KIRBY

Air conditioning
& Refrigeration Compressors

Design Features:

- Up to 4HP Single Phase, 13HP Three Phase.
- Designed for all popular refrigerants.
- Thacom rotary compressors.
- Modern, efficient, compact designs.
- Backed by Kirby's technical support.

New Releases -

WJ SERIES

- Convenient grouping of electrical terminals, suction valve and discharge connector tube for ease of installation and service.
- Mounting centres identical to AK and AJ compressors.
- No additional height required for electrical access - the WJ terminals are on the side of the housing.
- Quiet in operation, with optimum balance for minimum vibration.

AE18MG AE18LZ COMPRESSORS

- Extend the range of the very competitive AE design.
- Replace the 19cc AK models, and offer increased performance, at lower cost.
- Vertical copper tube connections, for ease of brazing and minimum overall dimensions.
- External overload, for ease of diagnosis.
- Both AE & WJ models available with pre-wired electrical box.

COMPRESSORS USING R134a (Also approved for R12 or suitable drop-in replacement)

Part No.	Nominal HP	Disp. (cc/rev)	Nominal 134a Capacity (Watts) -30	-25	-20	-15	-10	-5	0	5	10	RATING POINT -23.3	-6.7	7.2	Motor Type	Power Input (Watts) L	M	H	Connections (in.) Suction	Discharge	Oil Charge (cc)	Oil Type	Height (mm)	Net Wt (kg)	Replaces
AZ Domestic 220/240V 50Hz 1 Phase - Static Cooling																									
AZ22LY-1KS	1/20	2.23	23	31	42	64	93					37			RSIR	50			5/16 ST	1/4 ST	270	4	155	6.4	
AZ30LY-1KS	1/16	2.95	34	44	62	85	117					57			RSIR	65			5/16 ST	1/4 ST	270	4	155	6.4	AE1322A**
AZ33LY-1KS	1/12	3.28	54	73	94	126	168					67			RSIR	70			5/16 ST	1/4 ST	400	4	168	6.8	AE12Z7**
AZ36LY-1KS	1/10	3.59	57	78	101	134	179					79			RSIR	80			5/16 ST	1/4 ST	400	4	155	6.4	AE8ZA7**
AZ40LY-1KS	1/8	4.00	66	86	111	142	185					93			RSIR	94			5/16 ST	1/4 ST	300	4	155	6.4	AE6ZD7**
AZ56LY-1KS	1/6	5.59	83	108	140	182	238					116			RSIR	113			5/16 ST	1/4 ST	300	4	168	6.8	
AE Domestic 220/240V 50Hz 1 Phase - Static Cooling																									
AEV6LY-1KS	1/5	5.99	89	116	150	195	255					130			RSIR	127			5/16 ST	1/4 ST	296	4	189	9.4	AE5ZF9**
AEV7LY-1KS	1/5	6.91	108	140	182	236	309					158			RSIR	140			5/16 ST	1/4 ST	485	4	189	9.6	AE4ZF11**
AEV8LY-1KS	1/4	8.12	124	162	209	272	356					186			RSIR	160			5/16 ST	1/4 ST	485	4	189	9.8	AE4ZG12**
AE Domestic 220/240V 50Hz 1 Phase - Oil Cooler																									
AEV9LY-1KS	1/4	9.42	147	191	248	322	421					220			RSIR	200			5/16 ST	1/4 ST	485	4	189	10.2	AE1385A**
AE Commercial 240V 50Hz 1 Phase																									
AE5HY-1KS	1/6	4.48			95	130	173	225	283	360	440		205	455	RSIR		170	240	5/16 ST	1/4 ST	595	4	172	8.9	
AE6LMY-1KS	1/6	5.51	55	87	120	165	215	265	335	420		95	245		RSIR	150	190		5/16 ST	1/4 ST	595	4	189	9.0	
AE8LMY-1KS	1/5	7.55	85	130	182	240	310	400	500	615		135	330		RSIR	195	230		5/16 ST	1/4 ST	505	4	189	9.5	
AE9MHY-1KS	1/4	8.88			210	270	350	450	570	700	850		370	820	CSIR		195	410	5/16 ST	1/4 ST	505	4	189	9.5	
AE12LMY-1KS	1/4	12.1	150	220	300	390	480	590	730	910		255	525		CSIR	265	390		5/16 ST	1/4 ST	607	4	215	11.8	
AE14LMY-1KS	1/3	14.1	175	255	340	445	560	700	860	1030		270	645		CSIR	295	470		5/16 ST	1/4 ST	487	4	215	11.8	
AE16LMY-1KS	3/8	16.1	220	310	420	540	680	840	1030	1260		355	765		CSR	300	490		5/16 ST	1/4 ST	487	4	215	11.8	
AE18LZ-1KS	1/2	18.0	280	370	480	600	750	930	1140	1390		410	870		CSR	330	550		3/8 ST	1/4 ST	487	4	215	12.5	
WJ Commercial 220/240V 50Hz 1 Phase																									
WJ22LZ-1C	5/8	21.5			420	620	820	1110	1430	1810	2240		1010	1980	CSR		594	660	1/2 FV	3/8 ST	950	4	275	23.5	AKM22YS-1C
WJ26LZ-1C	3/4	26.7			510	730	1010	1370	1740	2220	2760		1250	2440	CSR		735	813	1/2 FV	3/8 ST	950	4	275	23.5	AKM26YS-1C
WJ31LZ-1C	1	30.5			580	830	1140	1560	2040	2590	3180		1420	2830	CSR		835	943	5/8 FV	3/8 ST	950	4	275	24.0	AJ33LZ-1C
AW Commercial 240V 50Hz 1 Phase																									
AW40LZ-1C	1	39.6			740	1090	1480	1970	2500	3050			1800				1000		5/8 FV	3/8 ST	950	4	305	27.0	
AW43LZ-5C	1	43.1			840	1240	1690	2240	2850	3480			2053		CSR		1120		5/8 FV	3/8 ST	950	4	305	27.0	
AW48MHY-3C	1 1/2	48.4			820	1210	1790	2410	3150	4130	5200		2200	4600	CSR		1240	1720	3/4 SV	1/2 SV	946	4	340	28.9	AH49MHY-1C
AW54LZ-1C***	1	53.1	510	860	1200	1690	2200	2830	3610	4500		980	2620		CSIR	820	1470		5/8 FV	9/16 ST	946	4	340	32.6	AH53LY-1C
AW Commercial 380/420V 50Hz 3 Phase																									
AW48MHY-2C	1	48.4			820	1210	1790	2410	3150	4130	5200		2200	4600	3 PH		1240	1720	5/8 FV	3/8 ST	950	4	340	28.9	AH49MHY-2C
AV Commercial 220/240V 50Hz 1 Phase																									
AV79MHY-1C	2	79.0			1180	1770	2530	3640	5000	6570	8320		3100	6800	CSR		1750	2750	7/8 SV	1/2 SV	1597	4	391	36.0	AH74MHY-1C
AV Commercial 380/420V 50Hz 3 Phase																									
AV79MHY-2C	2	79.0			1180	1770	2530	3640	5000	6570	8320		3100	6800	3 PH		1750	2750	7/8 SV	1/2 SV	1597	4	391	36.0	AH74MHY-2C

