

# National Line Card | Canada

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
- Intelligent Services Agreements
- Secure remote access and building management with TraneConnect™



### 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](http://traneengineer.com) | [tranecontractors.com](http://tranecontractors.com)



### Engineered Systems

- Comprehensive Chilled Water Systems
- Comprehensive Chiller- Heater Systems
- CoolSense® Integrated Outdoor 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, CO<sub>2</sub> & 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

## IAQ Solutions



**Synex**  
Provides a continuous application of DHP that can reduce airborne and surface pathogens, fungi and VOCs



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

## Computer Room Cooling



**Single Circuit**  
Single circuit DX or CW; vertical floor mounted; 2 - 10 Ton; tandem compressor options; EC fan technology



**Dual Circuit DX**  
Dual circuit DX or CW; vertical floor mounted; 5 - 80 Tons; EC fan technology



**Ceiling Mounted**  
Ceiling Mounted DX or CW; 1 - 10 Tons; Independently circuited scroll compressors



**In Server Row**  
In Row/rack DX or CW; 4 - 21 Tons; Largest CW capacity available, water side economizer on both models

## Water-Cooled Portfolio Centrifugal Chillers



**Model TACW**  
Oil-free; Cooling operation; 60 - 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 or R-134A



**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-134a or R-513a



**Optimus® Model RTHD**  
Optional Variable Speed Helical Rotary Compressor; Heating and Cooling capable; 150 - 430 Tons; R-134a; or 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 TACA**  
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; R-410A

## Modular Units



**Thermafit™ Model AMC**  
Air-Cooled Chiller; Free cooling & Heat recovery; 15 - 80 Tons (800 Ton Banks); R-410A



**Thermafit™ Model MWC**  
Water-Cooled Chiller; Heat recovery; 15 - 80 Tons (800 Ton Banks); R-410A



**Thermafit™ Model AXM**  
Air-to-water heat pump; Energy efficient; All electric cooling or heating; 30 Ton (300 Ton Banks); R-410A



**Thermafit™ Model WXM**  
Water-to-water heat pump; Energy efficient; All electric cooling or heating; 20 - 80 Tons (800 Ton Banks); R-410A



**Thermafit™ Model MWS**  
Water-cooled multipipe; Simultaneous heating and cooling; 30 - 60 Tons (90-480 Ton Banks); 450 MBh to 7,200 MBh; R-410A



**Thermafit™ Model MWS**  
Water-cooled multipipe; Simultaneous heating and cooling; 30 – 60 Tons (90-480 Ton Banks); 450 MBh to 7,200 MBh; R-410A



**Thermafit™ Model TACW**  
Water-cooled chiller; Oil-free centrifugal; 60 - 135 Tons (1000 Ton Banks); R-134a and 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-Stage 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

## Self-Contained Units



### IntelliPak® Modular Series

Split apart construction, easy transport & installation; Factory-installed digital controls; Up to 13.9 EER, 17.9 IEER; Water Cooled 20 - 35 Tons



### IntelliPak® Signature Series

Up to 14.1 EER, 19.3 IEER; Floor by floor system; Factory-installed digital controls; Water-cooled 20 - 110 Tons



### Modular Self Contained System

Smallest Footprint on the Market; Water-Cooled System; Variable speed compressors and fans; Full and part load efficiencies; Industry-leading Part Load Efficiency - Up to 20.8 IEER; 40 - 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 Model GSI

Boiler/Tower or Geothermal applications; Multiple configuration options; 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 or constant-fan speed; 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



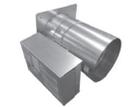
### VariTrane® Model V\*\*F

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



### RAU

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



### CAU

Air-Cooled Condensers; 20 - 120 Tons

## Outdoor Air Solutions



### Horizon™ DOAS

DOAS; Packaged product (DX, Air and Water Cooled); Heat Pump, Gas, and Hot Water; <51F Dew Point capability; ERV; AHRI 920 rated



### Mixed Air Unit HAXX

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

## VFD



Trane TR150/TR200 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](http://trane.com) or [tranetechnologies.com](http://tranetechnologies.com).

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