C-NEXT TAU24-37 Size 1

Industrial chillers for contaminated or dirty fluids

COOLING CAPACITY

2300/2700 - 3600/4200 W



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, expansion valve, high-pressure pressure switch, R134a refrigerant.

EVAPORATOR

Tube bundle heat exchanger (allows for inspection).

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 peripheral electric pump, or, 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.

PAINT/COATING

Standard colour: RAL 7035 textured.

MAIN OPTIONS

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)

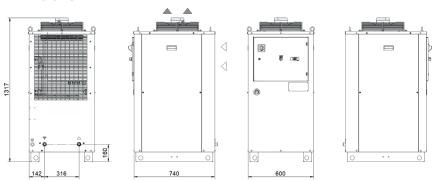
BGC - Hot gas bypass for +/- 1 K temperature precision

BGP - Hot gas bypass for +/- 0.5 K temperature precision

UL1 - Electrical panel and UL-certified components

- HIGH-pressure pump version "H" 5 bar, version "R" 7 bar.
- Outdoor installation options

DIMENSIONS



Model		TA	U24	TAU37				
		50Hz	60Hz	50Hz	60Hz			
Rated Cooling Capacity*	W	2300	2700	3600	4200			
Ambient temperature operating limits	°C	+15 - +45						
Settable fluid temperature range	°C	+25 - +40						
Fluid type		Emulsion 90% water - 10% oil						
Temperature precision	K	+/-2						
Refrigerant gas	HFC	R134a						
Power supply								
Supply voltage	V ph Hz	230V (+/-10%) 1ph 50 or 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	00 - 2400					
Available head	Pa	250						
Standard Pump								
Pump type		Centrifugal						
Quantity	no.	1						
Nominal/max fluid flow rate	l/min		5	8				
Nominal available head	bar	3	3	3	3			
Storage tank capacity	l	50						
IN/OUT liquid connections	inch	3/4"						
Net weight (approximate)***	kg	151 153						
Width - Depth - Height	mm	600 - 740 - 1317						
Sound pressure level**	dB(A)	57 60 57 60						
Souria pressure revet	UD(A)) 31	UU	31	DU			

^{*} Data relates to operation under the following conditions: inlet/outlet temp. $37/30^{\circ}$ C, 90% water - 10% oil emulsion, ambient temperature 32° C.

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

Correction factors for calculating the cooling power												
90% water - 10% ISO VG 32 oil emulsion outlet temperature	Fo	°C	20	25	30	35						
		factor	0.59	0.77	1	1.22						
Ambient Temperature	Fa	°C				15	20	25	32	32	40	45
		factor				1.26	1.2	1.11	1	0.95	0.87	0.8
Oil type	Ft	%	water		90% water-10% ISO VG 32 oil		70% water-30% ISO VG 32 oil		40% water-60% ISO VG 32 oil		100% ISO VG 32	
		factor	1.05		1		0.9		0.74		0.53	
Cooling Power = Nominal Cooling Power v Fo v Fa v Ft												

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

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