C-NEXT

TAO29÷A0 Size 1 Three-phase

Industrial oil chillers

COOLING CAPACITY	2900 - 3600 - 4550 - 6000 - 8100 - 9550 - 10900 W

STRUCTURE
In powder-coated steel sheet, RAL 7035 textured finish. Easily removed panels

COMPRESSOR
Hermetic Reciprocating or Scroll compressor, cooled by the refrigerant, complete with thermal cut-out.

REFRIGERATION CIRCUIT
Complete with charging port, drier filter, expansion or thermostatic valve, high-pressure pressure switch, R134a refrigerant.

EVAPORATOR
Brazed stainless-steel plate model.

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 gear pump without tank, with maximum available pressure 10 bar, 0-25 bar pressure gauge, regulation temperature sensor. Hydraulic safety with low-pressure safety pressure switch.

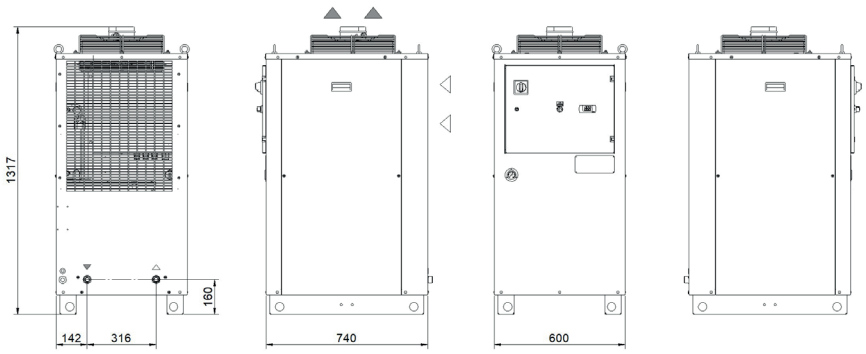
ELECTRICAL PANEL
With main disconnect switch, relay motor protection, phase sequence relays.

MANAGEMENT AND CONTROL
The TX110 control unit manages the chiller's operation, providing warnings including high/low temperature alarms and a general serious fault alarm, with the display indicating if this refers to the refrigeration or hydraulic circuit. An on-off contact allows the machine to be switched on remotely (pump included). Control disconnect switch for switching on the machine.

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
- Outdoor installation options

DIMENSIONS



Model		TAO29	TAO37	TAO46	TAO57	TAO76	TAO93	TAOA0
Rated Cooling Capacity*	W	2900	3600	4550	6000	8100	9550	10900
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	400V (+/-10%) 3ph 50Hz						
Secondary supply voltage	V	230 V AC						
Digital thermostat		TX110						
Compressor								
Compressor type		Reciprocating				Scroll		
Quantity - Number of circuits	no.	1 - 1						
Nominal power draw	kW	0.78	1.16	1.42	2.42	2.21	2.60	2.73
Axial Fan								
Fan type		Axial						
Quantity	no.	1						
Air flow rate	m_3/h	1550	1550	1800	1800	3150	3350	4400
Centrifugal Fan (optional)								
Fan type		Centrifugal						
Quantity	no.	1						
Air flow rate	m_3/h	2100 - 2400	2100 - 2400	2100 - 2400	2100 - 2400	2100 - 2400	2100 - 2400	2100 - 2400
Available head	Pa	250						
Standard Pump								
Pump type		Gear pump						
Quantity	no.	1						
Nominal fluid flow rate	l/min	10	20	20	20	30	40	40
Nominal available head	bar	10	10	10	10	10	10	10
Storage tank capacity (optional)	l	50						
IN/OUT liquid connections	inch	3/4"						
Net weight (approximate)***	kg	151	153	155	160	165	170	175
Width - Depth - Height	mm	600 - 740 - 1317						
Height with tank and pump	mm	1790						
Sound pressure level**	dB(A)	57	57	57	57	57	57	57

* 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