



SPECIFICATION SHEET

DRAC16 Series

AIR CONDITIONERS



COOLING EFFICIENCY:
16 SEER/12.5 EER

AVAILABLE SIZES:
1.5 TO 5 TONS [5.28 to 17.6 kW]

PRODUCT FEATURES

- Outdoor air conditioner designed for ground level or rooftop installations. These units offer comfort and dependability for single, multi-family and light commercial applications.
- Painted louvered steel cabinet
- Easily accessible control box
- Condenser coils constructed with copper tubing and enhanced aluminum fins
- Grille/Motor mount for quiet fan operation
- Filter Drier (shipped – not installed)

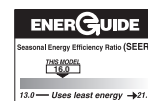




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Air Conditioners*

DR	AC	16	A	24	A	J	1	N	A
Brand	Product Category	SEER		Capacity BTU/HR	Major Series*	Voltage	Type	Controls	Minor Series**
Durastar	A - Air Conditioners	16 - 16 SEER	A - R410A	18 - 18,000 [5.28 kW] 24 - 24,000 [7.03 kW] 30 - 30,000 [8.79 kW] 36 - 36,000 [10.55 kW] 48 - 48,000 [14.07 kW] 60 - 60,000 [17.58 kW]	A - 1st Design	J - 1ph, 208-230/60	1 - Single-stage	N - Non-Communicating	A - 1st Design B - 2nd Design

[J] Designates Metric Conversions

Available SKUs

Available Models
DRAC16A18AJ1NA
DRAC16A24AJ1NA
DRAC16A30AJ1NA
DRAC16A36AJ1NA
DRAC16A42BJ1NA
DRAC16A48AJ1NA
DRAC16A60AJ1NA



Electrical and Physical Data

Physical Data							
Model No.#	DRAC16A18	DRAC16A24	DRAC16A30	DRAC16A36	DRAC16A42	DRAC16A48	DRAC16A60
Nominal Tonnage	1.5	2.0	2.5	3.0	3.5	4.0	5.0
Valve Connections							
Liquid Line O.D. - in.	3/8	3/8	3/8	3/8	3/8	3/8	3/8
Suction Line O.D. - in.	3/4	3/4	3/4	3/4	7/8	7/8	7/8
Refrigerant (R410A) furnished oz.¹	80.9	85	112	128	164	207	228
Compressor Type	Scroll						
Outdoor Coil							
Net face area - Outer Coil	11.8	13.7	13.7	21.9	21.85	21.9	21.9
Tube diameter - in.	3/8	3/8	3/8	3/8	3/8	3/8	3/8
Number of rows	1	1	1	1	1	2	2
Fins per inch	22	22	22	22	22	20	20
Outdoor Fan							
Diameter - in.	22	22	24	24	22	24	24
Number of blades	2	2	2	3	3	3	3
Motor hp	1/10	1/12	1/8	1/5	1/4	1/3	1/3
cfm	2049	2077	2915	3430	3600	3615	3615
rpm	825	841	850	850	1075	1075	1075
watts	122	76	135	228	244	195	311
Shipping weight - lbs.	157	171	175	201	201	289	274
Operating weight - lbs.	150	164	168	194	194	262	267
Electrical Data							
Line Voltage Data (Volts-Phase-Hz)	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60
Maximum overcurrent protection (amps)²	20	25	25	35	40	50	60
Minimum circuit ampacity³	12	15	17	21	25	29	35
Compressor							
Rated load amps	9.0	11.2	12.8	15.4	18.6	21.8	26.4
Locked rotor amps	46	60.8	64	83.9	109	117	134
Condenser Fan Motor							
Full load amps	0.5	0.36	0.68	1.0	1	1.7	1.7
Locked rotor amps	1.0	1.0	1.3	2.4	2.5	3.2	3.2

¹Refrigerant charge sufficient for 15 ft. length of refrigerant lines. For longer line set requirements see the installation instructions for information about set length and additional refrigerant charge required.

²HACR type circuit breaker or fuse.

³Refer to National Electrical Code manual to determine wire, fuse and disconnect size requirements.

