single

created for your perfection

WK3 SERIES
WATER BASED TEMPERATURE CONTROL UNIT
90 / 150 / 160 / 180 °C

TEMPERATURE CONTROL WATER

TEMPERATURE CONTROL OIL

ATT VARIOTHERM

COOLING SYSTEM

WK3 SERIES UP TO 180 °C
HIGHLIGHTS

ROBUST

- Magnetic drive pump – 160 °C and higher
- Stainless steel pressure vessel and pipes reduce corrosion-related failures even with inconsistent water quality

COMPACT & POWERFUL

- Top cooling performance in this performance class with plate heat exchanger

ENERGY EFFICIENCY

- High energy efficiency and low heat losses thanks to complete insulation of all heat-carrying components and optional variable-speed pump

MANY OPTIONS

- Flow metering
- Suction mould draining / via compressed air
- Various interfaces
- Pressure measurement
- Return stop
- Manual filling

... and many more

UPGRADES

- Modular system supports subsequent upgrades

MULTITALENT

- Broad range of features and options

MADE IN EUROPE

- Developed in Germany and manufactured in Europe

CONTROL

- Our 7“ controller (see illustration) offers the latest technology for operation and control

RELIABLE

- High reliability and availability thanks to smart and robust design using corrosion-free materials (Components exposed to water made from stainless steel and non-ferrous metals)
- High protection rating IP54 (hydraulic area and switch cabinet)
- Non-wearing heating control using solid-state relays

WK3 SERIES UP TO 180 °C

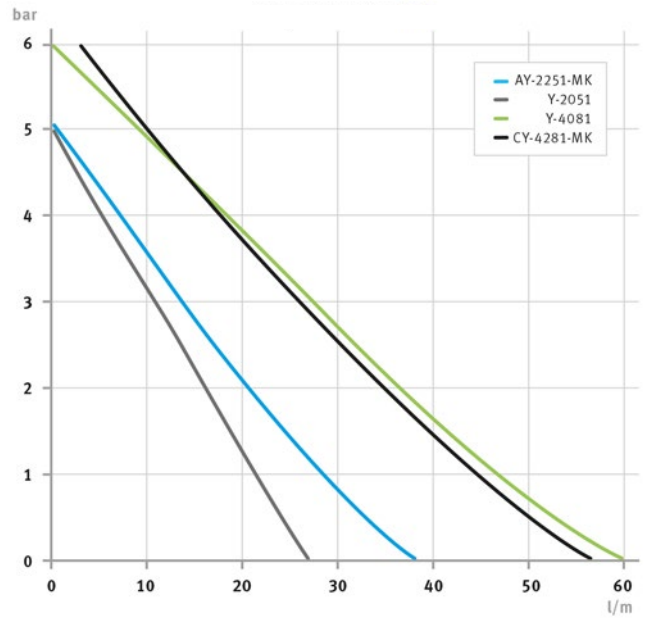
The compact water-based temperature control units for applications and requirements in the low to medium performance range and temperatures up to 180 °C are very popular for plastics injection moulding but can also be used for other processes. They are suited to the temperature control of sophisticated applications and support the documentation of process parameters.

