

National Line Card

Products & Systems Solutions



Approach

Our goal is to deliver the outcomes that matter most to you—from more comfortable indoor environments to energy efficient operations. We take a consultative approach to understand your unique business objectives, gather data and information to make informed recommendations, and support you from implementation to validation.

Service & Solutions

Our capabilities include commercial systems, energy services & solutions, contracting, controls/building automation, rentals and service.



Building Services

Help reduce operating costs and extend the life of your equipment with planned, reliable, preventative and proactive scheduled maintenance and repair by Trane factory trained technicians.

- Service Agreements
 - Connected Mechanical Service Agreements
- Extended Warranty
- Quoted Repair Products



Digital Services

Leverage your data and Trane's analytics to create simple dashboards that can help you to understand performance of your building and its assets. Dashboards can help to find opportunities for increasing efficiency, decreasing energy use, and increasing productivity through system optimization.

- Connected Building Service Agreements
- Secure remote access and building management with TraneConnect™
- Trane® Autonomous Control



Intelligent Services

Trane Intelligent Services provides one-on-one consultative support to reduce energy use, manage operational costs, and optimize building performance. Take the guesswork out of understanding building data to achieve more comfortable spaces while meeting your financial and environmental goals.



Rental Services

24/7/365 local service, engineering expertise and an expansive fleet of rental products. Promptly provides temporary, scalable HVAC and power from standard applications to complex solutions

- Water-Cooled Chillers, Air-Cooled Chillers, Temporary Power, Cooling Towers, Packaged A/C Units, Air Handlers, Portable A/C Units



IAQ Services

Today there are more ways than ever to assess and manage indoor air quality, while keeping your goals for cost and sustainability in sight. Trane offers a variety of services, innovative technologies, and proven solutions for measuring and monitoring IAQ. We can help you align with air quality guidelines and recommendations set by the CDC, EPA, and ASHRAE.



Trane Creative Solutions

Customized Trane Equipment Modifications Including: Multizone Replacements, Water-Side Economizer Coils for Air-Cooled Chillers, Packaged Air-Cooled Ice Storage Systems, Acoustical Attenuation



Engineer and Contractor Resources

Trane is here to support, enable and educate Engineers and Contractors through comprehensive tools and resources, design and analysis tools, professional education and training, BIM and CAD drawings, and pre-engineered system solutions.

traneengineer.com | tranecontractors.com



Engineered Systems

- Comprehensive Chilled Water Systems
- Comprehensive Chiller- Heater Systems
- CoolSense® Integrated Outdoor Systems
- Geothermal Systems
- Intelligent Variable Air Systems
- Thermal Battery™ Systems
- Variable Refrigerant Flow (VRF) Systems
- Zoned Rooftop Systems



Energy Services

Trane enables more efficient, sustainable buildings by providing a single source for decarbonization and modernization solutions, programmatic implementation services, and financing and funding options. We use deep expertise and data driven approach to understand how energy impacts your unique situation, and partner to develop strategies to deliver your goals for carbon reduction, resiliency, and energy optimization.

Energy Solutions include:

Building modernization and automation | Lighting | Water Conservation | Renewables and Distributed Energy Resources | Funding, financing, and procurement programs

Trane is accredited by NAESCO as an Energy Services Provider (ESP), a U.S. DOE-qualified Energy Services Company (ESCO), and recognized by the Canadian Federal Buildings Initiative as a qualified bidder.

Building Automation



Tracer® SC+
Scalable building automation system solution with standard, open protocols



Pivot® Smart Thermostat
Wi-Fi & Ethernet thermostat for light commercial applications



Symbio®
Application Specific and Programmable Unit Controllers, Integrates with BACnet MSTP, BACnet/IP, BACnet/Zigbee, Lontalk & Modbus Protocols



Air-Fi® Zone Sensors
Flexible and reliable wireless sensors & system communications leveraging Air-Fi® Wireless (BACnet/Zigbee) technology. Sensors include temperature, humidity, CO₂ & occupancy

Building Management Systems



Tracer® Ensemble®
Enterprise level building management software for facility professionals



Tracer® Synchrony®
Tracer SC+'s built-in web based user interface software for building operators



Tracer® Concierge®
Light commercial control system with set-up wizard for installers and simple user interface for non-technical users



BAS Operator and Occupant Apps
Providing mobile access to service providers, building operators, and occupants



Trane® Autonomous Control
AI-based solution that performs automatic system optimization using real-time weather data and predictions, building occupancy trends & energy usage patterns

IAQ Solutions



Synexis
Best in class air purification and surface cleanliness by creating Dry Hydrogen Peroxide from naturally occurring oxygen and humidity in the air to significantly reduce many different pathogens.



