



Sales and Engineering Data Sheet

ED 19116

Group: Applied Air
Part Number: ED 19116
Date: July 2019

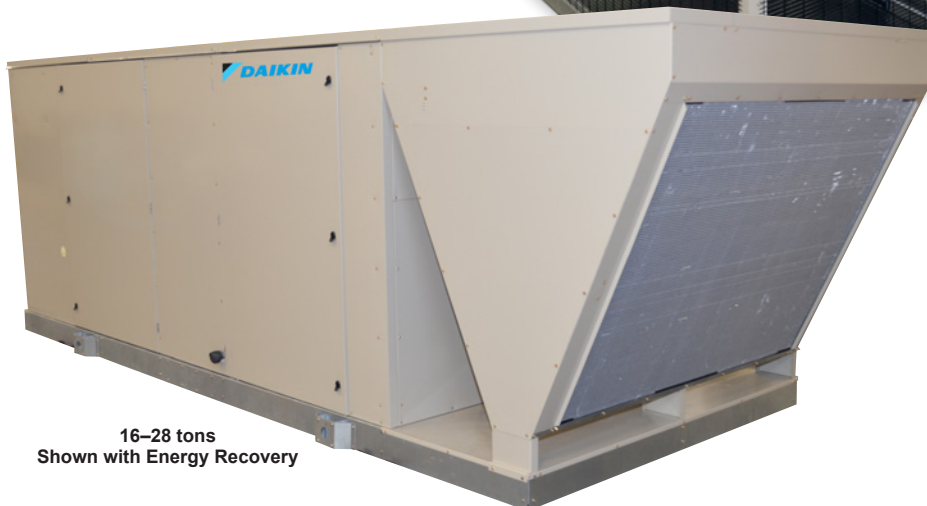
Rebel® Commercial Packaged Rooftop



3-6 tons



7-15 tons
Shown with Energy Recovery



16-28 tons
Shown with Energy Recovery



Rebel® Physical Data — Model DPS 003 – 028

Model	Small cabinet				Medium cabinet				Large cabinet				
	003	004	005	006	007	010	012	015	016	018	020	025	028
Cooling only performance													
Gross cooling capacity (tons)	3	4	5	6	7.5	10	12	15	15.5	17.5	20.1	25	27.5
Nominal airflow (cfm)	1125	1500	1875	2100	2450	3500	4200	5250	5900	6600	7600	9500	10400
EER ^{1,7}	13.5	12.4	13.0	11.6	12.5	12.4	11.6	11.0	12.2	11.9	11.3	11.3	10.5
IEER ^{1,7} or SEER	16.9	17.0	17.5	19.8	20.6	19.3	18.0	18.0	21.0	20.8	20.4	18.3	17.9
Heat pump performance⁴													
High temperature capacity @ 47°F (MBh)	32	43	54	64	78	105	134	164	158	172	218	—	—
COP @ 47°F or HSPF ⁵	9.2	8.9	8.5	3.69	3.66	3.42	3.33	3.64	3.67	3.6	3.40	—	—
Low temperature capacity @ 17°F (MBh)	20	24	33	39	47	61.5	77	91	93	104	132	—	—
COP @ 17°F ⁵	N/A	N/A	N/A	2.54	2.42	2.38	2.32	2.25	2.34	2.33	2.20	—	—
Electric heat performance													
Control options	2/4 stage/SCR				4 stage/SCR				4 stage/SCR				
kW (low/medium/high heat)	6/12/18/24/30				18/36/54/72				10, 20, 30, 45, 60, 72, 90, 120, 150				
Gas heating performance													
Input capacity (MBh)	80/120/160				200/300/400				300, 450, 600				
Number of stages (staged option)	2				2				4				
Turndown (modulating options)	5:1				5:1, 10:1				12:1				
Gas connection size (mpt)	1/2"				3/4"				3/4"				
Steady state efficiency	80%				80%				80%				
Heating coil													
Type	Hot water				Hot water				Hot water				
Rows/FPI (high heat/low heat)	(2/10) / (1/8)				(2/10) / (1/8)				1/12, 2/12, 3/13				
Face area (sq. ft.)	2.5				5.4				12.3				
Compressors													
Quantity/type	(1) Inverter scroll				(1) Inverter scroll, (1) Fixed speed scroll				(1) Inverter scroll on 16–20, (1) Inverter scroll + (1) Fixed speed scroll				
Number of stages	Modulating				Modulating				Modulating				
Refrigerant	R-410A				R-410A				R - 410A				
Indoor coil													
Rows/FPI	3/16	4/16	4/14	4/14	3/15	4/15	4/15	6/12	4/15	4/15	4/15	4/15	4/15
Face area (sq. ft.)	4.8	4.8	6.0	6.0	14.0	15.4	15.4	15.4	18.9	18.9	21.4	21.4	21.4
Capacity control	Electronic Expansion Valve (EEV)				Electronic Expansion Valve (EEV)				Electronic Expansion Valve (EEV)				
Outdoor coil													
Type: non-heat pump/heat pump ⁶	Aluminum microchannel/copper tube-aluminum fin												
Rows/FPI — heat pump	2/16		3/16		3/16	4/16	4/16	4/16	3/16	3/16	4/16	—	—
Rows/FPI — non-heat pump	1/21		3/16		1/21	1/21	4/16	1/21	1/23				
Outdoor fan and motor													
HP/Quantity	0.5/1		1.0/1		1.0/2				3.5/1				
Fan Diameter (in)/quantity	27/1		27/1		27/2				39/1				
Indoor fan													
Type	Centrifugal airfoil (SWSI)				Centrifugal airfoil (SWSI)				Centrifugal airfoil (SWSI)				
Quantity/diameter ²	(1) 12", (1) 14", (1) 16"				(1) 14" (1) 16" (1) 22"	(1) 22"			1/20 or 1/24		1/24		
Quantity/diameter ³	(1) 12", (1) 14", (1) 16"				(1) 14", (1) 16", (1) 22"				1/16 or 1/20				
Drive type	Direct drive				Direct drive				Direct drive				
Motor HP range	1.3 / 2.3 / 4.0				4.0 / 8.0				2.0 / 3.0 / 5.0 / 7.5 / 10.0 / 15.0 / 20.0				
Hot gas reheat coil													
Coil type	Microchannel				Microchannel				Microchannel				
Control type	Modulating				Modulating				Modulating				
Temperature rise	20°				20°				20°				
Filters													
Type	2", 4"				2", 4"				2" (MERV8), 4" (MERV14)				
Area (sq. ft.)	7.1				18				27.0				
Qty. - size	4 – 16 x 16				6 – 18 x 24				9 – 18 x 24				

