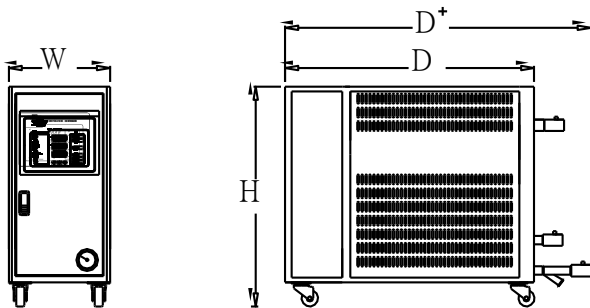


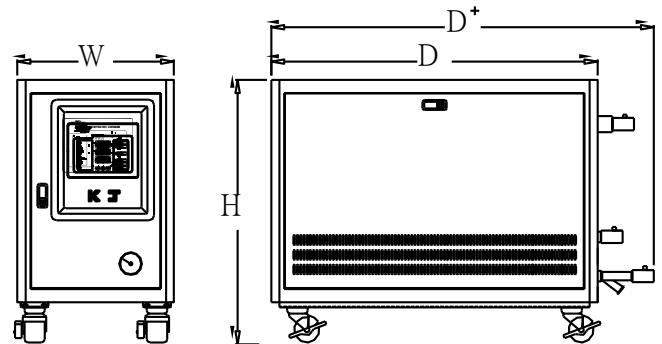
# WATER TEMPERATURE CONTROLLER

## FEATURES:

1. Microprocessor controller monitors the operation status easily.
2. PID temperature controller to ensure the precision temperature within  $\pm 0.5^{\circ}\text{C}$  tolerance.
3. Control method can be upgraded to PLC program with 4.3 "color touch panel.
4. Machine automatic venting, and automatic cooling after motor delay shutdown to protect the heater to ensure safety.
5. Temperature high low monitoring, more precise control of temperature setting.
6. Comprehensive safety protection system:
  - ⊙Non-fuse breaker                      ⊙Buzzer
  - ⊙Motor reverse protector            ⊙Overheat protector
  - ⊙Pump overload protector          ⊙Auto pressure-relief device
  - ⊙Fluid shortage protector          ⊙Adjustable by-pass circulation

