

Quick Reference Guide

Foundation™ 15 to 25 Tons Packaged Rooftop Units Cooling & Gas/Electric



Model Number: **Used With:**
 EBC Cooling Only (Electric Heat Optional)
 GBC Gas Heat Unit

June 2020

RT-PRC069E-EN

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List of Options

Note: Most Factory Installed Options are available for downflow air discharge units only. Verify with ordering system for availability.

Table 1. List of options

Factory Installed Options	Field Installed Options
Barometric Relief ^{(a),(b)}	2-in MERV 13 Pleated Filters
Complete Coat™ Microchannel Condenser Coil	Crankcase Heater (25 Tons)
Condensate Overflow Switch	Demand controlled Ventilation
Economizer - Standard/Downflow ^(b)	Economizer - Standard/Horizontal
Economizer - Low Leak/Downflow ^(b)	Economizer - Low Leak/Horizontal
Electric Heaters	Hail Guard
Manual Outside Air Damper	High Altitude Kit
Motorized Outside Air Damper	High and Low Static Drive Kit
Multi-Speed Indoor Fans (Utilizing VFD)	Low Ambient Kit
Oversized Motor	LP Conversion Kit
Reference or Comparative Enthalpy Economizer	Powered Exhaust
Stainless Steel Heat Exchanger with 10 Year Warranty	Remote Potentiometer
Through the Base Electrical Access	Roof Curb
Through the Base Gas Piping	Thermostat
Unit Mounted Non-Fused Disconnect Switch ^(c)	

(a) Requires an economizer.

(b) Some field set up required.

(c) Must be ordered with Through-the-Base Electrical option.

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Table 2. 15-25 ton packaged rooftop performance data (gas or electric heat)

Nominal Size (Ton)	15	17.5	20	25	
				EBC	GBC
Cooling Performance^(a)					
Gross Cooling Capacity	180,000	212,000	256,000	284,000	284,000
AHRI Net Cooling Capacity	176,000	206,000	244,000	268,000	268,000
Nominal Airflow CFM / AHRI Rated CFM	6,000/ 4,800	7,000/ 6,650	8,000/ 7,000	10,000/ 8,000	10,000/ 8,000
EER	11	11	10	10	9.8
IEER (One Speed Fan/Multi - Speed Fan)	12.4/ 13.2	12.4/ 13.2	11.6/ 12.4	11.6/ 12.4	11.4/ 12.4
Gas Heating Performance^(b)					
Low Heat (Input/Output) - (MBh)	240,0/ 192,0	240,0/ 192,0	240,0/ 192,0	-	240,0/ 192,0
Medium Heat (Input/Output) - (MBh)	320,0/ 256,0	320,0/ 256,0	320,0/ 256,0	-	320,0/ 256,0
High Heat (Input/Output) - (MBh)	350,0/ 280,0	400,0/ 320,0	400,0/ 320,0	-	400,0/ 320,0
Other Information					
Net Weight (Lbs) - Gas Heat	1990	1999	2024	-	2050
Net Weight (Lbs) - Electric Heat	1826	1835	1860	1886	-
Filters - Type Furnished	Throwaway	Throwaway	Throwaway	Throwaway	Throwaway
Number & Size Recommended	(8) 20x25x2	(8) 20x25x2	(8) 20x25x2	(8) 20x25x2	(8) 20x25x2

(a) Cooling Performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb.

(b) Verify option availability in product data catalog.

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Table 3. Unit MCA & MOP electrical data (standard indoor fan motor - cooling or gas heat)

E/GBC	Volts	MCA ^(a)	MOP
180	208-230/3	79	100
	460/3	36	45
	575/3	30	35
210	208-230/3	92	110
	460/3	40	50
	575/3	33	40
240	208-230/3	101	125
	460/3	50	60
	575/3	39	50
300	208-230/3	133	175
	460/3	58	70
	575/3	46	60

(a) Values do not include Power Exhaust accessory.