TCACS
Trane Catalytic Air Cleaning System (TCACS) is an enhanced air filter containing 3 technologies: filtration, ultraviolet light, and a photocatalytic oxidation (PCO) process

Trane® / Mitsubishi Electric VRF & Ductless



N-Generation CITY MULTI®
Energy efficient air and water cooled, all electric VRF systems available in high efficiency, and H2i® (Hyper-Heat); 6 - 36 Tons



HVRF
All electric, hydronic VRF system that uses refrigerant and water. Hybrid Branch Controller provides simultaneous heating and cooling; 6 - 36 Tons



P & Nv Series
Ductless systems for superior comfort, flexibility and reliability with precise zone control to distribute heating or cooling only to spaces in use; 0.5 - 5 Tons



SMART MULTI
Light commercial multi-zone ductless heat pump system, side discharge outdoor unit; 3 - 10 Tons



Indoor Units
A variety of indoor units available to meet any application and design requirements, including ceiling cassettes, wall mounted, concealed and more



LEV Kit
The power to connect Trane® / Mitsubishi Electric CITY MULTI® products to Trane air handlers; allows for higher airflows, higher static pressure, larger capacity, customized products, and DOAS configurations

Data Center Cooling



Performance Climate Changer® for Data Centers
Maintains tight temperature and humidity tolerances for server room environments.

Water-Cooled Portfolio Centrifugal Chillers



Model TACW
Oil-free; Cooling operation; 100-250 Tons; 400-600 Tons. R-134a and R-513A



Agility® Model HDWA
175 - 425 Tons; Heating and Cooling capable; Up to 140°F HW; 60 Hz, 50 Hz; Symbio® 800 controller; uses either R-513A



CenTraVac® Model CVHE
3-Stage Compressor; Heating and Cooling capable; Free Cooling; Symbio® 800 controller; 150 - 500 Tons; R-514A



CenTraVac® Model CVHF
2-Stage Compressor; Heating and Cooling capable; Free Cooling; Heat recovery operation; Symbio® 800 controller; 325 - 2000 Tons; R-514A



CenTraVac® Model CVHH
Multi-stage; Dual Compressor; Heating and Cooling capable; Free Cooling; Heat recovery operation, Symbio® 800 controller; 900 - 2000 Tons; R-1233zd



CenTraVac® Model CDHF
Multi-Stage Dual Compressor; Heating and Cooling capable; Free Cooling; Symbio® 800 controller; 1450 - 3950 Tons; R-514A



CenTraVac® Model CDHH
Multi-stage; Dual Compressor; Heating and Cooling capable; Free Cooling; Symbio® 800 controller; 1800 - 4000 Tons; R-1233zd

Water-Cooled Chillers



Cold Generator™ Model CGWR
Scroll Compressors; 20 - 75 Tons; R-410A



Series R® Model RTWD
Helical Rotary Compressor; Heating and Cooling capable; Heat recovery operation—dual setpoint; Up to 140°F HW production 60 - 250 Tons; R-513a



Optimus® Model RTHD
Optional Variable Speed Helical Rotary Compressor; Heating and Cooling capable; 150 - 430 Tons; R-513a for fixed speed only

Air-Cooled Chillers



Ascend® Air-to-Water Heat Pump Model ACX
Energy efficient, all electric heating and cooling; Symbio® 800 controller; 140-230 tons cooling; 1500 - 2500 MBh heating; R-454B



Ascend® Model ACS
Scroll Compressor; 140 - 230 Tons; R-454B; Heating and cooling capable; Heat recovery; Symbio® 800 controller



