Dual Circuit Air-Cooled Scroll Condensing Units—15 to 140 Tons

- **Efficient—Up to 12.1 EER at full load**
- **Reliable—Scroll compressors have fewer moving parts; two circuits on all size units provide backup cooling**
- **Optional low ambient operation range down to 0°F**
- **R-410A refrigerant**

For more detail, refer to Catalog 222. For the most current information, refer to www.mcquay.com.

Model RCS air-cooled scroll condensing unit—15 to 140 tons with R-410A

Air Cooled Scroll Condensing Units, Dual Circuit—Physical Data

RCS 015D through 030D, R-410A

Physical data	RCS model number			
	015D	020D	025D	030D
Basic data				
Number of refrigeration circuits	2	2	2	2
Unit operating charge (lb)[1] per circuit	7	7.5	8.5	10
Operating weight (lb)	1492	1577	1581	1986
Compressors				
Qty.- hp	2-7	2-4.5, 1-10	2-5.5, 1-11.5	2-6, 1-13
Capacity control	100-50	100-78-55-22	100-78-55-22	100-78-55-22
Condenser Fans				
Qty. - diameter	2 - 26"	2 - 26"	2 - 26"	4 - 26"
Qty. - hp	2 - 1.0	2 - 1.0	2 - 1.0	4 - 1.0

1. Unit shipped with dry nitrogen holding charge.

RCS 035D through 050D, R-410A

Physical data	RCS model number			
	035D	040D	045D	050D
Basic data				
Number of refrigeration circuits	2	2	2	2
Unit operating charge (lb)[1] per circuit	10.5	11	12.5	22
Operating weight (lb)	2203	2229	2305	2425
Compressors				
Qty.- hp	4 - 7.5	4 - 8.5	4 - 10	4-11.5
Capacity control	100-75-50-25	100-75-50-25	100-75-50-25	100-75-50-25-0
Condenser Fans				
Qty. - diameter	4 - 26"	4 - 26"	4 - 26"	4 - 26"
Qty. - hp	4 - 1.0	4 - 1.0	4 - 1.0	4 - 1.0

1. Unit shipped with dry nitrogen holding charge.

RCS 060D through 075D, R-410A

Physical data	RCS model number			
	060D	062D	070D	075D
Basic data				
Number of refrigeration circuits	2	2	2	2
Unit operating charge (lb)[1] per circuit	23	23	26	27
Operating weight (lb)	2469	2552	3296	3377
Compressors				
Qty.- hp	4 - 13	4 - 13	6 - 10	6 - 11.5
Std. capacity control	100-75-50-25-0	100-75-50-25-0	100-83-67-50-33-17-0	100-83-67-50-33-17-0
Condenser Fans				
Qty. - diameter	4 - 26"	6 - 26"	6 - 26"	8 - 26"
Qty. - hp	4 - 1.0	6 - 1.0	6 - 1.0	8 - 1.0

1. Unit shipped with dry nitrogen holding charge.

RCS 080D through 110D, R-410A

Physical data	RCS model number			
	080D	090D	100D	110D
Basic data				
Number of refrigeration circuits	2	2	2	2
Unit operating charge (lb)[1] per circuit	30	31	32	44
Operating weight (lb)	3603	3708	3764	4277
Compressors				
Qty.- hp	6 - 11.5	6 - 13	3 - 10 3 - 15	6 - 15
Std. capacity control	100-83-67-50-33-17-0	100-83-67-50-33-17-0	100-83-67-50-33-17-0	100-84-67-50-33-17-0
Condenser Fans				
Qty. - diameter	6 - 26"	8 - 26"	9 - 26"	8 - 26"
Qty. - hp	6 - 1.0	8 - 1.0	9 - 1.0	8 - 1.0

1. Unit shipped with dry nitrogen holding charge.

RCS 120D through 140D, R-410A

Physical data	RCS model number		
	120D	125D	140D
Basic data			
Number of refrigeration circuits	2	2	2
Unit operating charge (lb)[1] per circuit	45	46	47
Operating weight (lb)	4858	5439	5619
Compressors			
Qty.- hp	3 - 15 3 - 20	6 - 20	3 - 20 3 - 25
Std. capacity control	100-83-67-49-33-16-0	100-84-67-50-33-17-0	100-83-67-49-33-16-0
Condenser Fans			
Qty. - diameter	9 - 26"	10 - 26"	12 - 26"
Qty. - hp	9 - 1.0	10 - 1.0	12 - 1.0