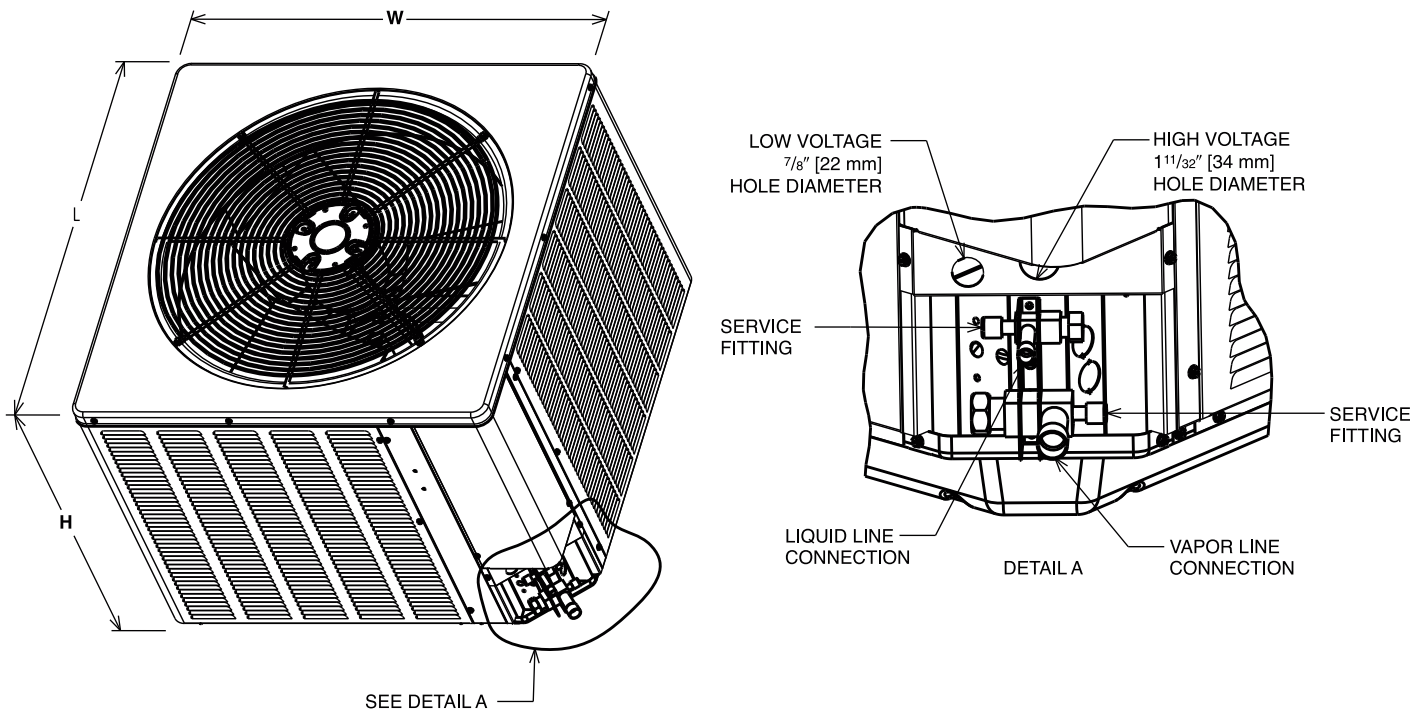
Weighted Sound Power Level (dBA)

Model	Standard Rating (dBA)
DRAC16A18AJ1NA	76
DRAC16A24AJ1NA	76
DRAC16A30AJ1NA	76
DRAC16A36AJ1NA	76
DRAC16A42BJ1NA	76
DRAC16A48AJ1NA	76
DRAC16A60AJ1NA	76

Unit Dimensions

MODEL NUMBER	OPERATING						SHIPPING					
	H (Height)		L (Length)		W (Width)		H (Height)		L (Length)		W (Width)	
	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
DRAC16A18	24.25	616	27.63	702	27.63	702	24.50	622	28.75	730	28.75	730
DRAC16A24	24.25	616	27.63	702	27.63	702	24.50	622	28.75	730	28.75	730
DRAC16A30	27.38	695	31.63	803	31.63	803	27.63	702	32.75	832	32.75	832
DRAC16A36	35.38	899	31.63	803	31.63	803	35.38	899	31.63	803	31.63	803
DRAC16A42	35.38	899	31.63	803	31.63	803	35.38	899	31.63	803	31.63	803
DRAC16A48	35.38	899	31.63	803	31.63	803	35.38	899	31.63	803	31.63	803
DRAC16A60	35.38	899	31.63	803	31.63	803	35.38	899	31.63	803	31.63	803

[] Designates Metric Conversions



NOTE: Illustrations show the deep drawn basepan.



