

## SINGLE Compact water-operated temperature control systems up to 180 °C

### Water Compact



The compact water-operated temperature control systems for applications and requirements in the small and medium capacity range up to 180 °C are predominantly used for injection moulding applications but also for other processes. They are ideal for temperature control during the production of high-quality articles and allow a documentation of process parameters.

In contrast to heat-transfer oil, water used as a circulating medium provides numerous physical and economic benefits – particularly for high operating temperatures. The heat transfer characteristics of water are far superior to those of oil: its high specific heat transfer capacity is second to no other liquid media. Water also provides many ecological benefits.

The K and KN sizes of the Water Compact product family are equipped for operation far above the atmospheric boiling point with temperatures of up to 180 °C. They meet the most stringent safety requirements. The systems are extremely compact and are built exclusively with high-quality components.

#### STANDARD EQUIPMENT

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##### General

- ▶ Rugged, powder-coated sheet steel housing
- ▶ Automatic filling and replenishing
- ▶ Roller mounted

##### Hydraulics

- ▶ Hydraulic equipment stainless steel / non-ferrous metals
- ▶ Incolloy heater
- ▶ High-quality pump materials
- ▶ Dirt traps in return and cooling water supply line
- ▶ Leak stop with TK and TKN
- ▶ Magnet-coupled pumps from 160 °C

##### Electric and control equipment

- ▶ SBC controller
- ▶ Heating control by solid state relay with fail-safe pilot contractor
- ▶ Switch box to IP54
- ▶ Cable connector without plug

#### OPTIONS

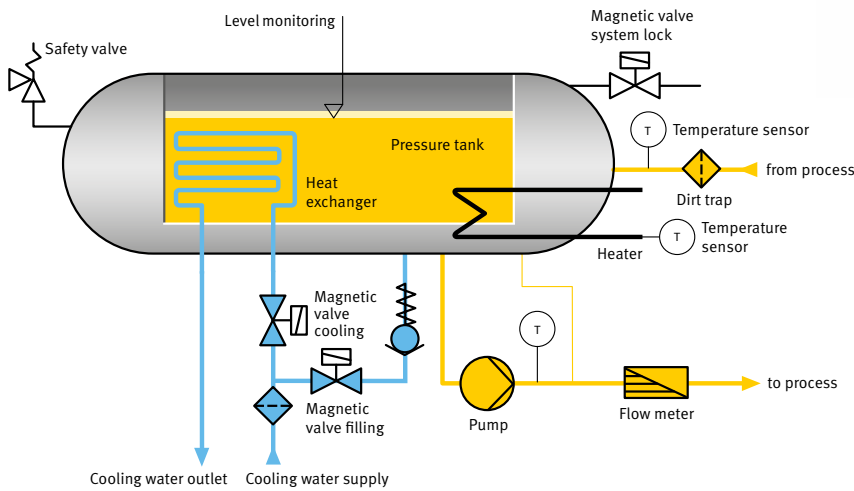
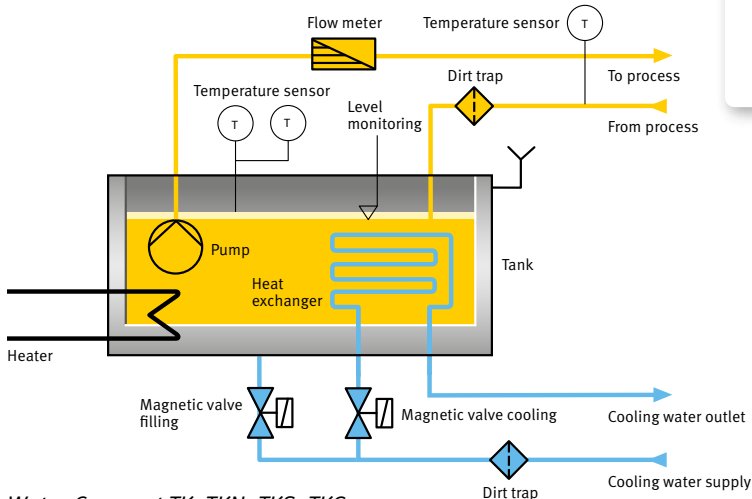
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- ▶ SCT controller with 7" touch screen
- ▶ Plate heat-exchanger for highly efficient cooling capacity
- ▶ Flow metering according to the eddy current method up to 90 °C, according to the differential pressure method from 100 °C
- ▶ Connection for external PT 100 temperature sensor
- ▶ Connections for various analogue and digital electric interfaces
- ▶ EcoTemp system for cyclic temperature control
- ▶ Virtually unlimited hydraulic and electric options

**single**  
first choice  
in temperature control

# SINGLE Compact water-operated temperature control systems up to 180 °C

## Water Compact



Compact water-operated temperature control systems with optional SCT controller with 7" touch screen

Water Compact								
Structural units		TK	TKN	TKS	TKG	K		KN
Max. temperature range	°C	90	90	90	90	150/160	180	150/160
Max. external volume	l	50	69	159	240	13/10	10	18/15
Heating capacity	kW	4.5/6/9/12	12/18/24	27/36/45	48/60/72	6/9	4.5/9	12/16
Cooling capacity (80 °C outlet/15 °C cooling water)	kW	24/50	35/80	35/116	35/300	24/50	42/50	35/80
Max. flow rate	l/min	40	60	135	233	27/30*	40	60/100*
Max. pressure (max. values of the characteristic)	bar	3.8/5.5*	3.8/5.5*	3.8/5.6*	4.2/8.4*	4.5/5*	5	6.6*
Pump motor capacity	kW	0.5/1*	0.5/1*	0.9/1.2*/1.3*	1.5/2.2*/3*	0.5	0.5	0.8
Connections circulating media	MPT	14	21	21	14	G 1/2"	G 1/2"	G 3/4"
Connections cooling water (Hose spout)		14	14	21	28	14	G 3/8" AG	14
Dimensions (without connections)	L mm	645	690	800	1365	645	690	690
	W mm	265	275	325	505	265	275	275
	H mm	580	790	880	1350	580	735	790
Approximate weight	kg	50	75	100	200	55	75	75

\*Special pump