



Mold Temp Controller



TWK Series

JUSTTHERMO α

Options

- Earth leakage breaker
- Different voltage (230V-460V/60Hz)
- Decompression valve for feedwater (required when cooling water is 0.3MPa or more)
- Bypass pipe for flow control (when pressure in a medium circulation path is too high)
- Branch pipe change
- Designated color painting
- Warning light
- High efficiency filter for cooling water
- Air purge
- Strainer for medium return pipe

Connecting

Selection Table for Branch Pipe (for medium process/return) and Hose

TWK-L series

Model	TWK-200L-KS			TWK-600L-KS			TWK-1200L-KS		
	Option			Standard	Option		Standard	Option	
Branch pipe	Heat resisting hose			No Option	Heat resisting hose		No Option	Heat resisting hose	
Connecting hose (option)	10A 15m(49.2feet)×1 pcs.	10A 15m(49.2feet)×2 pcs.	25A 6m(19.7feet)×1 pcs.	10A 15m(49.2feet)×2 pcs.	15A 15m(49.2feet)×1 pcs.	25A 6m(19.7feet)×1 pcs.	15A 15m(49.2feet)×2 pcs.	20A 15m(49.2feet)×1 pcs.	40A 3m(9.8feet)×2 pcs.

*1 ↑ Hose nipple and band 16 set
*2 Hose nipple and band 28 set

TWK-Mseries

Model 型式	TWK-200M-KS			TWK-600M-KS			TWK-1200M-KS		
	Standard 10A×2 directions	Option 8A×4 Directions No branch pipe		Standard 10A×4 directions	Option 15A×2 directions No branch pipe		Standard 15A×4 directions	Option 20A×2 directions No branch pipe	
Branch pipe 分岐管仕様	Heat resisting hose (with adapter)			Heat resisting hose (with adapter)			Heat resisting hose (with adapter)		
Connecting hose (option)	10A 3m(9.8feet)×4 10A 0.5m(1.64feet)×2 pcs.	8A 3m(9.8feet)×8 8A 0.5m(1.64feet)×4 pcs.	25A 3m(9.8feet)×2 pcs.	10A 3m(9.8feet)×8 10A 0.5m(1.64feet)×4 pcs.	15A 3m(9.8feet)×4 15A 0.5m(1.64feet)×2 pcs.	25A 3m(9.8feet)×2 pcs.	15A 3m(9.8feet)×8 15A 0.5m(1.64feet)×4 pcs.	20A 3m(9.8feet)×4 pcs.	40A 3m(9.8feet)×2 pcs.

Spesification

	Heat resisting hose	Heat resisting hose (with adapters at both ends)
Medium/	Water	Water
Temperature	≥90°C(194°F)	≥120°C(248°F)
Pressure	≥0.65MPa	≥1.0MPa
Material	Rubbe	Rubber



- Notes:
1. Select a hose that can withstand the maximum temperature and pressure of the equipment.
 2. Select a hose of a diameter that matches the piping diameter of the equipment.
 3. Perform regular maintenance and inspection of a hose, and periodically exchange the hose for safety reasons.
Teflon tubes with stainless steel blades are recommended for long-term use.
 4. Be sure to securely lock a hose connection. If internal pressure rises, the hose may be disconnected.
 5. When attaching a hose, be sure to maintain a minimum bend radius.

*These specifications are subject to change without notice.
*Before start-up operation, please refer carefully to the manuals to be well informed.

Advanced Technology, Global model pursuing versatility

- Medium: Freshwat
- Temperature

90°C/120°C
194°F/248°F

Whole machine conforming to CE standard with reliable safety performance



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High accuracy

- Temperature readout in 0.1°C increments
- Pt100 Ω sensor minimizes ambient temperature influence

High reliability

- SSR is adopted for heater control
- The float switch is insensitive to scale

Interactive Human-computer Interface

Changed the temperature display from Celsius to Fahrenheit

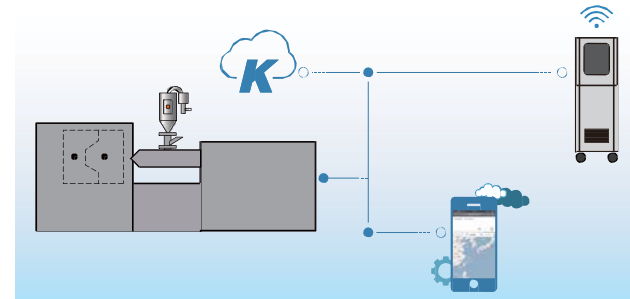
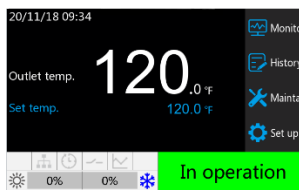
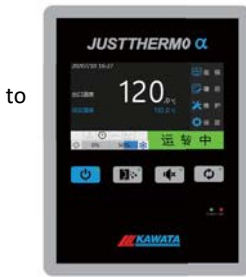
- High definition capacitive touch screen
- Real-time monitoring of temperature, pressure(OP) and flow (OP)
- Alarm history and other information can be displayed
- Visual interface and humanized operation

High-Pressure Large-Flow Pump

Rational design of inspection and maintenance

Multi-functional Internet of Things

- RS422 / 485 serial port, RJ45 Ethernet port
- Modbus-Rtu, SPI, Modbus-Tcp communication
- Reserved expansion communication port,