Condensing Unit Refrigerant Line Size Information

16 SEER Single-Stage Air-Conditioners																					
Unit Size	Allowable Liquid Line Size	Allowable Suction Line Size	Apply Long Line Guidelines if Linear Line Length Exceeds Those Shown Below (Feet)	Equivalent Length (Feet)																	
				< 25	26-50	51-75	76-100	101-125	126-150	151-175	176-200	201-225	226-250								
DRAC16				Maximum Vertical Rise (Outdoor Unit Below Indoor Unit) * / Capacity Multiplier																	
1.5 Ton **SEE NOTE 3	1/4"	5/8"	N/A	25/1.00	50/0.99	62/0.98	43/0.98	24/0.97	5/0.97	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
	5/16"	5/8"	190	25/1.00	50/0.99	75/0.98	98/0.98	93/0.97	88/0.97	83/0.96	78/0.96	73/0.95	68/0.94	63/0.93	58/0.92	53/0.91	48/0.90	43/0.89	38/0.88	33/0.87	28/0.86
	3/8"	5/8"	127	25/1.00	50/0.99	75/0.98	100/0.98	100/0.97	100/0.97	100/0.96	100/0.96	100/0.95	100/0.94	100/0.93	100/0.92	100/0.91	100/0.90	100/0.89	100/0.88	100/0.87	100/0.86
	1/4"	3/4"	N/A	25/1.00	50/1.00	62/0.99	43/0.99	24/0.99	5/0.99	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	5/16"	3/4"	190	25/1.00	50/1.00	75/0.99	98/0.99	93/0.99	88/0.99	83/0.99	78/0.98	73/0.98	68/0.98	63/0.97	58/0.96	53/0.95	48/0.94	43/0.93	38/0.92	33/0.91	28/0.90
	3/8"	3/4"	127	25/1.00	50/1.00	75/1.00	100/0.99	100/0.99	100/0.99	100/0.99	100/0.99	100/0.98	100/0.98	100/0.98	100/0.97	100/0.97	100/0.96	100/0.96	100/0.95	100/0.95	100/0.94
2 Ton	1/4"	5/8"	N/A	25/0.99	50/0.98	21/0.97	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
	5/16"	5/8"	180	25/0.99	50/0.98	75/0.97	87/0.96	77/0.95	69/0.94	61/0.93	53/0.92	45/0.91	37/0.90	30/0.89	23/0.88	16/0.87	9/0.86	2/0.85	NR	NR	NR
	3/8"	5/8"	120	25/0.99	50/0.98	75/0.97	100/0.96	100/0.95	100/0.94	98/0.93	95/0.92	92/0.91	89/0.90	86/0.89	83/0.88	80/0.87	77/0.86	74/0.85	71/0.84	68/0.83	65/0.82
