Sintesis Prime RTAF G Process Air-Cooled Chiller

TRANE
TECHNOLOGIES

Sintesis Prime RTAF G Process Air-Cooled Chiller

Cooling capacity: 450-775 kW | **Heating capacity: -----**

- Optimized high-efficiency process chiller for mild-freezing applications
- Leaving glycol temperature down to -8°C with Propylene Glycol and -12°C with Ethylene Glycol
- Over 30% reduced footprint thanks to optimized smaller size heat-exchangers
- Trane designed and manufactured semi-hermetic twin-screw compressor
- Micro-channel condenser coils
- Trane-patented flooded evaporator CHIL (Compact - High Performance - Integrated design - Low charge) design
- 450 - 775 kW (at +35 °C ambient, -4°C / -8°C 30% EG)

Optimized for mild-freezing process cooling

Trane RTAF G Process chillers are optimized for mild-freezing process cooling applications. Leaving brine temperature down to -8°C can be achieved with Propylene Glycol and -12°C with Ethylene Glycol, at ambient temperatures ranging from -20°C to +46°C.

The RTAF G Process product design inlcludes optimized condenser and evaporator side heat-exhangers which reduces the unit footprint over 30% compared to similar capacity standard units. The design optimization offers chillers with expectionally good SEPR-MT efficiency, available with low GWP HFO R1234ze refrigerant.

Reliable, versatile

Trane RTAF air-cooled chillers are built on the Sintesis™ platform, which means they share many of the same components and technologies, all with a proven reliability record.

They have a strong operating map with -12°C to - +4°C leaving brine temperatures at ambient temperatures -20°C - +46°C.

Partial and total heat-recovery options enable heating while cooling and enhance the energy efficiency of the system further. Versatile set of hydraulic and brine flow options available.

Technical specifications

Cooling capacity	450-775 kW
Heating capacity	-----
Eurovent certification	
ErP Certification	●
Refrigerants	R1234ze
Operating mode	Cooling only
Energy saving	Heat recovery | Adaptive Frequency™ Drive
Compressor	Screw

Product data

RTAF G Process

	Pc (1) kW	EER (1)	SEPR-MT (2)	L (3) mm	W (3) mm	H (3) mm	OW (3) kg
RTAF 101 HSE R1234ze	453,0	2,00	3,44	5645	2200	2526	4720
RTAF 141 HSE R1234ze	608,0	1,99	3,44	8265	2200	2526	6675
RTAF 191 HSE R1234ze	780,0	2,06	3,36	10135	2200	2526	8500

Pc: Cooling capacity
EER: Energy Efficiency Ratio (cooling)
SEPR-MT: Seasonal Energy Performance Ratio
L: Length
W: Width
H: Height
OW : Operating Weight

(1): Outdoor air temperature 35°C and chilled glycol (30% EG) temperature -4°C / -8°C
(2): Ecodesign rating for Medium Temp (-2°C/-8°C) process chiller - SEPR-MT defined as in Ecodesign REGULATION (EU) N° 2016/2281 of 20 December 2016.
(3): Basic unit without accessories

Improve Operations

Technology is continuously evolving and Trane Engineering is ahead of the curve in bringing innovation into product development. Our sustainable solutions deliver enhancements to the Trane installed base to make your chillers and heat pumps even "better than before". That's Trane Building Advantage - TBA.

Trane Rental Services

Cooling and heating are services, not products. A process or a building does not need a chiller or a boiler sitting on a roof, but a reliable and efficiency supply of cold or hot water, cold or warm air. This is the essence of what we do at Trane Rental Services. Let us take care of it for you.

Read more https://trane.eu/rental