

Industrial water chillers

COOLING CAPACITY
40000 - 47000 - 55000 - 67000 W


pump, storage tank made of plastic material complete with drain valve, 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 TX350C 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. RS485 connection. 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. Optional 2-step cooling power regulation (standard on TALF8).

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

PAINT/COATING

Standard colour: RAL 7035 textured.

MAIN OPTIONS

FL - Flow switch with alarm contact

HR - Fluid heating element

OM - Unit built for outdoor operation down to -10 °C ambient temp.

OML - Unit built for outdoor operation down to -20 °C ambient temp.

FP - Polyurethane air filter

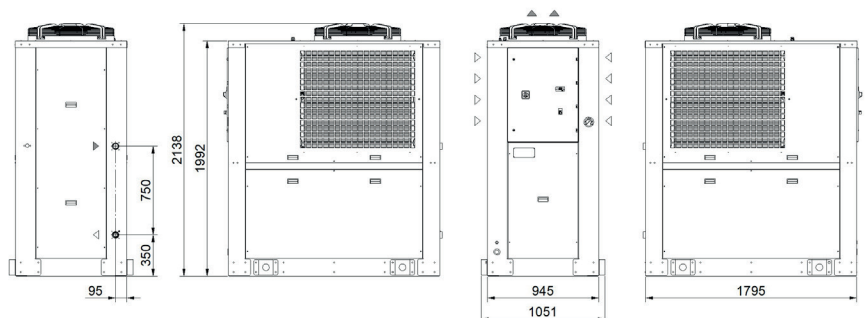
TD - Differential fluid temperature management (two sensors)

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

LS - Liquid circuit for laser application

- HIGH-pressure pump version "H" - 5 bar

DIMENSIONS



Model		TALD0	TALD9	TALE6	TALF8
Rated Cooling Capacity*	W	40000	47000	55000	67000
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		TX350C			
Compressor					
Compressor type		Scroll			
Quantity - Number of circuits	no.	1 - 1			2 - 1
Max. power draw	kW	9.4	10.4	12.1	25.0
Axial Fan					
Fan type		Axial			
Quantity	no.	1	1	1	1
Air flow rate	m ³ /h	12600	14400	16000	24000
Centrifugal Fan (optional)					
Fan type		Centrifugal			
Quantity	no.	1	1	1	1
Air flow rate	m ³ /h	12600	14400	16000	24000
Available head	Pa	570	350	200	150
Standard Pump					
Pump type		Centrifugal			
Quantity	no.	1	1	1	1
Nominal/max fluid flow rate	l/min	115 - 230	135 - 230	158 - 230	200 - 230
Nominal available head	bar	3.8	3.6	4.6	3.8
High Pressure Pump					
Pump type		Centrifugal			
Quantity	no.	1	1	1	1
Nominal available head	bar	6.5	6.2	6.7	5.7
Storage tank capacity					
Storage tank capacity	l	200			
IN/OUT liquid connections	inch	1 1/2"			
Net weight (approximate)***	kg	580	600	600	600
Width - Depth - Height	mm	945 - 1795 - 2138			
Sound pressure level**	dB(A)	75	75	75	78
<p>* Data relates to operation under the following conditions: inlet/outlet temp. 20/15°C, water without glycol, ambient temperature 32°C.</p> <p>** Sound pressure level, measured in a free parallelepiped field at a distance of 1 m, per ISO 3746.</p> <p>*** Weight includes pallets and packaging (where provided for), with refrigerant charge, storage tank empty, axial fans.</p> <p>The electrical data refer to cos φ = 0.8.</p>					

Correction factors for calculating the cooling power													
Water outlet temperature	Fw	°C					8	10	15	20	25		
		factor					0.77	0.83	1	1.20	1.41		
Ambient Temperature	Fa	°C					15	20	25	32	35	40	45
		factor					1.27	1.2	1.13	1	0.95	0.86	0.80
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													