	1/4"	3/4"	N/A	25/1.00	50/1.00	21/0.99	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	5/16"	3/4"	180	25/1.00	50/1.00	75/0.99	87/0.99	77/0.98	69/0.98	61/0.98	53/0.97	45/0.97	37/0.96	30/0.95	23/0.94	16/0.93	9/0.92	2/0.91	NR	NR	NR
	3/8"	3/4"	120	25/1.00	50/1.00	75/0.99	100/0.99	100/0.99	100/0.98	100/0.98	100/0.98	100/0.97	100/0.97	100/0.96	100/0.96	100/0.95	100/0.95	100/0.94	100/0.94	100/0.93	100/0.93
2.5 Ton	5/16"	5/8"	113	25/0.99	50/0.98	75/0.96	70/0.94	59/0.93	48/0.91	36/0.90	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
	3/8"	5/8"	75	25/0.99	50/0.98	75/0.96	100/0.94	98/0.93	94/0.91	90/0.90	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
	5/16"	3/4"	113	25/1.00	50/0.99	75/0.99	70/0.98	59/0.98	48/0.97	36/0.96	25/0.96	13/0.95	NR	NR	NR	NR	NR	NR	NR	NR	
	3/8"	3/4"	75	25/1.00	50/0.99	75/0.99	100/0.98	98/0.98	94/0.97	90/0.96	86/0.96	82/0.95	78/0.95	74/0.94	70/0.93	66/0.92	62/0.91	58/0.90	54/0.89	50/0.88	46/0.87
	5/16"	5/8"	73	25/0.99	50/0.97	66/0.94	49/0.92	32/0.90	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
	3/8"	5/8"	48	25/0.99	50/0.97	75/0.94	95/0.92	89/0.90	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
3 Ton	5/16"	3/4"	73	25/1.00	50/0.99	66/0.98	49/0.98	32/0.97	15/0.96	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
	3/8"	3/4"	48	25/1.00	50/0.99	75/0.98	95/0.98	89/0.97	84/0.96	78/0.95	72/0.94	67/0.93	61/0.93	56/0.92	51/0.91	46/0.90	41/0.89	36/0.88	31/0.87	26/0.86	
	1/2"	3/4"	24	25/1.00	50/0.99	75/0.98	100/0.98	100/0.97	100/0.96	100/0.96	100/0.94	100/0.93	100/0.93	100/0.92	100/0.91	100/0.90	100/0.89	100/0.88	100/0.87	100/0.86	
	5/16"	7/8"	73	25/1.00	50/1.00	66/1.00	49/0.99	32/0.99	15/0.99	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
	3/8"	7/8"	48	25/1.00	50/1.00	75/1.00	95/0.99	89/0.99	84/0.99	78/0.98	72/0.98	67/0.98	61/0.97	56/0.96	51/0.95	46/0.94	41/0.93	36/0.92	31/0.91	26/0.90	
	1/2"	7/8"	24	25/1.00	50/1.00	75/1.00	100/0.99	100/0.99	100/0.99	100/0.99	100/0.98	100/0.98	100/0.98	100/0.97	100/0.97	100/0.96	100/0.96	100/0.95	100/0.95	100/0.94	100/0.93

