



TRANE[®]

Voyager[™]

*12½ to 25 Ton Light Commercial Packaged
Units with ReliaTel[™] Microprocessor Controls*





Voyager...Designed and built to provide our cus

Trane Voyager 12½ to 25 ton units are built to not only provide ultimate indoor comfort, but also comfort in knowing that our packaged units are easy to install and maintain.

Trane was the first to introduce micro controls and, with the ReliaTel Microprocessor, has continued to improve their performance. Together with ReliaTel controls, Voyager units provide the highest standards in quality and reliability, ease of service, performance and comfort.

To increase their ability to win jobs, contractors want a unit that saves time and money. Engineers want a unit which meets their design criteria and covers special applications. Voyager delivers all of this and more!

Quality and Reliability

Trane quality is second to none and Voyager was designed with quality in mind. Its tried and true components minimize failures and downtime that result in costly service calls.



Here are just some of the features that give Voyager its reputation:

Trane Built Scroll Compressors

Designed specifically to ensure outstanding system operation. Five years of operation are simulated in 16 weeks of testing in the System Extreme Environmental Test (SEET) facility.

Voyager contains the best compressor technology available, in order to achieve the highest possible performance.

Trane scroll compressors offer significant efficiency and reliability benefits including cast iron orbiting scrolls, journal bearings, an optimized involute geometry, and much more.

Sloped Condensate Drain Pans

Standard on all Voyager units. The drain pan rests on an angle, and is painted with the same weather-resistant coating as the unit's exterior panels. This helps insure proper drainage to prevent water accumulation and provides an easy to clean surface.

Drum and Tube Heat Exchanger

This design was developed for increased efficiency, better reliability, and long life. The heat exchanger utilizes aluminized and stainless steel components and industry proven drum and tube technology for maximum durability.

The hot surface ignitor utilizes electricity to light the gas burner, eliminating the need for a pilot that could accidentally blow out.

Shut-down due to low gas line pressure is alleviated by our unique negative pressure gas valve.



customers the ultimate in comfort

ReliaTel Micro Controller

Designed with two thoughts in mind: reliability and comfort. The ReliaTel controls accurately orchestrate all system operation, whether the unit is heating, cooling, or economizing. Voyager also offers a complete family of sensors and wall-mount devices to compliment the capabilities of the Trane ReliaTel.

Strict Standards in Testing

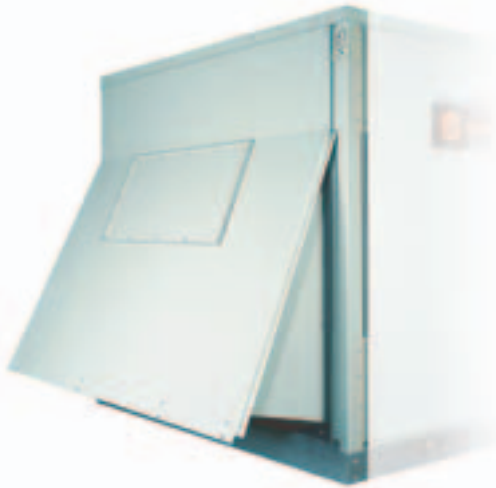
Trane tests its Voyager designs at the factory, not on its customers! All models are subjected to rigorous and widely varied factory testing before being shipped to the job-site.

Indoor Air Quality

The air we breathe is an especially important factor when choosing a system. Properly conditioned indoor air goes beyond quality- it encompasses the health and safety of the facility occupants.

All Voyager units are built with superior indoor air quality in mind:

- Dual-sloped drain pan for better drainage and prevention of microbial growth
- Dehumidification/Hot gas reheat option
- Foil-faced insulation
- Demand ventilation capability
- Ventilation override sequence (Exhaust, purge, pressurization)
- 2-inch pleated media filters
- Clogged filter switch
- Optional smoke detectors
- Outside air hood options (*Manual and motorized dampers, economizers with 100% reference dry bulb, or reference or comparative enthalpy*)



Superior Performance and Application Flexibility

Voyager units are designed to meet the toughest job standards and to handle the most complex applications.

High Efficiency Units

Electric/electric and gas/electric models are available with efficiency ratings up to 11.5 EER. These models can be ordered with Thermal Expansion Valves (TXV's) for improved operating performance over a broader range of conditions, and a horizontally split evaporator coil for better latent capacity.

Factory Installed Options (FIOPs)

Voyager's wide variety of factory installed options eliminates time-consuming accessory field installation.

