

MCW and SCW Chiller R-22 Compressor Electrical Specifications

Dometic Corporation - Marine Air Systems

Model ⁽¹⁾		Electrical Data ⁽²⁾							Compressor Data	
Tons	Type	Volt/Hz/Ph	FLA Cool	FLA RC	LRA	KVA Cool	KVA RC	MCC	Comp Ref #	Compressor Model Number
2	Scroll	220/50/1	7.5	10.4	56.0	1.7	2.3	18.0	335462	ZR28K3-PFJ-130
2	Scroll	220/50/3	8.1	9.3	70.0	3.1	3.5	15.0	334367	ZR30K3-TF5-130
2	Scroll	230/60/1	7.2	9.8	59.0	1.7	2.3	18.5	334369	ZR24KC-PFV-130
2	Scroll	230/60/3	5.3	6.9	55.0	2.1	2.7	12.0	334374	ZR24K3-TF5-130
2	Scroll	380/50/3	3.2	4.2	30.0	2.1	2.8	7.0	334366	ZR30K3-TFD-130
2	Scroll	460/60/3	2.5	3.2	22.4	2.0	2.5	5.5	334811	ZR22K3-TFD-130
2	Recip	220/50/1	9.6	11.8	65.0	2.1	2.6	19.5	335681	H23B28QABHA
2	Recip	220/50/3	6.6	8.2	60.0	2.5	3.1	14.0	334848	703826-1000-00/CIP
2	Recip	230/60/1	8.2	10.9	66.0	1.9	2.5	20.2	334844	703818-1000-02/CIP
2	Recip	230/60/3	6.0	7.4	48.0	2.4	2.9	13.0	334845	703893-1000-00/CIP
2	Recip	380/50/3	3.2	4.1	30.0	2.1	2.7	7.5	334849	703830-1000-00/CIP
2	Recip	460/60/3	3.0	3.7	30.0	2.4	2.9	6.0	334846	703903-1000-01/CIP
3	Scroll	220/50/1	11.1	15.2	97.0	2.4	3.3	24.0	335724	ZR42K3-PFJ-130
3	Scroll	220/50/3	8.5	10.6	95.0	3.2	4.0	19.4	334813	ZR42K3-TF5-130
3	Scroll	230/60/1	12.1	15.9	100.0	2.8	3.7	25.0	334296	ZR36KC-PFV-130
3	Scroll	230/60/3	7.6	9.7	77.0	3.0	3.9	16.0	334365	ZR36K3-TF5-130
3	Scroll	380/50/3	4.4	5.5	41.0	2.9	3.6	10.0	334812	ZR42K3-TFD-130
3	Scroll	460/60/3	3.8	4.9	39.0	3.0	3.9	8.0	334364	ZR36K3-TFD-130
3	Recip	220/50/1	15.5	18.7	100.0	3.4	4.1	33.0	335683	703853-1000-03
3	Recip	220/50/3	10.2	12.8	90.0	3.9	4.9	24.0	334854	703054-1000-02/CIP
3	Recip	230/60/1	12.5	15.9	87.0	2.9	3.7	27.5	334850	703022-1000-03/CIP
3	Recip	230/60/3	7.8	9.6	70.0	3.1	3.8	18.0	334852	703141-1000-01/CIP
3	Recip	380/50/3	5.1	6.4	45.0	3.4	4.2	13.0	334853	703097-1000-02/CIP
3	Recip	460/60/3	3.9	4.8	35.0	3.1	3.8	8.3	334851	703164-1000-00/CIP
4	Scroll	220/50/1	15.4	21.7	150.0	3.4	4.8	40.0	335803	ZR61KC-PFZ-501
4	Scroll	220/50/3	12.3	15.0	139.0	4.7	5.7	29.0	334808	ZR61KC-TF5-130
4	Scroll	230/60/1	13.7	19.5	137.0	3.2	4.5	31.0	334360	ZR48K3-PFV-135
4	Scroll	230/60/3	9.9	12.7	91.0	3.9	5.1	23.0	334806	ZR48KC-TF5-135
4	Scroll	380/50/3	7.1	8.7	58.6	4.7	5.7	14.0	334807	ZR61KC-TFD-130
4	Scroll	460/60/3	5.5	6.5	50.0	4.4	5.2	11.0	334805	ZR48KC-TFD-135
4	Recip	220/50/3	12.3	15.1	106.0	4.7	5.8	25.0	334856	703029-1795-00/CIP
4	Recip	230/60/1	17.1	21.4	118.0	3.9	4.9	36.4	334760	703025-1000-02
4	Recip	230/60/3	10.0	12.6	90.0	4.0	5.0	24.0	334854	703054-1000-02/CIP
4	Recip	380/50/3	5.9	7.2	53.0	3.9	4.7	12.5	334759	703030-1000-01/CIP
4	Recip	460/60/3	5.0	6.3	45.0	4.0	5.0	13.0	334853	703097-1000-02/CIP
5	Scroll	220/50/1	Use 230/60/3 Compressor w/Freq Drive							N/A
5	Scroll	220/50/3	12.5	18.4	172.0	4.8	7.0	29.0	334809	ZR72KC-TF5-130
5	Scroll	230/60/1	18.2	25.3	169.0	4.2	5.8	45.0	333228	ZB38KA-PFV-250
5	Scroll	230/60/3	13.3	16.7	128.0	5.3	6.7	29.0	334808	ZR61KC-TF5-130
5	Scroll	380/50/3	6.8	8.9	67.0	4.5	5.9	14.0	334810	ZR72KC-TFD-130
5	Scroll	460/60/3	6.7	8.4	63.0	5.3	6.7	14.0	334807	ZR61KC-TFD-130
5	Recip	230/60/1	22.8	28.1	178.0	5.2	6.5	47.0	334857	703037-1000-01/CIP
5	Recip	230/60/3	14.0	17.0	124.0	5.6	6.8	32.0	334859	703038-1000-02/CIP
5	Recip	460/60/3	7.0	8.5	62.0	5.6	6.8	16.0	334858	703039-1000-01/CIP
6	Scroll	220/50/3	17.2	20.7	196.0	6.6	7.9	40.0	334819	ZR84KC-TF5-250
6	Scroll	230/60/3	14.0	18.4	156.0	5.6	7.3	29.0	334809	ZR72KC-TF5-130
6	Scroll	380/50/3	9.4	11.4	90.0	6.2	7.5	20.0	334818	ZR84KC-TFD-250
6	Scroll	460/60/3	7.0	9.2	75.0	5.6	7.3	14.0	334810	ZR72KC-TFD-130