*** Use without run capacitor on LBP applications ** Provided that replacement compressor will use R12 or equivalent

COMPRESSORS USING R12 OR SUITABLE DROP-IN REPLACEMENT

Part No.	Nominal HP	Displ. (cc/rev)	Nominal Capacity Watts -23.3	-6.7	7.2	Motor Type	Power Input (Watts) L	M	H	Connections (in.) Suction	Discharge	Oil Charge (cc)	Oil Type	Height (mm)	Net Wt (kg)
AE Domestic 240V 50Hz 1 Phase - Oil Cooler															
AE5ZF9-30KS	1/5	7.5	152			RSIR	170			5/16 ST	1/4 ST	592	1	189	9.0
AE4ZF11-36KS	1/4	8.88	185			RSIR	210			5/16 ST	1/4 ST	510	1	189	9.5
AE4ZG12-35KS	1/4	10.2	220			RSIR	237			5/16 ST	1/4 ST	510	1	189	9.5
AE1385A-22KS	1/4	10.2	250			RSIR	275			5/16 ST	1/4 ST	510	1	189	9.5
AE1411A-7KS	1/4	14.14	338			RSIR	335			5/16 ST	1/4 ST	600	1	202	11.2
AE Commercial 240V 50Hz 1 Phase															
AE10LMA-1KS	1/4	10.25	250	480		CSIR	275	345		5/16 ST	1/4 ST	505	1	189	9.5

