# Series E<sup>™</sup> CenTraVac<sup>™</sup> Centrifugal Chillers





# **Highest Efficiency**

- Exceeding 10 percent more efficient than any other centrifugal chiller design
  - Direct drive compressor provides
    2 to 3 percent better efficiency
  - Multi-stage design with integrated flash economizer drives 5 to 7 percent better cycle efficiency
- The industry's most efficient, low pressure, next-generation, low-GWP refrigerant.
- Duplex<sup>™</sup> chiller design utilizing series counterflow arrangement provides the industry's highest efficiency for large tonnage applications



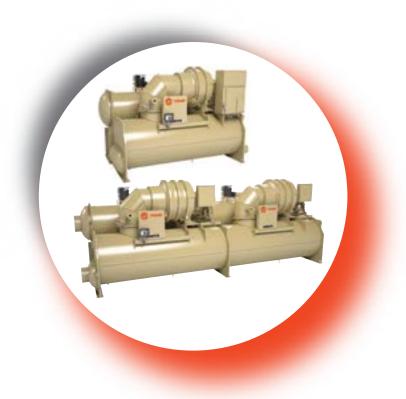
#### **Environmental Stewardship**

- Near-zero global warming potential with R-1233zd(E), a next-generation, low-GWP refrigerant that is one of the few non-flammable olefin options available today
- Low pressure, leak-tight design keeps refrigerant inside the chiller
- Patented EarthWise<sup>™</sup> purge auto-regeneration cycle reclaims refrigerant for return to the refrigerant cycle
- Energy saving options reduce water and heating plant consumption



#### **Most Reliable**

- Unmatched direct drive compressor reliability through simplicity of design and fewer moving parts
- Semi-hermetically sealed motors operate in a cool, clean environment to extend the life of the chiller
- Tracer AdaptiView<sup>™</sup> controller with patented algorithms anticipate and correct situations to keep the chiller online
- Extensive factory testing available to verify operation at customer-defined conditions



# Then. Now. Always.

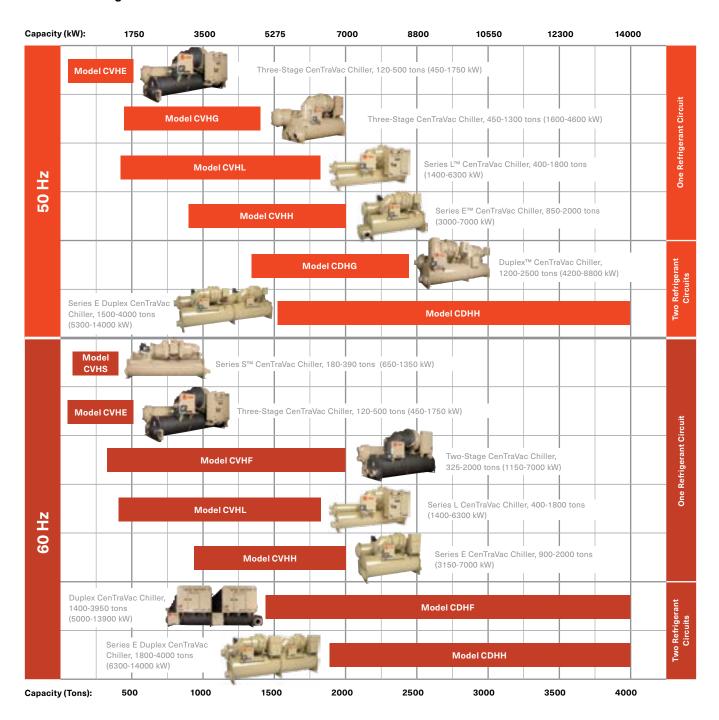


# **Proven Technology**

- Multi-stage compressor for stable operation under all conditions
- Trane evaporator technology reduces the refrigerant charge
- Fourth generation microprocessor controller enables the chiller to quickly respond to real world conditions
- Energy saving options such as free cooling, thermal storage, heat recovery, heat pump and Adaptive Frequency™ drives



### **Trane Centrifugal Chiller Product Portfolio**





Trane – by Trane Technologies (NYSE: TT), a global climate innovator – creates comfortable, energy efficient indoor environments through a broad portfolio of heating, ventilating and air conditioning systems and controls, services, parts and supply. For more information, please visit *trane.com* or *tranetechnologies.com*.