



YOUR EXPECTATIONS IN ONE PRODUCT



Sustainability



Capacity



Efficiency



Versatility



Reliability





ENVIRONMENTALLY RESPONSIBLE



READY FOR A SUSTAINABLE FUTURE



R1234ze 0 ODP Near Zero GWP (<1)

EcoWise_{TM}

RTWDchillers with near zero GWP refrigerants are part of the Ingersoll Rand EcoWise™ portfolio of products that are designed to lower their environmental impact with next-generation, low global warming potential (GWP) refrigerants and high-efficiency operation.



A UNIQUE PORTFOLIO FOR YOUR NEEDS

High Speed Centrif. Technology



Screw Technology

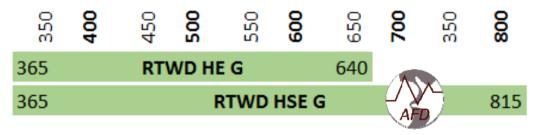




CAPACITY RANGE

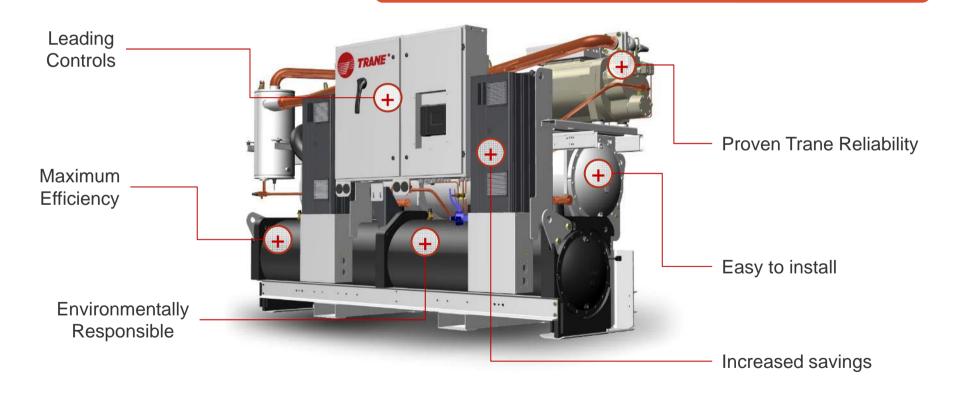


Cooling Capacity (kW)





FEATURES





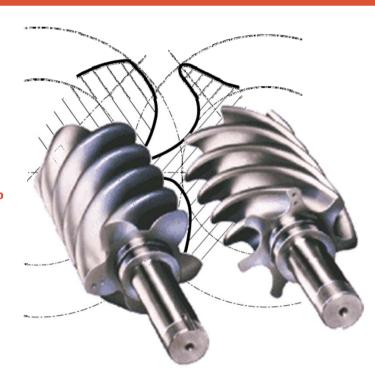
PROVEN TRANE RELIABILITY



TRANE SCREW COMPRESSOR

More than 28 years of experience

- Designed, built and tested according to the highest demanding and rugged standards
- Proven track record
 - → More than 300 000 compressors worldwide
 - → Industry leading reliability: rate greater than 99.5%
- Fewer moving parts
- Direct drive low speed
- Suction gas cooled
- No oil pump needed
- Resistance to liquid slugging
- Field serviceable
- Wider operating map in the industry





EASY TO INSTALL



SAVING TIME FOR COST SAVINGS

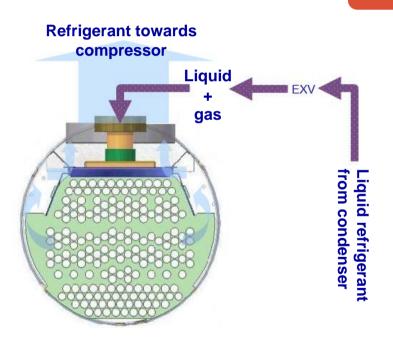




MAXIMUM EFFICIENCY



PATENTED TRANE FALLING FILM



- Unique design
- Industry leading efficiency
- Reduces energy bills



LEADING CONTROLS



TRANE ADAPTIVE CONTROLTM

Tracer® CH530

- Patented control algorithms
- Easy to use interface
- Optimized energy consumption
- On-site or remote monitoring
- Native Modbus, Lon or BACnet capabilities

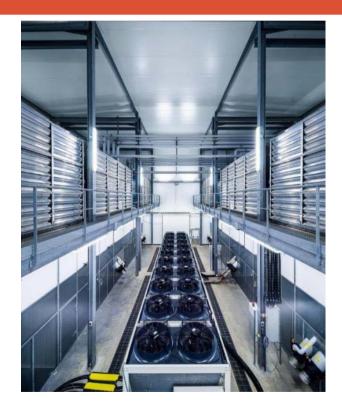




TESTING

EXTENSIVE TESTING

- Operation in extreme operating conditions leading to World Class reliability
- Pressure vessels resistance
- Electro-Magnetic compatibility (CE compliance)
- Finite element analysis for structure and components design resistance and robustness
- Acoustics and vibrations testing





QUALITY STANDARDS





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COMPLYING WITH THE HIGHEST STANDARDS