LOW TEMPERATURE COMMERCIAL COMPRESSORS USING R404A, R507 AND R407B

Part No.	Nominal HP	Displ. (cc/rev)	Nominal 404A Capacity (Watts) -35	-30	-25	-20	-15	-23.3	Motor Type	Power L	Connections (in.) Suction	Discharge	Oil Charge (cc)	Oil Type	Height (mm)	Net Wt (kg)	Replaces
AE Series 240V 50Hz 1 Phase																	
AE8MG-1KS	1/4	7.55	137	210	295	385	490	330	CSIR	330	5/16 ST	1/4 ST	487	4	202	10.0	
AE12LMY-1KS	1/3	12.1	190	310	440	585	745	490	CSIR	460	5/16 ST	1/4 ST	607	4	215	11.8	
AE16LMY-1KS	3/8	16.1	330	465	620	810	1025	690	CSR	610	5/16 ST	1/4 ST	487	4	215	11.8	
AE18LZ-1KS	1/2	18.0	400	550	720	930	1180	800	CSR	710	3/8 ST	1/4 ST	487	4	215	12.5	AKL19ZS-1C
WJ Series 220-240V 50Hz 1 Phase																	
WJ22LZ-1C	3/4	21.5	360	560	810	1130	1490	930	CSR	780	1/2 FV	5/16 ST	946	4	275	23.5	
WJ26LZ-1C	7/8	26.7	420	670	990	1390	1850	1140	CSR	920	1/2 FV	5/16 ST	946	4	275	23.5	AKL26ZS-1C
WJ31LZ-1C	1	30.5	530	820	1180	1610	2130	1360	CSR	1050	5/8 FV	5/16 ST	946	4	275	24.0	AJ33LZ-1C
AW Series 240V 50Hz 1 Phase																	
AW40LZ-1C	1	39.6	590	900	1325	1890	2590	1520	CSR	1120	5/8 FV	5/16 ST	946	4	305	32.6	AH40LZ-1C
AW43LZ-1C	1 1/4	43.1	680	1030	1540	2160	2890	1750	CSR	1200	5/8 FV	5/16 ST	946	4	305	32.6	
AW54LZ-1C	1 1/2	53.5	780	1250	1920	2760	3660	2210	CSR	1660	5/8 FV	5/16 ST	946	4	340	29.8	AH53LZ-3C
AV Series 380-420 50Hz 3 Phase																	
AVA2490ZXG	2	73.0	900	1600	2400	3350	4500	2720	3 PH	2090	7/8 SV	1/2 SV	1600	4	500	35.0	AH74LZ-4C

ZF Scroll Series 380-420/50Hz 3 Phase

Part No.	Nominal HP	Displ. (cc/rev)	Nominal R404A Capacity (Watts) -40	-30	-20	-10	0	7	-23.3	-6.7	Motor Type	Power Input L	M	Connections (in.) Suction	Discharge	Oil Charge (cc)	Oil Type	Height (mm)	Net Wt (kg)	Replaces
ZF09K4E-TFD-550	3	46.4	1200	1900	2800	4000	5600	7100	2530	4528	3 PH	2530	2800	7/8 SV	5/8 SV	1100	4	430	27	
ZF11K4E-TFD-550	3.5	57.5	1500	2300	3500	4900	7000	8900	3140	5593	3 PH	3080	3420	7/8 SV	5/8 SV	1100	4	440	28	
ZF13K4E-TFD-551	4	67.8	1700	2700	4000	5800	8200	10300	3610	6592	3 PH	3450	3850	7/8 SV	5/8 SV	1400	4	480	38	
ZF15K4E-TFD-551	5	83.3	2100	3300	4900	7000	10000	12700	4420	7990	3 PH	4150	4700	7/8 SV	5/8 SV	1700	4	480	39	
ZF18K4E-TFD-551	6	98.8	2500	4000	5900	8400	12000	15300	5330	9588	3 PH	4820	5630	7/8 SV	5/8 SV	1700	4	480	41	
ZF24K4E-TFD-551	7.5	125.9	3060	4900	7200	10300	14700	18500	6510	11752	3 PH	6380	7240	1 3/8 SV	3/4 SV	4000	4	560	93	
ZF33K4E-TFD-551	10	166.1	4350	6720	10300	14900	20800	25700	9226	16847	3 PH	9180	10630	1 3/8 SV	7/8 SV	4000	4	560	93	
ZF40K4E-TWD-551	13	204.6	5200	8300	12500	18000	25500	32200	10900	20300	3 PH	10680	12230	1 3/8S V	7/8 SV	4100	4	570	103	
ZF48K4E-TWD-551	15	TBA	6000	9600	14100	20700	29300	37000	12500	23300	3 PH	13130	15030	1 3/8 SV	7/8 SV	4100	4	570	115	

