



TRANE IS INNOVATING FOR YOU

New Trane
Excellent
Chillers







Teaser Video
General
GVAFview
GVWF

















Climates

GVAF Overview



 Leading-Edge
 Technologies
 Market Leading
 Efficiencies
 Exceptional Capacity per Length Ratio
 Suitable for Toughest







The new GVAF XSE / XSS

sегіеѕ

- OXSE the highest seasonal efficiencies
- OXSS the shor^{R1234ze} st footprint per capacity
- o Fully HFO optimized
 - O Near zero GWP & zero ODP
 refrigerant
- o 380kW to 1.5MW* cooling
 capacity
- *at 35°C ambient, 7/12°C water



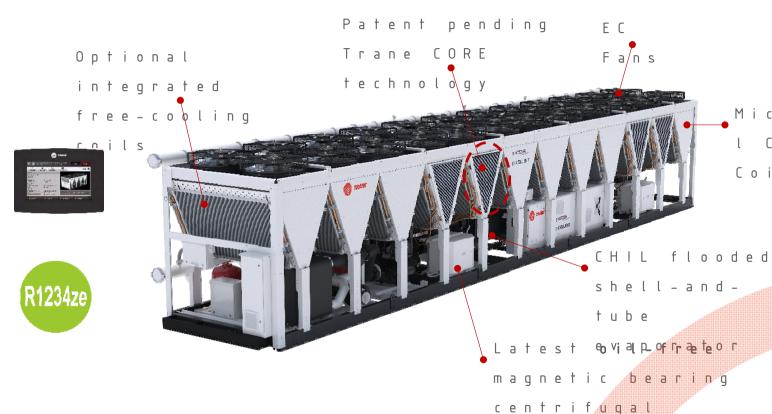


Sintesisting Exsented dure of Chiller Efficien applications



Leading-Edge Technologies

Symbio 8 0 0 T M Controller with ID7 Touchscreen 1 ог 2 R 1 2 3 4 z e refrigerant circuits



Microchanne

l Condenser

Coils

Sintesis TM Excellenter Than



Market Leading

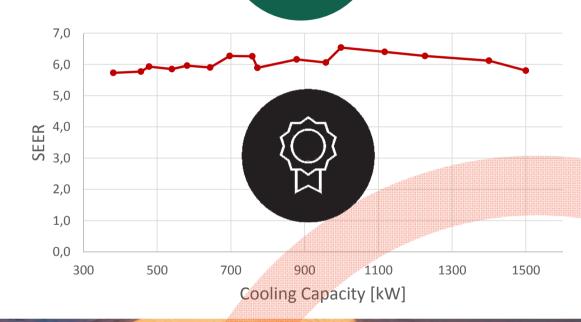
Efficiencies

- O Top-Rated Eurovent
 Certified Seasonal SEER
 Efficiencies
- O Very Good Full Load EER
 and Process Cooling SEPRHT Efficiencies
- O High Efficiency and

 Capacity Integrated Free

 Cooling Option





Sintesis TM Excellents t Total Cost of Owners



Smallest footprint per

cooling capac o GVAF XSS is the space

saving chiller model

fitting into the

tightest rooftops

o Reduced condenser

surface area:

o Significant footprint

reduction but only a

minor reduction in

cooling capacity and

efficiency



* XSS size 140 compared to XPG size 140

SintesisTM Excellent Great Performance at Short Footpring



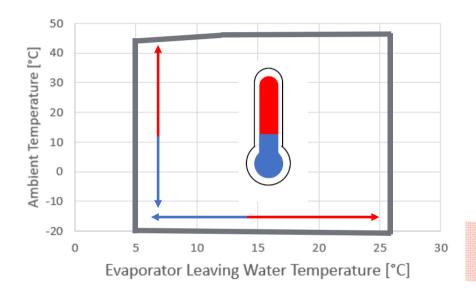


Suitable for Toughest

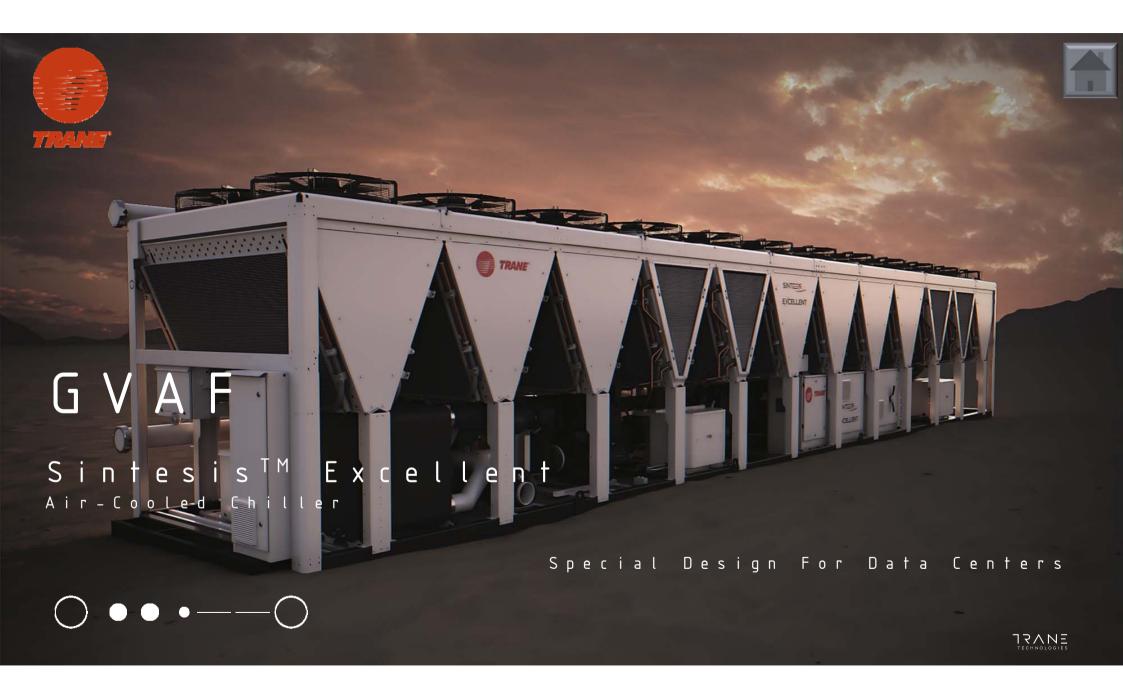
Climates

- o The best maglev operating maps
 - on the market
 - o Full load cooling capacity

 up to +46°C ambient
 - temperature
 - o Leaving water temperatures
 up to +26 °C
- o Strong operating map enables
 - o Enhanced application
 flexibility



o Improved reliability







- o Meets the most demanding data center performance, reliability and application requirements
- o Preferred by many large **global**Data Center customers
- o Entire GVAF XSE / XSS series available as data center special design, cooling capacity up to 2150 kW*

*at 35°C ambient, 20/30°C water

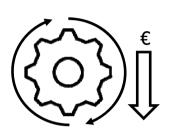


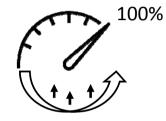
Best performance and most

reliable operation o Top-rated certified seasonal

- o lop-rated certified seasonal efficiency chillers with integrated high-capacity free cooling:
 - o Minimized PUE (Power Usage Effectiveness)
 - o Lowest operating cost
- O Uncompromised chiller
 reliability for maximized
 data center uptime









Sintesis TM Exced we etst PUE & Maximum Uptime







Restart Time

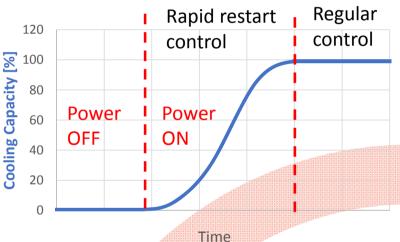
- o Symbio 800™ fastest and most reliable chiller controller on the market
- o Rapid restart package

includes:

- o Intelligent control algorithms - rapid restart control, power cap,
- o Automatic Transfer Switch (ATS) for dual power

previous operating mode





Sintesis MExcellen Rapsido Cooling Recovery after Power Outage Symbio 800 M





Overview of new GVWF XSE G



GVWF XSE G

- OHFO fully optimized

 R1234ze 0 ODP / Near Zero GWP (< 1)
 - R515B A1 classification
- o Design:
 - O All comfort & industrial process applications
 - o Special design for Data Centers
- o Efficiency:
 - o Best Ranked (Eurovent) certified Performance

rectient – Look i Eu

o Best Certified Seasonal Efficiency

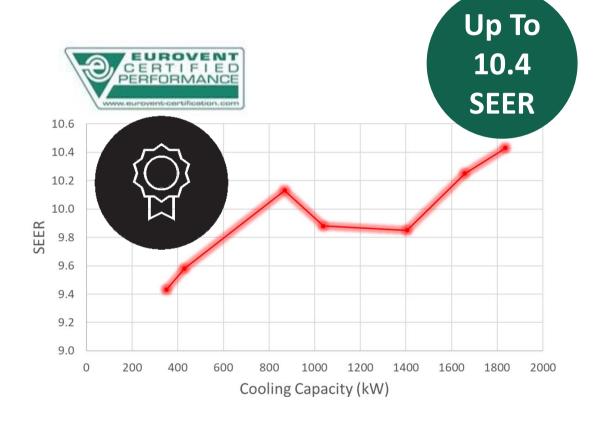
up to 10 % SEER





Efficiency

Best Ranked (Eurovent)
certified Performance
Best Certified Seasonal
Efficiency up to SEER
10.4





Built for the most extreme operating conditions

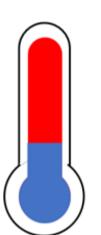


Wide operating map

- o High pressure ratio
- O High Evaporator Temperature
 Water Achievable
- o Trane Symbio™ Controller capabilities
- O Trane
 with
 minimgh Efficient
 Copper Tube



hnology y and



Up to 63°C
On heat
rejection side

Up to 30°C chilled water



Adaptive ControlTM Symbio



- o State-of-the-art controller to guarantee superior reliability and lowest cost of ownership.
- Adaptive controls to endure smooth operation and optimal performance.
- o Advanced algorithms for smarter and more reliable operations.









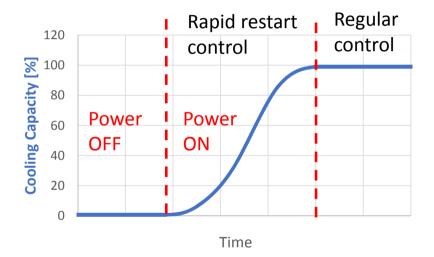
Robust performance at extreme conditions





Design

- O Meets the most demanding data center
 performance, reliability and
 application requirements
- o Available on all sizes, cooling capacity up to 2700 kW
- o Best overall efficiency to minimize the data center Power Usage Effectiveness (PUE)
- O Robust operating map for drycooler operation
- o Rapid restart package includes:







THANK YOU

Check our feaser video: https://youtu.be/R-lzyaM2|VU