NOTE:

1. EER and IEER/SEER for cooling only VAV, 460 volt unit, largest SAF
2. Mixed outside air and return air units
3. 100% outside air unit only
4. Heat pump performance for units with back up electric heat
5. HSPF for 3-5 ton units only
6. Size 5 and 6 non-heat pump models use copper tube aluminum fin
7. Down discharge



Rebel® Physical Data — Model DPS 003 – 028

Model	Small cabinet				Medium cabinet			
	003	004	005	006	007	010	012	015
Electrical	208/230V or 460V				208/230V, 460V, or 575V			
Dimensions (inches)								
Standard (with OA)	87" x 85" x 41"				87" x 85" x 41"			97" x 107" x 56"
With ERW and OA	87" x 103" x 41"				97" x 133" x 56"			97" x 150" x 56"
Weight (lbs.)								
Base weight ¹	1000	1000	1025	1058	1600	1600	1600	1763
Heat pump	1030	1030	1058	1058	1660	1660	1660	1823
Electric heat	45	45	45	45	100	100	100	100
Hot water 1 row	11	11	11	11	32	32	32	32
Hot water 2 row	16	16	16	16	41	41	41	41
Gas heat	93	93	93	93	186	186	186	186
Hot gas reheat	8	8	12	12	28	31	31	31
Economizer	163	163	163	163	308	308	308	308
Energy wheel weight add (lbs.)								
100% OA	160	160	160	160	300	300	300	300
Mixed air	175	175	175	175	250	250	250	250
CORE® Recovery	—				1,460			

1. Includes standard cooling coil

Model	Large cabinet				
	016	018	020	025	028
Electrical	208/230V, 460V, or 575V				
Dimensions (inches)					
Standard (with OA)	77" x 186" x 71"				
With ERW and OA	77" x 205" x 71"				
Weight (lbs.)					
Base weight (in lbs.)	2,465	2,575	2,700		
Heat pump	2,750	2,830	—	—	
Electric heat	228				
Hot water heat	1-row	60			
	2-row	100			
	3-row	140			
Gas heat	300	175			
	450	225			
	600	275			
Hot gas reheat	30				
Economizer	500				
ERW – small	350				
ERW – large	400				
Indoor fan	16"	100			
	20"	150			
	24"	260			
Indoor fan motors	2	40			
	3	69			
	5	84			
	7.5	115			
	10	128			
	15	211			
20	225				
Exhaust fan	Up to 230				
CORE® Recovery	2,260				

Fan weights (lbs.)	
12 Inch (310 mm)	87
14 Inch (360 mm)	91
16 Inch (400 mm)	115
22 Inch (560 mm)	115

Curb weights (lbs.)	14"	24"
003—006	156	230
007—015	200	295
016—028	566	657

Unit size	Refrig. charge - cooling model		Refrig. charge - heat pump model	
	Standard unit	Standard unit w/MHGRH	Standard unit	Standard unit w/MHGRH
3	8.6	11.3	12.0	14.4
4	8.5	11.3	12.6	15.0
5	15.3	18.2	16.8	19.7
6	15.3	18.2	16.8	19.7
7.5	11.1	17.8	26.0	31.2
10	20.0	25.8	40.0	45.8
12	20.0	25.8	40.0	45.8
15	24.4	30.2	46.0	51.8
16	30.3	30.7	53.0	53.4
18	30.3	30.7	53.0	53.4
20	32.5	32.9	56.0	56.4
25	35.5	35.9	Not Available	
28	35.5	35.9		



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