

Quick Reference Guide

Precedent™ - Dual Fuel

3 to 10 Tons Packaged Heat Pumps



Model Number: DHC
Used With: Dual Fuel Heat Pumps

March 2020

RT-PRC087C-EN

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

0-50% Motorized outside air damper	Human interface - 5 inch color touchscreen
Air-Fi® Wireless Communication Interface	LonTalk® Communication Interface (LCI)
BACnet® Communication Interface (BCI-R)	Manual outside air damper
Barometric relief	MERV 8 filters
Black epoxy pre-coated condenser coil	MERV 13 filters
Clogged filter switch	Multi-speed indoor fan system
Condensate overflow switch	Multi-zone variable air volume (MZVAV)
Demand control ventilation wiring	Powered convenience outlet
Discharge air temperature sensing tube	ReliaTel™ controls
Economizer - comparative enthalpy	Single zone variable air volume (SZVAV)
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
Froststat™	Unit mounted circuit breaker
Fault detection & diagnostics (FDD); Meets CA Title 24 requirements	Unit mounted non-fused disconnect
Hail guard	Unpowered convenience outlet
Hinged access panels	

(a) Verify option availability in product catalog.

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Table 2. Standard efficiency, 3 to 10 tons packaged rooftop performance data (heat pump)

Nominal Size (Tons)	3 (DHC)	4 (DHC)	5 (DHC)	6 (DHC)	7.5 (DHC)	8.5 (DHC)	10 (DHC)
Cooling Performance							
Supply Air (cfm)	1,200	1,600	2,000	2,400	3,000	3,400	4,000
Tot / Sens Cap (MBh)	36.4/28.0	48.8/39.1	61.0/49.1	78.9/ 59.5	96.2/ 74.7	105.9/ 83.6	123.6/ 96.3
EER/SEER	3 = 12.5/15.7 4,W = 12.5/15.6	13.0/16.5	3 = 12.8/16.2 4,W = 12.8/16.0	12.1	11.8	3,4 = 12.0 W = 11.8	11.5
IEER ^(a)	N/A	N/A	N/A	15.5	15.5	15.5	15.5
Gas Heating Performance^(b)							
Low Heat (Input/output) - (Btu)	60,000/48,600	60,000/48,600	60,000/48,600	80,000/64,800	120,000/97,200	120,000/97,200	150,000/121,500 105,000/85,050
Medium Heat (Input/output) - (Btu)	80,000/64,800	100,000/81,000	100,000/81,000	120,000/97,200	150,000/121,500 105,000/85,050	150,000/121,500 105,000/85,050	200,000/162,000 140,000/113,400
High Heat (Input/output) - (Btu)	100,000/81,000	130,000/105,300	150,000/121,500	150,000/121,500 105,000/85,050	200,000/162,000 140,000/113,400	200,000/162,000 140,000/113,400	250,000/202,500 175,000/141,750
Heating Performance							
High Temperature Btu/h Rating	32,200	44,000	57,000	75,000	87,000	93,000	118,000
COP	3.60	3.60	3.60	3,4 = 3.50 W = 3.48	3,4 = 3.50 W = 3.48	3,4 = 3.63 W = 3.61	3,4 = 3.63 W = 3.61
Low Temperature Btu/h Rating	21,400	24,000	34,400	40,000	49,000	57,000	61,000
COP	2.30	2.30	2.30	2.25	2.25	2.25	2.25
HSPF	8.8	8.8	8.9	NA	NA	NA	NA
Other Information							
Net Weight (Lbs)	553	750	754	892	906	918	1294
Roof Curb	BAYCURB042*	BAYCURB043*		BAYCURB043*		BAYCURB044*	
Unit Cabinet Size	F	C		D		E	
Filters ^(c) - Type Furnished	Throwaway	Throwaway		Throwaway		Throwaway	
Number Size Recommended	(2) 20x35x2	(4) 16x25x2		(4) 20x25x2		(3) 20x25x2, (2) 20x30x2	

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- (a) 16.0/16.5 IEER for multi-speed/SZVAV option.
 (b) Refer to catalog for heating note. 81% steady state efficiency, two-stage gas heat standard on DHC models.
 (c) Optional 2" MERV 8 and MERV 13 filters also available.