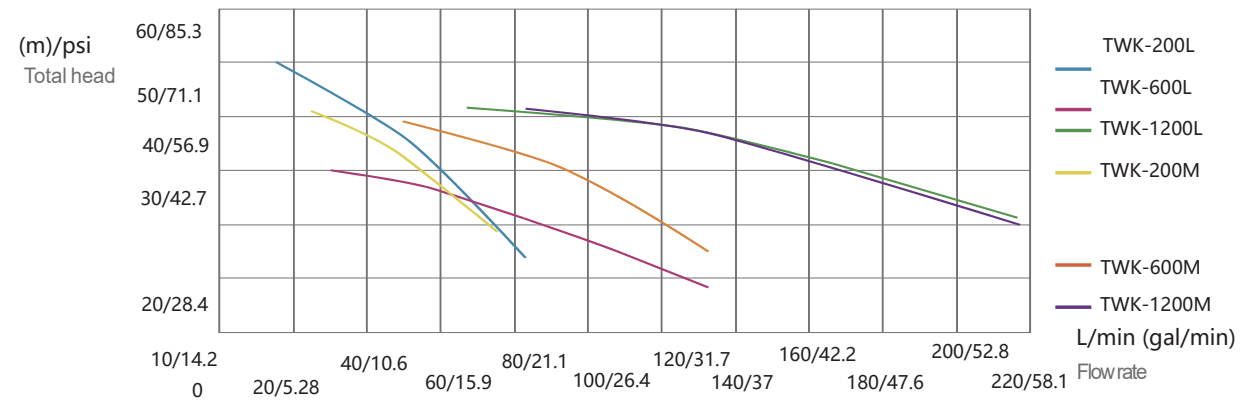
Specifications

Model	TWK-200L-KS	TWK-600L-KS	TWK-1200L-KS	TWK-200M-KS	TWK-600M-KS	TWK-1200	
Medium	Fresh water※1						
Temperature (°C)/(°F)	Max. 90/194			Max.120/248			
Control Method	PID control						
Heater	Capacity (kW)	6.0	9.0	12.0	6.0	12.0	
	Control	Control SSR					
	Heating method	Direct heating					
Medium Pump	Seal Method	Mechanical seal					
	Motor Capacity(kW)	0.75	0.55	1.5	0.75	1.1	1.5
	Max. Pressure (MPa) / psi	0.54 /78.3	0.32 /46.4	0.45/65.3	0.41/59.5	0.39/56.6	0.41/59.5
	Max. Flow(L/min) / (gal/min)	83/22	133/35.1	217/57.3	75/19.8	133/35.1	217/57.3
	Flow Rate (L/min) / (gal/min)	17/4.5	50/13.2	83/21.9	25/6.6	83/21.9	133/35.1
	Total Head (m) / (psi)	50/71.1	36/51.2	14/19.9	30/42.7	21/29.9	8/11.4
Control Method	Direct cooling						
Cooling Capacity (kW)※2	7.3	10.8	15.1	7.3	10.8	15.1	
Pipe Size	Circulation Line	10A×2 Direction	10A×4 Direction	15A×4 Direction	10A×2 Direction	10A×4 Direction	15A×4 Direction
	Cooling Line	15A					
Alarm	Phase reverse, Medium shortage, Pump overload, Sensor error, Temp. upper limit and lower limit						
Utility	Power Supply	AC 230-460V/60Hz 3P+E					
	Main Breaker Capacity/ (220V/60A)	15/32	20/40	32/63	15/32	32/50	32/63
	Power Demand/ (kW)	6.8	9.6	13.5	6.8	10.1	13.5
	Compressed Air Requirement/ (L/min)×(ANR)(0.4~0.6MPa) (58 - 87 psi)	Proper amount for Air purge (op)					
	Cooling Water Volume (L/min) / (gal/min)	≥15/4	≥25/6.6	≥45/11.9	≥15/4	≥25/6.6	≥45/11.9
Cooling Water Pressure (MPa) / (psi)	0.1~0.3 / 14.5 - 43.5 psi						
Accessories	Heat resisting pipe (with adapters)	10A×0.5m×2pcs 10A×3m×4pcs			10A×0.5m×4pcs 10A×3m×8pcs		15A×0.5m×4pcs 15A×3m×8pcs
	Heat resisting pipe	10A×15m(49.2feet)×1pcs	10A×15m(49.2feet)×2pcs	15A×15m(49.2feet)×2pcs 10A×15m(49.2feet)×1pcs	10A×5m(16.4feet)×1pcs		
	Power supply cable	5m(16.4feet)/Power					
Weight/ (kg) / (lbs)	55/121	70/154	100/220	67/148	75/165	120/265	

※1. For the management of water quality, refer to the water quality standards of the Japan Refrigeration and Air Conditioning Industry Association(JRA-GL-02-1994). In addition, do not use pure water please.

※2. This cooling capacity is the actual value when the pressure of cooling water supply is 0.2MPa and the difference between the set medium temperature and the cooling water inlet temperature is 30°C.

(50Hz)
Pump Curve



Standard

- Display in ±0.1°C(32.2°F) increments
- Temperature sensor Pt100 Ω
- SSR for heater control
- RJ45 Ethernet port

- Run/Stop function of weekly calendar reservation (to set run and stop time weekly)

Dimensions