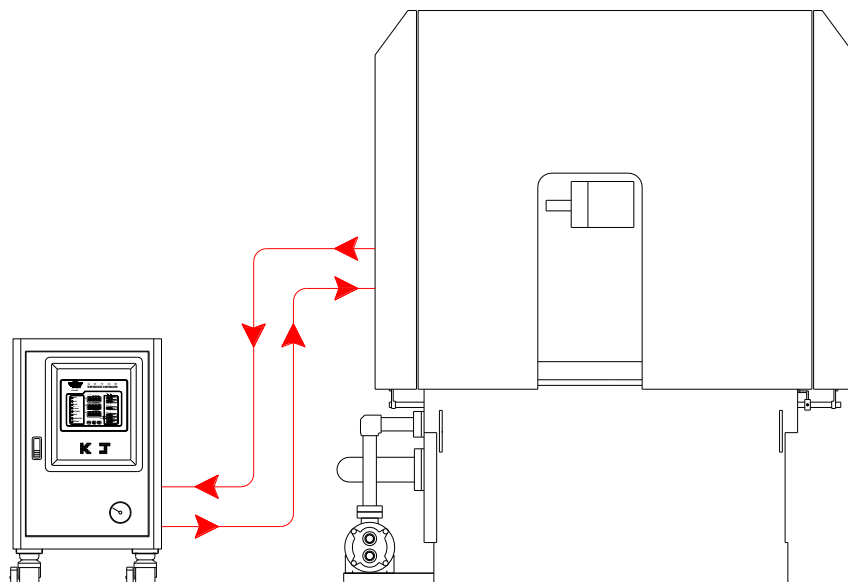


KWTC-0506~2012



KWTC-3020~7560

## FLOW CHART:





**SPECIFICATIONS**

Model		KWTC-0506N KWTC-0506S	KWTC-1009N KWTC-1009S			KWTC-2012N KWTC-2012S			KWTC-3020N KWTC-3020S			KWTC-5030N KWTC-5030S			KWTC-7560N KWTC-7560S						
Fluid		Water																			
Max. temperature	°C	120			120			120			120			120			120				
Control method		PID Microprocessor controller ± 0.5°C or update to PLC program with 4.3 "color touch panel.																			
Heater capacity	KW	6			9			12			20			30			60				
Pump	Type	N Series		Mechanical seal																	
		S Series		SUS & Mechanical seal																	
	60 HZ	KW	0.56			0.96			1.29			2.20			2.90			5.50			
	50 HZ		0.53			0.85			1.40			2.00			2.90			5.50			
Flow ↑ Pressure	60 HZ	LPM		66	33	17	150	83	33	200	150	100	266	200	133	266	200	133	550	450	250
		KG/CM <sup>2</sup>		1.1	1.9	2.2	1.0	1.8	2.1	1.4	1.8	2.2	1.7	2.3	2.6	2.7	3.5	4.0	1.5	3.2	5.0
	50 HZ	LPM		58	33	17	133	85	33	167	120	66	233	167	100	233	167	100	450	300	150
		KG/CM <sup>2</sup>		1.3	2.0	2.5	1.0	1.8	2.5	1.5	2.5	2.8	1.7	2.5	2.9	2.8	3.4	3.8	1.5	3.2	4.5
Cooling type		Direct cooling																			
Fluid piping	INCH	3/8*2			3/8*4			1			1-1/2			2			2				
Cooling water	INCH	1/2			1/2			1/2			1			1			1				
	KG/CM <sup>2</sup>	Temp. < 100°C over 1.0 KG/CM <sup>2</sup> , Temp. ≥ 100°C over 2.0 KG/CM <sup>2</sup>																			
Total load	60 HZ	KW	6.6			10.0			13.3			22.2			32.9			65.5			
	50 HZ		6.6			9.9			13.4			22.0			32.9			65.5			
Dimension (W*D*H)	CM	35*77*68			35*77*68			35*77*68			48*100*80			48*110*80			60*131*123				
D <sup>+</sup> (With Pipeline)	CM	94			94			94			135			145			166				
Approx. weight	KG	68			80			88			150			165			300				
Options	1.Teflon hose                      2.Multiple inlet & outlet joints                      3. PLC Control																				
Remarks	1.The piping of S series is SUS type. 2.We reserve the right to change specifications without prior notice.																				



## SPECIFICATIONS

Model		KWTC-0506SH	KWTC-1009SH	KWTC-2012SH	KWTC-1009SHI	KWTC-2012SHI	
Fluid		Water					
Max. temperature	°C	140	140	140	160	180	
Control method		PID Microprocessor controller ± 0.5°C or update to PLC program with 4.3 "color touch panel.					
Heater capacity	KW	6	9	12	9	12	
Circulation pump	Type	Mechanical seal			SUS & Sealless		
	60 HZ	KW	0.5	0.8	1.5	1.1	
	50 HZ						
Flow ↑ Pressure	60 HZ	LPM	28	60	93	56	56
		KG/CM <sup>2</sup>	3.8	3.8	3.8	6.4	11.0
	50 HZ	LPM	22	44	74	37	37
		KG/CM <sup>2</sup>	3.8	3.8	3.8	6.4	11.0
Water Filling Pump	Type	Electromagnetic Vibration					
	KW	0.05	0.05	0.05	0.05	0.05	
Flow ↓ Pressure	60 HZ	LPM	0.57	0.57	0.57	0.45	0.27
		KG/CM <sup>2</sup>	3.8	3.8	3.8	6.4	11.0
Cooling type		Indirect cooling					
Fluid piping	INCH	3/8*4	1/2*4	1	3/8*4	3/8*4	
Cooling water	INCH	1/2	1/2	1/2	1/2	1/2	
	KG/CM <sup>2</sup>	Over 1.0 KG/CM <sup>2</sup>					
Total load	60 HZ	KW	6.55	9.85	13.55	10.15	13.25
	50 HZ						
Dimension (W*D*H)	CM	35*77*68	40*82*76	40*82*76	40*82*76	40*82*76	
D <sup>+</sup> (With Pipeline)	CM	103	103	103	103	103	
Approx. weight	KG	77	97	102	112	112	
Options		1.Teflon hose	2.Multiple inlet & outlet joints	3. PLC Control			
Remarks		1.The piping of H and SHI series are SUS type. 2.We reserve the right to change specifications without prior notice.					