

Industrial oil chillers

COOLING CAPACITY

11400 - 12400 - 17800 - 20100 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, liquid receiver, drier filter, thermostatic valve, high- and low-pressure pressure switch, R410A refrigerant.

EVAPORATOR

Brazed stainless-steel plate model.

AIR CONDENSER

Microchannel 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 10 bar, high- and low-pressure safety pressure switch, 0-25 bar oil pressure gauge, 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.

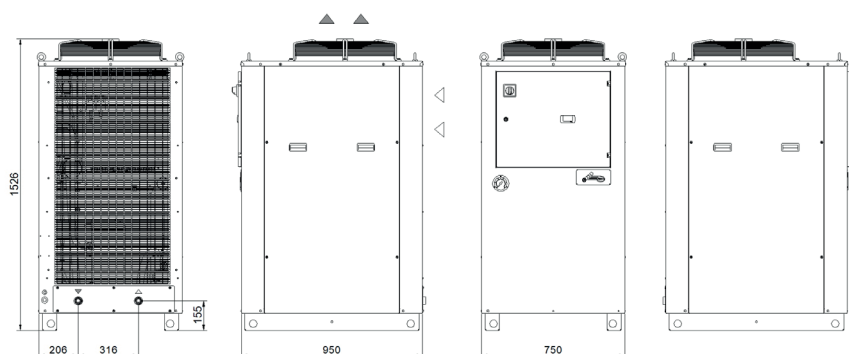
PAINT/COATING

Standard colour: RAL 7035 textured.

MAIN OPTIONS

- BA - Mechanical bypass valve protecting the pump
- LTA - Operation at low ambient temperatures
- FP - Polyurethane air filter
- RU - Castors
- TD - Differential fluid temperature management (two sensors)
- BGC - Hot gas bypass for +/- 1 K temperature precision
- BGP - Hot gas bypass for +/- 0.5 K temperature precision
- UL1 - Electrical panel and UL-certified components
- HP/HS - Harting-type connector
- Outdoor installation options

DIMENSIONS



Model		TAOA1	TAOA3	TAOA5	TAOA8
Rated Cooling Capacity*	W	11400	12400	17800	20100
Ambient temperature operating limits	°C	+15 - +45			
Settable fluid 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			
Nominal power draw	kW	3.03	3.12	4.08	4.91
Axial Fan					
Fan type		Axial			
Quantity	no.	1			
Air flow rate	m³/h	6500	6500	6500	6500
Centrifugal Fan (optional)					
Fan type		Centrifugal			
Quantity	no.	1			
Air flow rate	m³/h	6500	6500	6500	6500
Available head	Pa	250			
Standard Pump					
Pump type		Screw pump			
Quantity	no.	1			
Nominal/max fluid flow rate	l/min	70	70	70	70
Nominal available head	bar	10	10	10	10
Storage tank capacity (optional)	l	130			
IN/OUT liquid connections	inch	1"			
Net weight (approximate)***	kg	200	200	235	235
Width - Depth - Height	mm	750 - 950 - 1526			
Height with tank and pump	mm	1998			
Sound pressure level**	dB(A)	67	67	67	67
<p>* Data relates to operation under the following conditions: inlet/outlet oil temp. 40/30°C, ISO VG 32 oil, ambient temperature 32°C.</p> <p>** Sound pressure level, measured in a free parallelepiped field at a distance of 1 m, per ISO 3746.</p> <p>*** Weight includes pallets and packaging (where provided for), with refrigerant charge, without storage tank and axial fans.</p> <p>The electrical data refer to cos φ = 0.8.</p>					

Correction factors for calculating the cooling power												
Oil outlet temperature	Fo	°C	20	25	30	35						
		factor	0.74	0.82	1	1.22						
Ambient Temperature	Fa	°C				15	20	25	32	35	40	45
		factor				1.26	1.2	1.12	1	0.95	0.87	0.80
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												