

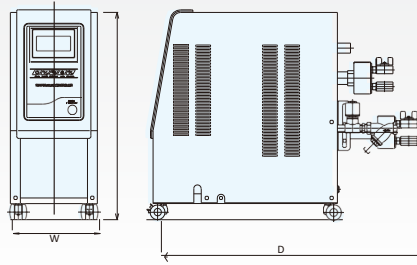
JUSTTHERMO TW/160 - 180series

Medium : Fresh water

Temperature : Max160 ° 180°C



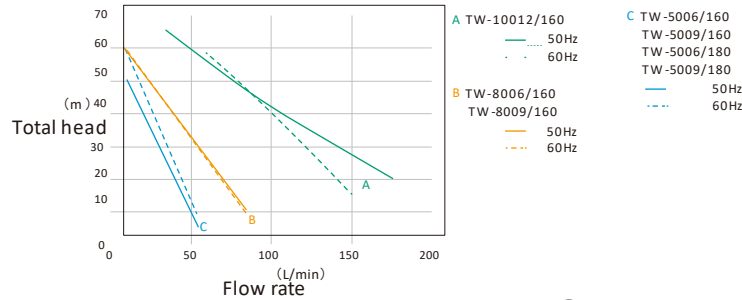
Dimensions



Dimensions

Model	TW-5006/160	TW-5009/160	TW-8006/160 TW-8009/160	TW-10012/160	TW-5006/180	TW-5009/180
W	200	350	350	350	200	400
D	(751)	(919)	(967)	(1164)	(801)	(932)
H	541	745	745	720	700	745
Weight (kg)	65	100	100	150	85	115

Pump Curve



TW/160 -
180series

Standard

Display in 0.1°C increments

Temperature sensor Pt100Ω

SSC for heater control

Remote operation (No-voltage contact or open collector)

Operational output (including Out terminal)(Relay contact 250V 1.0A max.) Alarm output (including Out terminal)(Relay contact 250V 1.0A max.)

Emergency stop

Run/Stop timer (to set run and stop time) Auto depressurization

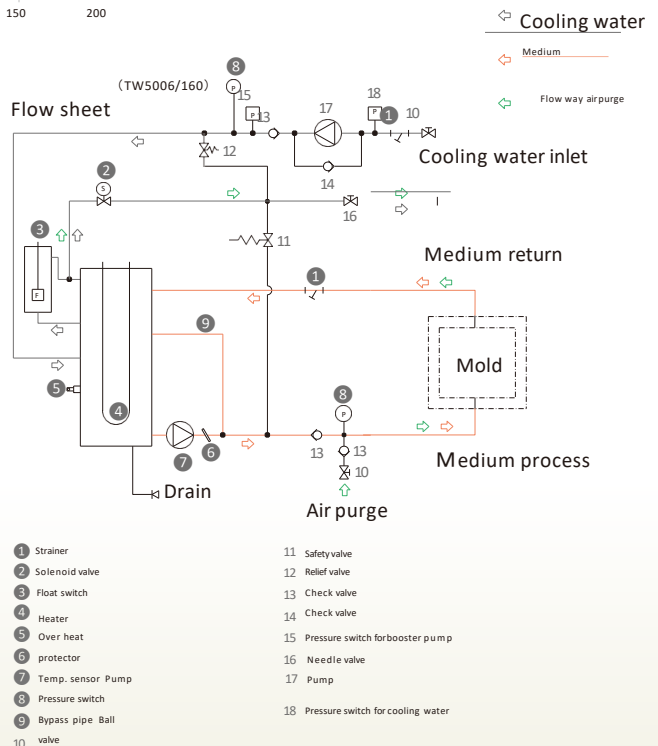
Maintenance alarm

Pressure gauge (Glycerin filled) Air purge

Weekly timer (Parameter setting)

Alarm log

Stop after cooling time



Specifications

Model		TW-5006/160 *2		TW-5009/160		TW-8006/160		TW-8009/160		TW-10012/160		TW-5006/180 *2		TW-5009/180				
		<Built-in booster pump>																
Medium		Fresh water																
Temperature (°C)		Max.160										Max.180						
Control Method		PID control																
Heater	Capacity (kW)	6		9		6		9		12(6×2)		6		9				
	Control	SSC Drive																
Pump	Seal Method	Seal less																
	Motor Capacity (kW () 50/60Hz)	1.0/1.1				1.5/1.5				3.5/4.0				1.0/1.1				
	Max. Pressure (MPa () 50/60Hz) Notes :2	0.5/0.6				0.6/0.6				0.65/0.58				0.5/0.6				
	Max. Flow (L/min () 50/60Hz)	55/55				85/85				175/150				55/55				
	Performance	50Hz	Flow Rate (L/min)	10	30	55	9	40	85	35	100	175	10	30	55			
			Total Head (m)	50	30	5	60	40	10	65	42	20	50	30	5			
		60Hz	Flow Rate (L/min)	10	30	55	9	40	85	60	100	150	10	30	55			
			Total Head (m)	60	37	10	60	40	10	58	40	15	60	37	10			
Booster Pump Motor Capacity (kW () 50/60Hz)		0.055								0.055×2		1.0/1.1						
Cooling Method		Direct cooling																
* Cooling Capacity (kW () ΔT=30°C) *1		7.3																
Pipe Size	Circulation Line	20A (3/4B)×1 unit		15A (1/2B)×1 unit		20A (3/4B)×1 unit		32A (1 1/4B)×1 unit		15A (1/2B)×1 unit		20A(3/4B)						
	Cooling Line	15A (1/2B)																
Alarm		Reverse phase, Medium shortage, Pump overload, Temp. upper limit and lower limit, Booster pressure shortage, Booster overload																
Accessories		Power cable 5m																
Painting Color		JMPA KN93,semigloss																
Weight (kg)		65		100				150		85		115						
Utility	Power Supply	3 phase AC200V 50/60Hz AC220V 60Hz																
	Power Demand (kVA)	8.3		11.5		8.9		12.1		19.3		10.1		13.4				
	Main Breaker (AT)	30		40		30		40		60		30		50				
	Compressed Air (L/min () ANR () 0.4~0.7MPa)	Manual (Air connection:10A) Approx. 0.5 Nm ³																
	Water Pressure (MPa) Notes:1	15 or more								0.2~0.7						15 or more		0.25~0.4

* The value of cooling capacity mentioned here is for practical use.
 * Designed for use with 50 or 60 Hz (TW-5006/160 & 5009/160 : usable by changing thermal settings)
 * 1. Cooling water pressure is 0.2 MPa when the difference between medium temperature and cooling water inlet temperature is 30°C.
 * 2. TW-5006/160 and TW-5006/180 are compact types. (Different voltages are not available.)
 Notes : 1. For the management of water quality, refer to the water quality standards of the Japan Refrigeration and Air Conditioning Industry Association.
 Please use water with electric conductivity (25 °C) 5 to 80 mS / m (50 to 800 μS / cm).
 Notes : 2. Please use connection hose which withstand the temperature above maximum and the pressure above the maximum 1.5 MPa. (For TW-5006/180 and 5009/180, the pressure above maximum 2.0 MPa.)

For options, see the list on page p24 and 25.

TW160 - 180 series