

Quick Reference Guide

Voyager™ 12.5 to 25 Tons Packaged Rooftop Units Cooling & Gas/Electric

Table 1. Model number description

| | |
|-----|---|
| T*D | Cooling Only (Electric Heat Optional), Downflow |
| T*H | Cooling Only (Electric Heat Optional), Horizontal |
| Y*D | Gas Heat Unit, Downflow |
| Y*H | Gas Heat Unit, Horizontal |

* Standard (S) or High (H) Efficiency

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Table 2. List of factory installed options (FIOPs)^(a)

| | |
|---|--|
| 2" MERV 8 or MERV 13 Pleated Filters w/ Removal Tool | Hinged Access Panels |
| Air-Fi™ Wireless Communication Interface (WCI) | Horizontal Side Access with Circuit Breaker |
| BACnet™ Communication Interface (BCI) | Horizontal Side Access with Disconnect Switch |
| Barometric Relief ^(b) (c) | LonTalk® Communication Interface (LCI) |
| Clogged Filter/Fan Failure Switch ^(d) | Modulating Gas Heat Furnace w/ a 2.5:1 Turndown Ratio ^(d) |
| Complete Coat™ Microchannel Condenser Coil | Motor Shaft Grounding Ring ^(e) |
| Condensate Overflow Switch | Oversized Motors |
| DCV Harness | Powered/Unpowered Convenience Outlet ^(f) |
| Dehumidification | Stainless Steel Drain Pan |
| Delivered VAV ^(d) | Stainless Steel Heat Exchanger |
| Discharge Air Sensing Kit ^(d) | Supply & Return Air Smoke Detectors ^(d) |
| Economizer - Low Leak/Downflow ^(c) | Through the Base Electrical with Circuit Breaker |
| Economizer - Standard/Downflow ^(c) | Through the Base Electrical with Disconnect Switch |
| Electric Heaters | Through the Base Gas Provision |
| Fault Detection & Diagnostics (FDD) | Tool-less Hail Guard |
| Frostat™ ^(d) (g) | Trane® Communication Interface (TCI) ^(h) |
| High Efficiency Motors | Two Speed Fan Provision |
| High Short Circuit Current Rated (SCCR) Electrical Subsystem ⁽ⁱ⁾ | Variable Speed Fan Provision for Single Zone VAV |

- (a) Most Factory Installed Options are available for downflow air discharge units only. Verify with ordering system for availability.
- (b) Requires an Economizer.
- (c) Some field set up required.
- (d) Requires ReliaTel Options Module.
- (e) Available with Two Speed Fan or Variable Speed Fan.
- (f) Must be ordered with Through the Base Electrical option or Horizontal Side Access, and either Unit Mounted Disconnect switch or Circuit Breaker.
- (g) Standard on high efficiency units.
- (h) TCI is for use with non-VariTrac™ systems and VariTrac systems.
- (i) Available on 208V/60 Hz, 230V/60 Hz, and 480V/60 Hz only.

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Table 3. 12½-25 ton packaged rooftop performance data (gas or electric heat)

