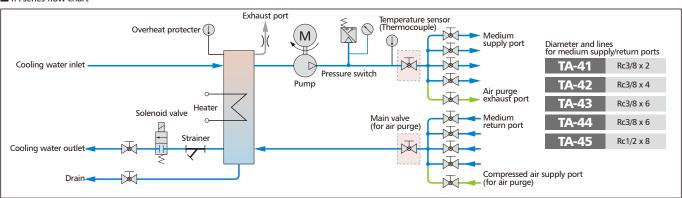
JB/TC series



Digital Mold Temperature Controller

			TA-41	TA-42	TA-43	TA-44	TA-45 Build-to-order	
Heating medium			Water					
Temperature setting range °C		Water supply temperature +10 Max. 95 (Accuracy: ±1)						
Cooling mechanism		Direct cooling						
Total electric capacity (50/60Hz) kVA		3.63 / 3.53	6.84 / 6.70	10.57 / 10.43	15.46 / 15.39	19.16 / 19.09		
Heater power		kW	2.9	5.8	8.7	12.0	15.0	
Pump	Туре		Multistage whirlpool pump					
	Motor power	kW	0.37	0.55	1.1	2.2	3.0	
	Max. pressure	MPa	0.16 / 0.25	0.34 / 0.39	0.42 / 0.62	0.31 / 0.42	0.43 / 0.41	
	Max. flowrate	L/min	40 / 48	60 / 70	75 / 90	200 / 235	367 / 433	
Controller	Temperature control mechanism		Heating: PID, Cooling: Proportional					
	Temperature detection mechanism		Thermocouple type JIS K (Set on the medium supply line)					
	Setting and indication mechanism		Touch keys and digital display					
	Timer		Setting range: 0 99 hr (Operation start after set time elapses)					
	Alarm		Pump overload, low water supply pressure, overheating, sensor disconnection, reverse phase, set temperature					
Piping	Cooling water inlet		Rc3/8	Rc3/8	Rc3/8	Rc3/8	Rc1/2	
	Cooling water outlet		Rc3/8	Rc3/8	Rc3/8	Rc3/8	Rc1/2	
	Medium supply port		Rc3/8 x 2	Rc3/8 x 4	Rc3/8 x 6	Rc3/8 x 6	Rc1/2 x 8	
	Medium return port		Rc3/8 x 2	Rc3/8 x 4	Rc3/8 x 6	Rc3/8 x 6	Rc1/2 x 8	
	Drain		Rc3/8	Rc3/8	Rc3/8	Rc3/8	Rc1/2	
	Air purge exhaust port		Rc1/8	Rc1/8	Rc1/8	Rc1/8	Rc1/8	
Tank capacity		L	1.2	2.0	2.7	2.7	14.0	
Power	Power supply standard		200/220V 50/60Hz 3ø					
	Power plug		20A-3P plug with protective ground	30A-3P plug with protective ground		Without plug		
Outer dimensions (WxDxH) r		mm	263 x 546 x 551	263 x 546 x 600	295 x 570 x 702	333 x 620 x 795	483 x 870 x 1,105	
Weight		kg	55	60	75	100	210	
Accesories	Heat-resistant hose		8m x 1	16m x 1	12m x 2	Special arrangement		
	Hose nipple (1004-9)		x 8	x 16	x 24	Special arrangement		
	Adaptor (1013-3/8 x 1/8)		x 8	x 16	x 24	Special arrangement		
	Adaptor (1013-3/8 x 1/4)		x 8	x 16	x 24	Special arrangement		

■TA series flow chart



- Use cooling water in a pressure range of 0.15 -- 0.2 MPa. Pressures greater than 0.59 MPa require a regulator and relief valve.
 Use of a regulator on the cooling water supply side and use of cooling water flowmeters of molding machines exceeds 0.59 MPa, therefore a regulator and relief valve are required.
 If discharge return pressure to a cooling tower or other source exceeds 0.15 MPa, cooling water cannot be discharged from the temperature controller even when cooling water pressure is reduced to 0.15 MPa via a regulator. In such case, run cooling water discharge directly into a pit.
 Prepare a regulator and relief valve separately.
 The air purge is optional equipment.
 Specifications are subject to charge without parties.

- Specifications are subject to change without notice.

