

## Quick Reference Guide

# Precedent™ - High Efficiency Cooling, Gas/Electric 3 to 10 Tons Packaged Rooftop Units



### Model Number: Used With:

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

March 2020

RT-PRC074E-EN

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

0-50% Motorized outside air damper	LonTalk® Communication Interface (LCI)
Air-Fi® Wireless Communication Interface	Manual outside air damper
BACnet® Communication Interface (BCI-R)	MERV 8 filters
Barometric relief	MERV 13 filters
Belt drive motor	Multiple zone VAV (variable air volume)
Clogged filter switch	Multi-speed indoor fan system
CompleteCoat™ (microchannel condenser coil)	NOVAR 2024 controls
Condensate overflow switch	NOVAR 3051 controls without zone sensor
Dehumidification	NOVAR 3051 zone sensor
Demand control ventilation wiring	NOVAR return air sensor
Discharge air temperature sensing kit	Powered convenience outlet
Economizer - comparative enthalpy	ReliaTel™ controls
Economizer - dry bulb	Stainless steel drain pan
Economizer - low leak, dry bulb	Stainless steel heat exchanger
Economizer - reference enthalpy	Supply, return, and plenum air smoke detectors
Fan failure switch	Through-the-base electric provision
Fault detection & diagnostics (FDD): Meets CA Title 24 requirements	Through-the-base gas provision
Frostat™	Unit mounted circuit breaker
Hail guard	Unit mounted non-fused disconnect
Hinged access panels	Unpowered convenience outlet
Human interface - 5 inch color touchscreen	

(a) Verify option availability in product catalog.

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**Table 2. High efficiency, 3 to 10 ton packaged rooftop performance data (cooling or gas)**

Nominal Size (Tons)	3	4	5	6	6 Dual Compressors	7.5 Dual Compressors	8.5	10
<b>Cooling Performance</b>								
Supply Air (cfm) <sup>(a)</sup>	1,200	1,600	2,000	2,400	2,400	3,000	3,400	4,000
Tot / Sens Cap (MBh) <sup>(b),(c)</sup>	37.6/27.9	49.9/37.0	61.0/45.4	72/53	73.6/58.7	92/63.3	104/82	116/87
SEER/EER	15.0	15.0	15.0	12.6	13.1	12.6	12.5	12.4
IEER <sup>(d)</sup>	N/A	N/A	N/A	14.5	15.5	14.5	14.7	14.7
<b>Gas Heating Performance<sup>(d)</sup></b>								
Low Heat (Input/output) - (MBh)	60.0/48.0	60.0/49.0	60.0/49.0	80/64	150.0/121.5	120/96	120/96	150/120
Medium Heat (Input/output) - (MBh)	80.0/64.0	80.0/64.0	80.0/64.0	120/96	120.0/97.2	150/120	150/120	200/160
High Heat (Input/output) - (MBh)	120.0/96.0	120.0/97.2	130.0/104.0	150/120	80.0/64.8	200/160	200/160	250/200
<b>Other Information</b>								
Net Weight (Lbs) - Gas Heat	532	711	755	822	1016	1026	1035	1259
Net Weight (Lbs) - Electric Heat	480	642	679	740	918	928	937	1132
Roof Curb	BAYCURB042*		BAYCURB043*				BAYCURB044*	
Unit Cabinet Size	B		C		D		E <sup>(e)</sup>	
Filters <sup>(f)</sup> - Type Furnished	Throwaway	Throwaway	Throwaway	Throwaway	Throwaway	Throwaway	Throwaway	Throwaway
Number Size Recommended	(2) 20x30x2	(2) 16x25x2	(4) 16x25x2	(4) 20x25x2	(4) 20x25x2	(4) 20x25x2	(4) 20x25x2	(3) 20x25x2 (2) 20x30x2

(a) Nominal cfm

(b) Cooling performance is rated at 80/67/95

(c) All units listed utilize 3-phase voltage

(d) SZVAV and multi-speed indoor fan system IEER 6T Dual - 16.0, 7.5T - 15.0, 8.5T - 15.5, 10T - 15.2. Two-stage gas heat standard on 6 ton dual compressor and above.