Trane Factory Built Roof Curbs

Only two curbs across the entire Voyager line simplify curb selection.

Multiple System Compatibility

Voyager units are compatible with constant volume (CV), changeover variable air volume (VAV), and standalone Integrated Comfort Systems (ICS).





Voyager is one of the most complete lines of packaged units on the market today

Having a unit that's easy to install and service is an important benefit for everyone. It means less time on the job and, therefore, lower costs.

Easy to Install & Service

Voyager's conversionless units provide money and time-saving features to meet these requirements. Some of the benefits are:

Quick-Adjust Idler Arm

Allows easy adjustment of the belt and sheaves without moving the mounted fan motor.

Single-Side Access

All necessary servicing of the unit can be completed from one accessible side. Just remove three screws or less on any service panel and you're into the unit. Hinged access doors are also available to make opening the unit even easier and minimize potential roof damage that could be caused by dropped or misplaced screws.

Separated Condenser Coil

Allows for easy access and cleaning.



Exclusive, U-shaped Air Path

Allows for high airflow giving excellent building circulation.

Micro Controls

The programming of the ReliaTel microprocessor eliminates the need for field installed anti-short-cycle timers and time-delay relays. With ReliaTel, compressor and fan staging, minimum On/Off times, and alternating compressor lead/lag control are standard features. The ReliaTel board enables better outside air management by providing demand ventilation capability (CO₂ control), and enables low ambient cooling down to 0°F.

No Job Site Conversion

The dedicated downflow and horizontal unit configurations eliminate the need for time consuming field conversions.