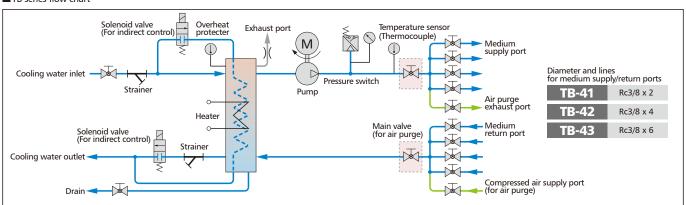
JB/TC series



Digital Mold Temperature Controller

			TB-41	TB-42	TB-43		
Heating medium			Water				
Temperature setting range °C			Water supply temperature +10 Max. 120 (Accuracy: ±1)				
Cooling mechanism			Direct / Indirect cooling switching				
Total electric capacity (50/60Hz) kVA		3.63 / 3.53	3.63 / 3.53 6.84 / 6.70				
Heater power kW		kW	2.9 5.8		8.7		
Pump	Туре		Multistage whirlpool pump				
	Motor power	kW	0.37	0.55	1.1		
	Max. pressure	MPa	0.16 / 0.25	0.34 / 0.39	0.42 / 0.62		
	Max. flowrate	L/min	40 / 48	60 / 70	75 / 90		
Controller	Temperature control mechanism		Heating: PID, Cooling: Proportional				
	Temperature detection mechanism		Thermocouple type JIS K (Set on the medium supply line)				
	Setting and indication mechanism		Touch keys and digital display				
	Timer		Setting range: 0 99 hr (Operation start after set time elapses)				
	Alarm		Pump overload, low water supply pressure, overheating, sensor disconnection, reverse phase, set temperature				
Piping	Cooling water inlet		Rc3/8	Rc3/8	Rc3/8		
	Cooling water outlet		Rc3/8	Rc3/8	Rc3/8		
	Medium supply port		Rc3/8 x 2	Rc3/8 x 4	Rc3/8 x 6		
	Medium return port		Rc3/8 x 2	Rc3/8 x 4	Rc3/8 x6		
	Drain		Rc3/8	Rc3/8	Rc3/8		
	Air purge exhaust port		Rc1/8	Rc1/8	Rc1/8		
Tank capacity L		L	1.0	1.6	2.3		
Power	Power supply standard		200/220V 50/60Hz 3ø				
	Power plug		20A-3P plug with protective ground	30A-3P plug with protective ground	Without plug		
Outer dimensions (WxDxH)		mm	263 x 546 x 551	263 x 546 x 600	295 x 572 x 702		
Weight		kg	55	60	75		
Accesories	Heat-resistant hose		8m x 1	16m x 1	12m x 2		
	Hose nipple (1004-9)		x 8	x 16	x 24		
	Adaptor (1013-3/8 x 1/8)		x 8	x 16	x 24		
	Adaptor (1013-3/8 x 1/4)		x 8	x 16	x 24		

■TB series flow chart



- Use cooling water in a pressure range of 0.25 -- 0.3 MPa. Pressures greater than 0.59 MPa require a regulator and relief valve.

 Also, pressures of 0.15 MPa and below can cause cavitation, therefore do not use them.

 Use of a regulator on the cooling water supply side and use of cooling water flowmeters of molding machines exceeds 0.59 MPa, therefore a regulator and relief valve are required.

 If discharge return pressure to a cooling tower or other source exceeds 0.25 MPa, cooling water cannot be discharged from the temperature controller even when cooling water pressure is reduced to 0.25 MPa via a regulator. In such case, either run cooling water discharge directly into a pit or use the indirect cooling mode.

 Prepare a regulator and relief valve separately.
- The air purge is optional equipment.
- Specifications are subject to change without notice.

516Z CO.,LTD.

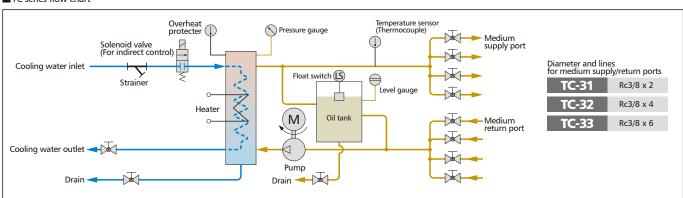
TA/TB/TC series



Digital Mold Temperature Controller

			TC-31	TC-32	TC-33		
Heating medium			Oil				
Temperature setting range °C			Water supply temperature +30 Max. 150 (Accuracy: ±1)				
Cooling mechanism		Indirect cooling					
Total electric capacity (50/60Hz) kVA		3.69 / 3.66	7.18 / 7.11	11.01 / 10.97			
Heater power kW		3.0	6.0	9.0			
Pump	Туре		Cascade pump				
	Motor power	kW	0.4	0.75	1.5		
	Max. pressure	MPa	0.47 / 0.39	0.49 / 0.39	0.64 / 0.54		
	Max. flowrate	L/min	25 / 32	50 / 62	80 / 94		
Controller	Temperature control mechanism		Heating: PID, Cooling: Proportional				
	Temperature detection mechanism		Thermocouple type JIS K (Selectable between medium supply and medium return lines)				
	Setting and indication mechanism		Touch keys and digital display				
	Timer		Setting range: 0 99 hr (Operation start after set time elapses)				
	Alarm		Pump overload, low water supply pressure, overheating, sensor disconnection, reverse phase, set temperature				
Piping	Cooling water inlet		Rc3/8	Rc3/8	Rc3/8		
	Cooling water outlet		Rc3/8	Rc3/8	Rc3/8		
	Medium supply port		Rc3/8 x 2	Rc3/8 x 4	Rc3/8 x 6		
	Medium return port		Rc3/8 x 2	Rc3/8 x 4	Rc3/8 x 6		
	Drain		Rc3/8	Rc3/8	Rc3/8		
	Air purge exhaust port		Rc1/8	Rc1/8	Rc1/8		
Tank capacit	ty	L	2.9	4.9	6.6		
Power	Power supply standard		200/220V 50/60Hz 3ø				
	Power plug		20A-3P plug with protective gro	ound 30A-3P plug with protective gro	und Without plug		
Outer dimensions (WxDxH) m		mm	220 x 540 x 586	250 x 570 x 759	290 x 630 x 921		
Weight kg		kg	54	76	99		
Accesories	Heat-resistant hose		8m x 1	16m x 1	12m x 2		
	Hose nipple (1004-9)		x 8	x 16	x 24		
	Adaptor (1013-3/8 x 1/8)		x 8	x 16	x 24		
	Adaptor (1013-3/8 x 1/4)		x 8	x 16	x 24		
	Heating oil (5L)		x 1	x 2	x 3		
	Funnel (15cm)		x 1	x 1	x 1		

■TC series flow chart



- Use a heat-resistant (to 230°C) Teflon hose for medium temperatures of 120 -- 150°C.
 Specifications are subject to change without notice.