

TEMPERATURE CONTROL UNITS

FOR PRECISION TEMPERATURE CONTROL UP TO 320°C

Water TCU's - developed specifically for the plastic industry

- **TCU-WA type** (A for Atmospheric pressure) for:
 - temperatures up to 95°C
 - direct or indirect thermal exchange
- **TCU-WP type** with pressurized water for:
 - temperatures up to 180°C
 - indirect thermal exchange
- Heating capacities from 3 to 27 kW
- Low-pressure pumps with the flow rate from 30 to 150 l/min
- Two “plug & play” entry models with express dispatching also available



Diathermic Oil TCU's suitable for die-casting applications

- OIL type is suitable for operations at a maximum temperature of 320°C
- With one or more zones
- Heating capacities from 6 to 36kW
- Low-pressure pumps with the flow rate from 50 to 200 l/min

Technical features

- High-precision solenoid valve at the output for exact temperature regulation
- Monobloc centrifugal pump with a wide operating range
- Armored heating element with a low load density
- Solid-state relays providing heating with high temperature precision even after a large number of switching cycles, with high long-term reliability.
- User friendly PLC controller with 3,5" touchscreen
- Pressurizing water pump for the WP models ensuring the liquid form of the medium (water) at the temperatures >100°C



WATER TEMPERATURE CONTROL UNITS

WA SERIES

TCU	Direct / Indirect	Max. Temp. [°C]	Heaters			Flow rate [l/min]	Pressure [bar]	User connect. Ø	Cooling connect. Ø	Net weight [kg]	Dimensions L x W x H [mm]
			kW	QTY	steps						
TCU-TW95D03	D	95	3	1	1	30	2.0	1/2"	1/2"	24	430 x 205 x 490
TCU-EW95D09	D	95	9	1	1	50	1.9	3/4"	1/2"	43	680 x 260 x 540
TCU-WA95D06	D	95	6	1	1	30	3.2	3/4"	1/2"	50-100	660 x 330 x 700
TCU-WA95D09	D	95	9	1	1	50	3.0	3/4"	1/2"	50-100	660 x 330 x 700
TCU-WA95D12	D	95	12	1	1	70	3.0	3/4"	1/2"	50-100	660 x 330 x 700
TCU-WA95D18	D	95	18	2	2	100	3.4	1"	3/4"	50-100	900 x 400 x 880
TCU-WA95D27	D	95	27	2	2	150	3.2	1"	3/4"	100-150	900 x 400 x 880
TCU-WA90I06S	I	90	6	1	1	30	3.2	3/4"	1/2"	50-100	660 x 330 x 700
TCU-WA90I09S	I	90	9	1	1	50	3.0	3/4"	1/2"	50-100	660 x 330 x 700
TCU-WA90I12S	I	90	12	1	1	70	3.0	3/4"	1/2"	50-100	660 x 330 x 700
TCU-WA90I18S	I	90	18	2	2	100	3.4	1"	3/4"	50-100	900 x 400 x 880
TCU-WA90I27S	I	90	27	2	2	150	3.2	1"	3/4"	100-150	900 x 400 x 880
TCU-WA90I06SM	I	90	6	1	1	30	3.2	3/4"	1/2"	50-100	660 x 330 x 700
TCU-WA90I09SM	I	90	9	1	1	50	3.0	3/4"	1/2"	50-100	660 x 330 x 700
TCU-WA90I12SM	I	90	12	1	1	70	3.0	3/4"	1/2"	50-100	660 x 330 x 700
TCU-WA90I18SM	I	90	18	2	2	100	3.4	1"	3/4"	50-100	900 x 400 x 880
TCU-WA90I27SM	I	90	27	2	2	150	3.2	1"	3/4"	100-150	900 x 400 x 880
TCU-WA90I09D	I	90	9	1	1	30	2.7	3/4"	1/2"	85	900 x 400 x 880