(e) BAYCURB044E available for 10 ton high efficiency only

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

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

T/YHC	Volts	MCA	MOP
036	208-230/1	28.3	45
036	208-230/3	21.0	30
036	460/3	12.0	15
036	575/3	10.0	15
048	208-230/1	37.3	50
048	208-230/3	26.0	35
048	460/3	13.0	15
048	575/3	11.0	15
060	208-230/1	41.4	60
060	208-230/3	30.0	45
060	460/3	14.0	20
060	575/3	11.0	15
072	208-230/3	31.0	45
072	460/3	15.0	20
072	575/3	13.0	15
074	208-230/3	37.0	50
074	460/3	18.0	20
092	208-230/3	42.0	50
092	460/3	20.0	25
092	575/3	21.0	25
102	208-230/3	41.0	50
102	460/3	21.0	25
102	575/3	22.0	25
120	208-230/3	48.0	60
120	460/3	22.0	25
120	575/3	22.0	25

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

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

T/YHC	Volts	Standard - HP - RPM	Override - HP - RPM
036	208-230/1 <sup>(a)</sup>	3/4 - MULT	—
036	208-230/3	1 - FIXED	—
036	460/1 <sup>(a)</sup>	3/4 - MULT	—
036	460/3	1 - FIXED	—
036	575/1 <sup>(a)(b)</sup>	3/4 - MULT	—
036	575/3	1 - FIXED	—
048	208-230/1 <sup>(a)</sup>	3/4 - MULT	—
048	208-230/3	1 - FIXED	—
048	460/1 <sup>(a)</sup>	3/4 - MULT	—
048	460/3	1 - FIXED	—
048	575/1 <sup>(a)(b)</sup>	3/4 - MULT	—
048	575/3	1 - FIXED	—
060	208-230/1 <sup>(a)</sup>	3/4 - MULT	—
060	208-230/3	1 - FIXED	—
060	460/1 <sup>(a)</sup>	3/4 - MULT	—
060	460/3	1 - FIXED	—
060	575/1 <sup>(a)(b)</sup>	3/4 - MULT	—
060	575/3	1 - FIXED	—
072	208-230/3	1 - 1725	2.0 - 1725
072	460/3	1 - 1725	2.0 - 1725
072	575/3	1.5 - 1725	2.0 - 1725
074	208-230/3	2.75 - MULT	—
074	460	2.75 - MULT	—
092	208-230/3 <sup>(a)</sup>	2.75 - MULT	—
092	460/3 <sup>(a)</sup>	2.75 - MULT	—
092	575/3 <sup>(a)(c)</sup>	2.75 - MULT	—
102	208-230/3 <sup>(a)</sup>	2.75 - MULT	—

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

T/YHC	Volts	Standard - HP - RPM	Override - HP - RPM
102	460/3 <sup>(a)</sup>	2.75 - MULT	—
102	575/3 <sup>(a)(c)</sup>	2.75 - MULT	—
120	208-230/3 <sup>(a)</sup>	2.75 - MULT	—
120	460/3 <sup>(a)</sup>	2.75 - MULT	—
120	575/3 <sup>(a)(c)</sup>	2.75 - MULT	—

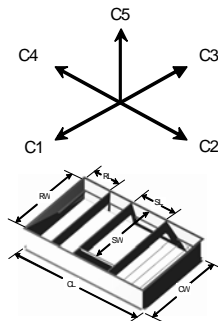
(a) Direct drive motor

(b) Powered through 575/230V transformer

(c) Powered through 575/480V transformer

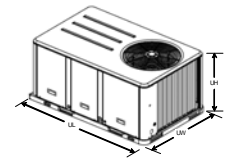
**Table 5. Unit dimensional data**

	B	C	D	E
<b>Unit Length UL</b>	69 7/8	88 5/8	88 5/8	99 11/16
<b>Unit Width UW</b>	44 1/4	53 1/4	53 1/4	63 3/16
<b>Unit Height UH</b>	36 1/4	40 7/8	46 7/8	50 7/8
<b>Clearance C1</b>	48	48	48	48
<b>Clearance C2</b>	36	36	36	36
<b>Clearance C3</b>	36	36	36	36
<b>Clearance C4</b>	36	36	36	36
<b>Clearance C5</b>	72	72	72	72
<b>Curb Length CL</b>	65 13/16	84 1/2	84 1/2	84 1/2
<b>Curb Width CW</b>	41 7/16	50 3/8	50 3/8	60 3/8
<b>Supply Length SL<sup>(a)</sup></b>	16 3/4	18 1/2	18 1/2	18 1/2
<b>Supply Width SW<sup>(a)</sup></b>	17 7/8	34 3/8	34 3/8	34 3/8
<b>Return Length RL<sup>(a)</sup></b>	14 9/16	18 1/4	18 1/4	18 1/4

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

	B	C	D	E
<b>Return Width RW<sup>(a)</sup></b>	25 3/16	34 3/8	34 3/8	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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