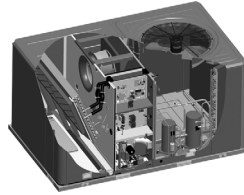


## Quick Reference Guide

# Precedent™ - High Efficiency

Cooling, Gas/Electric

3 to 5 Tons 17 Plus Packaged Rooftop Units



### Model Number: Used With:

THC\*\*7 High Efficiency Cooling Only (Electric Heat Optional)  
YHC\*\*7 High Efficiency Gas Heat Unit

December 2022

**RT-PRC050L-EN**

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**Table 1. List of factory installed options<sup>(a)</sup> (continued)**

CompleteCoat™ (microchannel condenser coil)	Multi-speed indoor fan system
Crankcase heater	Powered convenience outlet
Dehumidification	ReliaTel™ controls
Demand control ventilation wiring	Single zone variable air volume (SZVAV)
Discharge air temperature sensing kit	Stainless steel drain pan
Economizer - comparative enthalpy	Stainless steel heat exchanger
Economizer - dry bulb	Supply, return, and plenum air smoke detectors
Economizer - low leak, dry bulb	Through-the-base electric provision
Economizer - reference enthalpy	Through-the-base gas provision
Fan failure switch	Unit mounted circuit breaker
Fault detection & diagnostics (FDD); Meets CA Title 24 requirements	Unit mounted non-fused disconnect
Frostat™	Unpowered convenience outlet
Multiple zone VAV (variable air volume)	

(a) Verify option availability in product catalog.

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## Revision History

- Updated the high efficiency, 17 Plus, 3 to 5 ton packaged rooftop performance data (gas or electric heat) table.
- Updated List of factory installed options table.

**Table 1. List of factory installed options<sup>(a)</sup>**

0-50% Motorized outside air damper	Hail guard
Air-Fi® Wireless Communication Interface	Hinged access panels
BACnet® Communication Interface (BCI-R)	Ultra low NOx gas furnace
Barometric relief	Human interface - 5 inch color touchscreen
Belt drive motor	LonTalk® Communication Interface (LCI)
Black epoxy pre-coated condenser coil	Manual outside air damper
Clogged filter switch	MERV 8 filters
Condensate overflow switch	MERV 13 filters

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**Table 2. High efficiency, 17 Plus, 3 to 5 ton packaged rooftop performance data (gas or electric heat)**

Nominal Size (Tons)	3	4	5
<b>Cooling Performance</b>			
High Stage Supply Air (cfm) <sup>(a)</sup>	1,200	1,600	2,000
Low Stage Supply Air (cfm) <sup>(a)</sup>	840	1,120	1,400
Tot /Sens Cap (MBh) <sup>(b),(c)</sup>	36.2/26.9	50.0/36.8	60.0/45.3
SEER/EER	17.5	17.5	17.2
SEER2/EER2 <sup>(d)</sup>	15.9/12.5	16.1/12.5	16.1/12.5
IEER	N/A	N/A	N/A
<b>Gas Heating Performance<sup>(e)</sup></b>			
Low Heat (Input/output) - (MBh)	60.0/48.0	60.0/49.0	60.0/49.0
Medium Heat (Input/output) - (MBh)	80.0/64.0	80.0/64.0	80.0/64.0
High Heat (Input/output) - (MBh)	100.0/80.0	120.0/96.0	130.0/104.0
Low Heat (Input/output) if Digit 34 = A for ULN option	60.0/48.6	60.0/48.6	60.0/48.6
Medium Heat (Input/output) if Digit 34 = A for ULN option	NA	90.0/72.9	90.0/72.9
High Heat (Input/output) if Digit 34 = A for ULN option	NA	NA	NA
<b>Other Information</b>			
Net Weight (Lbs) - Gas Heat	606	763	822

**Table 2. High efficiency, 17 Plus, 3 to 5 ton packaged rooftop performance data (gas or electric heat) (continued)**

Nominal Size (Tons)	3	4	5
Net Weight (Lbs) - Electric Heat	544	692	746
Roof Curb	BAYCURB042A	BAYCURB043A	
Unit Cabinet Size	B	C	
Filters <sup>(e)</sup> - Type Furnished	Throwaway	Throwaway	Throwaway
Number Size Recommended	(2) 20x30x2	(2) 16x25x2	(2) 16x25x2

