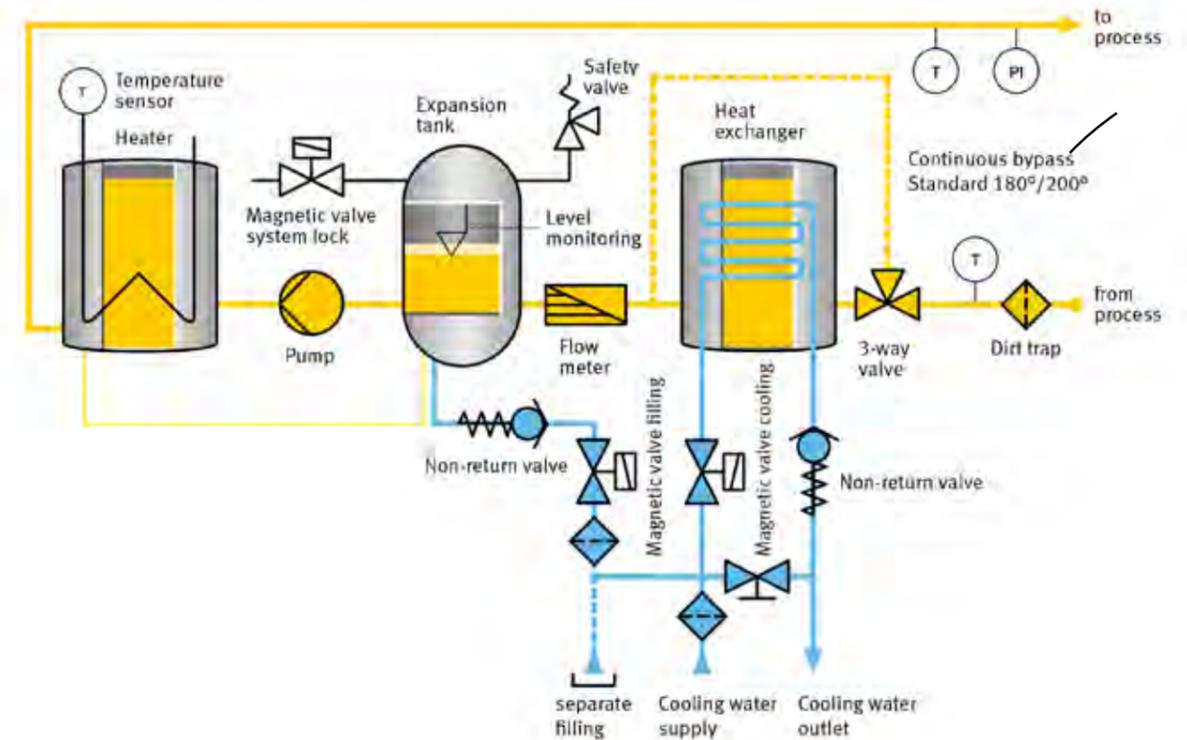


TECHNICAL DATA

		WP4-90°C	WP4-150°C	WP4-180°C	WP4-200°C
Temperature range max.	°C	90	150	180	200
Medium	water	water	water	water	water
Max. external volume	l	92	31	20	14
Heating capacity	kW	9, 18, 24	9, 18, 24	9, 18, 24	9, 18, 24
Type of cooling	direct/indirect	direct/indirect	indirect	indirect	indirect
Kühlleistung (150°C Vorlauf/15°C Kühlwasser)	kW	0/120	0/120	0/120	0/120
Max. flow rate	l/min	73	73	73	73
Max. pressure	bar	3,7/7,5	3,7/7,5	3,7/6	3,7/6
Pump motor output	kW	0,75/1,1	0,75/1,1	0,75/1,1	0,75/1,1
Circulation medium connectors	IG	3/4"	3/4"	3/4"	3/4"
Cooling water connectors	IG	1/2"	1/2"	1/2"	IG 1/2"
Length	mm	1300	1300	1300	1300
Width	mm	485	485	485	485
Height	mm	1090	1090	1090	1090
Weight	kg	215	215	215	215

WP4 SERIES

Clever and simply reliable: the principle with which our WP4 temperature control units work.



UNBEATABLE IN EVERY WAY: OUR FIELDS OF APPLICATION.

Our series of temperature control units are used wherever exact temperatures are of the essence. Here are a few examples:

WE FULFIL THE HIGHEST REQUIREMENTS

For our customers in the **pharmaceuticals industry**, we fulfil the strictest requirements even in clean rooms. We guarantee seamless documentation. And operation is gentle on pressure-sensitive devices at high temperatures.



WE ENSURE A LONG SERVICE LIFE

This is a benefit for the **chemical industry**. In this field, we work with maximum precision, for example by heating double-walled vessels. This improves the service life and availability of devices.



WE ENJOY HIGH PRECISION

We are strong in the production of **cereals** and **animal feed**. Also in the food industry. Our exact temperature control systems help our customers improve the shelf life, quality, taste and visual appeal of food items.



WE MOVE THINGS FORWARD

As **partner to the automotive industry**, we can ensure the optimal temperature of the underbody coating, for example. But we also control the operating temperatures of axle or motor test stands.



WE THINK BIG

We enable our customers to manufacture extremely large plastic parts with seamless top quality. This benefits makers of **white goods** as well as the **automotive industry**. We are also strong in **3K plastics production** with contour-aligned temperature control.



WE THINK AHEAD

Test facilities for **semiconductors** or temperature control units for **extruder systems**, for the product of **PET bottles** and **blanks**.... For our systems, the sky is the limit. Talk to our experts! You will be amazed.



5 REASONS, TO CHOOSE SINGLE.

All of our work has one single goal – to help you, our customers, do your work a little bit better every time. In this, we support you all the way. – True to our motto: Single – created for your perfection.



EASY MAINTENANCE

The sophisticated design of our units makes them extremely easy to service and repair. This saves a lot of time and money in day-to-day business.



LOWER ENERGY CONSUMPTION

Our new temperature control units save between **40 and 70 per cent** of energy, depending on the application. They also need less cooling water and have a longer service life. This creates a win-win-win situation for our customers.



PREMIUM QUALITY

More than ever, manufacturers today need to produce flawless quality. We are a solid partner. Our temperature control units and their intelligent temperature controllers enable our customers to achieve impressive quality.



REALLY MADE IN GERMANY

We value the quality of German workmanship. For a simple reason: Because we develop and manufacture our units completely in Germany, we can be 100 per cent certain that they work perfectly. And that is what our customers like.



GLOBAL PRESENCE

Quick, local support is often crucial in production. Our global sales and partner network is always there for you. A phone call is all it takes ... and we will be there to solve any problems and handle any challenges our customers might face.



YOU HAVE QUESTIONS? OR A TASK FOR US?

Then please contact us directly!

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