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, capillary or thermostatic valve, high-pressure safety 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 safety low-pressure pressure switch.

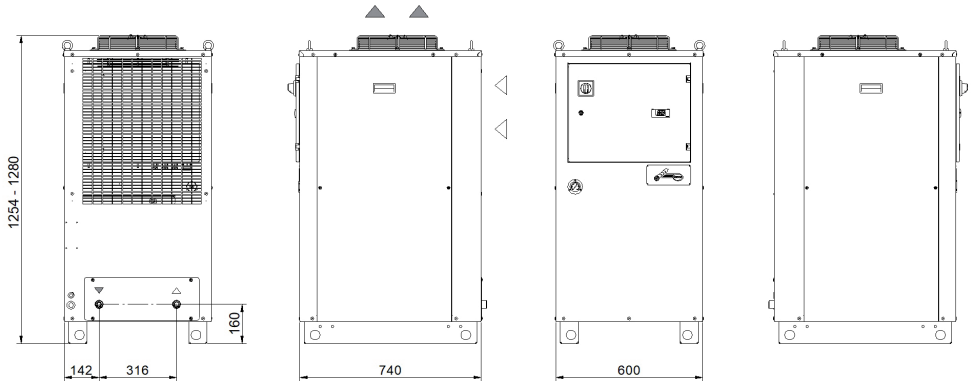
ELECTRICAL PANEL
With main disconnect switch, relay motor protection, phase sequence relays.

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 liquid 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 ACCESSORIES (ref. page 189)
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 - UL certified electrical panel and components
- Outdoor installation optionals

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/max 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	mm	600						
Depth	mm	740						
Height	mm	1254			1280			
Height with tank and pump	mm	1726			1752			
Sound pressure level**	dB(A)	57	57	57	57	57	57	57

* Data relating to operation under the following conditions: intake/outlet temperature 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 from the machine 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.

However, due to our continuous development and improvement of our products, all information is subject to change without notice.

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