

*Air Cooled
Condensing Units
Featuring Copeland
Glacier™ Scroll
Compressors
7 To 13 H.P., R-404A/507*

Publication No. 515.0— July, 2000



RUSSELL offers it's line of 7 to 13 H.P. air cooled condensing units featuring Copeland's Glacier™ Scroll compressors. These condensing units are lighter in weight and very reliable when compared to similar designs using reciprocating compressors. Because of their heavy duty construction and the use of scroll compressors, the noise generated by the condensing units is greatly reduced. For smaller 2 to 6 H.P. scroll condensing units, see Russell's Minicon Publication number 505.



Scroll Condensing Units

D-Series Units

Performance @ 95°F Ambient[†]

MEDIUM TEMP.

CAPACITY (BTUH) AT SUCTION TEMPERATURE (°F)

MODEL	40°	35°	30°	25°	20°	10°	0°	-10°	-20°
D*O7M44	73630	67720	62150	56900	51960	43010	35230	28540	22810
D*O8M44	87880	80920	74330	68110	62250	51590	42250	34120	27080
D*O10M44	117800	110160	102440	94700	87040	72230	58630	46930	37930
D*O13M44	141930	131510	121500	111920	102780	85850	70770	57530	46100

PHYSICAL DATA	Compressor	Nominal Horsepower	Dimensions (in.)			Ship WT. (LBS)		Receiver cap. @ 90% (LBS)	Connections (ODS)	
			L	W	H	Outdoor	Indoor		liquid	Suction
D*O7M44	ZS45K4E	7	68	48	37-1/4	870	510	52	5/8	1-1/8
D*O8M44	ZS56K4E	8	68	48	37-1/4	1010	650	52	5/8	1-1/8
D*O10M44	ZS75K4E	10	68	48	37-1/4	1170	810	52	5/8	1-3/8
D*O13M44	ZS92K4E	13	68	48	37-1/4	1175	815	52	7/8	1-5/8

ELECT. DATA	230/3/60					460/3/60				
	Compressor		Condenser Fla	TOTAL UNIT	Cond. Unit MCA	Compressor		Condenser Fla	TOTAL UNIT	Cond. Unit MCA
	RLA	LRA				RLA	LRA			
D*O7M44	23.9	156	6.4	31.3	38	9.3	70	4.2	14	15
D*O8M44	30.9	189	6.4	38.3	47	16.2	94	4.2	20.9	25
D*O10M44	44.9	278	8.4	54.3	66	21.7	127	4.2	26.4	32
D*O13M44	52.9	350	8.4	62.3	76	26.5	175	4.2	31.2	38

LOW TEMP.

CAPACITY (BTUH) AT SUCTION TEMPERATURE (°F)

MODEL	0°	-10°	-15°	-20°	-25°	-30°	-40°
D*O8L44	39460	32510	29430	26350	23550	20920	16160
D*O10L44	58950	48170	43440	38700	34420	30430	23230
D*O13L44	71400	58400	52750	47110	42050	37350	28950

† - For 90°F ambient, multiply capacity by 1.03 correction factor. For 100°F ambient multiply capacity by 0.96, 0.93 for 105°F and 0.9 for 110°F ambient conditions.

PHYSICAL DATA	Compressor	Nominal Horsepower	Dimensions (in.)			Ship WT. (LBS)		Receiver cap. @ 90% (LBS)	Connections (ODS)	
			L	W	H	Outdoor	Indoor		liquid	Suction
D*O8L44	ZF24K4E	8	68	48	37-1/4	985	615	52	1/2	1-3/8
D*O10L44	ZF33K4E	10	68	48	37-1/4	1105	735	52	5/8	1-5/8
D*O13L44	ZF40K4E	13	68	48	37-1/4	1125	755	52	5/8	1-5/8

ELECT. DATA	230/3/60					460/3/60				
	Compressor		Condenser Fla	TOTAL UNIT	Cond. Unit MCA	Compressor		Condenser Fla	TOTAL UNIT	Cond. Unit MCA
	RLA	LRA				RLA	LRA			
D*O8L44	23.9	189	6.4	31.3	38	11.8	94	4.2	16.5	20
D*O10L44	31.0	278	6.4	38.4	47	15.1	127	4.2	19.8	24
D*O13L44	52.9	350	6.4	60.3	74	26.5	212	4.2	31.2	38

NOMENCLATURE: Replace * with **C** to indicate outdoor unit with no head pressure control, **L** for flooded head pressure control, **S** for Russaver model or **E** for indoor model.

