

TAOA1-A8_{Size 2}

Industrial oil chillers

COOLING CAPACITY

11400 - 12400 - 17800 - 20100 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

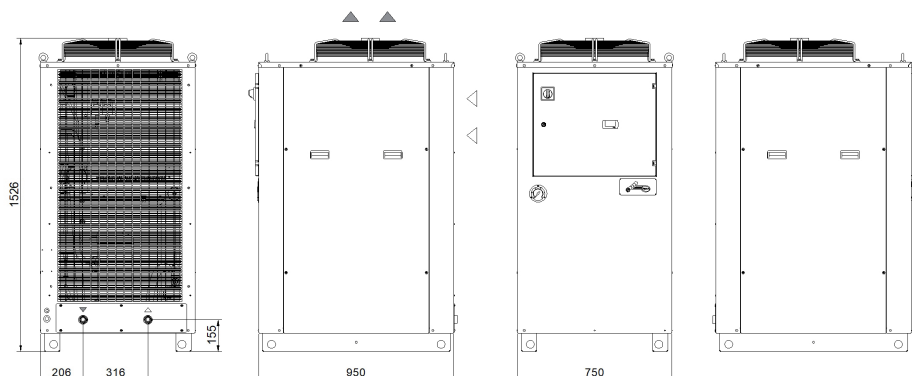
BGP - Hot gas bypass for +/- 0.5 K temperature precision

UL1 - UL certified electrical panel and components

HP/HS - Harting type connectors

- Outdoor installation optionals

Dimensions



| Model | | TAOA1 | TAOA3 | TAOA5 | TAOA8 |
|--|---------|------------------------|-------|-------|-------|
| Rated Cooling Capacity* | W | 11400 | 12400 | 17800 | 20100 |
| 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 | | | |
| 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 | 3.03 | 3.12 | 4.08 | 4.91 |
| Axial Fan | | | | | |
| Fan type | | Axial | | | |
| Quantity | no. | 1 | | | |
| Air flow rate | m³/h | 6500 | 6500 | 6500 | 6500 |
| Centrifugal Fan (optional) | | | | | |
| Fan type | | Centrifugal | | | |
| Quantity | no. | 1 | | | |
| Air flow rate | m³/h | 6500 | 6500 | 6500 | 6500 |
| Available head | Pa | 250 | | | |
| Standard Pump | | | | | |
| Pump type | | Screw pump | | | |
| Quantity | no. | 1 | | | |
| Nominal/max fluid flow rate | l/min | 70 | 70 | 70 | 70 |
| Nominal available head | bar | 10 | 10 | 10 | 10 |
| Storage tank capacity (optional) | l | 130 | | | |
| IN/OUT liquid connections | inch | 1" | | | |
| Net weight (approximate)*** | kg | 200 | 200 | 235 | 235 |
| Width | mm | 750 | | | |
| Depth | mm | 950 | | | |
| Height | mm | 1526 | | | |
| Height with tank and pump | mm | 1998 | | | |
| Sound pressure level** | dB(A) | 67 | 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 | | | | | | | | | | | | |
|--|-----------|--------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|
| Oil outlet temperature | Fo | °C | 20 | 25 | 30 | 35 | | | | | | |
| | | factor | 0.74 | 0.82 | 1 | 1.22 | | | | | | |
| Ambient Temperature | Fa | °C | | | | 15 | 20 | 25 | 32 | 35 | 40 | 45 |
| | | factor | | | | 1.26 | 1.2 | 1.12 | 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 | | | | | | | | | | | | |