NOTES:

- 1) Do not exceed 200 ft linear line length.
- 2) *Do not exceed 100 ft vertical separation if outdoor unit is above indoor unit.
- 3) **3/4" suction line should only be used for 1.5 ton systems if outdoor unit is below or at same level as indoor to assure proper oil return.
- 4) Always use the smallest liquid line allowable to minimize refrigerant charge.
- 5) Applications shaded in light gray indicate capacity multipliers between 0.90 and 0.96 which are not recommended, but are allowed.
- 6) Applications shaded in dark gray are not recommended due to excessive liquid or suction pressure drop.



Condensing Unit Refrigerant Line Size Information (con't.)

16 SEER Single-Stage Air-Conditioners													
Unit Size	Allowable Liquid Line Size	Allowable Suction Line Size	Apply Long Line Guidelines if Linear Line Length Exceeds Those Shown Below (Feet)	Equivalent Length (Feet)									
				< 25	26-50	51-75	76-100	101-125	126-150	151-175	176-200	201-225	226-250
				Maximum Vertical Rise (Outdoor Unit Below Indoor Unit) * / Capacity Multiplier									
4 Ton	3/8"	3/4"	0	25 / 0.99	50 / 0.98	75 / 0.96	77 / 0.95	67 / 0.93	57 / 0.92	46 / 0.91	NR	NR	NR
	1/2"	3/4"	0	25 / 0.99	50 / 0.98	75 / 0.96	100 / 0.95	100 / 0.93	100 / 0.92	100 / 0.91	NR	NR	NR
	3/8"	7/8"	0	25 / 1.00	50 / 0.99	75 / 0.99	77 / 0.98	67 / 0.97	57 / 0.97	46 / 0.96	36 / 0.96	26 / 0.95	15 / 0.95
	1/2"	7/8"	0	25 / 1.00	50 / 0.99	75 / 0.99	100 / 0.98	100 / 0.97	100 / 0.97	100 / 0.96	100 / 0.96	99 / 0.95	97 / 0.95
5 Ton	3/8"	3/4"	0	25 / 0.99	50 / 0.97	75 / 0.94	61 / 0.92	46 / 0.90	NR	NR	NR	NR	NR
	1/2"	3/4"	0	25 / 0.99	50 / 0.97	75 / 0.94	100 / 0.92	100 / 0.90	NR	NR	NR	NR	NR
	3/8"	7/8"	0	25 / 1.00	50 / 0.99	75 / 0.98	61 / 0.97	46 / 0.96	32 / 0.95	18 / 0.94	NR	NR	NR
	1/2"	7/8"	0	25 / 1.00	50 / 0.99	75 / 0.98	100 / 0.97	100 / 0.96	100 / 0.95	97 / 0.94	95 / 0.94	92 / 0.93	89 / 0.92
	3/8"	1-1/8"	0	25 / 1.01	50 / 1.01	75 / 1.00	61 / 1.00	46 / 0.99	32 / 0.99	18 / 0.99	NR	NR	NR
	1/2"	1-1/8"	0	25 / 1.01	50 / 1.01	75 / 1.00	100 / 1.00	100 / 0.99	100 / 0.99	97 / 0.99	95 / 0.99	92 / 0.99	89 / 0.98