Ascend® Model ACR
Variable Speed Helical Rotary Compressor; Free Cooling; Symbio® 800 controller; 150 - 550 Tons; R-513A



Model CGAM
Scroll Compressor;
20 - 130 Tons; R-454B;
Heat recovery option



Model TCAA
Oil Free Centrifugal;
60 - 440 Tons; R-134a or R-513A



Sintesis® Model RTAF
Variable Speed Helical Rotary
Compressor; 115 - 500 Tons;
R-513A; Symbio® 800 controller



Cold Generator™ Model CCAR
Scroll Compressor with
Air-Cooled Condenser;
20 - 70 Tons

Modular Units



Thermafit™ Model AMC
Air-Cooled Chiller; Free cooling
& Heat recovery; 15 - 80 Tons
(960 Ton Banks); R-410A | R-454B



Thermafit™ Models MWC
Water-Cooled Chiller; Heat
recovery; 15 - 80 Tons (800 Ton
Banks); R-454B



Thermafit™ Model MAR
Air-cooled modular split system
with remote condenser; 15-80
Tons (800 Ton Banks); R-454B.



Thermafit™ Model AXM
Air-to-water heat pump; Energy
efficient; All electric cooling or
heating; 30 Ton (60-360
Ton Banks); R-454B



Thermafit™ Model WXM
Water-to-water heat pump;
Energy efficient; All electric
cooling or heating; 20 - 80 Tons
(800 Ton Banks); R-454B



Thermafit™ Model MWS
Water-cooled multipipe;
Simultaneous heating and cooling;
30 - 60 Tons (90-600 Ton Banks);
450 MBh to 7,200 MBh; R-454B



Thermafit™ Model MAS
Air-Source Multipipe; 30 tons (422
Mbh) / unit (300 Ton / 4220 MBh
bank); Simultaneous heating
and cooling; R-454B



Thermafit™ Model TACW
Water-cooled chiller; Oil-free
centrifugal; 60 - 135 Tons (1000
Ton Banks); R-513A



Cold Generator™ Model CICD
Water-cooled; Heat Recovery;
20 - 85 Ton (600 ton Arrays)

Thermal Storage



**Thermal Energy
Storage Tanks**
Optimizes energy usage by storing
renewable, excess or inexpensive
energy; Reduces peak electric
demand charges; Access to
demand response programs;
Buildings with chilled water
systems above 100 cooling tons



Thermal Battery™
Air-Cooled Chiller Plant
Pre-Engineered, Factory Built
Cooling System. Incl: Air-Cooled
Chillers, CALMAC® Energy Storage
Tanks, Customizable System



**Thermal Battery™ Storage-
Source Heat Pump System**
Delivers Heating and Cooling,
Supports Electrification. Incl:
Water-to-Water and Air-to-Water
Heat Pumps, CALMAC® Energy
Storage Tanks, Trane Controls

Packaged Units



Impack®
Cooling, Gas/Electric, Heat Pump
& Dual-Fuel; Multiple Efficiency
Levels; Up to 16 SEER; (1 ph-15
SEER2); 2 - 5 Tons



Foundation®
Cooling, Gas/Electric; Adapts
to Competitors Roof Curbs;
3 - 25 Tons



**Precedent® &
Precedent® with eFlex™**
3 - 25 Tons; Cooling, Gas, Electric,
Heat Pump & Hybrid Dual Fuel;
Standard, High, & eFlex Ultra-High
Efficiency (up to 26.3 IEER); Symbio
700 control with Mobile App (6 - 25
Tons) and Air-Fi® capable



Zoned Rooftop Systems
Pre-designed for small building
comfort; Includes Precedent or
Voyager rooftop unit, VAV terminal
units, Tracer® Concierge™ system
control & Air-Fi® wireless controls
& sensors; 3 - 50 Tons



Voyager® 3
Cooling, Gas/Electric; eStage™
Multi-Staged Compressors; Full &
part load efficiencies; Symbio 700
and Mobile App; Up to 15.8 IEER;
27.5 - 50 Tons