In the interest of product improvement, the specifications and design as outlined herein are subject to change without prior notice.

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Model ⁽¹⁾		Electrical Data ⁽²⁾							Compressor Data	
Tons	Type	Volt/Hz/Ph	FLA Cool	FLA RC	LRA	KVA Cool	KVA RC	MCC	Comp Ref #	Compressor Model Number
7.5	Scroll	220/50/3	18.4	23.3	231	7.0	8.9	47	334820	ZR108KC-TF5-250
7.5	Scroll	230/60/3	20.2	25.6	195	8.0	10.2	45	333027	ZR94KC-TF5-250
7.5	Scroll	380/50/3	10.9	13.7	100	7.2	9.0	24.2	334474	ZR108KC-TFD-250
7.5	Scroll	460/60/3	10.0	12.6	95	8.0	10.0	23	333028	ZR94KC-TFD-250
10	Scroll	220/50/3	24.0	30.9	273	9.1	11.8	64	334767	ZR144KC-TF5-250
10	Scroll	230/60/3	25.6	32.5	239	10.2	12.9	58	333276	ZR125KC-TF5-250
10	Scroll	380/50/3	13.9	17.9	110	9.1	11.8	27.5	334692	ZR144KC-TFD-250
10	Scroll	460/60/3	12.9	16.3	125	10.3	13.0	26.9	333277	ZR125KC-TFD-250
12.5	Scroll	220/50/3	33.2	42.9	315	12.7	16.3	70.9	N/A	N/A
12.5	Scroll	230/60/3	28.0	36.6	245	11.2	14.6	66	334767	ZR144KC-TF5-250
12.5	Scroll	380/50/3	19.2	24.8	179	12.6	16.3	37	334462	ZR19M3-TWD-522
12.5	Scroll	460/60/3	14.0	18.3	125	11.2	14.6	27.5	334692	ZR144KC-TFD-250
15 ⁽³⁾	Scroll	230/60/3	36.4	47.2	425	14.5	18.8	75	334594	ZR19M3-TWC-522
15 ⁽³⁾	Scroll	380/60/3	22.0	28.6	239	14.5	18.8	51	334977	ZR19M3-TW7-522
15	Scroll	460/60/3	18.2	23.6	187	14.5	18.8	37	334462	ZR19M3-TWD-522

⁽¹⁾ Cooling capacity is given at performance ratings of 100F (38C) condensing temperature and 35F (2C) evaporating temperature. Reverse cycle heating capacity is given at performance ratings of 130F (54C) condensing temperature and 45F (7C) evaporating temperature.

⁽²⁾ Compressor electrical data are rated at Volt/Hz/Ph listed, but are nominally rated for the following operation conditions:
 230/60/1 compressors are rated for 208-230/60/1 operation
 220/50/1 compressors are rated for 220-240/50/1 operation
 230/60/3 compressors are rated for 208-230/60/3 operation
 220/50/3 compressors are rated for 200-220/50/3 operation
 380/50/3 compressors are rated for 380-420/50/3 operation

Although compressors are rated for a certain voltage at a given frequency, they can usually be run at +/-10% of the rated voltage, here are the exceptions:

Comp; VAC; Freq; Phase; +/- Rule; VAC Range
 Scroll; 208-230; 60Hz; 1Ph; -5/+10%; 198-253
 Scroll; 220-240; 50Hz; 1Ph; -5/+10%; 209-264

For more information regarding compressor voltages, refer to field notice FNR#192-B3-M on the Dometic Customer News Website.

⁽³⁾ The 15-ton 230V & 380V compressors are 60hz and require the use of frequency drives to run on 50hz power. Increase 230V amps by 5% for 220V operation.

NOTE: Compressor power factors are not listed. Please contact the Applications Department for further information.