Table 3. Unit MCA and MOP electrical data (dual fuel)

DHC	Volts	Standard Indoor Motor		Oversize Indoor Motor	
		MCA	MOP	MCA	MOP
036	208-230/3	23	30	20	30
	460/3	13	15	10	15
	575/3	9	15	-	-
048	208-230/3	29	40	24	35
	460/3	14	15	11	15
	575/3	10	15	-	-
060	208-230/3	32	45	27	40
	460/3	15	20	12	15
	575/3	12	15	-	-
074	208-230/3	42	50	-	-
	460/3	19	25	-	-
	575/3	21	25	-	-
092	208-230/3	43	50	-	-
	460/3	20	25	-	-
	575/3	22	25	-	-
102	208-230/3	46	60	-	-
	460/3	22	25	-	-
	575/3	23	25	-	-
120	208-230/3	49	60	-	-
	460/3	24	30	-	-
	575/3	23	30	-	-

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Table 4. Unit indoor fan data (heat pump)

WHC	Volts	Standard HP - RPM	Oversize HP - RPM
036	208-230/3	0.75/MULT	1.5/MULT
	460/3	0.75/MULT	1.5/MULT
	575/3	0.75/MULT	1.5/MULT
048	208-230/3	1/MULT	1.5/MULT
	460/3	1/MULT	1.5/MULT
	575/3	1/MULT	1.5/MULT
060	208-230/3	1/MULT	1.5/MULT
	460/3	1/MULT	1.5/MULT
	575/3	1/MULT	1.5/MULT
074	208-230/3	2.75/MULT	-
	460/3	2.75/MULT	-
	575/3	2.75/MULT	-
092	208-230/3	2.75/MULT	-
	460/3	2.75/MULT	-
	575/3	2.75/MULT	-
102	208-230/3	2.75/MULT	-
	460/3	2.75/MULT	-
	575/3	2.75/MULT	-
120	208-230/3	2.75/MULT	-
	460/3	2.75/MULT	-
	575/3	2.75/MULT	-

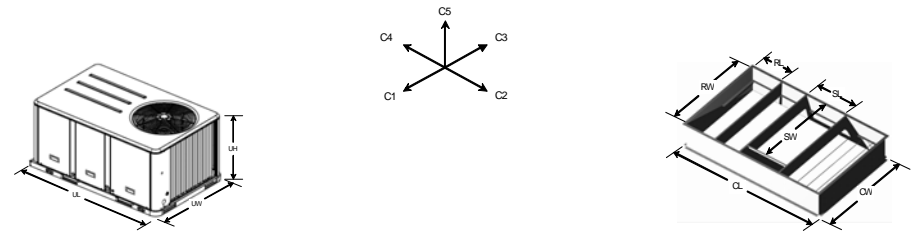
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Table 5. Unit dimensional data

	Cabinet Size (Digit 30)			
	C	D	E	F
Unit Length UL	88 5/8	88 5/8	99 11/16	69 7/8
Unit Width UW	53 1/4	53 1/4	63 3/16	44 1/4
Unit Height UH	40 7/8	46 7/8	50 7/8	40 7/8
Clearance C1	48	48	48	48
Clearance C2	36	36	36	36
Clearance C3	36	36	36	36
Clearance C4	36	36	36	36
Clearance C5	72	72	72	72
Curb Length CL	84 1/2	84 1/2	84 1/2	65 13/16
Curb Width CW	50 3/8	50 3/8	60 3/8	41 7/16
Supply Length SL ^(a)	18 1/2	18 1/2	18 1/2	16 3/4
Supply Width SW ^(a)	34 3/8	34 3/8	34 3/8	17 7/8
Return Length RL ^(a)	18 1/4	18 1/4	18 1/4	14 9/16
Return Width RW ^(a)	34 3/8	34 3/8	34 3/8	25 3/16

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

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