MEDIUM/HIGH TEMPERATURE COMMERCIAL COMPRESSORS USING R22, R404A, R507 AND R407C

Part No.	Nominal HP	Disp. (cc/rev)	Nominal R22 Capacity (Watts) -15	-10	-5	0	5	10	Rating Point -6.7	7.2	Motor Type	Power Input (Watts) M	H	Connections (in.) Suction	Discharge	Oil Charge (cc)	Oil Type	Height (mm)	Net Wt (kg)	Replaces
AE Series 240V 50Hz 1 Phase																				
AE5MHG-1KS	1/5	4.48	225	275	340	415	505	610	320	550	RSIR	230	310	5/16 ST	1/4 ST	487	4	189	9.0	
AE6MHG-1KS	1/4	5.51	270	325	400	490	590	705	375	640	CSIR	310	410	5/16 ST	1/4 ST	587	4	189	9.0	
AE8MG-1KS	1/4	7.55	360	465	580	720	870		540		CSIR	430		5/16 ST	1/4 ST	487	4	202	11.8	
AE9MG-1KS	1/3	8.88	460	565	705	860	1030		660		CSIR	520		5/16 ST	1/4 ST	487	4	202	11.8	
AE12MG-1KS	3/8	12.0	665	820	1020	1220	1440		950		CSR	545		5/16 ST	1/4 ST	487	4	215	11.8	
AE14MG-1KS	1/2	14.1	790	995	1230	1490	1800		1150		CSR	670		5/16 ST	1/4 ST	487	4	215	11.8	
AE16MG-1KS	3/4	16.2	880	1120	1390	1700	2060		1300		CSR	810		5/16 ST	1/4 ST	487	4	215	11.8	AJ18MG-1C
AE18MG-1KS	7/8	18.0	980	1230	1530	1870	2250		1420		CSR	900		3/8 ST	1/4 ST	487	4	215	12.5	AKM19ES-1C
WJ Series 220/240V 50Hz 1 Phase																				
WJ22MHG-1C	1	21.5	1180	1530	1920	2390	2920	3540	1780	3190	CSR	990	1220	1/2 FV	3/8 ST	950	4	275	23.5	AKM22ES-1C
WJ26MHG-1C	1 1/4	26.8	1520	1950	2430	2960	3540	4170	2260	3810	CSR	1290	1580	1/2 FV	3/8 ST	950	4	275	23.5	AKM26ES-1C
WJ31MHG-1C	1 1/2	30.5	1650	2130	2680	3300	4000	4770	2480	4330	CSR	1470	1840	5/8 FV	3/8 ST	950	4	275	24.0	AJ33MG-1C
AW Series 220/240V 50Hz 1 Phase																				
AW38MG-1C	1 1/2	37.5	1685	2239	2860	3620	4519		2650		CSR	1600		5/8 FV	3/8 ST	950	4	310	28.2	
AW43MHG-1C	2	43.1	2097	2799	3600	4469	5490	6760	3330	6050	CSR	1670	2100	5/8 FV	3/8 ST	950	4	340	28.2	AH43MHG-1C
AW48MHG-1C	2 1/4	48.4	2360	3150	3980	4990	6210	7717	3700	6870	CSR	2030	2440	5/8 FV	3/8 ST	950	4	340	29.8	AH49MHG-1C
AW54MHG-1C	2 1/2	53.5	2612	3540	4508	5710	7109	8710	4180	7810	CSR	2290	2770	5/8 FV	3/8 ST	950	4	340	29.8	
AW Series 380/420V 50Hz 3 Phase																				
AW43MHG-2C	2	43.1	2097	2799	3600	4469	5490	6760	3330	6050	3 PH	1700	2150	5/8 FV	3/8 ST	950	4	340	28.2	AH43MHG-2C
AW48MHG-2C	2 1/4	48.4	2360	3150	3980	4990	6210	7717	3700	6870	3 PH	2090	2500	5/8 FV	3/8 ST	950	4	340	29.8	AH49MHG-2C
AW54MHG-2C	2 1/2	53.5	2612	3540	4508	5710	7109	8710	4180	7810	3 PH	2290	2770	5/8 FV	3/8 ST	950	4	340	29.8	
AV Series 380/420V 50Hz 3 Phase																				
AV67MHG-2C	2 3/4	67.0	2500	3660	5000	6570	8360	10370	4480	9250	3 PH	2520	3015	7/8 SV	1/2 SV	1600	4	500	37.7	AH66MHG-2C
AV73MHG-2C	3	73.3	2920	4170	5560	7340	9200	11340	5070	9880	3 PH	2750	3505	7/8 SV	1/2 SV	1600	4	500	37.7	AH5533G-2C