WATER TEMPERATURE CONTROL UNITS

WP SERIES

TCU	Direct / Indirect	Max. Temp. [°C]	Heaters			Flow rate [l/min]	Pressure [bar]	User connect. Ø	Cooling connect. Ø	Net weight [kg]	Dimensions L x W x H [mm]
			kW	QTY	steps						
TCU-WP140I06	I	140	6	1	1	30	3.2	3/4"	3/4"	100-130	900 x 400 x 880
TCU-WP140I09	I	140	9	1	1	50	3.0	1"	3/4"	100-130	900 x 400 x 880
TCU-WP140I12	I	140	12	1	1	70	3.0	1"	3/4"	100-130	900 x 400 x 880
TCU-WP140I18	I	140	18	2	2	100	3.4	1-1/4"	3/4"	100-130	1000 x 450 x 1100
TCU-WP140I27	I	140	27	3	3	150	3.2	1-1/2"	3/4"	130-160	1000 x 450 x 1100
TCU-WP160I09	I	160	9	1	1	50-150	3,0-3,5	1"	3/4"	150-180	1000 x 450 x 1100
TCU-WP160I18	I	160	18	2	2	100-150	3,0-3,5	1-1/4"	3/4"	150-180	1000 x 450 x 1100
TCU-WP160I27	I	160	27	3	3	150	3,0-3,5	1-1/2"	3/4"	180-220	1000 x 500 x 1210
TCU-WP180I09	I	180	9	1	1	50-150	3,0-3,5	1"	3/4"	150-180	1000 x 450 x 1100
TCU-WP180I18	I	180	18	2	2	100-150	3,0-3,5	1-1/4"	3/4"	150-180	1000 x 450 x 1100
TCU-WP180I27	I	180	27	3	3	150	3,0-3,5	1-1/2"	3/4"	180-220	1000 x 500 x 1210



OIL TEMPERATURE CONTROL UNITS

OIL SERIES

TCU	Direct / Indirect	Max. Temp. [°C]	Heaters			Flow rate [l/min]	Pressure [bar]	User connect. Ø	Cooling connect. Ø	Net weight [kg]	Dimensions L x W x H [mm]
			kW	QTY	steps						
TCU-OIL200I09	I	200	9	1	1	50	3.1	1-1/2"	3/4"	140-150	1000 x 450 x 1100
TCU-OIL200I18	I	200	18	1	2	100	2.8	1-1/2"	3/4"	140-150	1000 x 450 x 1100
TCU-OIL200I27	I	200	27	1	3	150	2.4	1-1/2"	3/4"	140-150	1200 x 500 x 1210
TCU-OIL200I36	I	200	36	1	3	200	2.6	1-1/2"	3/4"	180-190	1200 x 500 x 1210
TCU-OIL250I09	I	250	9	1	1	50	2.5	1-1/2"	3/4"	150-190	1000 x 450 x 1100
TCU-OIL250I18	I	250	18	1	2	100	2.5	1-1/2"	3/4"	150-190	1000 x 450 x 1100
TCU-OIL250I27	I	250	27	1	3	150	2.5	1-1/2"	3/4"	150-190	1200 x 500 x 1210
TCU-OIL250I36	I	250	36	1	3	200	2.5	1-1/2"	3/4"	190-230	1200 x 500 x 1210
TCU-OIL300I09	I	300	9	1	1	50	2.5	1-1/2"	3/4"	150-190	1000 x 450 x 1100
TCU-OIL300I18	I	300	18	1	2	100	2.5	1-1/2"	3/4"	150-190	1000 x 450 x 1100
TCU-OIL300I27	I	300	27	1	3	150	2.5	1-1/2"	3/4"	150-190	1200 x 500 x 1210
TCU-OIL300I36	I	300	36	1	3	200	2.5	1-1/2"	3/4"	190-230	1200 x 500 x 1210
TCU-OIL320I09	I	320	9	1	1	50	2.5	1-1/2"	3/4"	150-190	1000 x 450 x 1100
TCU-OIL320I18	I	320	18	1	2	100	2.5	1-1/2"	3/4"	150-190	1000 x 450 x 1100
TCU-OIL320I27	I	320	27	1	3	150	2.5	1-1/2"	3/4"	150-190	1200 x 500 x 1210
TCU-OIL320I36	I	320	36	1	3	200	2.5	1-1/2"	3/4"	190-230	1200 x 500 x 1210