



Voyager™ Light Commercial

*Cooling-only, heat pump,
and gas-fired rooftop units
17-62 kW*





Voyager

The Trane Voyager™ rooftop unit is definitely the economic solution for one or two-storey buildings. It can cover a wide range of light commercial applications such as retail shops, supermarkets, restaurants, and office buildings.

The advantages of a self-contained unit.

Installation is simplified and follows the “Plug and Play” concept. There is no need to connect indoor units to outdoor units. It only requires a calibrated ductwork system. The rooftop is placed on the watertight and airtight flat or slightly sloped roof and the final adjustments are made.

A self-contained unit is versatile. That single unit allows the possibility to produce comfort cooling, heating, bring in an adjustable amount of fresh air, and can even allow you to benefit from free-cooling.



Model YSD/YSH

Global Expertise

Trane has been designing, manufacturing, and commissioning rooftop systems for decades, and has become one of the world leaders. Continuous research and development allow Trane to better meet the needs of the market.

Trust the experts.



Noteworthy Performances

Thanks to its optimized design and its high-performance components, the Trane Voyager™ rooftop unit has a COP (Coefficient of Performance) that is, by far, the highest in its class. Furthermore, the entire Voyager™ range has received Eurovent certification for its performances.

High COP ratings mean immediate and long-term savings in operating costs.

Eurovent certification means the assurance of accurate performance data and common comparison criteria.



Trane Voyager™ rooftops units operate with chlorine-free and ozone layer-friendly R407C refrigerant.

R407C complies with current and upcoming environmental regulations, ensuring a long future for your installation.



ger™



Easy to Install and Service

- Full access to all major components from one side
- Same engineering design for the entire range
- Most options arrive on the jobsite already mounted in the unit
- Standardized components
- Dedicated horizontal or vertical (downflow) airflow configurations. This means no panel removal on the jobsite.*
- Adjustable roofcurbs
- On horizontal versions, the duct connections of return and discharge sections are on the same side, facilitating rooftop positioning against the building.
- Patented condenser coil: easy cleaning (55% faster than an industry-standard coil)**

Saving time on the jobsite leads to saving money on the installation.

Flexibility

- Large choice of factory-mounted options
- Wide range of airflow and static pressure for demanding applications or existing duct network
- Unit can be controlled by an on/off BMS
- Supports standard open LonTalk® protocol and complies to SCC profile.



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Indoor Air Quality

Voyager allows fresh air intake for superior air quality and energy saving purposes. Options range from simple hoods to advanced comparative enthalpy economizers.

- CO2 sensors orders the hood or economizer to bring in fresh air whenever the CO2 and/or Volatile Organic Compounds concentration in the room meets or exceeds the adjustable threshold.
- High efficiency filters
- Fire-resistant aluminium foil-faced insulation on indoor air section panels
- Sloped drain pans to avoid water stagnation (no corrosion or micro-organisms such as mold and fungi)

With Safety in Mind

- Disconnect switch
- An Emergency Stop Terminal allows hook-up to other safety devices such as a fire thermostat or smoke detector.

There is always a Trane Voyager™ rooftop to suit your needs.

Trane Reliability and Quality

Trane Voyager™ rooftops operate with highly-reliable compressors, designed specifically for the light commercial air conditioning market. The fan and idler arm assembly designs have been tested to over 300,000 cycles each. All of Voyager's designs have been rigorously rain tested at the factory to ensure water integrity. We perform a 100% coil leak test at the factory. The evaporator and condenser coils are leak tested at 1.4 MPa and pressure tested to 3.1 MPa. In addition, every unit and its options receive a 100% unit run test before leaving the production line to make sure it lives up to rigorous Trane requirements.

Trane takes quality and reliability testing seriously.

