



Water-Cooled Screw Chillers

XSTREAM

Model RTHF XSE (R134a)
2970 – 3635 kW
SEER up to 10.1



Trane XStream™

Water-Cooled Chillers

There is world-wide demand for increasingly efficient products to reduce energy and resource consumption. As part of our sustainable product policy, Trane has always been committed to respecting the environment by reducing energy consumption through the delivery of high performing and efficient products and systems.

Trane XStream™ series provides reliable temperature control in the most demanding applications. Exceptional efficiency keeps your operating costs and environmental impact low. Smart and easy to use controls ensure you get the best out of your system day after day, year after year.

RTHF XSE goes one step further in part **load efficiency improvement** featuring the latest Trane screw compressor with **Variable Volume Index (Variable Vi)** that allows the equipment to operate at the most appropriate pressure ratio to reach remarkable efficiency levels.

Variable Vi increases part load efficiency (SEER) by 10% vs. the equivalent model at Fixed Vi. RTHF XSE can reach SEER's as high as 10.1.

XStream RTHF XSE chillers are ideal for

- Cooling and heating applications
- High and medium temperature industrial process applications



Office buildings



Healthcare



Automotive industry



Pharmaceutical industry



Hospitality industry

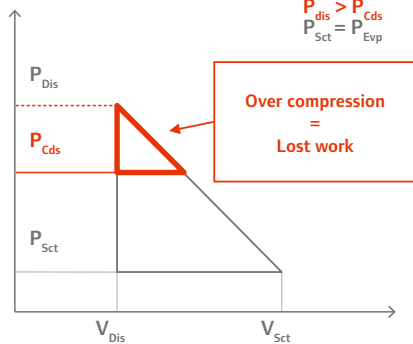


District Cooling

Features

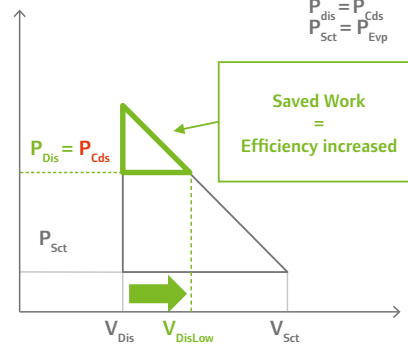
Innovative solutions to your needs

Varying Operating Conditions with **Fixed Vi**



Volume variation delivers **more** pressure increase than is needed

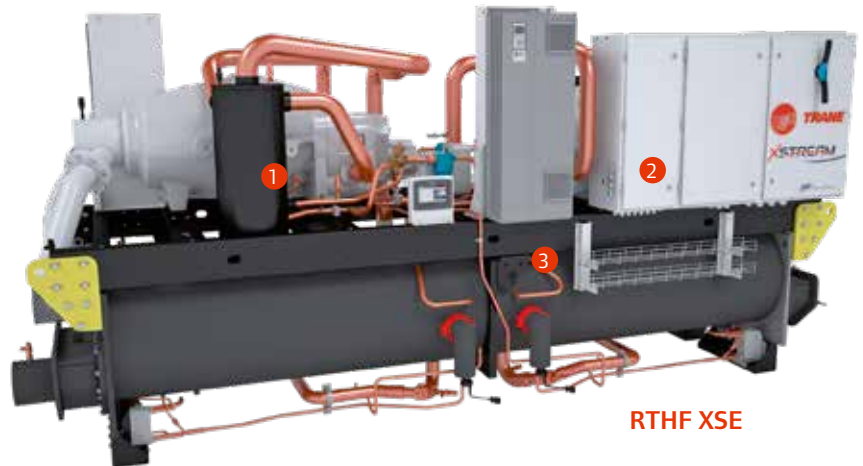
Varying Operating Conditions with **Variable Vi**



Volume variation is adapted to deliver the **required** pressure increase

1 Trane industry-leading compressor*

- Direct Drive, Twin Screw Helical Rotary design
- Variable Vi
- Infinite capacity control through Adaptive Frequency™ Drive
- Semi-hermetic design eliminating shaft seals
- No surge risk
- Trane unequalled reliability



2 Trane combined smart control and interface*

- Leading TD7 touch screen with 7" color display
- Clear presentation of critical information
- Monitor settings, data trending, reports and alarms
- Simple, intuitive navigation
- Effective operation, monitoring and management
- Durable construction for both indoor and outdoor use



3 Heat exchangers*

- Single pass
- Counter flow configuration

Connectivity

- Full interoperability via SmartCom interface Lontalk®, BACnet® and Modbus
- Full remote control capability via Trane BMS or Chiller Plant Controls

* Trane Proprietary Technology

General specifications

General Data

		RTHF XSE
Refrigerant		R134a
Condenser leaving water temperature (Min/Max)	(°C)	+10 / +48 (1)
Evaporator leaving water temperature (Min/Max)	(°C)	-12 / +20
Power Supply	(V/Ph/Hz)	400/3/50 (2)

(1) Operation at Full load - Min Max for full range - May vary according to the size
 (2) Single Power Supply as standard - Dual Power supply as an option

RTHF XSE

Unit size		855 XSE	905 XSE	945 XSE	995 XSE
Gross Cooling Capacity (1)	(kW)	2973	3189	3407	3633
Gross EER (1)		5.72	5.45	5.25	4.98
Gross ESEER (Not certified) (1)		9.06	8.76	8.46	8.15
IPLV (2)		10.240	9.990	9.770	9.570
Net cooling capacity (1)(3)	(kW/kW)	2972	3188	3407	3633
Eurovent Energy class - Cooling		A	A	A	B
Net EER (1)(3)		5.55	5.27	5.06	4.79
Net ESEER (Not certified)		8.63	8.34	8.06	7.76
SEER (4)		10.08	9.86	9.67	9.50
Space cooling efficiency $\eta_{s,c}$ (4)	(%)	395	386	379	372
Number of refrigerant circuits			2		
Number of compressors			2		
Sound Power Level	(dB(A))	103	109	110	111
Weights and dimensions					
Length	(mm)	5521	5521	5521	5521
Width	(mm)	2305	2305	2305	2305
Height	(mm)	2457	2457	2457	2457
Operating weight	(kg)	14360	14470	14590	14590

(1) Evaporator 12/7°C and 0.0 m²K/kW, and condenser at 30/35°C and 0.0 m²K/kW

(2) According to AHRI Standard 551/591, based on TOPSS (Trane Official Product Selection Software)

(3) Net performances calculated as per EN 14511-2018.

(4) $\eta_{s,c}$ / SEER as defined in Directive 2009/125/EC of the European Parliament and of the Council with regard to Ecodesign requirements for Comfort Chillers with 2000 kW maximum capacity - COMMISSION REGULATION (EU) N° 2016/2281 of 20 December 2016



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