

## 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

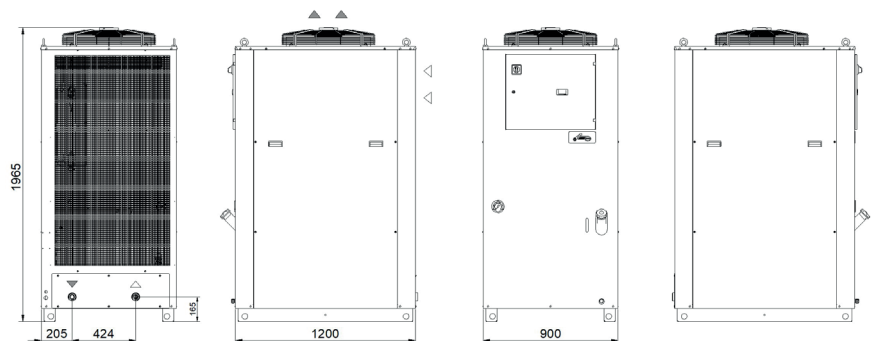
### PAINT/COATING

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
<b>Rated Cooling Capacity*</b>	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		
<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	m³/h	8300	9700	11500
<b>Centrifugal Fan (optional)</b>				
Fan type		Centrifugal		
Quantity	no.	1		
Air flow rate	m³/h	8300	9700	11500
Available head	Pa	370	180	100
<b>Standard Pump</b>				
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
<b>High-Pressure Pump (optional)</b>				
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		

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