TECHNICAL DATA

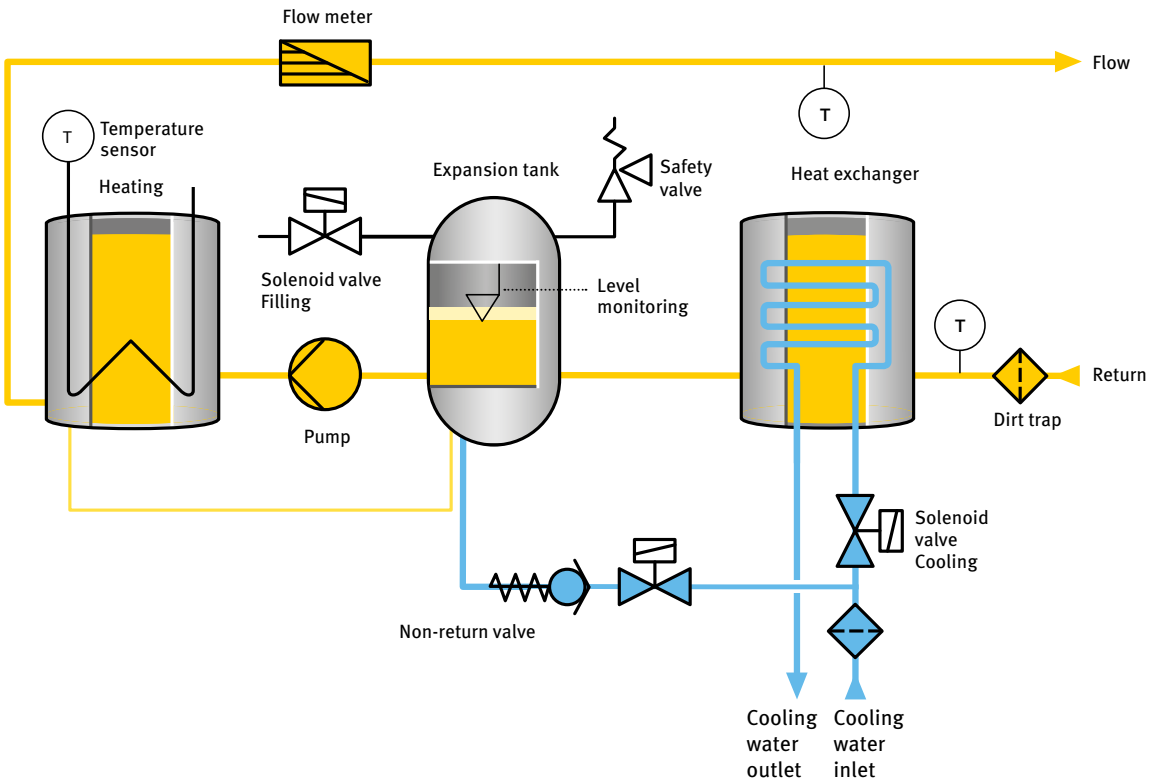
ASSEMBLIES			WK-3-90D	WK-3-90	WK-3-150	WK-3-160	WK-3-180
Temperature range max.		°C	90	90	150	160	180
Max. external volume		l	unlimtited	36	16	15	11
Heating capacity		kW	0/3/4,5/6/9	0/3/4,5/6/9	0/3/4,5/6/9	0/3/4,5/6/9	0/3/4,5/6/9
Cooling Type			direct	indirect	indirect	indirect	indirect
(via heat exchanger)							
Cooling capacity		kW	58	0/50	0/50	0/50	0/50
(80 °C flow / 15 °C cooling water)							
Max. flow rate		l/min	27/60*	27/60*	27/60*	38/57*	38/57*
Max. pressure		bar	5/6*	5/6*	5/6*	5/6*	5/6*
Pump motor power		kW	0,5/0,75*	0,5/0,75*	0,5/0,75*	0,5/0,75*	0,5
Circulation medium connectors		AG	IG 1/2“	IG 1/2“	IG 1/2“	IG 1/2“	IG 1/2“
Cooling water connectors			IG 1/2“	IG 1/2“	IG 1/2“	IG 1/2“	IG 1/2“
Dimensions	L	mm	780	780	780	780	780
(without connectors)	L**	mm	835	835	835	835	835
	B	mm	305	305	305	305	305
	H	mm	705	705	705	705	705
Weight approx.		kg	72-90	72-90	72-90	72-90	72-90

* more powerful pump, ** with Advanced package

PUMP CURVES WK3



SCHEME PRODUCT LINE WK3



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 **pharmaceutics 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 industr**y. 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 production 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 EUROPE

We value the quality of European workmanship. For a simple reason: Because we develop our devices in Germany and manufacture our units completely in Europe, 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!

SINGLE GROUP GMBH
Ostring 17–19
73269 Hochdorf / Germany
Phone: +49 (0)7153/3009-0
Fax: +49 (0)7153/3009-50

www.single-temp.com

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