# C-NEXT TAOB5÷C5 Size 3

# Industrial oil chillers

### **COOLING CAPACITY**

#### 24800 - 29000 - 35800 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.

#### **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, high- and low-pressure safety pressure switch, 0-25 bar oil pressure gauge, regulation sensor.

### ELECTRICAL PANEL

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

### MANAGEMENT AND CONTROL

The TX200 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. 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
- 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
- HP/HS Harting-type connector
- Outdoor installation options

#### DIMENSIONS



Model		TAOB5	TAOB9	TAOC5				
Rated Cooling Capacity*	w	24800	35800					
Ambient temperature operating limits	°C	+15 - +45						
Settable fluid temperature range	°C	+25 - +40						
Fluid type		ISO VG 32						
Temperature precision	К	+/-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		TX200						
Compressor								
Compressor type		Scroll						
Quantity - Number of circuits	no.	1-1						
Nominal power draw	kW	6.4	7.4	8.6				
Axial Fan								
Fan type		Axial						
Quantity	no.							
Air flow rate	m₃/h	8300	9700	11500				
Centrifugal Fan (optional)								
Fan type		Centrifugal						
Quantity	no.	1						
Air flow rate	m₃/h	8300	9700	11500				
Available head	Pa	370	180	100				
Standard Pump								
Pump type		Screw pump						
Quantity	no.	1						
Nominal/max fluid flow rate	l/min	120	120	120				
Nominal available head	bar	10	10	10				
Storage tank capacity (optional)	l	130						
IN/OUT liquid connections	inch	1 1/2"						
Net weight (approximate)***	kg	260	260					
Width - Depth - Height	mm	900 - 1200 - 1965						
Sound pressure level**	dB(A)	67 67 67						

\* 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  $\cos \phi$  = 0.8.

Correction factors for calculating the cooling power												
Oil outlet temperature	Fo	°C	20	25	30	35						
		factor	0.71	0.84	1	1.18						
Ambient Temperature	Fa	°C				15	20	25	32	35	40	45
		factor				1.25	1.2	1.09	1	0.97	0.91	0.87
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 - Naminal cooling power y Fo, y Fa, y Ft												

Cooling power = Nominal cooling power x Fo x Fa x Ft