C-NEXT

TAOD0÷F8 Size 4

Industrial oil chillers

COOLING CAPACITY	40000 - 47000 - 55000 - 67000 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. Optional 2-step cooling power regulation (standard on TAOF8).

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 pressure gauge, regulation temperature sensor. Hydraulic safety with protective flow switch.

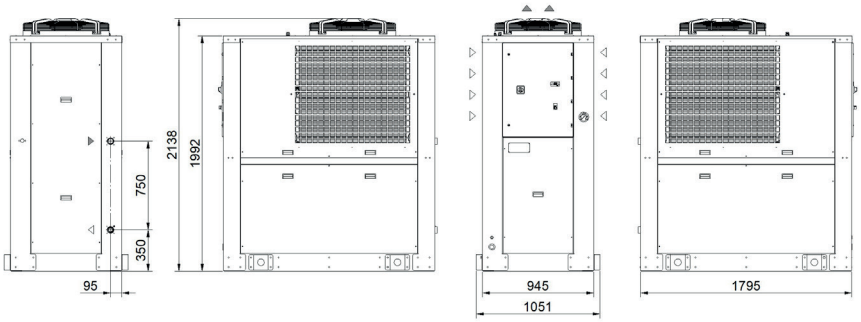
ELECTRICAL PANEL
With main disconnect switch, relay motor protection, phase sequence relays.

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.

PAINT/COATING
Standard colour: RAL 7035 textured.

MAIN OPTIONS
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 - Electrical panel and UL-certified components
- Outdoor installation options

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 - Depth - Height	mm	945 - 1795 - 2138			
Sound pressure level**	dB(A)	75	75	75	78

* Data relates to operation under the following conditions: inlet/outlet oil temp. 40/30°C, ISO VG 32 oil, ambient temperature 32°C.

** Sound pressure level, measured in a free parallelepiped field at a distance of 1 m, 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	0.75	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