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

- SelectionTable for Branch Pipe (for medium process/return) and Hose

TWK-L series

Model	TWK-200L-KS			TWK-600L-KS			TWK-1200L-KS		
Branch pipe		Option		Standard	Option		Standard	Option	
Connecting hose (option)	10A *1 15m(492feet)×1 pcs.	10A *2 15m(492feet)×2 pcs.	25A 6m(197feet)×1 pcs.	10A *2 15m(492feet)×2 pcs.	15A *1 15m(492feet)×1 pcs.	25A 6m(197feet)×1 pcs.	15A *2 15m(492feet)×2 pcs.	20A *1 15m(492feet)×1 pcs.	40A 3m(9.8feet)×2 pcs.

Heat resisting hose
No Option

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

TWK-M series

Model	TWK-200M-KS			TWK-600M-KS			TWK-1200M-KS		
	Standard 10A×2 directions	Option 8A×4 Directions	Option No branch pipe	Standard 10A×4 directions	Option 15A×2 directions	Option No branch pipe	Standard 15A×4 directions	Option 20A×2 direction s	Option No branch pipe
Branch pipe	10A 3m(9.8feet)×4 pcs. 10A 0.5m(1.64feet)×2 pcs.	8A 3m(9.8feet)×8 pcs. 8A 0.5m(1.64feet)×4 pcs.	25A 3m(9.8feet)×2 pcs.	10A 3m(9.8feet)×8 pcs. 10A 0.5m(1.64feet)×4 pcs.	15A 3m(9.8feet)×4 pcs. 15A 0.5m(1.64feet)×2 pcs.	25A 3m(9.8feet)×2 pcs.	15A 3m(9.8feet)×8 pcs. 15A 0.5m(1.64feet)×4 pcs.	20A 3m(9.8feet)×4 pcs.	40A 3m(9.8feet)×2 pcs.

Heat resisting hose(with adapter)
No Option

Connecting hose (option)

Spesification

	Heat resisting hose	Heat resisting hose (with adapters at both ends)
Medium	Water	Water
Temperature	≥90℃(194℉)	≥120℃(248℉)
Pressure	≥0.65MPa	≥1.0MPa
Material	Rubber	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.

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KAWATA

Mold Temp Controller

CE

TWK Series

JUSTTHERMO α

Conserves Space

Advanced Technology, Global model pursuing versatility

- Medium : Freshwater
- Temperature 90℃/120℃ 194℉/248℉

Whole machine conforming to CE standard with reliable safety performance

High accuracy

- Temperature readout in 0.1℃ increments
- Pt100Ω 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

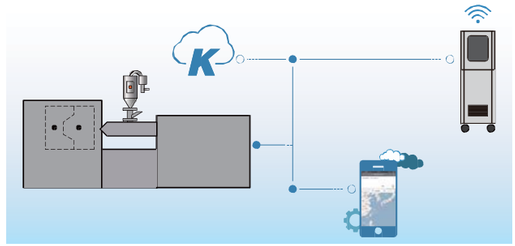
- Visual interface and humanized operation

High-Pressure Large-Flow Pump

Rational design of inspection and maintenance

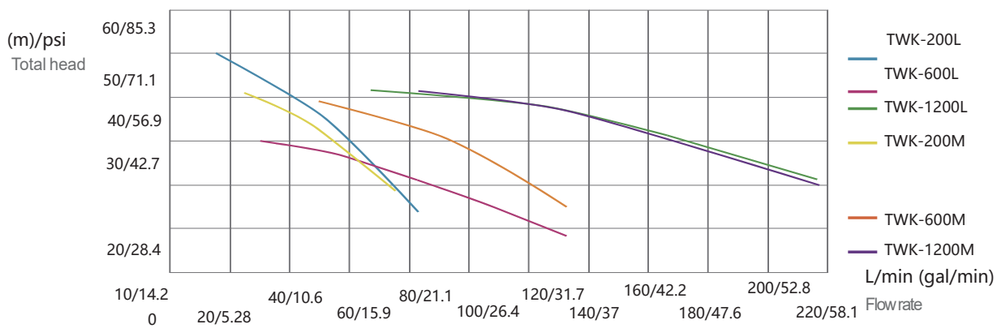
Multi-functional Internet of Things

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



(50Hz)

Pump Curve



Standard

- Display in ± 0.1℃(32.2℉) increments
- Temperature sensor Pt100Ω
- SSR for heater control
- RJ45 Ethernet port

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

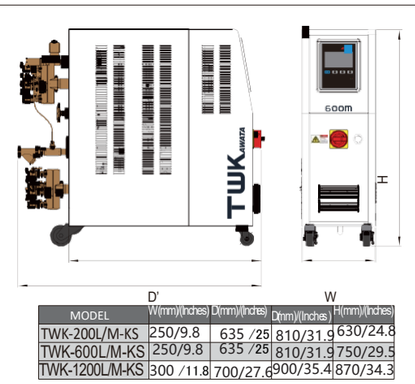
Specifications

Model		TWK-200L-KS	TWK-600L-KS	TWK-1200L-KS	TWK-200M-KS	TWK-600M-KS	TWK-1200
Medium		Fresh water※1					
Temperature (℃)/(℉)		Max. 90/194			Max.120/248		
Control Method		PID control					
Heater	Capacity (kW)	6.0	9.0	12.0	6.0	9.0	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	67/17.7 166/439 217/573	25/6.6 50/13.2 75/198	50/13.2 91/124 133/35.1	83/219 133/35.1 217/573
	Total Head (m) / (psi)	50/71.1 36/512 14/199	30/42 21/299 8/11.4	42/59.7 31/441 21/299	41/58.3 33/469 19/27	39/55.5 31/44.1 15/21.3	42/59.7 37/52.6 20/28.4
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+Grounding					
	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)					
	CoolingWaterVolume (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℃.

Dimensions



MODEL	W(mm)/(inches)	D(mm)/(inches)	D'mm)/(Inches)	H(mm)/(inches)
TWK-200L/M-KS	250/9.8	635 /25	810/31.9	630/24.8
TWK-600L/M-KS	250/9.8	635 /25	810/31.9	750/29.5
TWK-1200L/M-KS	300 /11.8	700/27.6	900/35.4	870/34.3