IntelliPak® 1
Cooling, Gas/Electric, Hot
Water; 20 - 130 Tons (Available
with eFlex™ Variable Speed
Compressor; 20 - 75 Tons), Symbio
800 Controller with 7" Touchscreen
Display, Air-Fi® Capable



IntelliPak® 2
Cooling, Gas/Electric, Hot
Water, Air-Cooled; 90 - 150 Tons,
Available with eFlex™ Variable
Speed Compressor, Standard
Double Wall Foam, Symbio 800
Controller with 7" Touchscreen
Display, Air-Fi® Capable



IntelliPak® 3
Cooling, Gas/Electric; 20 - 75
Tons, Available with eFlex™
Variable Speed Compressor,
Standard Double Wall Foam,
Symbio 800 Controller with 7"
Touchscreen Display, Air-Fi®
Capable, Up to 17.8 IEER



Trane Thrive (OAXX)
Indoor Agriculture packaged
product (DX, Air and Water
Cooled); Heat Pump, Gas,
and Hot Water; 3-80 Tons

Self-Contained Units



**Water-Cooled Self-
Contained Model SWUD**
Single-piece units ideal for new
construction market; Redesigned
with upgraded features; Symbio
500 controller with TD7; R-454B;
Up to 22.8 IEER; 20-110 Tons



**Modular Self-
Contained System**
Smallest Footprint on the Market;
Water-Cooled System; Variable
speed compressors and fans;
Industry-leading Part Load
Efficiency - Up to 20.8 IEER;
25 - 80 Tons, cassette
construction

Water-Source Heat Pumps



**Axiom™ Standard
Efficiency Model GEH/GEV**
Horizontal (0.5 - 15T) or vertical
(0.5 - 25T); Quiet operation;
Multiple airflow configurations;
0.5 - 25 Tons



**Axiom High Efficiency
Single-Stage Model EXH/EXV**
Horizontal or vertical;
Electronically Commuted
Motor (ECM); Rotary or scroll
compressor; 0.75 - 6 Tons



**Axiom High Efficiency
Two-Stage Model DXH/DXV**
Horizontal or vertical; 2-Stage
compressor; Deluxe sound option
for quiet operation; Meets LEED
EAc4 requirement; 2 - 6 Tons



**Axiom Variable Speed
Model VSH/VSV**
Horizontal or vertical; eFlex™
Variable Speed compressors
and fans; Single and three phase
voltage; 2 - 5 Tons



**Axiom High Efficiency
Console Model GEC**
ASHRAE 62 indoor air quality
compliant; Quiet operation;
0.5 - 1.5 Tons



**Axiom Vertical Stack
Model GET**
Multiple capacities & cabinet
sizes; Available in PSC or ECM
motors; Flexible air supply
options; Integrated controls;
0.75 - 3 Tons



**Axiom Water-to-Water
Model EXW**
Co-axial heat exchanger;
Rackable modular design;
5, 10, 20 Tons

Axiom Rooftop

Models GWS & GSJ

Boiler/Tower or Geothermal applications; Multiple configuration options; GWS (3-10 Tons); GSJ with Symbio 700 controls (12.5 - 25 Tons)



Air Handling Units

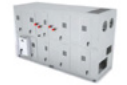
Performance Climate Changer® - Catalog

Cost Effective Performance; Compact Footprint; Factory-Engineered, Mounted & Tested Controls; Indoor/Outdoor; Up to 15000 CFM; 2" R-13 Construction



Performance Climate Changer® - Semi-custom

Leading Efficiency and Casing Performance: Dimensional Flexibility enabling Easy Installation: Indoor/Outdoor; Up to 60000 CFM; up to +/-10 in w.g.; 2", R-13 or 3", R-19 Construction; Factory Engineered, Mounted & Tested Controls



Performance Climate Changer - Custom (TCFS/TCPA)

Indoor or outdoor; Unlimited dimensional flexibility and airflow; Up to +/- 12 in. w.g. operating pressure, with <1/2% air leakage rate; Absolute thermal barrier with performance up to R-25