* it is possible to set airflow configuration on the jobsite
** on TSD/TSH, WSD/WSH, YSD/YSH models



Model YKD/YKH





General Data

TSD/TKD - Cooling-only, downflow
TSH/TKH - Cooling-only, horizontal flow

WSD/WKD - Heat pump, downflow
WSH/WKH - Heat pump, horizontal flow

YSD/YKD - Gas-fired, downflow
YSH/YKH - Gas-fired, horizontal flow

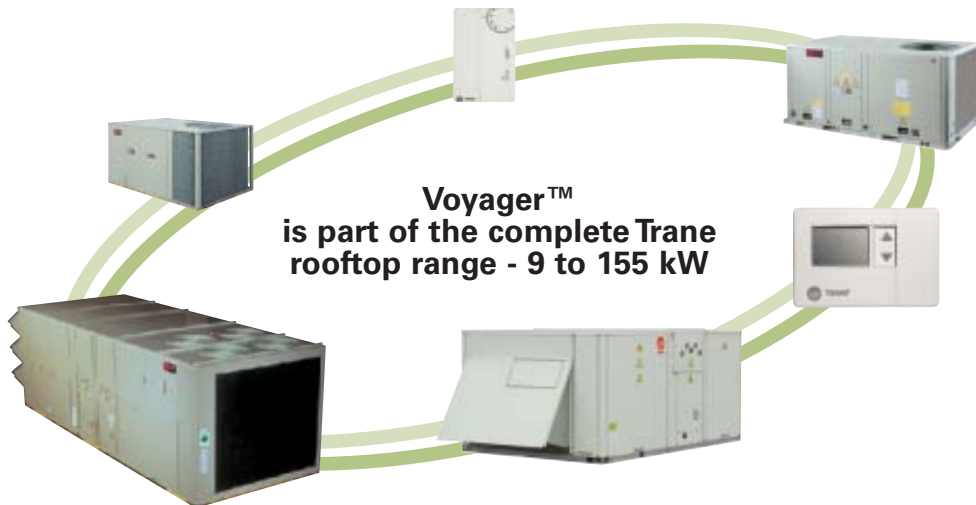
| Unit size | | 060 | 072 | 090 | 102 | 120 | 125 | 155 | 175 | 200 | 250 |
|---|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Cooling capacity (1) | (kW) | 17.3 | 21.8 | 24.9 | 29.6 | 32.6 | 36.3 | 42.4 | 48.2 | 60.2 | 62.0 |
| COP - cooling mode (1) | | 2.81 | 2.80 | 2.66 | 2.76 | 2.65 | 2.90 | 2.93 | 2.73 | 2.72 | 3.00 |
| Heating capacity (2) | (kW) | 16.0 | 20.0 | 24.2 | - | - | 34.4 | 40.7 | - | 59.7 | - |
| COP - heating mode | | 2.93 | 3.23 | 3.21 | - | - | 3.41 | 3.47 | - | 3.40 | - |
| Heating capacity gas (3) | (kW) | 24.6 | 41.3 | 41.3 | 51.9 | 51.9 | - | 69.3 | 69.3 | 69.3 | 69.3 |
| Heating efficiency | (%) | 93 | 93 | 93 | 93 | 93 | - | 90 | 90 | 90 | 90 |
| Electric heater capacity | (kW) | 12.0 | 18.0 | 18.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 37.5 | 37.5 |
| Nominal airflow | (m ³ /h) | 4930 | 8660 | 8830 | 9340 | 9850 | 7140 | 8500 | 9850 | 11210 | 14100 |
| Length (4) | (mm) | 1749 | 2251 | 2251 | 2251 | 2251 | 2726 | 2726 | 2726 | 3107 | 3107 |
| Width (4) | (mm) | 1124 | 1353 | 1353 | 1353 | 1353 | 1811 | 1811 | 1811 | 2167 | 2167 |
| Height (4) | (mm) | 921 | 1038 | 1038 | 1190 | 1190 | 1273 | 1273 | 1273 | 1372 | 1372 |
| Operating weight - cooling-only units (4) | (kg) | 235 | 326 | 389 | 405 | 445 | - | 623 | 660 | 841 | 866 |
| Operating weight - heat pump units (4) | (kg) | 241 | 368 | 378 | - | - | 625 | 642 | - | 871 | - |
| Operating weight - gas-fired units (4) | (kg) | 260 | 350 | 419 | 434 | 481 | - | 698 | 735 | 920 | 946 |

(1) At Eurovent conditions: indoor air temperature at 27°C DB/19°CWB and outdoor air temperature at 35°C

(2) At Eurovent conditions: indoor air temperature at 19°C and outdoor air temperature at 7°C DB/6°CWB

(3) Heating output with G20 gas

(4) For standard unit, without options or accessories



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www.trane.com

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

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Stocking Location Europe

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

American Standard Europe BVBA
Registered Office: 1789 Chaussée de Wavre, 1160 Brussels - Belgium