

Quick Reference Guide

Voyager™

12.5 to 20 Tons Packaged Rooftop Units Heat Pumps

WSD Heat Pump, Downflow
WSH Heat Pump, Horizontal

April 2020

RT-PRC052H-EN

© 2020

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Table 2. 12.5-20 tons packaged rooftop performance data (heat pump)

Nominal Size (Tons)	Standard Efficiency		
	12.5	15	20
Cooling Performance			
Supply Air (cfm) ^(a)	5,000	5,300	6,400
Tot / Sens Cap (MBh)	153.1/107.3	186.2/138.9	267.8/189.7
EER ^(b)	10.6	10.6	9.7
IEER (One Speed Fan / Two or Variable Speed Fan) ^(c)	12.0/13.5	12.0/13.5	11.5/12.0
Heating Performance			
High Temperature Btuh Rating	136,000	170,000	210,000
COP	3.2	3.2	3.2
Low Temperature Btuh Rating	75,000	90,000	120,000
COP	2.1	2.1	2.1
Other information			
Net Weight (Lbs)	2024	2028	2198
Roofcurb	BAYCURB027B		
Unit Cabinet Size	C		C+
Filters ^(d) - Type Furnished	Throwaway	Throwaway	Throwaway
Number Size Recommended	(4) 20x20x2	(4) 20x20x2	(8) 20x20x2
Downflow	(4) 20x25x2	(4) 20x25x2	(4) 20x16x2
Horizontal	(8) 20x25x2	(8) 20x25x2	(12) 20x20x2

(a) ARI rated airflow.

(b) EER is rated at ARI conditions and in accordance with DOE test procedures.

(c) Integrated Energy Efficiency Ratio (IEER) is rated in accordance with AHRI standard 210/240 or 360.

(d) Optional 2-inch MERV 8 and MERV 13 filters also available.

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Table 1. List of factory installed options (FIOPs)^(a)

2-in MERV 8 or MERV 13 Pleated Filters w/ Filter 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)
Black Epoxy Pre-Coated Coil	Motor Shaft Grounding Ring ^(d)
Clogged Filter/Fan Failure Switch ^(e)	Oversized Motors
Condensate Overflow Switch	Powered or Unpowered Convenience Outlet ^(f)
DCV Harness	Stainless Steel Drain Pan
Discharge Air Sensing Kit ^(e)	Supply and Return Air Smoke Detectors ^(e)
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	Tool-less Hail Guard
Frost™ ^(e)	Trane® Communication Interface (TCI) ^(g)
High Efficiency Motors	Two Speed Fan Provision
High Short Circuit Current Rated (SCCR) Electrical Subsystem	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) Available with Two Speed Fan or Variable Speed Fan.

(e) Requires ReliaTel™ Options Module.

(f) Must be ordered with Through the Base Electrical option or Horizontal Side Access, and either Unit Mounted Disconnect switch or Circuit Breaker.

(g) TCI is for use with non-VariTrac™ systems and VariTrac™ systems.

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Table 3. 12.5-20 tons unit indoor fan data (heat pump)

WS*	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		
240	208-230/3	5 - 3450	7.5 - 3470
	460/3		
	575/3		

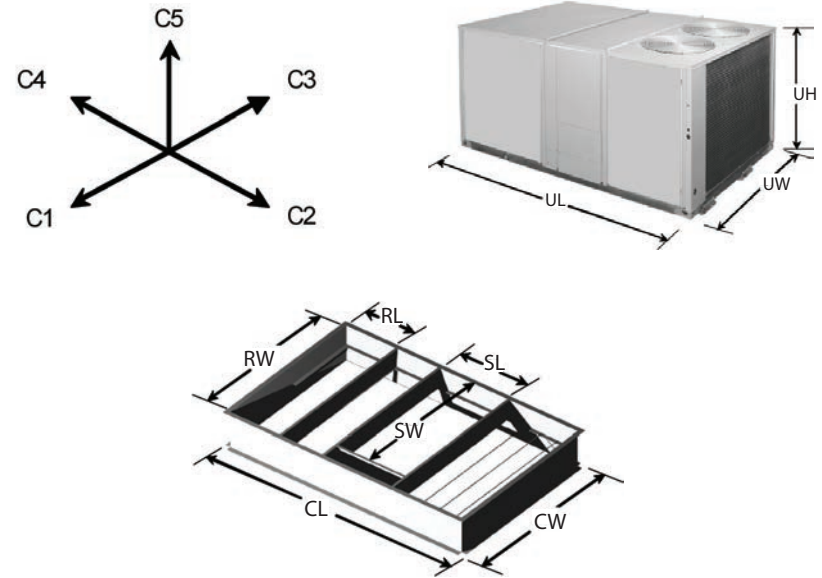
Table 4. Unit MCA and MOP electrical data (standard indoor fan motor)

WS*	Volts	MCA	MOP
150	208-230/3	67	80
	460/3	32	40
	575/3	26	30
180	208-230/3	73	90
	460/3	36	45
	575/3	29	35
240	208-230/3	113	150
	460/3	53	70
	575/3	45	50

Table 5. Unit dimensional data

Cabinet Size	C	C+
Unit Length UL	122-5/16	122-5/16
Unit Width UW	84-3/16	84-3/16
Unit Height UH	56-1/8	66-1/4
Clearance C1	60	60
Clearance C2	48	48
Clearance C3	36-1/8	36-1/8
Clearance C4	38	38
Clearance C5	72	72
Curb Length CL	116-7/8	116-7/8
Curb Width CW	81	81
Supply Length SL ^(a)	28-9/16	28-9/16
Supply Width SW ^(a)	69-1/2	69-1/2
Return Length RL ^(a)	22-1/4	22-1/4
Return Width RW ^(a)	77	77

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



Trane and American Standard create comfortable, energy efficient indoor environments for commercial and residential applications. For more information, please visit trane.com or americanstandardair.com.

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