| Nominal Size (Tons) | Standard Efficiency | | | | | High Efficiency | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 12.5 | 15 | 17.5 | 20 | 25 | 12.5 | 15 | 17.5 | 20 | 25 |
| Cooling Performance | | | | | | | | | | |
| Nominal Airflow CFM / ARI Rated CFM | 5,000/4,000 | 6,000/5,400 | 7,000/6,125 | 8,000/6,400 | 10,000/7,750 | 5,000/4,000 | 6,000/5,250 | 7,000/5,600 | 8,000/6,400 | 10,000/8,000 |
| Tot / Sens Cap (MBh) ^(a) (b) | 150.1/116.0 | 186.1/139.1 | 210.3/165.0 | 258.9/197.3 | 296.4/228.4 | 149.6/113.4 | 181.5/138.0 | 212.7/165.5 | 259.0/192.5 | 295.3/234.2 |
| EER ^(c) | 11 | 11 | 11 | 10.0 | 10.0 | 12.1 | 12.1 | 11.8 | 11.0 | 10.6 |
| IEER (One Speed Fan / Multi or Variable Speed Fan) ^(d) | TS* = 12.4/13.5 YS* = 12.2/13.5 | TS* = 12.4/13.2 YS* = 12.2/13.2 | TS* = 12.4/13.2 YS* = 12.2/13.2 ^(e) | TS* = 11.6/12.4 YS* = 11.4/12.4 | TS* = 11.6/12.4 YS* = 11.4/12.4 ^(e) | 13.5/15.0 | 14.0/15.0 | 13.0/14.0 | 12.4/14.0 | 12.4/15.0 |
| Gas Heating Performance^(f) | | | | | | | | | | |
| Low Heat (Input/output) - (MBh) | 150.0/120.0 | 250.0/200.0 | 250.0/200.0 | 250.0/200.0 | 250.0/200.0 | 150.0/120.0 | 250.0/200.0 | 250.0/200.0 | 250.0/200.0 | 250.0/200.0 |
| Medium Heat (Input/output) - (MBh) | 350.0/280.0 | 350.0/280.0 | 350.0/280.0 | 350.0/280.0 | 350.0/280.0 | 350.0/280.0 | 350.0/280.0 | 350.0/280.0 | 350.0/280.0 | 350.0/280.0 |
| High Heat (Input/output) - (MBh) | 250.0/200.0 | 350.0/280.0 | 350.0/280.0 | 400.0/320.0 | 400.0/320.0 | 250.0/200.0 | 350.0/280.0 | 350.0/280.0 | 400.0/320.0 | 400.0/320.0 |
| Weight | | | | | | | | | | |
| Net Weight (Lbs) - Gas Heat | 1448 | 1838 | 1894 | 1977 | 2020 | 1971 | 2222 | 2186 | 2257 | 2291 |
| Net Weight (Lbs) - Electric Heat | 1373 | 1763 | 1819 | 1902 | 1945 | 1868 | 2076 | 2037 | 2107 | 2108 |
| Roof curb | BAYCURB026B | | | | | BAYCURB027B | | | | |
| Unit Cabinet Size | B | | C | | | C+ | | | | |
| Filters^(g) - Type Furnished | | | | | | | | | | |
| Downflow - Number & Size Recommended | Throwaway (2) 20x20x2 (4) 20x25x2 | Throwaway (4) 20x20x2 (4) 20x25x2 | Throwaway (4) 20x20x2 (4) 20x25x2 | Throwaway (4) 20x20x2 (4) 20x25x2 | Throwaway (4) 20x20x2 (4) 20x25x2 | Throwaway (4) 20x20x2 (4) 20x25x2 | Throwaway (8) 20x20x2 (4) 20x16x2 | Throwaway (8) 20x20x2 (4) 20x16x2 | Throwaway (8) 20x20x2 (4) 20x16x2 | Throwaway (8) 20x20x2 (4) 20x16x2 |
| Horizontal - Number & Size Recommended | (2) 20x20x2 (4) 20x25x2 | (8) 20x25x2 | (8) 20x25x2 | (8) 20x25x2 | (8) 20x25x2 | (8) 20x25x2 | (12) 20x20x2 | (12) 20x20x2 | (12) 20x20x2 | (12) 20x20x2 |

- (a) Cooling performance is rated at 80/67/95 & 400 cfm/ton.
- (b) Short orifice metering device.
- (c) EER is rated at ARI conditions and in accordance with ARI standard 210/240 or 340/360.
- (d) Integrated Energy Efficiency Ratio (IEER) is rated in accordance with AHRI standard 210/240 or 340/360.
- (e) T/YS*211 = 11.8/12.9. T/YS*301 = 10.4/12.0
- (f) Verify option availability in product data catalog.
- (g) Optional 2" MERV 8 and MERV 13 filters also available.

Table 4. Unit MCA & MOP electrical data (standard indoor fan motor)

| T/YH* | Volts | MCA | MOP |
|----------------|-----------|-----|-----|
| 150 | 208-230/3 | 61 | 80 |
| | 460/3 | 29 | 40 |
| | 575/3 | 22 | 30 |
| | 380/3 | 36 | 45 |
| 180 | 208-230/3 | 69 | 90 |
| | 460/3 | 34 | 45 |
| | 575/3 | 31 | 40 |
| | 380/3 | 45 | 60 |
| 210/211 | 208-230/3 | 77 | 100 |
| | 460/3 | 37 | 50 |
| | 575/3 | 34 | 45 |
| | 380/3 | 52 | 70 |
| 240 | 208-230/3 | 105 | 125 |
| | 460/3 | 50 | 70 |
| | 575/3 | 43 | 60 |
| | 380/3 | 60 | 80 |
| 300/301 | 208-230/3 | 112 | 150 |
| | 460/3 | 53 | 70 |
| | 575/3 | 45 | 60 |
| | 380/3 | 69 | 90 |

