

# TAOB5-C5 Size 3

Industrial oil chillers

## COOLING CAPACITY

24800 - 29000 - 35800 W



### 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.

### 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.

### 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

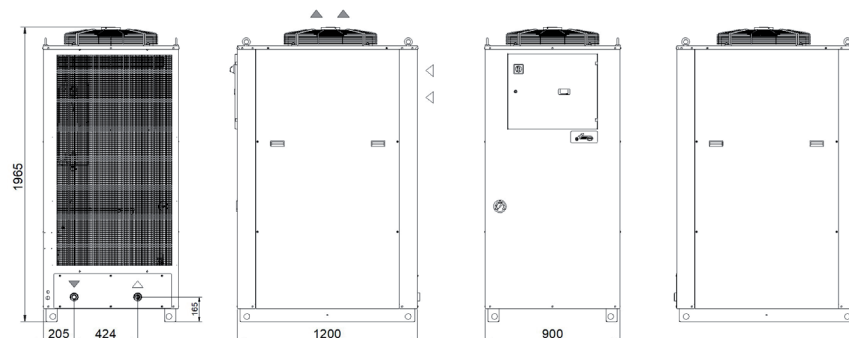
BGP - Hot gas bypass for +/- 0.5 K temperature precision

UL1 - UL certified electrical panel and components

HP/HS - Harting type connectors

- Outdoor installation optionals

## Dimensions



Model		TAOB5	TAOB9	TAOC5
<b>Rated Cooling Capacity*</b>	W	24800	29000	35800
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		
<b>Power supply</b>				
Supply voltage	V ph Hz	400V (+/-10%) 3ph 50Hz		
Secondary supply voltage	V	24 V AC		
Digital thermostat		TX200		
<b>Compressor</b>				
Compressor type		Scroll		
Quantity - Number of circuits	no.	1/1		
Nominal power draw	kW	6.4	7.4	8.6
<b>Axial Fan</b>				
Fan type		Axial		
Quantity	no.	1		
Air flow rate	m <sup>3</sup> /h	8300	9700	11500
<b>Centrifugal Fan (optional)</b>				
Fan type		Centrifugal		
Quantity	no.	1		
Air flow rate	m <sup>3</sup> /h	8300	9700	11500
Available head	Pa	370	180	100
<b>Standard Pump</b>				
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	260
Width	mm	900		
Depth	mm	1200		
Height	mm	1965		
Sound pressure level**	dB(A)	67	67	67

\* 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												
<b>Oil outlet temperature</b>	<b>Fo</b>	°C	<b>20</b>	<b>25</b>	<b>30</b>	<b>35</b>						
		factor	0.71	0.84	1	1.18						
<b>Ambient Temperature</b>	<b>Fa</b>	°C				<b>15</b>	<b>20</b>	<b>25</b>	<b>32</b>	<b>35</b>	<b>40</b>	<b>45</b>
		factor				1.25	1.2	1.09	1	0.97	0.91	0.87
<b>Oil type</b>	<b>Ft</b>	type	<b>ISO VG 10</b>		<b>ISO VG 22</b>		<b>ISO VG 32</b>		<b>ISO VG 46</b>		<b>ISO VG 68</b>	
		factor	1.15		1.1		1		0.9		0.82	
Cooling power = Nominal cooling power x Fo x Fa x Ft												

