

TAOD0-F8 Size 4

Industrial oil chillers

COOLING CAPACITY

40000 - 47000 - 55000-67000 W



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, 0-25 bar oil pressure gauge, regulation sensor, protective flow switch.

ELECTRICAL PANEL

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

MANAGEMENT AND CONTROL

The TX350C 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. RS485 connection. Possibility of remote display for machine regulation.

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. Optional 2-step cooling power regulation (standard on TAOF8).

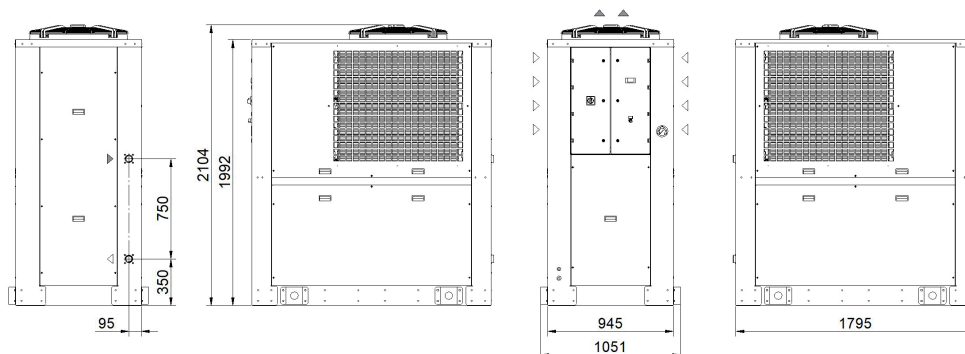
PAINT/COATING

Standard colour: RAL 7035 textured.

MAIN ACCESSORIES (ref. page 189)

- BA - Mechanical bypass valve protecting the pump
- LTA - Operation at low ambient temperatures
- OM - Unit built for outdoor operation down to -10 °C ambient temp.
- FP - Polyurethane air filter
- TD - Differential fluid temperature management (two sensors)
- BGC - Hot gas bypass for +/- 1 K temperature precision
- UL1 - UL certified electrical panel and components
- Outdoor installation optionals

Dimensions



Model		TAOD0	TAOD9	TAOE6	TAOF8
Rated Cooling Capacity*	W	40000	47000	55000	67000
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		TX350C			
Compressor					
Compressor type		Scroll			
Quantity - Number of circuits	no.	1 - 1			2 - 1
Max. power draw	kW	9.4	10.4	12.1	25.0
Axial Fan					
Fan type		Axial			
Quantity	no.	1	1	1	1
Air flow rate	m ³ /h	12600	14400	16000	24000
Centrifugal Fan (optional)					
Fan type		Centrifugal			
Quantity	no.	1	1	1	1
Air flow rate	m ³ /h	12600	14400	16000	24000
Available head	Pa	570	350	200	150
Standard Pump					
Pump type		Screw pump			
Quantity	no.	1	1	1	1
Nominal/max fluid flow rate	l/min	135	160	190	230
Nominal available head	bar	10	10	10	10
Storage tank capacity (optional)	l	200			
IN/OUT liquid connections	inch	1"1/2			
Net weight (approximate)***	kg	580	600	600	600
Width	mm	945			
Depth	mm	1795			
Height	mm	2104			
Sound pressure level**	dB(A)	75	75	75	78
<p>* Data relating to operation under the following conditions: intake/outlet temperature 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 from the machine 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> <p>However, due to our continuous development and improvement of our products, all information is subject to change without notice.</p>					

Correction factors for calculating the cooling power												
Oil outlet temperature	Fo	°C	20	25	30	35						
		factor	0.75	0.83	1	1.20						
Ambient Temperature	Fa	°C				15	20	25	32	35	40	45
		factor				1.27	1.2	1.13	1	0.95	0.86	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												