Trane Air Rotation Unit

Indoor or Outdoor; Up to 300 tons and 120,000+ CFM; CW or DX; 2" Foam Insulated panels, factory engineered & mounted controls



Make-Up Air Gas Heating Units

Model GSAA

Indoor Gas-Fired Make-Up Air Handlers; Standard & High Efficiency; 100 - 1200 MBH



Model GRAA

Outdoor Gas-Fired Make-Up Air Handlers; 100 - 1200 MBH



Model AHOA

Packaged Air Handlers; Cooling, Make-Up Air, & Ventilation



Unit Heaters

Gas Fired Unit Heaters

14 sizes, from 30 to 400 MBh; 409 stainless steel; Single point power; Direct Spark ignition; Tubular heat exchangers; OSHA fan guard



Electric Unit Heaters

Model UHWA/UHAA/UHRA/UHXA/UHEC/UHCA

7 styles, over 200 configurations; Sized from 1.5 to 50 kW; Capacities from 5 to 16.4 MBh; Vertical or horizontal discharge; Single point power; UL Listed



Hydronic Unit Heaters

Model UHS/UHP

38 unit sizes from 8 to 720 MBh; Vertical and horizontal configurations; 2-point or 4-point installation; Single point power: Steam or hot water; OSHA fan guard; ETL/ETLc certified



High Efficiency Gas Fired Unit Heater Model HINA/HIPA

6 sizes: 50-400MBH, natural and LP gas. 3:1 self-modulating turndown; >95% Efficiency



Terminal Units

Blower Coil

Blower Coil Model BCXE; Indoor; Up to 4000 CFM; Horizontal and Vertical Configurations; ECM Motors, Multiple Filter Options, Factory-Engineered & Mounted Controls.



CoolSense® Terminal Unit

Up to 1300 CFM; Variable speed ECM; Symbio® 500 controller (available with Air-Fi wireless)



VariTrane® Model VC*F

Single Duct Variable Air Volume Boxes; 25 - 8000 CFM; Optional Factory Installed Piping Package



VariTrane® Model VDDF

Dual Duct Variable Air Volume Boxes; 80 - 8000 CFM



VariTrane® Model V**F

Fan-Powered Variable Air Volume Boxes; 200 - 3300 CFM; Parallel or Series Configuration



VariTrane® Model L**F

Low Height Fan-Powered Variable Air Volume Boxes; 100 - 1800 CFM; Parallel or Series Configuration



VariTrane® Model VRRF

Round Inlet/Round Outlet RetroFit Variable Air Volume Boxes; 25 - 4000 CFM



UniTrane® Model FC*B

Horizontal or Vertical Fan Coil; Cabinet, Recessed or Compact Configurations; 200 - 1200 CFM



Force-Flo™ Model FF*B

Horizontal or Vertical Cabinet Heater; Concealed or Recessed Configurations; 200 - 1200 CFM



Model VUVE

Vertical Unit Ventilators; 750 - 1500 CFM



Model HUVU

Horizontal Unit Ventilators; 750 - 2000 CFM



Split Systems

Split Systems

Cooling & Heat Pump; Gas, Electric, or Hot Water Heat; 1.5 - 5 Tons



Odyssey™

Symbio™ 700 controller; Full & part load efficiencies; Up to 14.8 IEER; 6 - 25 Tons



RAUJ

Air-Cooled Condensing Units; Available with Remote Chiller Evaporators; 20 - 120 Tons



CAUJ

Air-Cooled Condensers; 20 - 120 Tons



Outdoor Air Solutions

Horizon® DOAS (OAXX)

DOAS; Packaged product (DX, Air and Water Cooled); Heat Pump, Gas, and Hot Water; >43°F Dew Point capability; ERV; AHRI 920 rated; 3-80 Tons



Horizon® Flex™ (HAXX)

Up to 100% outdoor air; Packaged product (DX - Gas Heating); >51°F Dew Point capability; ERV; AHRI 340/360 certified; ASHRAE 90.1 compliant; 10 - 15 Tons



VFD

TR150/TR200

Trane Variable Frequency Drives; 6, 12, 18 Pulse



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.

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