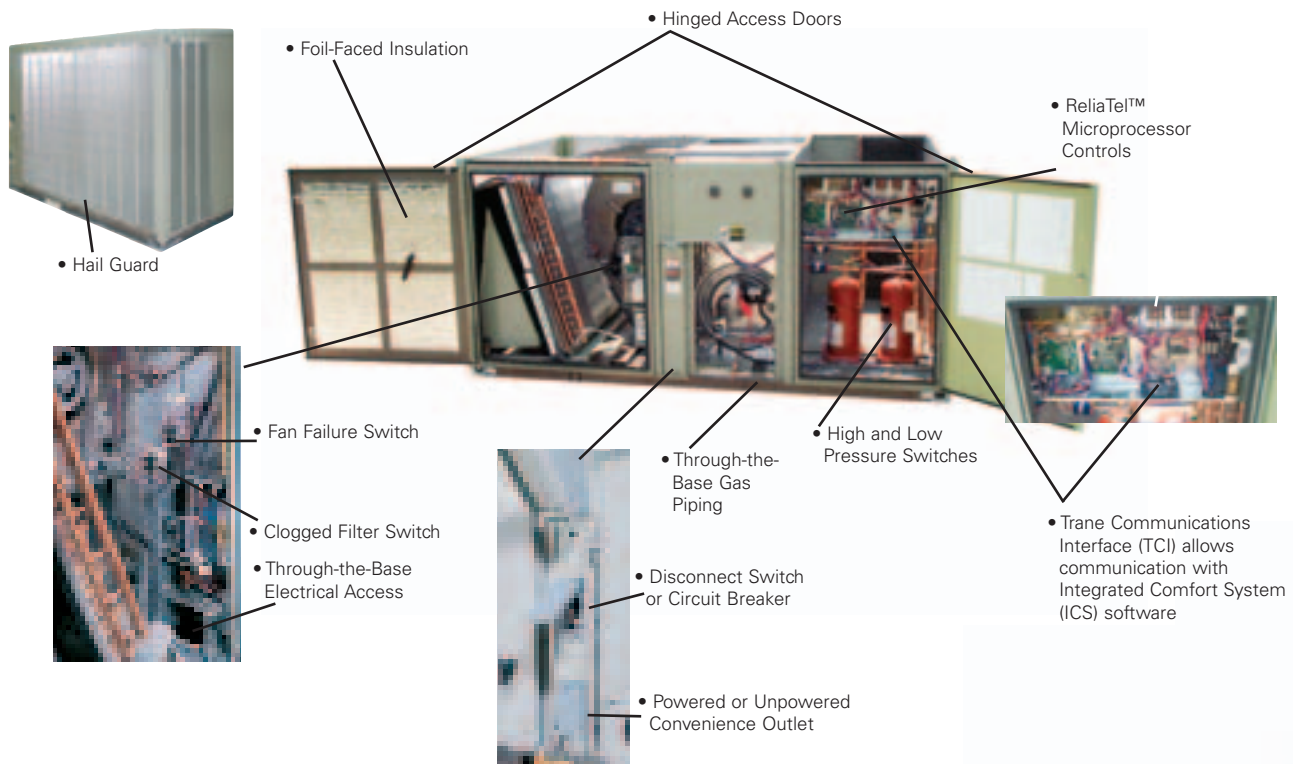
Voyager's Low Voltage Terminal Board

External to the electrical control cabinet, the board is easy to locate and makes attaching thermostat and sensor wires a snap. It also eliminates the need for any special tools to step the Voyager unit through its test sequence. By simply placing a jumper between Test 1 and Test 2 on the Low Voltage Terminal Board, the unit will walk through its operational steps automatically.

Single Point Power

A single electrical connection powers all Voyager units, eliminating the need to run extra wiring.

Voyager's Outstanding Features add extra value to already superior performance



Trane Quality and Reliability

- Trane built scroll compressors
- Drum and tube heat exchanger
- ReliaTel microprocessor controls
- Dual-sloped drain pan
- Thermal Expansion Valves (TXV) with horizontally split evaporator coil
- Strict testing standards

Easy to Install

- No conversion – Dedicated horizontal and downflow units
- Single-side access
- Improved airflow
- Easy access low voltage terminal board
- Single-point power connection

Easy to Service

- Voyager's simple design
- Built-in test modes provided by the ReliaTel controls
- Standardized components
- Single-side service
- Colored and numbered wiring
- Quick-adjust idler arm
- Easily removed hail guards
- Hinged access panels
- Convenience outlets
- Separated condenser coil

Superior Performance and Application Flexibility

- High-efficiency units
- Factory Installed Options (FIOPs)
- Low airflow application down to 200 cfm/ton with appropriate accessories*

Other Available Factory Installed Options Not Shown:

- LonTalk™ Communications Interface (LCI)
- High-efficiency motors
- Electric heaters
- Discharge air sensing kit for true discharge air temperature monitoring and supply air tempering
- Reference or Comparative Enthalpy
- Dehumidification/Hot gas reheat
- Smoke detectors*

** Return air smoke detectors for certain models have minimum airflow requirements. For specifics, contact a Trane representative.*

** Contact a Trane representative for details*

Integrated Comfort™ Systems (ICS)... Total Comfort, Total Control

Tracker™ — Tracker building management panel provides microelectronic control and monitoring. Tracker communicates with Voyager and VariTrac, creating a total Integrated Comfort System.

Tracker software provides scheduling, monitoring and timed override capabilities, as well as local and auto dial-out indication of alarms. Operator interface is simple and user friendly with the use of icons on the keypad and a two-line liquid crystal display (LCD).

VariTrac™ — VariTrac is an electronic control system that provides a thermostat for every comfort zone and the intelligence to control their comfort.

Each thermostat allows the VariTrac air damper to carefully monitor and maintain the temperature of each zone, eliminating varying temperatures throughout a building. By using microelectronic technology, Trane provides cost effective variable air volume comfort to traditional single zone office buildings.

Tracer™ — The Tracer Integrated Comfort System, when coupled with Voyager, provides the ultimate in centralized control, monitoring, energy management and equipment diagnostic functions.

Tracer provides the ability to monitor and control the operation of each rooftop unit and coordinate their operation with other HVAC equipment.

ICS Status Points

(Assuming economizer with comparative enthalpy)

- Unit status
- Cooling and heating setpoint
- Zone temperature
- Supply fan on/off
- Compressor status
- Heat status
- Condenser fan status
- Exhaust fan on/off
- Minimum damper positions (adjustable)
- Current damper position
- Outside air temperature
- Return air temperature
- Supply air temperature
- Relative humidity

ICS Alarm Messages

- Zone temperature sensor failure
- High temperature input open
- Heat failure limit open
- Outdoor air sensor failure
- Supply air sensor failure
- Return air sensor failure
- Humidity sensor failure—both outside and return
- Local cool/heat setpoint failure
- Minimum position potentiometer failure
- Defrost control failure
- Compressor lockout
- Clogged filter
- Supply fan failure



Trane
A business of American Standard Companies
www.trane.com

For more information contact
your local sales office or
e-mail us at comfort@trane.com

Literature Order Number	RT-SLB009-EN
Date	September 2005
Supersedes	RT-SLB009-EN 09-04
Stocking Location	Webb/Mason

Trane has a policy of continuous product and product data improvement and reserves the right to change design and specifications without notice.