

TCOB2-C8 Size 4

Industrial oil chillers

COOLING CAPACITY

23000 - 28300 - 32800 - 37600 W



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.

HYDRAULIC CIRCUIT

Hydraulic circuit with screw pump without tank, with maximum available pressure 20 bar, pressure limiting valve calibrated at 10 bar, 0-25 bar oil pressure gauge, protective flow switch, regulation sensor.

ELECTRICAL PANEL

With main disconnect switch, relay motor protection, phase sequence relays.

MANAGEMENT AND CONTROL

The TX200 control unit manages the operation of the chiller and provides complete operator alarm diagnostics. An on-off contact allows the machine to be switched on remotely. Illuminated control selector. Possibility of remote display for machine regulation.

PAINT/COATING

Standard colour: RAL 7035 textured.

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, safety valve, liquid receiver, drier filter, liquid inspection port, solenoid valve, thermostatic valve, high- and low-pressure pressure switch, R410A refrigerant.

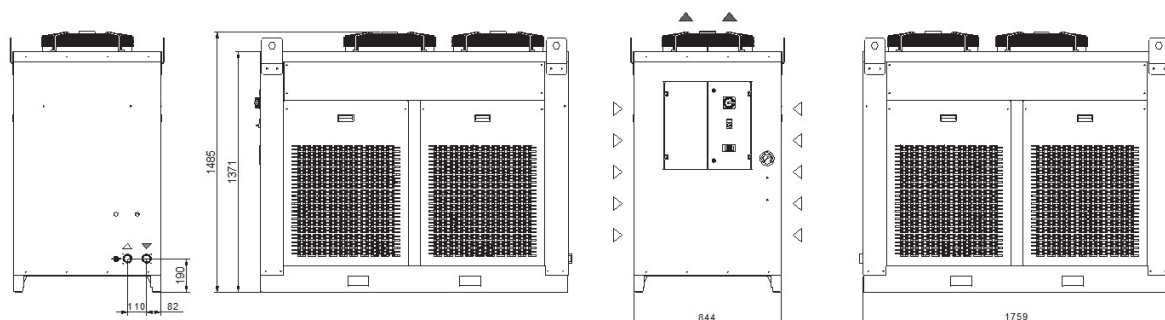
EVAPORATOR

With brazed stainless-steel plates and temperature sensor for protection against freezing.

MAIN ACCESSORIES (ref. page 189)

- HR - Oil heating element
- LTA - Operation at low ambient temperatures
- FP - Polyurethane air filter
- RU - Castors
- TD - Differential fluid temperature management (two sensors)
- FL - Customer flow switch.
- Non-standard paint/coating
- Satin AISI 304 stainless steel framework
- Temperature Precision +/- 1 K

Dimensions



Model		TCOB2	TCOB7	TCOC1	TCOC8
Rated Cooling Capacity*	W	23000	28300	32800	37600
Ambient temperature operating limits	°C	+15 - +45			
Settable oil temperature range	°C	+25 - +40			
Fluid type		ISO VG 32			
Temperature precision	K	+/-2			
Refrigerant gas	HFC	R410A			
Power supply					
Supply voltage	V ph Hz	400V (+/-10%) 3ph 50Hz			
Secondary supply voltage	V	24 V AC			
Digital thermostat		TX200			
Compressor					
Compressor type		Scroll			
Quantity - Number of circuits	no.	1 - 1			
Max. power draw	kW	8.6	10.1	11.6	13.3
Max. current draw	A	15	17.3	18.8	23
Axial Fan					
Fan type		Axial			
Quantity	no.	2	2	2	2
Air flow rate	m ³ /h	10000	10000	10000	10000
Max. power draw	kW	1.4	1.4	1.4	1.4
Max. current draw	A	2.8	2.8	2.8	2.8
Centrifugal Fan (optional)					
Fan type		Centrifugal			
Quantity	no.	2	2	2	2
Air flow rate	m ³ /h	10000	10000	10000	10000
Available head	Pa	250	250	220	220
Max. power draw	kW	3	3	3	3
Max. current draw	A	6	6	6	6
Standard Pump					
Pump type		Screw pump			
Quantity	no.	1	1	1	1
Nominal fluid flow rate	l/min	120	120	120	120
Nominal available head	bar	20	20	20	20
Max. power draw	kW	6	6	6	6
Max. current draw	A	10.2	10.2	10.2	10.2
Storage tank capacity (optional)	l	220			
IN/OUT liquid connections	inch	1 1/2"			
Net weight (approximate)***	kg	440	460	500	520
Width	mm	844			
Depth	mm	1759			
Height	mm	1485			
Sound pressure level**	dB(A)	70	70	70	70
IP rating	IP	44			

* Data relating to operation under the following conditions: intake/outlet temperature 40/30°C, ISO VG 32 oil, ambient temperature 32°C. Cooling power refers to the evaporator unit.

** 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, without storage tank and axial fans.

**** The electrical data refer to cos φ = 0.8.

Correction factors for calculating the cooling power												
Oil outlet temperature	Fo	°C	20	25	30	35						
		factor	0.82	0.92	1	1.05						
Ambient Temperature	Fa	°C				15	20	25	32	35	40	45
		factor				1.16	1.1	1.05	1	0.97	0.91	0.84
Oil type	Ft	type	ISO VG 10		ISO VG 22		ISO VG 32		ISO VG 46		ISO VG 68	
		factor	1.15		1.1		1		0.9		0.82	
Cooling power = Nominal cooling power x Fo x Fa x Ft												