

TTX

AIR CONDENSED CHILLERS WITH OIL-FREE CENTRIFUGAL COMPRESSORS

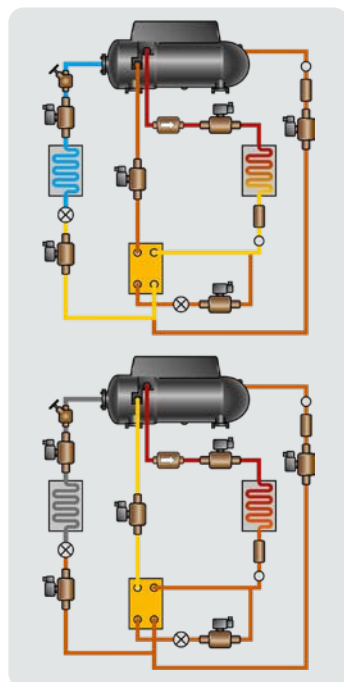
281-1057 kW



MULTI-PROTOCOL COMMUNICATION INTERFACE	OIL-FREE CENTRIFUGAL COMPRESSORS	SPRAY FLOODED SHELL AND TUBE	FAST RESTART
AXIAL FANS	CORROSION RESISTANT MATERIAL	CLASS A	SUPER LOW NOISE
LOW GWP REFRIGERANT			



The TTX range is **the most innovative and efficient** solution for air-condensed liquid chillers. The use of the oil-free centrifugal compressor in combination with new small-sized flooded exchangers (minimised water and refrigerant approach and reduction of refrigerant charge compared to traditional flooded heat exchangers) allows **top efficiency values to be achieved**, especially at partial loads. TTX range chillers can be used with **the new HFO R1234ze refrigerant** characterised by a **very low environmental impact**, minimising the TEWI of the entire system.



Top-class thermodynamic performance!

An effective combination of "oil-free" centrifugal compressor and flooded exchangers allows maximisation of thermal exchange efficiency; this is largely due to the absence of oil in the circuit and the reduced approach temperature between water and refrigerant (1K) as a result of no overheating in the evaporator. Cycle efficiency is enhanced by the centrifugal compressor, which provides **ultra-high efficiency at partial loads**, and by the economiser, which ensures **intermediate regenerative exchange in the circuit**.

- Refrigerant R134a
- Available version: Liquid chiller and Free-Cooling chiller (Free-Cooling version not available with adiabatic saturation system)
- Energy efficiency class A
- Optional EC electronic switching fans
- Refrigerant leak sensor
- Water connections with Vic-Taulic quick couplings
- Dual day/night noise emission set-point

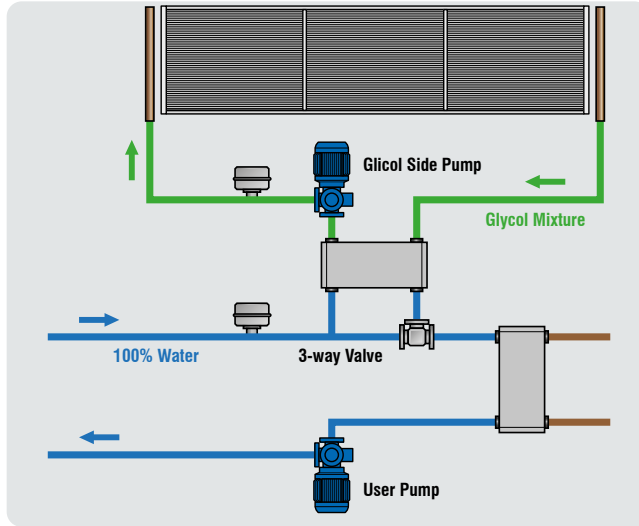


Acoustic comfort

Two different soundproofing systems are available: the most suitable one will depend on the importance of noise containment in the overall plant layout. Adopted technical solutions include fan speed control and compartmentalisation of compressors and pumping kits in a box internally lined with soundproofing material.

New refrigerant R1234ze

On request, TTX air condensed chillers can use **the new HFO refrigerant with low GWP** (GWPR1234ze=6), part of a wider Green Technology approach. (The standard version is with R134a).



Glycol-Free kit

The Free-Cooling versions can be selected with the "Glycol- Free" kit (on board the unit) to confine the water-antifreeze mix inside the finned coils. This solution **maximises heat exchange efficiency at the evaporator** with the exclusive use of pure water; it also **dramatically reduces pumping costs**.



Maximum efficiency at partial loads

The adoption of oil-free centrifugal compressors, electronically controlled expansion valves, flooded heat exchangers, fan modulation and variable flow rate controlled with circulation pumps are all **key features that make the TTX range particularly efficient at partial loads**.



TTX		280CS	380CS	410CS	531CS	561CS	631CS	761CS	813CS	911CS	821CS	943CS	1064CS
Cooling: User water values 12/7°C, 35°C outside air, 40% U.R.													
Cooling capacity	kW	281	380	414	529	562	661	759	809	909	829	943	1057
Total absorbed power	kW	90	121	130	169	180	211	242	259	263	260	300	339
EER		3.12	3.14	3.19	3.12	3.12	3.14	3.14	3.12	3.46	3.19	3.15	3.12
Dimensions [LxHxD]	mm	3065 x2652 x2256	4065 x2652 x2256	5065x2652x2256		6130 x2652 x2256	7130 x2650 x2256	8130x2650x2256		9130 x2650 x2256	10120x2650x2256		

Also available with 60 Hz power supply