

# Voyager™

12½- to 25-ton light commercial packaged units with ReliaTel™ microprocessor controls



# Voyager . . . Designed and built to provide our customers the ultimate in comfort



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

Trane Voyager 12½- to 25-ton units are built to provide not only ultimate indoor comfort, but also comfort in knowing that our packaged units are easy to install and maintain. Voyager units have the highest standards in quality and reliability, ease of service, performance and comfort.

## Quality and reliability

- **Scroll Compressors** — Designed specifically to ensure outstanding system operation
- **Sloped Condensate Drain Pans** — Helps ensure proper drainage to prevent water accumulation and provides an easy to clean surface
- **Drum and Tube Heat Exchanger** — Utilizes aluminized and stainless steel components and industry proven drum and tube technology for maximum durability
- **ReliaTel Micro Controller** — Designed with two thoughts in mind — reliability and comfort
- **Strict Standards in Testing** — All models are subjected to rigorous and widely varied factory testing before being shipped to the job site
- **Microchannel Condenser Coils** — Reduce refrigerant charge, which leads to better compressor reliability. Strong aluminum brazed structure provides better fin protection and minimizes galvanic corrosion

## Indoor air quality

The air we breathe is an important consideration when choosing a system. Properly conditioned indoor air goes beyond quality to encompass health and safety of facility occupants. Voyager is built with superior indoor air quality in mind:

- Dual-sloped drain pan for better drainage and prevention of microbial growth (optional stainless steel)
- Dehumidification/hot gas reheat option
- Foil-faced insulation
- Demand ventilation capability
- Ventilation override sequence (exhaust, purge, pressurization)
- 2-inch MERV 8 or MERV 13 media filters
- Clogged filter switch
- Smoke detectors
- Outside air options

## Superior performance and application flexibility

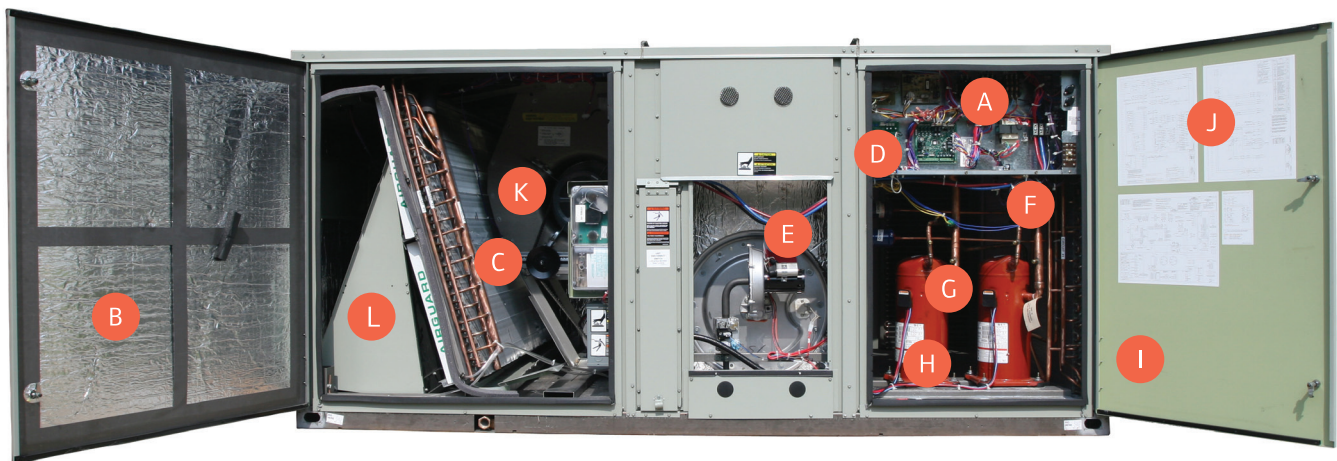
Voyager units are designed to meet the toughest job standards and to handle the most complex applications.

- **High Efficiency Unit** — Electric and Gas Heat models with efficiency ratings up to 12.0 EER and Thermal Expansion Valves available for improved operating performance
- **Factory Installed Options (FIOPs)** — Eliminates time consuming accessory field installation
- **Roof Curbs** — Select from two curbs for the entire Voyager line selection
- **Multiple System Compatibility** — Voyager is compatible with constant volume (CV), variable air volume (VAV), and standalone Integrated Comfort Systems (ICS)

### Factory-installed options

- 2" MERV 8 or MERV 13 filters
- BACnet™ Communications Interface (BCI)
- Barometric relief
- Black epoxy pre-coated coils
- Clogged filter switch
- Complete Coat™ Microchannel condenser coils
- Dehumidification option

- Demand control ventilation (CO<sub>2</sub>)
- Differential pressure switch
- Discharge air sensing kit
- Economizer (comparative enthalpy/dry bulb/reference enthalpy)
- Electric heaters
- Froststat™
- Fan failure switch
- High efficiency motors
- Hinged access doors
- LonTalk® Communications Interface (LCI)
- Modulating gas heat furnace with 5:1 turndown ratio
- Multi-speed fan
- No-var return air sensor
- No-var unit controls
- Oversized motors
- Powered or unpowered convenience outlet
- Single Zone Variable Air Volume (SZ VAV)
- Stainless steel heat exchanger with ten-year warranty
- Supply and/or return air smoke detector
- Thermal expansion valve (TXV)
- Through-the-base electrical
- Through-the-base electrical with circuit breaker or disconnect switch
- Through-the base gas
- Tool-less hail guard
- Trane® Communication Interface (TCI)
- Condensate overflow switch



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|--|--|--|
| <b>A</b> Communications Interface (BCI, LCI, TCI) allows communication with Integrated Comfort™ System (ICS) | <b>E</b> Colored and numbered wiring     | <b>I</b> Hinged access doors                                   |
| <b>B</b> Foil-faced insulation   | <b>F</b> Low ambient cooling to 0°F      | <b>J</b> Single side service                                   |
| <b>C</b> Quick adjust idler pulley   | <b>G</b> High- and low-pressure switches | <b>K</b> Variable frequency drive (Multi-speed fan and SZ VAV) |
| <b>D</b> ReliaTel™ microprocessor controls   | <b>H</b> Scroll compressors              | <b>L</b> Demand control ventilation (CO <sub>2</sub> )         |

# Integrated Comfort Systems



## Integrated Comfort™ Systems (ICS)

**Tracker™ System** — 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.

**VariTrac™ System** — VariTrac is an electronic control system that carefully monitors and maintains the temperature of every comfort zone, eliminating varying temperatures throughout a building.

**Tracer™ System** — The Tracer building automation system (BAS) provides a single, integrated system to control a building's climate, lighting, schedule, energy consumption and much more. Key features include:

- Web-based interface allowing access from any Internet connection
- Scalability to grow and expand with your business
- Open standard protocol support including BACnet™ and LonTalk™
- Simple, easy-to-use operator screens
- Pre-engineered content to deliver energy savings and ease of operation over the life of the system

When added to a Voyager™ unit, it 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
- 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

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