

# Quick Reference Guide

## Voyager™ 12½-25 Ton 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)<sup>(a)</sup>**

2" MERV 8 or MERV 13 Pleated Filters w/ Removal Tool	Horizontal Side Access with Disconnect Switch
BACnet™ Communication Interface (BCI)	LonTalk® Communication Interface (LCI)
Barometric Relief <sup>(b)</sup> (c)	Modulating Gas Heat Furnace w/ a 2.5:1 Turndown Ratio <sup>(d)</sup>
Clogged Filter/Fan Failure Switch <sup>(d)</sup>	Motor Shaft Grounding Ring <sup>(e)</sup>
Complete Coat™ Microchannel Condenser Coil	NOVAR Return Air Sensor
Condensate Overflow Switch	NOVAR Unit Controls (3051 and 2024)
DCV Harness	Oversized Motors
Dehumidification	Powered/Unpowered Convenience Outlet <sup>(f)</sup>
Delivered VAV <sup>(d)</sup>	Stainless Steel Drain Pan
Discharge Air Sensing Kit <sup>(d)</sup>	Stainless Steel Heat Exchanger
Economizer - Low Leak/Downflow <sup>(c)</sup>	Supply & Return Air Smoke Detectors <sup>(d)</sup>
Economizer - Standard/Downflow (c)	Through the Base Electrical with Circuit Breaker
Electric Heaters	Through the Base Electrical with Disconnect Switch
Fault Detection & Diagnostics (FDD)	Through the Base Gas Provision
Frostat™ <sup>(d)</sup> (g)	Tool-less Hail Guard
High Efficiency Motors	Trane® Communication Interface (TCI) <sup>(h)</sup>
High Short Circuit Current Rated (SCCR) Electrical Subsystem <sup>(i)</sup>	Two Speed Fan Provision
Hinged Access Panels	Variable Speed Fan Provision for Single Zone VAV
Horizontal Side Access with Circuit Breaker	

(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 208 V/60 Hz, 230 V/60 Hz, and 480 V/60 Hz only.

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

Nominal Size (Ton)	Standard Efficiency					High Efficiency				
	12.5	15	17.5	20	25	12.5	15	17.5	20	25
<b>Cooling Performance</b>										
Nominal Airflow CFM / ARI Rated CFM	5,000/4,400	6,000/5,300	7,000/6,125	8,000/7,000	10,000/8,000	5,000/4,000	6,000/5,250	7,000/5,600	8,000/6,400	10,000/8,000
Tot / Sens Cap (MBh) <sup>(a)</sup> (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 <sup>(c)</sup>	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) <sup>(d)</sup>	12.2/13.5	12.2/13.2	11.8/12.9	11.5/12.3	10.4/12.0	13.5/15.0	14.0/15.0	13.0/14.0	12.4/14.0	12.4/15.0
<b>Gas Heating Performance<sup>(e)</sup></b>										
Low Heat (Input/output) - (MBh)	150.0/122.0	250.0/203.0	250.0/203.0	250.0/203.0	250.0/203.0	150.0/122.0	250.0/203.0	250.0/203.0	250.0/203.0	250.0/203.0
Medium Heat (Input/output) - (MBh)	350.0/283.5	350.0/283.5	350.0/283.5	350.0/283.5	350.0/283.5	350.0/283.5	350.0/283.5	350.0/283.5	350.0/283.5	350.0/283.5
High Heat (Input/output) - (MBh)	250.0/203.0	350.0/284.0	350.0/284.0	400.0/324.0	400.0/324.0	250.0/203.0	350.0/284.0	350.0/284.0	400.0/324.0	400.0/324.0
<b>Other Information</b>										
Net Weight (Lbs) - Gas Heat	1508	1925	2007	2069	2054	2207	2176	2140	2211	2245
Net Weight (Lbs) - Electric Heat	1413	1822	1863	1925	1878	2062	2030	1991	2061	2062
Roofcurb	BAYCURB026B					BAYCURB027B				
Unit Cabinet Size	B		C			C+				
Filters <sup>(f)</sup> - Type Furnished	Throwaway	Throwaway	Throwaway	Throwaway	Throwaway	Throwaway	Throwaway	Throwaway	Throwaway	Throwaway
Number Size Recommended	(2) 20x20x2	(4) 20x20x2	(4) 20x20x2	(4) 20x20x2	(4) 20x20x2	(4) 20x20x2	(8) 20x20x2	(8) 20x20x2	(8) 20x20x2	(8) 20x20x2
Downflow	(4) 20x25x2	(4) 20x25x2	(4) 20x25x2	(4) 20x25x2	(4) 20x25x2	(4) 20x25x2	(4) 20x16x2	(4) 20x16x2	(4) 20x16x2	(4) 20x16x2
Horizontal	(2) 20x20x2	(8) 20x25x2	(8) 20x25x2	(8) 20x25x2	(8) 20x25x2	(8) 20x25x2	(12) 20x20x2	(12) 20x20x2	(12) 20x20x2	(12) 20x20x2
	(4) 20x25x2									