1. Unit shipped with dry nitrogen holding charge.

Compressor Rated Load Amps

Unit Size	Voltage	Compressor					
		#1 RLA	#2 RLA	#3 RLA	#4 RLA	#5 RLA	#6 RLA
015D	208	27.6	27.6	—	—	—	—
	230	25.0	25.0	—	—	—	—
	460	12.2	12.2	—	—	—	—
	575	9.4	9.4	—	—	—	—
020D	208	20.1	20.1	42.2	—	—	—
	230	18.1	18.1	38.2	—	—	—
	460	9.0	9.0	19.2	—	—	—
	575	6.8	6.8	13.9	—	—	—
025D	208	24.8	24.8	53.2	—	—	—
	230	23.2	23.2	51.3	—	—	—
	460	11.2	11.2	23.1	—	—	—
	575	8.2	8.2	19.9	—	—	—
030D	208	25.7	25.7	56.7	—	—	—
	230	23.2	23.2	51.3	—	—	—
	460	11.2	11.2	23.1	—	—	—
	575	8.2	8.2	19.9	—	—	—
035D	208	32.6	32.6	32.6	32.6	—	—
	230	29.5	29.5	29.5	29.5	—	—
	460	14.7	14.7	14.7	14.7	—	—
	575	12.2	12.2	12.2	12.2	—	—
040D	208	33.7	33.7	33.7	33.7	—	—
	230	30.5	30.5	30.5	30.5	—	—
	460	16.7	16.7	16.7	16.7	—	—
	575	12.2	12.2	12.2	12.2	—	—
045D	208	42.2	42.2	42.2	42.2	—	—
	230	38.2	38.2	38.2	38.2	—	—
	460	19.2	19.2	19.2	19.2	—	—
	575	13.9	13.9	13.9	13.9	—	—
050D	208	53.2	42.2	53.2	42.2	—	—
	230	48.1	38.2	48.1	38.2	—	—
	460	19.2	19.2	19.2	19.2	—	—
	575	16.0	13.9	16.0	13.9	—	—

Compressor Rated Load Amps

Unit Size	Voltage	Compressor					
		#1 RLA	#2 RLA	#3 RLA	#4 RLA	#5 RLA	#6 RLA
060D	208	56.7	56.7	56.7	56.7	—	—
	230	51.3	51.3	51.3	51.3	—	—
	460	23.1	23.1	23.1	23.1	—	—
	575	19.9	19.9	19.9	19.9	—	—
062D	208	56.7	56.7	56.7	56.7	—	—
	230	51.3	51.3	51.3	51.3	—	—
	460	23.1	23.1	23.1	23.1	—	—
	575	19.9	19.9	19.9	19.9	—	—
070D	208	42.2	42.2	42.2	42.2	42.2	42.2
	230	38.2	38.2	38.2	38.2	38.2	38.2
	460	19.2	19.2	19.2	19.2	19.2	19.2
	575	13.9	13.9	13.9	13.9	13.9	13.9
075D	208	56.7	53.2	56.7	53.2	56.7	53.2
	230	51.3	48.1	51.3	48.1	51.3	48.1
	460	23.1	19.2	23.1	19.2	23.1	19.2
	575	19.9	16.0	19.9	16.0	19.9	16.0
080D	208	53.2	53.2	53.2	53.2	53.2	53.2
	230	48.1	48.1	48.1	48.1	48.1	48.1
	460	19.2	19.2	19.2	19.2	19.2	19.2
	575	16.0	16.0	16.0	16.0	16.0	16.0
090D	208	56.7	56.7	56.7	56.7	56.7	56.7
	230	51.3	51.3	51.3	51.3	51.3	51.3
	460	23.1	23.1	23.1	23.1	23.1	23.1
	575	19.9	19.9	19.9	19.9	19.9	19.9
100D	208	63.9	56.7	63.9	56.7	63.9	56.7
	230	57.8	51.3	57.8	51.3	57.8	51.3
	460	29.0	23.1	29.0	23.1	29.0	23.1
	575	23.7	19.9	23.7	19.9	23.7	19.9
110D	208	63.9	63.9	63.9	63.9	63.9	63.9
	230	57.8	57.8	57.8	57.8	57.8	57.8
	460	29.0	29.0	29.0	29.0	29.0	29.0
	575	23.7	23.7	23.7	23.7	23.7	23.7
120D	208	84.3	63.9	84.3	63.9	84.3	63.9
	230	76.3	57.8	76.3	57.8	76.3	57.8
	460	34.8	29.0	34.8	29.0	34.8	29.0
	575	28.4	23.7	28.4	23.7	28.4	23.7
125D	208	84.3	84.3	84.3	84.3	84.3	84.3
	230	76.3	76.3	76.3	76.3	76.3	76.3
	460	34.8	34.8	34.8	34.8	34.8	34.8
	575	28.4	28.4	28.4	28.4	28.4	28.4
140D	208	99.6	84.3	99.6	84.3	99.6	84.3
	230	90.1	76.3	90.1	76.3	90.1	76.3
	460	45.1	34.8	45.1	34.8	45.1	34.8
	575	34.7	28.4	34.7	28.4	34.7	28.4