

# TCI56-91 Size 2

Immersion coil chillers

## COOLING CAPACITY

6000 - 7100 - 8100 - 9650 - 9200 - 11000 W



### STRUCTURE

In powder-coated steel sheet, RAL 7035 textured finish. Easily removed panels

### COMPRESSOR

Hermetic SCROLL compressor, cooled by the refrigerant, complete with thermal cut-out.

### REFRIGERATION CIRCUIT

Complete with charging port, drier filter, thermostatic valve, high- and low-pressure pressure switch, refrigerant gas.

### EVAPORATOR

Dual concentric coil in AISI 304 stainless steel. Resin-covered stainless-steel regulation sensor, IP67 rated.

### AIR CONDENSER

Finned high-efficiency copper tube condensing coil, complete with safety grille.

### AXIAL FAN

Axial fan, complete with thermal cut-out and safety grille. On request, centrifugal fan for air expulsion ducting.

### ELECTRICAL PANEL

With main disconnect switch, fused motor protection.

### MANAGEMENT AND CONTROL

The TX110 control unit manages the chiller's operation, providing warnings including high/low temperature alarms and a general serious fault alarm, with the display indicating if this refers to the refrigeration circuit or protection of the immersion coils. An on-off contact allows the machine to be switched on remotely. Control disconnect switch for switching on the machine.

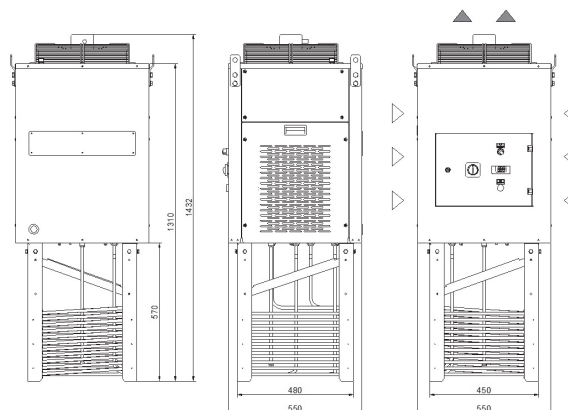
### PAINT/COATING

Standard colour: RAL 7035 textured.

### MAIN ACCESSORIES (on request, ref. page 181)

- LE - Electric level
- FP - Polyurethane air filter
- TD - Differential fluid temperature management (two sensors)
- BGP - Hot gas bypass for +/- 0.5 K temperature precision
- Agitator for fluid movement
- Non-standard paint/coating
- Satin AISI 304 stainless steel framework
- Design of higher cooling powers with dedicated framework
- Centrifugal fans for condensation air ducting

## Dimensions



Model		TCI56		TCI70		TCI91	
<b>Rated Cooling Capacity*</b>	W	6000	7100	8100	9650	9200	11000
Ambient temperature operating limits	°C	-5 - +45					
Settable fluid temperature range	°C	+15 / +25 water or emulsion max 5 cSt - 40°C +20 / +30 mineral oil 32 cSt - 40°C					
Temperature precision	K	+/- 1					
Refrigerant gas	HFC	R134a					
Minimum fluid flow rate (emulsion/oil)	l/min	40 - 60					
Minimum volume in tank (emulsion/oil)	l	60 - 100					
<b>Power supply</b>							
Supply voltage	V ph Hz	400/460V (+/-10%) 3ph 50/60Hz					
Secondary supply voltage	V	230V-24V AC					
Digital thermostat		TX110					
<b>Compressor</b>							
Compressor type		Scroll					
Quantity - Number of circuits	no.	1 - 1					
Max. power draw	kW	3.7	4.5	4.2	5.1	2.9	3.6
Max. current draw	A	5.4	6.3	7.1	8.0	6.0	6.9
<b>Axial Fan</b>							
Fan type		Axial					
Quantity	no.	1					
Air flow rate	m³/h	2000					
Max. power draw	W	0.18	0.25	0.18	0.25	0.18	0.25
Max. current draw	A	0.81	1.1	0.81	1.1	0.81	1.1
* Data relates to operation under the following conditions: Ambient temperature 32°C.							
** Sound pressure level, measured in a free hemispherical field at a distance of 1 m from the machine and 1.5 metres from the ground, per ISO 3746.							
*** Weight includes pallets and packaging (where provided for), with refrigerant charge and axial fans.							
**** The electrical data refer to cos φ = 0.8.							

Correction factors for calculating the cooling power								
Ambient Temperature	Emulsion	Oil	Cooling capacity					
32	15	20	4620	5467	6237	7431	7084	8470
	20	25	5460	6461	7371	8782	8372	10010
	25	30	6000	7100	8100	9650	9200	11000
37	15	20	4560	5396	6156	7334	6992	8360
	20	25	5460	6461	7371	8782	8372	10010
	25	30	5700	6745	7695	9168	8740	10450
42	15	20	4620	5467	6237	7431	7084	8470
	20	25	5400	6390	7290	8685	8280	9900
	25	30	5460	6461	7371	8782	16198	18610