(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) Verify option availability in product data catalog.

(f) Optional 2" MERV 8 and MERV 13 filters also available.

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

T/Y/S*	Volts	MCA	MOP	T/YH*	Volts	MCA	MOP
150	208-230/3	64	80	150	208-230/3	65	90
	460/3	31	40		460/3	30	40
	575/3	23	30		575/3	24	30
	380/3	37	45		180	208-230/3	68
180	208-230/3	75	100	460/3		33	45
	460/3	38	50	575/3		26	35
	575/3	31	40	210	208-230/3	86	110
210	208-230/3	93	125		460/3	43	60
	460/3	44	60		575/3	33	45
	575/3	35	50	240	208-230/3	99	125
240	208-230/3	108	125		460/3	46	60
	460/3	52	70		575/3	38	50
	575/3	44	60	300	208-230/3	121	150
300	208-230/3	124	150		460/3	57	70
	460/3	59	70		575/3	44	50
	575/3	48	60				
	380/3	71	90				

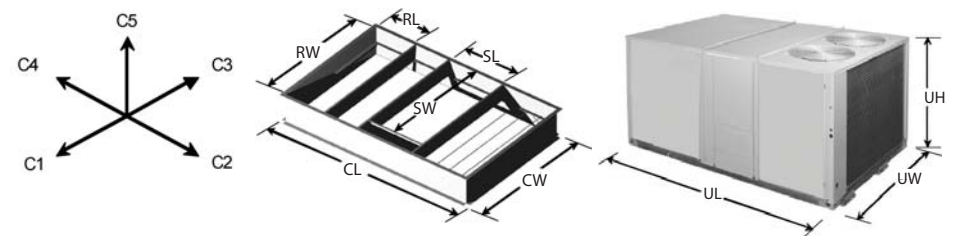
**Table 5. Unit indoor fan data**

T/Y/S*	Volts	Standard HP - RPM	Oversize HP - RPM	T/YH*	Volts	Standard HP - RPM	Oversize HP - RPM
150	208-230/3	3 - 1740	5 - 3450	150	208-230/3	3 - 1740	5 - 3450
	460/3						
	575/3						
	380/3				5 - 3450		
180	208-230/3	3 - 1740	5 - 3450	180	208-230/3	3 - 1740	5 - 3450
	460/3						
	575/3						
	380/3				5 - 3450		
210	208-230/3	5 - 3450	7.5 - 3470	210	208-230/3	5 - 3450	7.5 - 3470
	460/3						
	575/3						
	380/3				7.5 - 3470		
240	208-230/3	5 - 3450	7.5 - 3470	240	208-230/3	5 - 3450	7.5 - 3470
	460/3						
	575/3						
	380/3				7.5 - 3470		
300	208-230/3	7.5 - 3470	N/A	300	208-230/3	7.5 - 3470	N/A
	460/3						
	575/3						
	380/3						

**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	50 1/8	54	64 1/8
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 <sup>(a)</sup>	28 1/2	28 9/16	28 9/16
Supply Width SW <sup>(a)</sup>	55 1/2	69 1/2	69 1/2
Return Length RL <sup>(a)</sup>	20 7/8	22 1/4	22 1/4
Return Width RW <sup>(a)</sup>	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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