

Refrigeracion Verde

Industrial Refrigeration , Air Conditioning and Ventilation
Design and Manufacture of Engineered Equipment and Systems

Refrigeracion Verde S.A.S.

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WATER CHILLERS WITH BITZER OPEN SCREW COMPRESSOR , 134A AND 407C REFRIGERANTS

- Open compressors allow for reliable and robust industrial class refrigeration equipment
- The System is not contaminated in the event of burning the Motor , Standard Motor easy to replace or repair
- Water Chiller with Compressor Capacity Control according to Water Temperature (Variable Speed option)
- Heat Recovery, the best option when Hot Water is additionally required in Hospitals and Hotels
- Electrical Motor IP 55 , FS 1.15 , Premium IE 3 3600 RPM (60 Hz)

Water Chiller conditions as per ANSI / AHRI STD 551-591 2020 , Water Entering / Leaving Temperature 12°C / 7°C

The Data in the following Table are without Economizer and Oil Cooling is done in an External Heat Exchanger at maximum 60°C . Maximum Discharge Temperature 80°C

COMPRESSOR 3500 RPM		AIR COOLED , R134A SST 2°C , SH 10°K / SDT 50°C , SC 10°K AIR CONDENSER ENTERING 35°C						AIR COOLED , R407C SST 2°C , SH 10°K / SDT 50°C , SC 10°K AIR CONDENSER ENTERING 35°C					
MODEL	M3/H	KW _R 100%	KW _M	MOTOR POWER KW / SIZE	OIL LOAD KW	OIL FLOW M3/H	HEAT REJEC KW	KW _R 100%	KW _M	MOTOR POWER KW / SIZE	OIL LOAD KW	OIL FLOW M3/H	HEAT REJEC KW
OSK5341-K	101	56.3	17.12	22 / 160L	-	0.80	73.5	81.0	26.1	37 / 225M	4.52	0.97	102.6
OSK5351-K	121	68.7	19.96	30 / 200L	-	0.80	88.7	97.7	31.3	37 / 225M	5.32	0.97	123.7
OSK5361-K	142	81.4	23.7	30 / 200L	-	0.80	105.1	115.6	35.7	45 / 225M	4.97	0.97	146.4
OSK7441-K	199	118.1	35.2	45 / 225M	-	1.52	153.3	164.0	56.8	75 / 250M	13.11	1.85	208
OSK7451-K	232	142.2	41.4	55 / 250M	-	1.52	183.6	205	62.3	75 / 250M	7.71	1.85	260
OSK7461-K	266	164.2	46.0	55 / 250M	-	1.52	210	238	69.0	90 / 280M	5.65	1.85	301
OSK7471-K	302	178.7	49.8	75 / 250M	-	1.52	228	261	74.7	90 / 280M	5.28	1.85	330
OSK8551-K	380	220	65.7	90 / 280M	-	2.62	286	325	97.3	150 / 315M	10.78	3.20	412
OSK8561-K	433	253	72.9	90 / 280M	-	2.55	326	371	111.4	150 / 315M	12.74	3.10	469
OSK8571-K	495	294	81.3	110 / 280M	-	2.18	376	426	125.7	150 / 315M	12.40	2.66	539
OSK8581-K	567	323	92.7	110 / 280M	-	2.75	416	483	141.2	-	12.84	3.36	611
OSK8591-K	646	372	105.5	150 / 315M	-	2.75	477	550	159.2	-	12.84	3.36	697

COMPRESSOR 3500 RPM		WATER COOLED , R134 SST 2°C , SH 10°K / SDT 40°C , SC 5°K WATER CONDENSER ENTERING 30°C						WATER COOLED , R407C SST 2°C , SH 10°K / SDT 40°C , SC 5°K WATER CONDENSER ENTERING 30°C					
MODEL	M3/H	KW _R 100%	KW _M	MOTOR POWER KW / SIZE	OIL LOAD KW	OIL FLOW M3/H	HEAT REJEC KW	KW _R 100%	KW _M	MOTOR POWER KW / SIZE	OIL LOAD KW	OIL FLOW M3/H	HEAT REJEC KW
OSK5341-K	101	60.6	13.95	18.5 / 160L	-	0.67	74.6	90.2	21.9	30 / 200L	-	0.81	111.6
OSK5351-K	121	73.7	16.46	22 / 160L	-	0.67	90.2	107.9	25.8	37 / 225M	-	0.81	133.0
OSK5361-K	142	87.0	19.43	30 / 200L	-	0.67	106.5	126.6	29.7	37 / 225M	-	0.81	155.6
OSK7441-K	199	130.5	26.9	37 / 225M	-	1.27	157.4	183.3	43.8	55 / 250M	-	1.55	226
OSK7451-K	232	152.4	32.0	45 / 225M	-	1.27	184.4	225	48.1	75 / 250M	-	1.55	271
OSK7461-K	266	175.5	36.2	45 / 225M	-	1.27	212	258	55.2	75 / 250M	-	1.55	311
OSK7471-K	302	191.5	40.9	55 / 250M	-	1.27	232	283	61.4	75 / 250M	-	1.55	342
OSK8551-K	380	237	51.8	75 / 250M	-	2.19	289	351	78.6	110 / 280M	-	2.68	427
OSK8561-K	433	271	58.3	75 / 250M	-	2.13	329	400	90.3	110 / 280M	-	2.60	488
OSK8571-K	495	313	66.9	90 / 280M	-	1.83	380	457	102.4	150 / 315M	-	2.23	556
OSK8581-K	567	346	77.0	90 / 280M	-	2.30	423	521	116.6	150 / 315M	-	2.81	634
OSK8591-K	646	399	87.6	110 / 280M	-	2.30	486	595	131.9	185 / 315L	-	2.81	723

1 RT (12000 BTU/HR) = 3.5169 KW_R , 1 HP = 0.7457 KW_E

Water Chillers 134A & 407C , Bitzer Open Compressor , Rev.241101