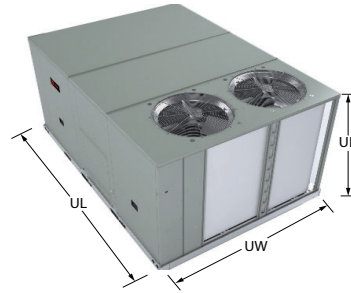
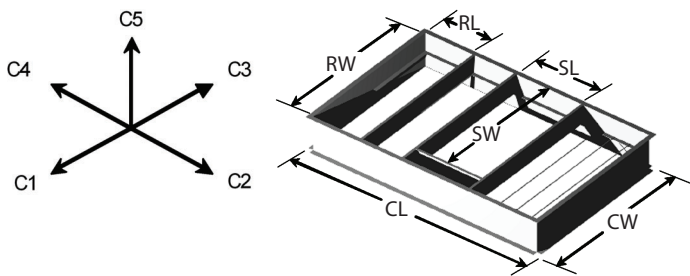
Table 4. Unit indoor fan data

E/GBC	Volts	Standard HP - RPM	Oversized HP - RPM
180	208-230/3	3 - 1750	5 - 3450
	460/3		
	575/3		
210	208-230/3	5 - 3450	7.5 - 3450
	460/3		
	575/3		
240	208-230/3	5 - 3450	7.5 - 3450
	460/3		
	575/3		
300	208-230/3	7.5 - 3450	10 - 1750
	460/3		
	575/3		

Table 5. Unit dimensional data

	15-25 Ton
Unit Length UL	123 1/8
Unit Width UW	86 15/16
Unit Height UH	58 5/8
Clearance C1	60
Clearance C2	48
Clearance C3	36
Clearance C4	68
Clearance C5	72
Curb Length CL	117 3/16
Curb Width CW	81
Supply Length SL ^(a)	28 9/16
Supply Width SW ^(a)	69 1/2
Return Length RL ^(a)	22 1/4
Return Width RW ^(a)	77

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

**Table 6. Curb compatibility matrix - gas heat^(a)**

Tons	Foundation Model No.	Voyager Light Commercial Model No.	Carrier Model No.
15	G*C180	YCD180E, YCD180F, YSD180F, YHD180F, YCD181B, YCD181C, YCD181E, YCD181F, YSD180G, YSH180G, YHD180G, YHH180G	48TJD016, 48TJE016, 48TJF016, 48HJD017, 48HJF017, 48TMD016, 48TMF016, 48DP016, 48DR016
17½	G*C210	YCD210A, YCD210B, YCD210E, YCD210F, YSD210F, YHD210F, YCD211B, YCD211C, YCD211E, YCD211F, YSD210G, YSH210G, YHD210G, YHH210G	48TJD020, 48TJF020, 48TMD020, 48TMF020, 48DP020
20	G*C240	YCD240A, YCD240B, YCD240E, YCD240F, YSD240F, YHD240F, YCD241B, YCD241C, YCD241E, YCD241F, YSD240G, YSH240G, YHD240G, YHH240G	48TJD024, 48TJE024, 48TJF024, 48TMD025, 48TMF025, 48HJD025, 48HJF025
25	G*C300	YCD300B, YCD300E, YCD300F, YSD300F, YHD300F, YCD301C, YCD301E, YCD301F, YSD300G, YSH300G, YHD300G, YHH300G	48TJD028, 48TJE028, 48TJF028, 48TMD028, 48TMF028

(a) Data is subject to change. Data pulled from publicly available data via competitive websites.

Table 7. Curb compatibility matrix - electric heat^(a)

Tons	Foundation Model No.	Voyager Light Commercial Model No.	Carrier Model No.
15	E*C180	TCD180E, TCD180F, TSD180F, THD180F, TCD181B, TCD181C, TCD181E, TCD181F, TSD180G, TSH180G, THD180G, THH180G	50TJ016, 50TM016, 50DP016, 50HJ017
17½	E*C210	TCD210A, TCD210B, TCD210E, TCD210F, TSD210F, THD210F, TCD211B, TCD211C, TCD211E, TCD211F, TSD210G, TSH210G, THD210G, THH210G	50DP020, 50TJ020, 50TM020
20	E*C240	TCD240A, TCD240B, TCD240E, TCD240F, TSD240F, THD240F, TCD241B, TCD241C, TCD241E, TCD241F, TSD240G, TSH240G, THD240G, THH240G	50TJ024, 50TM025, 50HJ025
25	E*C300	TCD300B, TCD300E, TCD300F, TSD300F, THD300F, TCD301C, TCD301E, TCD301F, TSD300G, TSH300G, THD300G, THH300G	50TJ028, 50TM028

(a) Data is subject to change. Data pulled from publicly available data via competitive websites.

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