CE compliance

- Pressure Equipment Directive (PED) 97/23/CE
- Machinery Directive (MD) 2006/42/CE
- Low Voltage Directive (LV) 2006/95/CE
- Electromagnetic Compatibility Directive (EMC) 2004/108/CE
- Electrical Machinery Safety Standard EN 60204-1
- Electromagnetic Emission and Immunity Standard EN 61800-3 category C3

Quality Insurance processes

- ISO9001
- ISO14001

3rd Party certifications

- Eurovent for units up to 1500 kW
- AHRI for units above 700 kW

Guaranteed performance of the investment





FLEXIBILITY AND VERSATILITY



Office buildings



Healthcare



Data Centers



Automotive Industry



Pharmaceutical Industry



Food and Beverage Industry



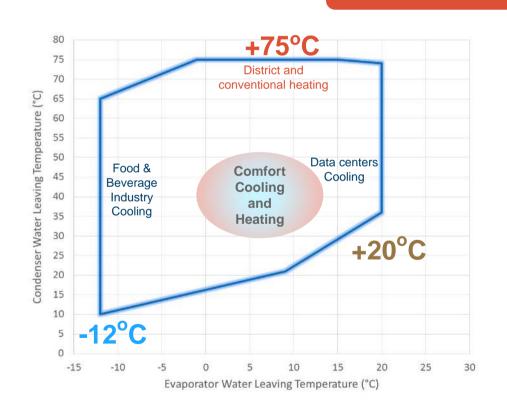
Hospitality Industry

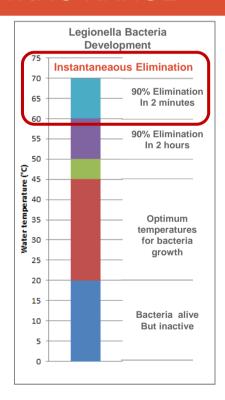


District Cooling
District Heating



UNMATCHED OPERATING RANGE





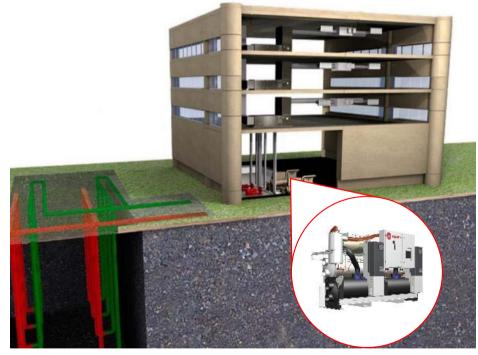




HEAT PUMP OPERATION

RTWD

- High leaving water temperature
 - → Up to 75°C
- High capacity water/water heat pump
 - → Up to 905 kW at 40/45°C*
 - → Up to 860 kW at 47/55°C*
- High COP**
 - → Up to 4.7 at 40/45°C*
 → Up to 4.1 at 47/55°C*
- Dedicated and optimized compressor for heating applications



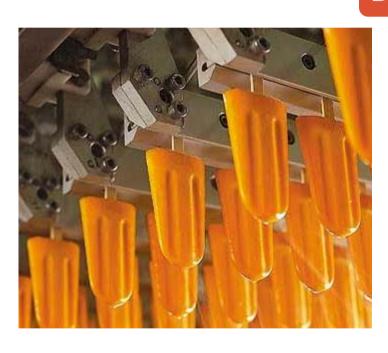
^{*} Entering/Leaving evaporator : 10/7°C

^{**} Net COP Calculated according to EN14511-2013 standard





BRINE PROCESS APPLICATIONS



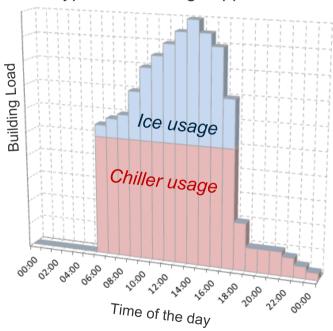
- Compliant with Med Temp industrial process application minimum efficiency requirements (SEPR)
 - European regulation (EU) 2015/1095
 - Entry into force on 2016, July 1st
- Operation from 4 down to -12°C leaving water temp
- Dedicated compressor for efficiency and reliability
- Operation with various brines:
 - Ethylene Glycol
 - Propylene Glycol
 - Ethanol
- Value of standardized design, capable to meet special requirements





ICE STORAGE

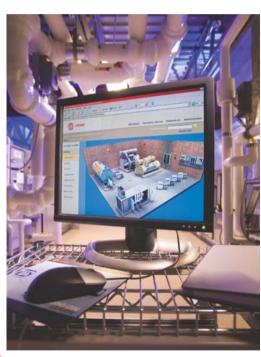
Typical ice storage application



- Energy storage application
- Chiller builds ice when utility rates are lower, or when heating requirement overtakes cooling requirement
- Chiller smartly balances the contribution of ice melting and chiller operation to meet the cooling load with the best system efficiency
- Controls takes charge of:
 - controlling set points,
 - actuating chiller and or ice pump and other accessories







COMMUNICATION

- Compatible with all Trane Building Management Systems and chiller plant controls
- Communication interfaces
 - BACnet™ MSTP
 - ModBus™ RTU
 - LonTalk™ (LCI-C)











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