

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

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

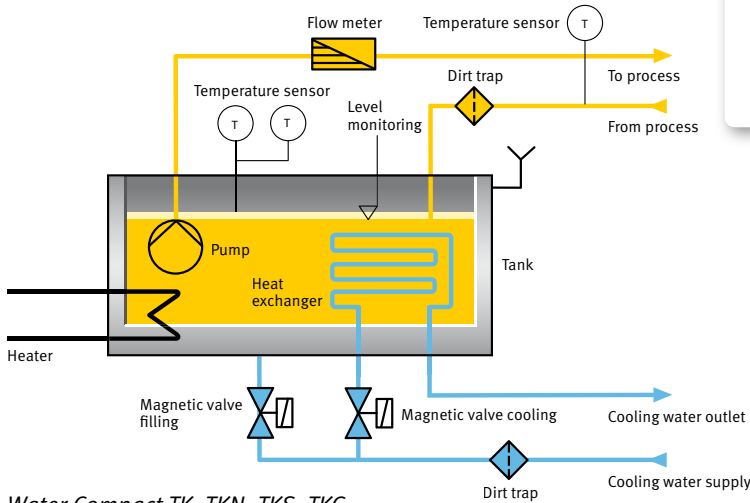
OPTIONS

- ▶ 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

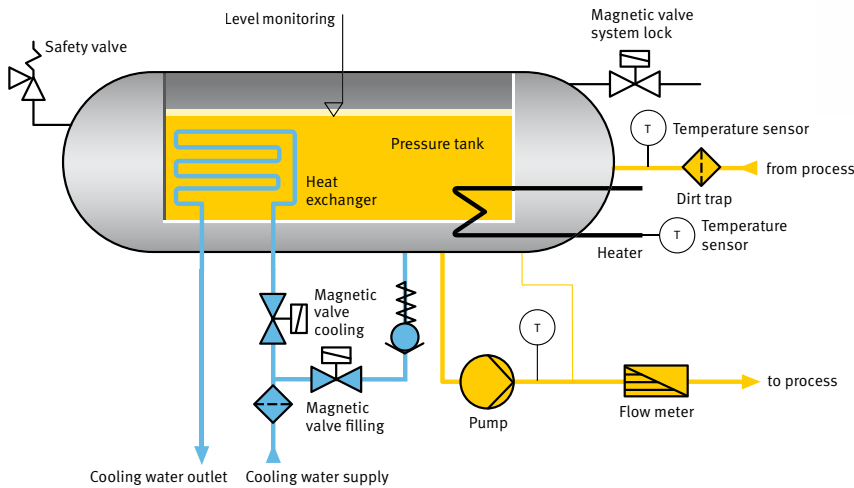
single
first choice
in temperature control

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

Water Compact



Water Compact TK, TKN, TKS, TKG



Water Compact K, KN



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	3/4.5/6/9	6/12/18/24	9/18/24/36/45	12/24/36/48/60/72	3/4.5/6/9	3/4.5/6/9	3/4.5/6/9	6/12/16	
Cooling capacity (80 °C outlet/15 °C cooling water)	kW	24/50	35/80	35/116	35/300	24/50	24/50	42	35/80	
Max. flow rate	l/min	40	55/60	135	233	27/60*	30/60*	40	60/100*	
Max. pressure (max. values of the characteristic)	bar	3.8/5.5*	3.9/5.5*	3.8/5.6*	4.2/8.4*	4.5/6*	5/6*	5	6.6*	
Pump motor capacity	kW	0.5/1*	0.9/1*	0.9/1.2*/1.3*	1.5/2.2*/3*	0.5/0.75*	0.5/1*	0.5	0.8	
Connections circulating media	MPT	14	21	21	38	G 1/2"	G 1/2"	G 1/2"	G 3/4"	
Connections cooling water (Hose spout)		14	14	21	14/28	14	14	G 3/8" AG	14	
Dimensions (without connections)	L	mm	645	690	800	1365	645	645	690	690
	W	mm	265	275	325	505	265	265	275	275
	H	mm	580	790	880	1350	580	580	735	790
Approximate weight	kg	50	75	100	200	55	75	75	75	

*Special pump

Subject to technical changes