- (a) Nominal cfm.  
 (b) Cooling performance is rated at 80/67/95.  
 (c) All units listed utilize 3-phase voltage.  
 (d) EER2 and SEER2 are rated at AHRI conditions and calculated in accordance with AHRI Standard 210/240-2023. Airflow and net cooling capacity not shown.  
 (e) Optional 2-inch MERV 8 and MERV 13 filters also available.

**Table 3. Unit MCA and MOP electrical data (standard indoor fan motor) (gas or cooling)<sup>(a)</sup>**

T/YHC	Volts	MCA	MOP
037	208-230/3	24	30
037	460/3	12	15
037	575/3	9	15
047	208-230/3	30	40

**Table 4. Unit indoor fan data (gas or electric heat) (continued)**

T/YHC	Volts	Standard HP - RPM	Oversize HP - RPM
067	575/3 <sup>(a)(b)</sup>	1 - VARIABLE	—

- (a) Direct drive motor.  
 (b) 575V rated units utilize a high efficiency 230 evaporator fan motor powered through a 575/230V transformer. Motor voltage/FLA rated at transformer input.

**Table 5. Unit Dimensional data**

	B	C
Unit Length UL	69 7/8	88 5/8
Unit Width UW	44 1/4	53 1/4
Unit Height UH	36 1/4	40 7/8
Clearance C1	48	48
Clearance C2	36	36
Clearance C3	36	36
Clearance C4	36	36
Clearance C5	72	72
Curb Length CL	65 13/16	84 1/2
Curb Width CW	41 7/16	50 3/8
Supply Length SL <sup>(a)</sup>	16 3/4	18 1/2
Supply Width SW <sup>(a)</sup>	17 7/8	34 3/8

**Table 3. Unit MCA and MOP electrical data (standard indoor fan motor) (gas or cooling)<sup>(a)</sup> (continued)**

T/YHC	Volts	MCA	MOP
047	460/3	14	20
047	575/3	11	15
067	208-230/3	33	45
067	460/3	16	20
067	575/3	12	15

(a) For MCA/MOP of units with electric heat, refer to product catalog.

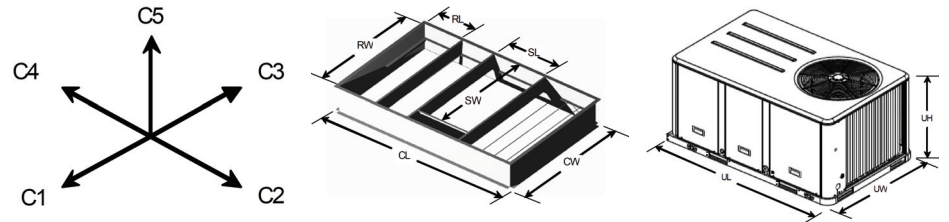
**Table 4. Unit indoor fan data (gas or electric heat)**

T/YHC	Volts	Standard HP - RPM	Oversize HP - RPM
037	208-230/3 <sup>(a)</sup>	3/4 - VARIABLE	—
037	460/3 <sup>(a)</sup>	3/4 - VARIABLE	—
037	575/3 <sup>(a)(b)</sup>	3/4 - VARIABLE	—
047	208-230/3 <sup>(a)</sup>	1 - VARIABLE	—
047	460/3 <sup>(a)</sup>	1 - VARIABLE	—
047	575/3 <sup>(a)(b)</sup>	1 - VARIABLE	—
067	208-230/3 <sup>(a)</sup>	1 - VARIABLE	—
067	460/3 <sup>(a)</sup>	1 - VARIABLE	—

**Table 5. Unit Dimensional data (continued)**

	B	C
Return Length RL <sup>(a)</sup>	14 9/16	18 1/4
Return Width RW <sup>(a)</sup>	25 3/16	34 3/8

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



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