



ABOUT THE i-TEMP RANGE

ICS Cool Energy temperature control units, models i-Temp ci are heating and cooling units built for performance. Using the latest technology they are built with maximum energy savings in mind.

i-Temp ci models are water units with indirect cooling, using an open tank up to 95°C and as a closed system up to 160°C.

There are two variants, one as a low cost entry model (version e) and one as an advanced unit with touchscreen, (version t).

Unit features include:

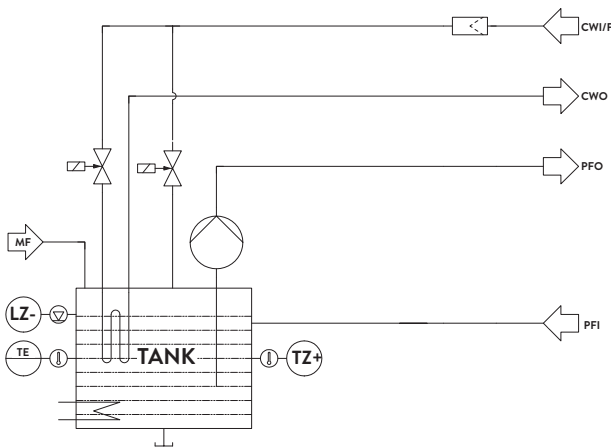
Self optimising C8 advanced controller with high control accuracy (version t)

Touch screen for log in, control and monitoring of process parameters (version t)

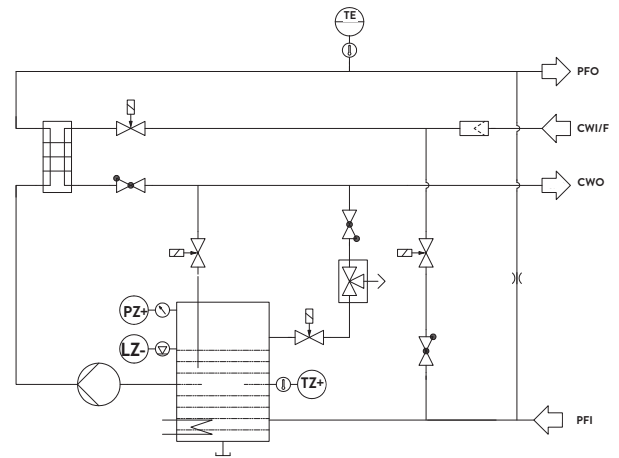
Measuring, indication and monitoring of flow rate (version t)

Return temperature indication (version t)




















i-TEMP ci 90e



i-TEMP ci 140e



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 controllers water indirect 95°C, 120°C, 140°C and 160°C

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

Model i-Temp	i-Temp ci 90e	i-Temp ci 140e	i-Temp ci 160e	i-Temp ci 90t 9	i-Temp ci 90t 18	i-Temp ci 90t 27	i-Temp ci 90t 36	i-Temp ci 140t	i-Temp ci 140t 18	i-Temp ci 160t
Fluid	water	water	water	water	water	water	water	water	water	water
Temperature max. (°C)	95	140	160	95	95	95	95	140	140	140/160
Pump capacity max. (l/min/bar)	60/3.8 (6.0)	60/5.5	60/5.5	60/3.8 (6.0)	75/5.5	170/4.7	170/4.7	60/5.5	60/5.5	60/5.5
Heating capacity (kW)	9	9	9	9	18	27	36	9	12/18	9
Cooling	indirect	indirect	indirect	indirect	indirect	indirect	indirect	indirect	indirect	indirect
Cooling capacity (kW) ¹	23 (42)	40	40	23 (42)	50	250	250	40	40	40
Weight (kg)	44	50	50	46	95	100	100	50	95	50
Process circuit supply and return connections	G½"	G½"	G½"	G½"	G¾"	G1"	G1"	G½"	G¾"	G½"
Cooling water supply and return connections	G¼"	G¼"	G¼"	G¼"	G½"	G¾"	G¾"	G¼"	G½"	G¼"
Dimensions in mm (L x W x H)	680 x 250 x 595	680 x 250 x 595	680 x 250 x 595	680 x 250 x 595	955 x 400 x 740	955 x 400 x 740	955 x 400 x 740	680 x 250 x 595	955 x 400 x 740	680 x 250 x 595
Touchscreen with colour display	–	–	–	●	●	●	●	●	●	●
Digital display	●	●	●	–	–	–	–	–	–	–
Robust fully galvanised steel housing, painted in two colours	●	●	●	●	●	●	●	●	●	●
Automatic fill	●	●	●	●	●	●	●	●	●	●
Strainer in cooling water inlet	●	●	●	●	●	●	●	●	●	●
Durable rubber coated castors	●	●	●	●	●	●	●	●	●	●
All contact parts made of non-corrosive materials	●	●	●	●	●	●	●	●	●	●
Continuous heater control	●	●	●	●	●	●	●	●	●	●
Audible alarm	●	●	●	●	●	●	●	●	●	●
Separate fill line	○	○	–	○	○	○	○	○	○	○
Leak stopper	●	● ²	● ²	●	●	●	●	● ²	●	● ²
Mould draining	●	○ ³	○ ³	●	●	●	●	○ ³	○	○ ³
Constant cooling	–	–	–	–	–	–	–	–	–	–
Magnetic coupled stainless steel pump	–	○	●	–	–	–	–	○	–	●
Integrated top up-pump	–	–	●	–	–	–	–	–	–	●
Measuring, indication and monitoring of flow rate	–	–	–	●	●	●	●	●	●	●
Return temperature indication	–	–	–	●	●	●	●	●	●	●

