

i-Temp wi collection

The i-Temp wi collection has been developed to offer a large performance range by means of modular design with various combinations of heating and cooling elements which cater for a wide variety of applications. Providing complete reliability, highly accurate control, ease of handling and a favourable cost/performance ratio, these versatile heaters offer any industrial process application a consistent yet flexible temperature control solution.

The i-Temp wi units are designed as water heaters with indirect cooling for usage with open tank up to 95°C and as a closed system up to 160°C.

Furthermore all units feature intelligent controllers as standard offering accurate temperature measurement, indication and monitoring.

Unit features include:

- Self optimising C8 advanced controller with high control accuracy
- Simultaneous display of set and actual values
- Measuring, indication and monitoring of the flow rate (optional)
- Integrated operating and service information
- Storage and recall of process parameters with memory card
- Solid State Relays – energy saving control
- Continuous monitoring of process parameters
- Optional connection for external probe (PT100 or Fe-CuNi)
- Optional interfaces at front panel (analogue 0-10v, 0/4-20mA; serial RS 232, RS 422, RS 485, TTY, Can Bus, Profibus, Profinet, Devicenet, and Euromap 66)
- Splash proof electrics



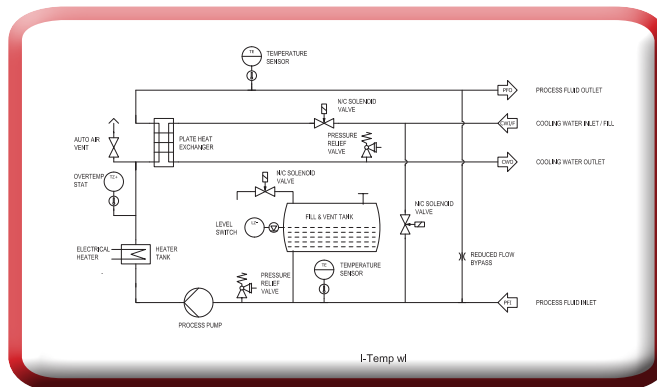
CONTACT US

Call us free
UK & N.I. freephone:
0800 169 3861
European freephone:
0800 0116 0117
 or visit our website
www.icscoolenergy.com




















ICS House,
 Stephenson Road,
 Calmore Industrial Estate,
 Totton, Southampton,
 SO40 3SA

E&OE. All data is subject to change and continuous improvement without notice. Equipment designed to ISO 9001 and all relevant electrical, pressure and mechanical directives.

© ICS Cool Energy. All rights reserved.



SYMBOL INDEX

 COOLING COIL	 HIGH PRESSURE SWITCH	 N/C SOLENOID VALVE	 PROCESS FLUID INLET
 ELECTRICAL HEATER	 LOW LEVEL SWITCH	 PRESSURE RELIEF VALVE	 PROCESS FLUID OUTLET
 PUMP	 OVER TEMPERATURE STAT	 NON RETURN VALVE	 COOLING WATER OUTLET
 PLATE HEAT EXCHANGER	 TEMPERATURE SENSOR	 Y TYPE STRAINER	 MANUAL FILL
	 3 WAY SWITCHABLE BLOCK	 REDUCED FLOW BYPASS	 COOLING WATER INLET/FILL

Temperature control units water indirect 95°C, 140°C, 150°C and 160°C

● = Standard / ○ = Option / – = not available/ Values in () optional

	Model i-Temp	i-Temp wi 100	i-Temp wi 150	i-Temp wi 250	i-Temp wi 400	i-Temp wi 500
Technical data	Fluid	water	water	water	water	water
	Temperature max. (°C)	140	140 (95, 150, 160)		140 (95, 150)	
	Pump capacity max. (l/min/bar)	7.0/4.7	200/5.1	230/5.5	420/3.6	500/4.2
	Heating capacity, selectable (kW)	9/18/27/36/45/54	9/18/27/36/45/54/63/72	9/18/27/36/45/54/63/72	9/18/27/36/45/54/63/72	9/18/27/36/45/54/63/72
	Cooling	indirect	indirect	indirect	indirect	indirect
	Cooling capacity (kW) ¹	100	200	270	460	600
	Process circuit supply and return connections ²	G1"	G1¼"	G1½"	DN 50	DN 65
	Housing length L (mm) ³	990 (1120/1465)	990 (1120/1465)	990 (1120/1465)	1465	1465
	Housing width W (mm) ³	430 (510/570)	430 (510/570/695)	430 (510/570/695)	570 (695)	570 (695)
	Housing height H (mm) ³	935 (1275)	935 (1035/1275)	935 (1035/1275)	1275	1275
Standard specification	Weight min. depending on the specification (Kg)	80	120	150	200	200 - 500
	Control of cooling with solenoid valve	●	●	●	●	●
	Automatic fill	●	●	●	●	●
	Automatic venting and pressure relief	●	●	●	●	●
	Electronic level control with dry-running protection	●	●	●	●	●
	Safety thermostat	●	●	●	●	●
	Adjustable point limits	●	●	●	●	●
	Ramp function for temperature alteration	●	●	●	●	●
	Cooling down to safety temperature when switching off	●	●	●	●	●
	Strainer in cooling water inlet	●	●	●	●	●
	Continuous heater control with switch cabinet fan	●	●	●	●	●
	Acoustic alarm	○	○	○	○	○
	Digital flow rate indication and monitoring	○	○	○	○	○
	Separate fill line	○	○	○	○	○
	Pressurised air valve for mould draining	○	○	○	○	○
options	Return temperature indication	○	○	○	○	○
	Connection for external Fe-CuNi or Pt 100	○	○	○	○	○
	Interface for central machine control	○	○	○	○	○
	Strainer in return line circulation medium	○	○	○	○	○
	Control of cooling with motor valve	○	○	○	○	○
Additional expansion tank for large external volumes	○	○	○	○	○	

1) at 15°C cooling water temperature and 130°C circulation medium temperature

2) depending on cooling water amount

3) depending on built in heating and cooling capacities as well as the size of the expansion tank