C-NEXT

TAL24-37 Size 1

Industrial water chillers

| COOLING CAPACITY | 2300-2700 - 3600-4200 W |

AIR CONDENSER
Finned high-efficiency copper tube 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 peripheral electric pump, plastic storage tank complete with visual level indicator, 0-10 bar pressure gauge, protective flow switch, regulation sensor.

ELECTRICAL PANEL
With main disconnect switch, fused motor protection.

MANAGEMENT AND CONTROL
The TX110 control unit manages the chiller's operation, providing warnings including high/low temperature alarms and a general serious fault alarm, with the display indicating if this refers to the refrigeration or liquid circuit. An on-off contact allows the machine to be switched on remotely (pump included). Control disconnect switch for switching on the machine.

STRUCTURE
In powder-coated steel sheet, RAL 7035 textured finish. Easily removed panels

COMPRESSOR
Hermetic reciprocating compressor, cooled by the refrigerant, complete with thermal cut-out.

REFRIGERATION CIRCUIT
Complete with charging port, drier filter, capillary, high-pressure safety pressure switch, R134a refrigerant.

EVAPORATOR
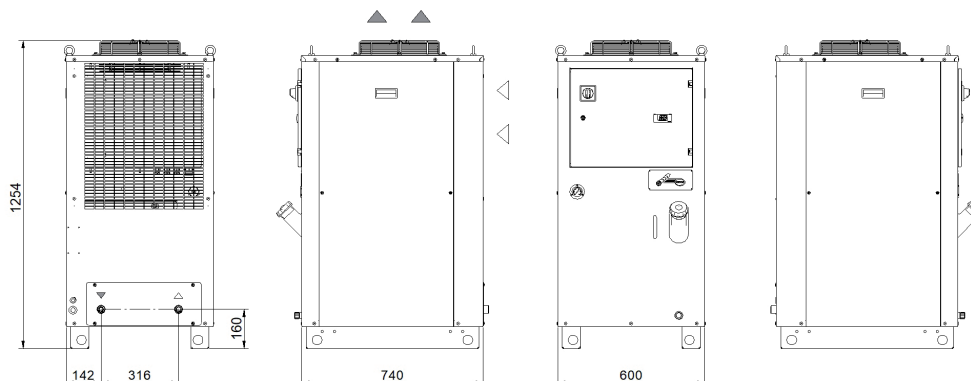Brazed stainless-steel plate model.

PAINT/COATING
Standard colour: RAL 7035 textured.

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
LS - Liquid circuit for laser application
UL1 - UL certified electrical panel and components
LTW - -10 - +5 water temperature range
- HIGH-pressure pump version "H" - 5 bar, version "R" - 7 bar.
- Outdoor installation optionals

Dimensions

TEXA

C-NEXT

Model			TAL24		TAL37	
			50Hz	60Hz	50Hz	60Hz
Rated Cooling Capacity*		W	2300	2700	3600	4200
Ambient temperature operating limits		°C	+15 - +45			
Settable fluid temperature range		°C	+8 - +25			
Fluid type			Water			
Temperature precision		K	+/-2			
Refrigerant gas		HFC	R134a			
Power supply						
Supply voltage		V ph Hz	230V (+/-10%) 1ph 50/60Hz			
Secondary supply voltage		V	230 V AC			
Digital thermostat			TX110			
Compressor						
Compressor type			Reciprocating			
Quantity - Number of circuits		no.	1 - 1			
Nominal power draw		kW	0.84	1.04	1.16	1.5
Axial Fan						
Fan type			Axial			
Quantity		no.	1			
Air flow rate		m₃/h	1250 - 1650		1550 - 2050	
Centrifugal Fan (optional)						
Fan type			Centrifugal			
Quantity		no.	1			
Air flow rate		m₃/h	2100 - 2400		2100 - 2400	
Available head		Pa	250			
Standard Pump						
Pump type			Peripheral			
Quantity		no.	1			
Nominal/max fluid flow rate		l/min	7 - 18		10 - 18	
Nominal available head		bar	4.4	5.8	3.1	4.5
High-Pressure Pump (optional)						
Pump type			Peripheral			
Quantity		no.	1			
Nominal available head		bar	5.6	7.5	5	6.8
Storage tank capacity		l	50			
IN/OUT liquid connections		inch	3/4"			
Net weight (approximate)***		kg	151		153	
Width		mm	600			
Depth		mm	740			
Height		mm	1254			
Sound pressure level**		dB(A)	57	60	57	60

* Data relating to operation under the following conditions: intake/outlet temperature 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 from the machine 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 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													
Water outlet temperature	**Fw**	°C				8	10	15	20	25			
		factor				0.69	0.77	1	1.22	1.44			
Ambient Temperature	**Fa**	°C				15	20	25	32	35	40	45	
		factor				1.26	1.2	1.11	1	0.95	0.87	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