

Industrial water chillers

COOLING CAPACITY
24800 - 29000 - 35800 W


material complete with integrated visual level indicator, electrical level indicator, 0-10 bar pressure gauge, differential pressure switch protecting the water flow, automatic by-pass and 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.

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.

LIQUID CIRCUIT

Non-ferrous liquid circuit composed of stainless steel centrifugal electric pump, storage tank made of plastic

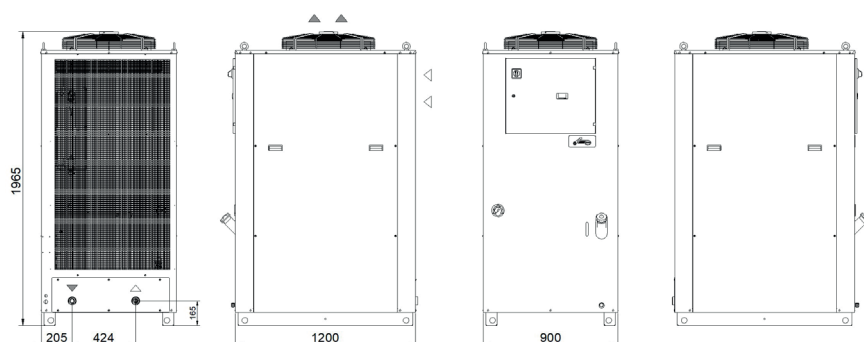
PAINT/COATING

Standard colour: RAL 7035 textured.

MAIN OPTIONS

- FL - Flow switch with alarm contact
- FP - Polyurethane air filter
- RU - Castors
- TD - Differential fluid temperature management (two sensors)
- BGC - Hot gas bypass for +/- 1 K temperature precision
- LS - Liquid circuit for laser application
- HP/HS - Harting-type connector
- HIGH-pressure pump version "H" - 5 bar, version "R" - 7 bar.
- Outdoor installation options

DIMENSIONS



Model		TALB5	TALB9	TALC5
Rated Cooling Capacity*	W	24800	29000	35800
Ambient temperature operating limits	°C	+15 - +45		
Settable fluid temperature range	°C	+8 - +25		
Fluid type		Water		
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	6.4	7.4	8.6
Axial Fan				
Fan type		Axial		
Quantity	no.	1		
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		Centrifugal		
Quantity	no.	1		
Nominal/max fluid flow rate	l/min	79 - 150	92 - 150	100 - 150
Nominal available head	bar	3.5	3.2	3.0
High-Pressure Pump (optional)				
Pump type		Centrifugal		
Quantity	no.	1		
Nominal available head	bar	5.4	5.1	4.9
Storage tank capacity	l	130		
IN/OUT liquid connections	inch	1 1/2"		
Net weight (approximate)***	kg	260	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 temp. 20/15°C, water without glycol, 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, storage tank empty, axial fans.

The electrical data refer to $\cos \phi = 0.8$.

Correction factors for calculating the cooling power

Water outlet temperature	Fw	°C										
		factor					8	10	15	20	25	
Ambient Temperature	Fa	°C										
		factor					15	20	25	32	35	40
Percentage glycol by weight	Fg	%	0	10	15	20	25	30	35	40		
		factor	1	0.96	0.95	0.94	0.93	0.91	0.90	0.88		

$$\text{Cooling power} = \text{Nominal cooling power} \times F_w \times F_a \times F_g$$