* shut off valve on PFI/PFO

- 1) at 15°C cooling water temperature and 90°C resp. 130°C circuit water temperature
- 2) not in combination with mould drain function
- 3) not in combination with leak stopper



ABOUT THE i-TEMP RANGE

ICS Cool Energy temperature control units, models i-Temp cd are heating and cooling units built for performance. Using the latest technology they are built with maximum energy savings in mind.

i-Temp cd models are designed as water units with direct cooling, for usage up to 140°C.

There are two variants, one as a low cost entry model (version e) and one as an advanced unit with touchscreen, (version t).

Unit features include:

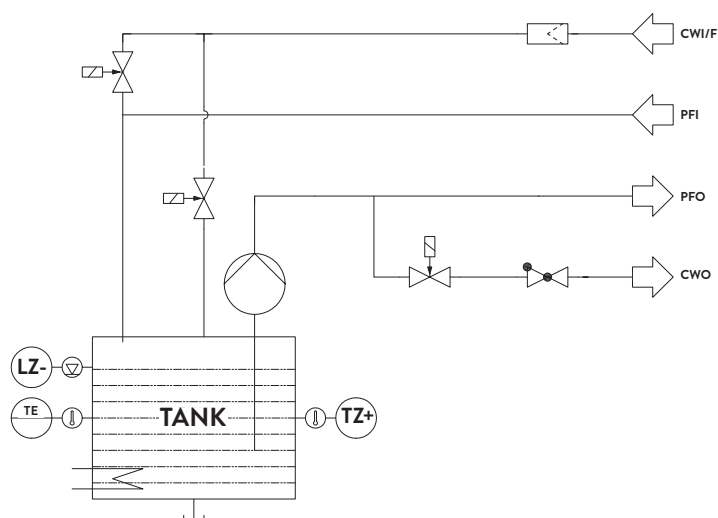
Self optimising C8 advanced controller with high control accuracy (version t)

Touch screen for log in, control and monitoring of process parameters (version t)




















Measuring, indication and monitoring of flow rate (version t)

Return temperature indication (version t)

i-TEMP cd 90e 9



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 controllers water indirect 95°C, 120°C, 140°C

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

Model i-Temp	i-Temp cd 90e	i-Temp cd 140e	i-Temp cd 90t	i-Temp cd 120t
Fluid	water	water	water	water
Temperature max. (°C)	95	140	95	120
Pump capacity max. (l/min/bar)	60/3.8 (6.0)	30/5.4.4	70/4.7	70/4.7
Heating capacity (kW)	6-9	6	6-18	6-18
Cooling	direct	direct	direct	direct
Cooling capacity (kW) ¹	52	32	140	195
Weight (kg)	44	35	50	50
Process circuit supply and return connections	G½"	G¾"	G¾"	G¾"
Cooling water supply and return connections	G½"	G½"	G½"	G½"
Dimensions in mm (L x W x H)	680 x 250 x 595	480 x 250 x 546	955 x 400 x 740	955 x 400 x 740
Touchscreen with colour display	–	–	●	●
Digital display	●	●	–	–
Robust fully galvanised steel housing, painted in two colours	●	●	●	●
Automatic fill	●	●	●	●
Strainer in cooling water inlet	●	●	●	●
Durable rubber coated castors	●	●	●	●
All contact parts made of non-corrosive materials	●	●	●	●
Continuous heater control	●	●	●	●
Audible alarm	●	●	●	●
Separate fill line	○	○	–	–
Leak stopper	–	●	–	–
Mould draining	●	● ²	○ ³	○ ³
Constant cooling	–	●	●	●
Magnetic coupled stainless steel pump	–	●	–	–
Integrated top up-pump	–	● ²	–	–
Measuring, indication and monitoring of flow rate	–	–	●	●
Return temperature indication	–	●	●	●

* shut off valve on PFI/PFO

1) at 15°C cooling water temperature and 90°C resp, 130°C circuit water temperature
2) not in combination with mould drain function
3) not in combination with leak stopper