NOTES:

- 1) Do not exceed 200 ft linear line length.
- 2) Do not exceed 100 ft vertical separation if outdoor unit is above indoor unit.
- 3) **3/4" suction line should only be used for 1.5 ton systems if outdoor unit is below or at same level as indoor to assure proper oil return.
- 4) Always use the smallest liquid line allowable to minimize refrigerant charge.
- 5) Applications shaded in light gray indicate capacity multipliers between 0.90 and 0.96 which are not recommended, but are allowed.
- 6) Applications shaded in dark gray are not recommended due to excessive liquid or suction pressure drop.



Condensing Unit Refrigerant Line Size Information

16 SEER Single-Stage Air-Conditioners																								
Unit Size	Allowable Liquid Line Size mm [in.]	Allowable Suction Line Size mm [in.]	Apply Long Line Guidelines if Linear Line Length Exceeds Those Shown Below (Meters)	Equivalent Length (Meters)																				
				< 8	8-15	16-23	24-30	31-38	39-46	47-53	54-61	62-69	70-76											
DRAC16				Maximum Vertical Rise (Outdoor Unit Below Indoor Unit) * / Capacity Multiplier																				
5.3 kW [1.5 Ton] **SEE NOTE 3	6.35 [1/4]	15.88 [5/8]	N/A	8 / 1.00	15 / 0.99	19 / 0.98	13 / 0.98	7 / 0.97	2 / 0.97	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR			
	7.94 [5/16]	15.88 [5/8]	58	8 / 1.00	15 / 0.99	23 / 0.98	30 / 0.98	28 / 0.97	27 / 0.97	27 / 0.97	25 / 0.96	24 / 0.96	22 / 0.95	21 / 0.94	21 / 0.94	21 / 0.94	21 / 0.94	21 / 0.94	21 / 0.94	21 / 0.94	21 / 0.94	21 / 0.94		
	9.53 [3/8]	15.88 [5/8]	39	8 / 1.00	15 / 0.99	23 / 0.98	30 / 0.98	30 / 0.97	30 / 0.97	30 / 0.97	30 / 0.96	30 / 0.96	30 / 0.95	30 / 0.94	30 / 0.94	30 / 0.94	30 / 0.94	30 / 0.94	30 / 0.94	30 / 0.94	30 / 0.94	30 / 0.94	30 / 0.94	
	6.35 [1/4]	19.05 [3/4]**	N/A	8 / 1.00	15 / 1.00	19 / 0.99	13 / 0.99	7 / 0.99	2 / 0.99	2 / 0.99	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
	7.94 [5/16]	19.05 [3/4]**	58	8 / 1.00	15 / 1.00	23 / 0.99	30 / 0.99	28 / 0.99	27 / 0.99	27 / 0.99	25 / 0.99	24 / 0.98	22 / 0.98	21 / 0.98	21 / 0.98	21 / 0.98	21 / 0.98	21 / 0.98	21 / 0.98	21 / 0.98	21 / 0.98	21 / 0.98	21 / 0.98	
	9.53 [3/8]	19.05 [3/4]**	39	8 / 1.00	15 / 1.00	23 / 0.99	30 / 0.99	30 / 0.99	30 / 0.99	30 / 0.99	30 / 0.99	30 / 0.99	30 / 0.99	30 / 0.99	30 / 0.99	30 / 0.99	30 / 0.99	30 / 0.99	30 / 0.99	30 / 0.99	30 / 0.99	30 / 0.99	30 / 0.99	30 / 0.99
7.0 kW [2 Ton]	6.35 [1/4]	15.88 [5/8]	N/A	8 / 0.99	15 / 0.98	6 / 0.97	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
	7.94 [5/16]	15.88 [5/8]	55	8 / 0.99	15 / 0.98	23 / 0.97	27 / 0.96	23 / 0.95	21 / 0.94	19 / 0.93	16 / 0.92	14 / 0.91	11 / 0.90	11 / 0.90	11 / 0.90	11 / 0.90	11 / 0.90	11 / 0.90	11 / 0.90	11 / 0.90	11 / 0.90	11 / 0.90	11 / 0.90	
	9.53 [3/8]	15.88 [5/8]	37	8 / 0.99	15 / 0.98	23 / 0.97	30 / 0.96	30 / 0.95	30 / 0.94	30 / 0.94	29 / 0.92	28 / 0.91	27 / 0.90	27 / 0.90	27 / 0.90	27 / 0.90	27 / 0.90	27 / 0.90	27 / 0.90	27 / 0.90	27 / 0.90	27 / 0.90	27 / 0.90	