AV91MHG-2C	4 1/2	91.0	4260	5750	7500	9740	12000	14470	6890	12800	3 PH	3420	4400	7/8 SV	1/2 SV	1600	4	500	40.0	
AV92MHG-2C	5	91.0	4440	5930	7700	9990	12350	14990	7080	13200	3 PH	3460	4320	7/8 SV	1/2 SV	1600	4	500	40.0	
AG Series 380/420V 50Hz 3 Phase																				
AG125MHG-2C	5 3/4	125.0	4750	6450	8650	11370	14600	18340	7900	16240	3 PH	4360	5970	7/8 SV	1/2 SV	2000	4	580	52.3	
AG135MHG-2C	6	135.0	5140	6970	9350	12290	15780	19830	8540	17560	3 PH	4590	6290	7/8 SV	1/2 SV	2000	4	580	47.7	
COMMERCIAL COMPRESSORS USING R22 ONLY																				
ZR Series 220/240 50HZ 1 Phase																				
ZR28K3PFJ522-C	2 1/3	39.2	2160	3060	4030	5110	6290	7610	3690	6970	PSC	2190	2190	3/4 ST	1/2 ST	1000	3	385	27.3	
ZR34K3PFJ522-C	2 7/8	46.1	2540	3560	4790	6110	7550	9120	4360	8260	PSC	2680	2530	3/4 ST	1/2 ST	1120	3	410	29.5	
ZR36K3PFJ522-C	3	49.5	2830	3960	5200	6570	8080	9770	4770	8850	PSC	2900	2720	3/4 ST	1/2 ST	1120	3	410	29.5	
ZR47K3PFJ522-C	3 7/8	64.1	4620	5830	7220	8810	10640	12730	6720	11500	PSC	3580	3500	7/8 ST	1/2 ST	1120	3	440	30.5	
ZR68KCPFJ522-C	5 3/4	93.0	6880	8480	10450	12780	15350	18220	9780	16800	PSC	5400	5120	7/8 ST	1/2 ST	1660	3	460	41.8	
ZR Series 380/420 50Hz 3 Phase																				
ZR54KCTFD522-C	4 1/2	73.2	4900	6350	7990	9820	11800	14100	7430	13000	3 PH	4110	4020	7/8 ST	1/2 ST	1830	3	460	35.5	
ZR61KCTFD522-C	5	82.4	5680	7170	8910	10900	13120	15650	8320	14700	3 PH	4488	4420	7/8 ST	1/2 ST	1830	3	460	35.9	
ZR68KCTFD522-C	5 3/4	93.0	6670	8380	10250	12510	15060	17970	9610	16500	3 PH	5070	4960	7/8 ST	1/2 ST	1660	3	460	38.2	
ZR72KCTFD522-C	6	98.0	7300	9000	11110	13480	16160	19180	10390	17800	3 PH	5304	5260	7/8 ST	1/2 ST	1660	3	460	38.2	
ZR81KCTFD522-C	6 3/4	110.6	7990	9900	12260	15050	18240	21770	11460	19800	3 PH	5902	5820	7/8 ST	1/2 ST	1660	3	465	40.0	
ZR94KCTFD523-C	8	127.2	8630	11000	13900	17200	21000	25100	12900	23200	3 PH	7144	6880	1 1/8 SV	3/4 SV	2400	3	495	58.2	SFA5594EXG
ZR108KCTFD523-C	9	144.5	10900	13460	16500	20090	24100	28600	15470	26900	3 PH	7988	7890	1 1/8 SV	3/4 SV	3130	3	555	62.7	SFA5611EXG
ZR125KCTFD523-C	10	165.6	12530	15540	19060	23250	27900	33210	17860	31000	3 PH	9259	9110	1 1/8 SV	3/4 SV	3130	3	555	62.7	SFA5612EXG
ZR144KCTFD523-C	12	191.7	14130	17420	21460	26270	31590	37520	20080	34700	3 PH	10324	10180	1 1/8 SV	3/4 SV	3130	3	555	62.7	SFA5615EXG
ZR16M3TWD551-C	13	204.3	14990	18690	23290	28610	34400	40920	21720	37700	3 PH	11336	11180	1 3/8 SV	7/8 SV	4140	3	546	103.1	
ZR19M3TWD551-C	15	241.9	19100	23400	28600	34900	41800	49800	26800	45900	3 PH	13950	14030	1 5/8 SV	1 1/8 SV	4140	3	592	112.1	

Note: R404A rated capacities are very close to the R22 capacities shown.