| T/YH* | Volts | MCA | MOP |
|------------|-----------|-----|-----|
| 150 | 208-230/3 | 64 | 90 |
| | 460/3 | 30 | 40 |
| | 575/3 | 23 | 30 |
| 180 | 208-230/3 | 68 | 90 |
| | 460/3 | 33 | 45 |
| | 575/3 | 25 | 35 |
| 210 | 208-230/3 | 83 | 110 |
| | 460/3 | 41 | 50 |
| | 575/3 | 33 | 45 |
| 240 | 208-230/3 | 96 | 125 |
| | 460/3 | 44 | 60 |
| | 575/3 | 38 | 50 |
| 300 | 208-230/3 | 117 | 150 |
| | 460/3 | 54 | 70 |
| | 575/3 | 44 | 50 |

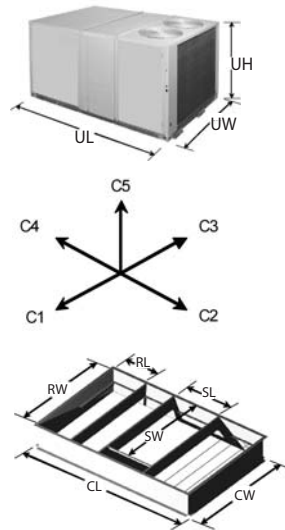
Table 5. Unit indoor fan data

| T/YH* | Volts | Standard HP - RPM | Oversized HP - RPM |
|----------------|-----------|-------------------|--------------------|
| 150 | 208-230/3 | 3 - 1740 | 5 - 3450 |
| | 460/3 | | |
| | 575/3 | | |
| 180 | 208-230/3 | 3 - 1740 | 5 - 3450 |
| | 460/3 | | |
| | 575/3 | | |
| 210/211 | 208-230/3 | 5 - 3450 | N/A |
| | 460/3 | | |
| | 575/3 | | |
| 240 | 208-230/3 | 5 - 3450 | 7.5 - 3470 |
| | 460/3 | | |
| | 575/3 | | |
| 300/301 | 208-230/3 | 7.5 - 3470 | N/A |
| | 460/3 | | |
| | 575/3 | | |

| T/YH* | Volts | Standard HP - RPM | Oversized HP - RPM |
|------------|-----------|-------------------|--------------------|
| 150 | 208-230/3 | 3 - 1740 | 5 - 3450 |
| | 460/3 | | |
| | 575/3 | | |
| 180 | 208-230/3 | 3 - 1740 | 5 - 3450 |
| | 460/3 | | |
| | 575/3 | | |
| 210 | 208-230/3 | 5 - 3450 | 7.5 - 3470 |
| | 460/3 | | |
| | 575/3 | | |
| 240 | 208-230/3 | 5 - 3450 | 7.5 - 3470 |
| | 460/3 | | |
| | 575/3 | | |
| 300 | 208-230/3 | 7.5 - 3470 | N/A |
| | 460/3 | | |
| | 575/3 | | |

Table 6. Unit dimensional data

| | B | C | C+ |
|---------------------------------------|-----------|----------|----------|
| Unit Length UL | 106 11/16 | 122 5/16 | 122 5/16 |
| Unit Width UW | 70 13/16 | 84 3/16 | 84 3/16 |
| Unit Height UH | 52 1/4 | 56 1/8 | 66 1/4 |
| Clearance C1 | 60 | 60 | 60 |
| Clearance C2 | 48 | 48 | 48 |
| Clearance C3 | 36 1/8 | 36 1/8 | 36 1/8 |
| Clearance C4 | 38 | 38 | 38 |
| Clearance C5 | 72 | 72 | 72 |
| Curb Length CL | 102 1/2 | 116 7/8 | 116 7/8 |
| Curb Width CW | 67 | 81 | 81 |
| Supply Length SL^(a) | 28 1/2 | 28 9/16 | 28 9/16 |
| Supply Width SW^(a) | 55 1/2 | 69 1/2 | 69 1/2 |
| Return Length RL^(a) | 20 7/8 | 22 1/4 | 22 1/4 |
| Return Width RW^(a) | 63 | 77 | 77 |



(a) Dimensions are for curb openings and not duct inserts. Reference the product catalog for duct insert dimensions.



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