	6.35 [1/4]	19.05 [3/4]	N/A	8 / 1.00	15 / 1.00	6 / 0.99	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	7.94 [5/16]	19.05 [3/4]	55	8 / 1.00	15 / 1.00	23 / 0.99	27 / 0.99	23 / 0.98	21 / 0.98	19 / 0.98	16 / 0.97	14 / 0.97	11 / 0.96	11 / 0.96	11 / 0.96	11 / 0.96	11 / 0.96	11 / 0.96	11 / 0.96	11 / 0.96	11 / 0.96	11 / 0.96	11 / 0.96	
	9.53 [3/8]	19.05 [3/4]	37	8 / 1.00	15 / 1.00	23 / 0.99	30 / 0.99	30 / 0.99	30 / 0.98	30 / 0.98	29 / 0.97	28 / 0.97	27 / 0.96	27 / 0.96	27 / 0.96	27 / 0.96	27 / 0.96	27 / 0.96	27 / 0.96	27 / 0.96	27 / 0.96	27 / 0.96	27 / 0.96	27 / 0.96
8.8 kW [2.5 Ton]	7.94 [5/16]	15.88 [5/8]	34	8 / 0.99	15 / 0.98	23 / 0.96	21 / 0.94	18 / 0.93	15 / 0.91	11 / 0.90	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
	9.53 [3/8]	15.88 [5/8]	23	8 / 0.99	15 / 0.98	23 / 0.96	30 / 0.94	30 / 0.93	29 / 0.91	27 / 0.90	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
	7.94 [5/16]	19.05 [3/4]	34	8 / 1.00	15 / 0.99	23 / 0.99	21 / 0.98	18 / 0.98	15 / 0.97	11 / 0.96	8 / 0.96	4 / 0.95	4 / 0.95	4 / 0.95	4 / 0.95	4 / 0.95	4 / 0.95	4 / 0.95	4 / 0.95	4 / 0.95	4 / 0.95	4 / 0.95	4 / 0.95	
	9.53 [3/8]	19.05 [3/4]	23	8 / 1.00	15 / 0.99	23 / 0.99	30 / 0.98	30 / 0.98	29 / 0.97	27 / 0.96	26 / 0.96	25 / 0.95	24 / 0.95	24 / 0.95	24 / 0.95	24 / 0.95	24 / 0.95	24 / 0.95	24 / 0.95	24 / 0.95	24 / 0.95	24 / 0.95	24 / 0.95	
	7.94 [5/16]	15.88 [5/8]	22	8 / 0.99	15 / 0.97	20 / 0.94	15 / 0.92	10 / 0.90	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	9.53 [3/8]	15.88 [5/8]	15	8 / 0.99	15 / 0.97	23 / 0.94	29 / 0.92	27 / 0.90	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
10.6 kW [3 Ton]	7.94 [5/16]	19.05 [3/4]	22	8 / 1.00	15 / 0.99	20 / 0.98	15 / 0.98	10 / 0.97	5 / 0.96	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
	9.53 [3/8]	19.05 [3/4]	15	8 / 1.00	15 / 0.99	23 / 0.98	29 / 0.98	27 / 0.97	26 / 0.96	24 / 0.95	22 / 0.94	20 / 0.93	19 / 0.93	19 / 0.93	19 / 0.93	19 / 0.93	19 / 0.93	19 / 0.93	19 / 0.93	19 / 0.93	19 / 0.93	19 / 0.93	19 / 0.93	
	12.7 [1/2]	19.05 [3/4]	7	8 / 1.00	15 / 0.99	23 / 0.98	30 / 0.98	30 / 0.97	30 / 0.96	30 / 0.95	30 / 0.94	30 / 0.93	30 / 0.93	30 / 0.93	30 / 0.93	30 / 0.93	30 / 0.93	30 / 0.93	30 / 0.93	30 / 0.93	30 / 0.93	30 / 0.93	30 / 0.93	
	7.94 [5/16]	22.23 [7/8]	22	8 / 1.00	15 / 1.00	20 / 1.00	15 / 0.99	10 / 0.99	5 / 0.99	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	9.53 [3/8]	22.23 [7/8]	15	8 / 1.00	15 / 1.00	23 / 1.00	29 / 0.99	27 / 0.99	26 / 0.99	26 / 0.99	24 / 0.98	20 / 0.98	19 / 0.97	19 / 0.97	19 / 0.97	19 / 0.97	19 / 0.97	19 / 0.97	19 / 0.97	19 / 0.97	19 / 0.97	19 / 0.97	19 / 0.97	
	12.7 [1/2]	22.23 [7/8]	7	8 / 1.00	15 / 1.00	23 / 1.00	30 / 0.99	30 / 0.99	30 / 0.99	30 / 0.99	30 / 0.98	30 / 0.98	30 / 0.98	30 / 0.98	30 / 0.98	30 / 0.98	30 / 0.98	30 / 0.98	30 / 0.98	30 / 0.98	30 / 0.98	30 / 0.98	30 / 0.98	30 / 0.98

