C-NEXT

TAO24-37 Size 1

Industrial oil chillers

COOLING CAPACITY	2300-2700 - 3600-4200 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. Stepped cooling power regulation - 2 steps standard / 4 steps optional (standard on TALO6).

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.

LIQUID CIRCUIT
Non-ferrous liquid circuit composed of stainless steel centrifugal electric pump, storage tank made of plastic material complete with drain valve, electrical level indicator, 0-10 bar pressure gauge, differential pressure switch protecting the water flow, automatic by-pass and regulation sensor.

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
FL - Flow switch with alarm contact
HR - Fluid heating element
OM - Unit built for outdoor operation down to -10 °C ambient temp.
OML - Unit built for outdoor operation down to -20 °C ambient temp.
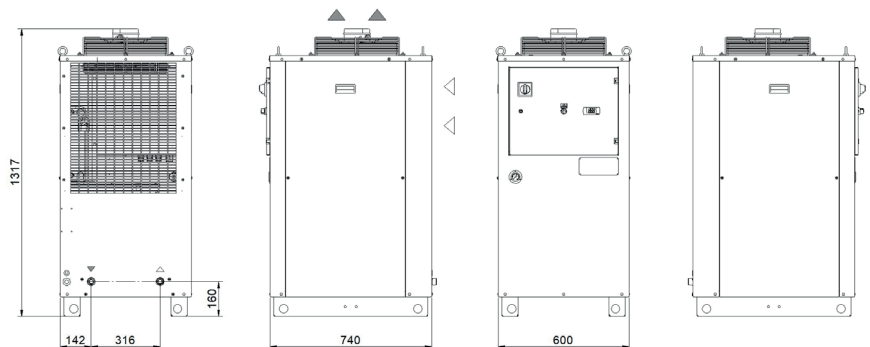FP - Polyurethane air filter
TD - Differential fluid temperature management (two sensors)
BGC - Hot gas bypass for +/- 1 K temperature precision
LS - Liquid circuit for laser application
- HIGH-pressure pump version "H" - 5 bar

DIMENSIONS

1317
160
142 316
740
600

Model			TAO24		TAO37	
			50Hz	60Hz	50Hz	60Hz
Rated Cooling Capacity*		W	2300	2700	3600	4200
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	R134a			
Power supply						
Supply voltage		V ph Hz	230V (+/-10%) 1ph 50/60Hz			
Secondary supply voltage		V	230 V AC			
Digital thermostat			TX110			
Compressor						
Compressor type			Reciprocating			
Quantity - Number of circuits		no.	1 - 1			
Nominal power draw		kW	0.84	1.04	1.16	1.5
Axial Fan						
Fan type			Axial			
Quantity		no.	1			
Air flow rate		m₃/h	1250 - 1650		1550 - 2050	
Centrifugal Fan (optional)						
Fan type			Centrifugal			
Quantity		no.	1			
Air flow rate		m₃/h	2100 - 2400		2100 - 2400	
Available head		Pa	250			
Standard Pump						
Pump type			Gear pump			
Quantity		no.	1			
Nominal/max fluid flow rate		l/min	10		20	
Nominal available head		bar	10		10	
Storage tank capacity (optional)		l	50			
IN/OUT liquid connections		inch	3/4"			
Net weight (approximate)***		kg	151		153	
Width - Depth - Height		mm	600 - 740 - 1317			
Height with tank and pump		mm	1790			
Sound pressure level**		dB(A)	57	60	57	60

* 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	0.59	0.77	1	1.22				
Ambient Temperature	Fa	°C				15	20	25	32	35	40	45
		factor				1.26	1.2	1.11	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										