C-NEXT TALB5 ÷ C5 Size 3

Industrial water 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.

LIQUID CIRCUIT

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

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)

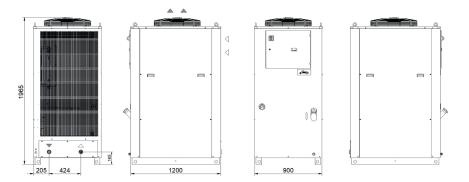
BGC - Hot gas bypass for +/- 1 K temperature precision

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



Ambient temperature operating limits	Model		TALB5	TALB9	TALC5				
Settable fluid temperature range	Rated Cooling Capacity*	W	24800	29000	35800				
Fluid type	Ambient temperature operating limits	°C		+15 - +45					
Refrigerant gas	Settable fluid temperature range	°C		+8 - +25					
Refrigerant gas	Fluid type			Water					
Power supply Supply voltage	Temperature precision	K		+/-2					
Supply voltage	Refrigerant gas	HFC	R410A						
Secondary supply voltage V	Power supply								
Digital thermostat	Supply voltage	V ph Hz		400V (+/-10%) 3ph 50Hz					
Compressor type	Secondary supply voltage	V		24 V AC					
Compressor type	Digital thermostat		TX200						
Quantity - Number of circuits	Compressor								
Nominal power draw kW 6.4 7.4 8.6 Axial Fan Axial Guantity no. 1 Air flow rate m3/h 8300 9700 11500 Centrifugal Fan (optional) Fan type Centrifugal Centrifugal Quantity no. 1 1 Air flow rate m3/h 8300 9700 11500 Available head Pa 370 180 100 Standard Pump Centrifugal Quantity no. 1 1 Nominal/max fluid flow rate I/min 79 - 150 92 - 150 100 - 150 Nominal available head bar 3.5 3.2 3.0 High-Pressure Pump (optional) Pump type Quantity no. 1 Nominal available head bar 5.4 5.1 4.9 Storage tank capacity I 130 III//////>III////////>III/////////>III//////	Compressor type			Scroll					
Axial Fan Fan type	Quantity - Number of circuits	no.		1-1					
Fan type	Nominal power draw	kW	6.4	7.4	8.6				
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Fan type	Air flow rate	m₃/h	8300	9700	11500				
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High-Pressure Pump (optional) Pump type Centrifugal Quantity no. 1 Nominal available head bar 5.4 5.1 4.9 Storage tank capacity I 130 IN/OUT liquid connections inch 11/2" Net weight (approximate)**** kg 260 260 260 Width - Depth - Height mm 900 - 1200 - 1965 900 - 1200 - 1965	Nominal/max fluid flow rate	l/min	79 - 150	92 - 150	100 - 150				
Pump type Centrifugal Quantity no. 1 Nominal available head bar 5.4 5.1 4.9 Storage tank capacity I 130 IN/OUT liquid connections inch 1 1/2" Net weight (approximate)*** kg 260 260 260 Width - Depth - Height mm 900 - 1200 - 1965 900 - 1200 - 1965	Nominal available head	bar	3.5	3.2	3.0				
Quantity no. 1 Nominal available head bar 5.4 5.1 4.9 Storage tank capacity I 130 IN/OUT liquid connections inch 1 1/2" Net weight (approximate)*** kg 260 260 260 Width - Depth - Height mm 900 - 1200 - 1965 900 - 1200 - 1965	High-Pressure Pump (optional)								
Nominal available head bar 5.4 5.1 4.9	Pump type			Centrifugal					
Storage tank capacity I 130 IN/OUT liquid connections inch 1 1/2" Net weight (approximate)*** kg 260 260 260 Width - Depth - Height mm 900 - 1200 - 1965 900 - 1200 - 1965	Quantity	no.		1					
IN/OUT liquid connections inch 1 1/2" Net weight (approximate)*** kg 260 260 260 Width - Depth - Height mm 900 - 1200 - 1965 900 - 1200 - 1965	Nominal available head	bar	5.4	5.1	4.9				
IN/OUT liquid connections inch 1 1/2" Net weight (approximate)*** kg 260 260 260 Width - Depth - Height mm 900 - 1200 - 1965 900 - 1200 - 1965									
Net weight (approximate)*** kg 260 260 260 Width - Depth - Height mm 900 - 1200 - 1965	Storage tank capacity	l		130					
Width - Depth - Height mm 900 - 1200 - 1965	IN/OUT liquid connections	inch		1 1/2"	<u> </u>				
	Net weight (approximate)***	kg	260	260	260				
Sound pressure level** dB(A) 67 67 67	Width - Depth - Height	mm	900 - 1200 - 1965						
	Sound pressure level**	dB(A)	67	67	67				

 $^{^{\}star}\, \text{Data relates to operation under the following conditions: inlet/outlet temp. 20/15°C, water without glycol, ambient temperature 32°C.}$

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

Correction factors for calculating the cooling power													
Water outlet temperature	Fw	°C					8	10	15	20	25		
		factor					0.79	0.84	1	1.18	1.37		
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
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			

Cooling power = Nominal cooling power x $\ \ Fw \ \ x \ \ Fa \ \ x \ \ Fg$

^{**} Sound pressure level, measured in a free parallelepiped field at a distance of 1 m, per ISO 3746.

 $^{^{\}star\star\star} \ \text{Weight includes pallets and packaging (where provided for), with refrigerant charge, storage tank empty, axial fans.}$