NOTES:

- 1) Do not exceed 61 meters linear line length.
- 2) Do not exceed 30 meters vertical separation if outdoor unit is above indoor unit.
- 3) *19.05 mm [3/4 in.] vapor line should only be used for 1.5 ton systems if outdoor unit is below or at same level as indoor to assure proper oil return.
- 4) Always use the smallest liquid line allowable to minimize refrigerant charge.
- 5) Applications shaded in light gray indicate capacity multipliers between 0.90 and 0.96 which are not recommended, but are allowed.
- 6) Applications shaded in dark gray are not recommended due to excessive liquid or suction pressure drop.



Condensing Unit Refrigerant Line Size Information (con't.)

16 SEER Single-Stage Air-Conditioners												
Unit Size	Allowable Liquid Line Size mm [in.]	Allowable Suction Line Size mm [in.]	Apply Long Line Guidelines if Linear Line Length Exceeds Those Shown Below (Meters)	Equivalent Length (Meters)							70-76	
				< 8	8-15	16-23	24-30	31-38	39-46	47-53		54-61
				Maximum Vertical Rise (Outdoor Unit Below Indoor Unit) * / Capacity Multiplier								
DRAC16				8 / 0.99	15 / 0.98	23 / 0.96	24 / 0.95	20 / 0.93	17 / 0.92	14 / 0.91	NR	NR
14.1 kW [4 Ton]	9.53 [3/8]	19.05 [3/4]	0	8 / 0.99	15 / 0.98	23 / 0.96	24 / 0.95	20 / 0.93	17 / 0.92	14 / 0.91	NR	NR
	12.7 [1/2]	19.05 [3/4]	0	8 / 0.99	15 / 0.98	23 / 0.96	30 / 0.95	30 / 0.93	30 / 0.92	30 / 0.91	NR	NR
	9.53 [3/8]	22.23 [7/8]	0	8 / 1.00	15 / 0.99	23 / 0.99	24 / 0.98	20 / 0.97	17 / 0.97	14 / 0.96	11 / 0.96	8 / 0.95
	12.7 [1/2]	22.23 [7/8]	0	8 / 1.00	15 / 0.99	23 / 0.99	30 / 0.98	30 / 0.97	30 / 0.97	30 / 0.96	30 / 0.96	30 / 0.95
17.6 kW [5 Ton]	9.53 [3/8]	19.05 [3/4]	0	8 / 0.99	15 / 0.97	23 / 0.94	19 / 0.92	14 / 0.90	NR	NR	NR	NR
	12.7 [1/2]	19.05 [3/4]	0	8 / 0.99	15 / 0.97	23 / 0.94	30 / 0.92	30 / 0.90	NR	NR	NR	NR
	9.53 [3/8]	22.23 [7/8]	0	8 / 1.00	15 / 0.99	23 / 0.98	19 / 0.97	14 / 0.96	10 / 0.95	5 / 0.94	NR	NR
	12.7 [1/2]	22.23 [7/8]	0	8 / 1.00	15 / 0.99	23 / 0.98	30 / 0.97	30 / 0.96	30 / 0.95	30 / 0.94	29 / 0.94	28 / 0.93
	9.53 [3/8]	28.58 [1-1/8]	0	8 / 1.01	15 / 1.01	23 / 1.00	19 / 1.00	14 / 0.99	10 / 0.99	5 / 0.99	NR	NR
	12.7 [1/2]	28.58 [1-1/8]	0	8 / 1.01	15 / 1.01	23 / 1.00	30 / 1.00	30 / 0.99	30 / 0.99	30 / 0.99	29 / 0.99	28 / 0.99

NOTES:

- 1) Do not exceed 61 meters linear line length.
- 2) Do not exceed 30 meters vertical separation if outdoor unit is above indoor unit.
- 3) *19.05 mm [3/4 in.] vapor line should only be used for 1.5 ton systems if outdoor unit is below or at same level as indoor to assure proper oil return.
- 4) Always use the smallest liquid line allowable to minimize refrigerant charge.
- 5) Applications shaded in light gray indicate capacity multipliers between 0.90 and 0.96 which are not recommended, but are allowed.
- 6) Applications shaded in dark gray are not recommended due to excessive liquid or suction pressure drop.



Performance Data @ AHRI Standard Conditions—Cooling

Designated Tested Combinations							
Outdoor Unit	Indoor Coil	Total Capacity BTU/H [kW]	Net Sensible BTU/H [kW]	Net Latent BTU/H [kW]	SEER	EER	Indoor CFM [L/s]
DRAC16A30AJ	DRAEF3617STA + RXMD-C04	27800 [8.1]	20200 [5.9]	7600 [2.2]	14.00	12.20	975 [460.1]
DRAC16A36AJ	DRAEF3621STA + RXMD-C04	35400 [10.4]	25700 [7.5]	9700 [2.8]	14.00	12.20	1125 [530.9]
DRAC16A42BJ	DRAEF4821MTA + RXMD-C04	40000 [11.7]	30800 [9.0]	9200 [2.9]	14.00	12.20	1350 [637.1]

NOTE: Additional ratings and system match ups and downloadable ratings certificates can be accessed from the AHRI website: www.ahrirectory.org

[] Designates Metric Conversions



GENERAL TERMS OF LIMITED WARRANTY*

Durastar will furnish a replacement for any part of this product which fails in normal use and service within the applicable period stated, in accordance with the terms of the limited warranty.

Parts.....Five (5) Years

***For complete details of the Limited and Conditional Warranties, including applicable terms and conditions, contact your local contractor or the Manufacturer for a copy of the product warranty certificate.**

Before proceeding with installation, refer to installation instructions packaged with each model, as well as complying with all Federal, State, Provincial, and Local codes, regulations, and practices.



"In keeping with its policy of continuous progress and product improvement, Durastar reserves the right to make changes without notice."