AIR CONDITIONING COMPRESSORS USING R22

Part No.	Nominal HP	Disp. (cc/rev)	Nom.Capacity (Watts)	Motor Type	Input (Watts)	Connections (in.)		Oil Charge (cc)	Oil Type*	Height (mm)	Net Wt. (kg)	Replaces
						Suction	Discharge					
AE Series 240V 50Hz 1 Phase												
AE5462G-1KS	3/4	14.14	1800	PSC	812	3/8 ST	1/4 ST	385	4	215	12	
AK Series 220/240V 50Hz 1 Phase												
AKA5510EXC	7/8	18.8	2440	PSC	1015	3/8 ST	1/4 ST	503	1 or 2	247	18	AJ5483E-1C
AKA5512EXC	1	22.3	2930	PSC	1175	3/8 ST	1/4 ST	503	1 or 2	247	18	AJ5510E-1C
AJ Series 220/240V 50HZ 1 Phase												
AJB5515EXC	1 1/4	26.1	3670	PSC	1610	1/2 ST	5/16 ST	768	1 or 2	272	23	AJ5513G-1C
AJA5518EXC	1 1/2	32.7	4510	PSC	1980	1/2 ST	5/16 ST	768	1 or 2	283	23	AJ5515G-1C
AJA5519EXC	1 1/2	34.2	4720	PSC	2110	1/2 ST	5/16 ST	768	1 or 2	283	23	AJ5516G-1C
AJ Series 220/240V 50Hz 1 Phase												
AW5522EK-3C	1 3/4	39.6	5330	PSC	1900	3/4 ST	3/8 ST	946	1	322	28	AH5518HG-1C
AW5524EK-3C	2	43.1	6050	PSC	2100	3/4 ST	3/8 ST	946	1	322	38	AH5520G-1C
AW5528EK-3C	2 1/4	48.4	6830	PSC	2440	3/4 ST	3/8 ST	946	1	322	30	AH5523G-1C
AW5532EK-3C	2 1/2	53.5	7630	PSC	2700	3/4 ST	3/8 ST	946	1	322	30	
AW Series 380/420V 50Hz 3 Phase												
AWF5522EXG	1 3/4	39.6	5330	3 PH	1940	3/4 ST	3/8 ST	946	1	322	28	AH5518G-2C
AWF5524EXG	2	43.1	6050	3 PH	2150	3/4 ST	3/8 ST	946	1	322	28	AH5520G-2C
AWF5528EXG	2 1/4	48.4	6830	3 PH	2500	3/4 ST	3/8 ST	946	1	322	30	AH5523G-2C
AWF5532EXG	2 1/2	53.5	7630	3 PH	2770	3/4 ST	3/8 ST	946	1	322	30	
AV Series 220/240V 50Hz 1 Phase												
AVA5535EXC	2 3/4	62.4	8590	PSC	2900	7/8 ST	1/2 ST	1597	1 or 2	388	36	
AVA5538EXC	3	67.0	9380	PSC	3200	7/8 ST	1/2 ST	1597	1 or 2	391	38	
AVA5542EXC	3 1/2	73.3	10380	PSC	3575	7/8 ST	1/2 ST	1597	1 or 2	370	38	
AVA5546EXC	4	79.0	11360	PSC	3850	7/8 ST	1/2 ST	1597	1 or 2	370	38	
AV Series 380/420V 50Hz 3 Phase												
AVA5535EXG	2 3/4	62.4	8590	3 PH	2900	7/8 ST	1/2 ST	1597	1 or 2	388	36	
AVA5538EXG	3	67.0	9380	3 PH	3015	7/8 ST	1/2 ST	1597	1 or 2	391	38	
AVA5542EXG	3 1/2	73.3	10380	3 PH	3505	7/8 ST	1/2 ST	1597	1 or 2	370	38	AH5533G-2C
AVA5546EXG	4	79.0	11360	3 PH	3830	7/8 ST	1/2 ST	1597	1 or 2	370	38	
AVA5555EXG	4 1/2	91.0	13430	3 PH	4500	7/8 ST	1/2 ST	1597	1 or 2	391	40	AGA5553EXG
AVB5558EXG	4 3/4	91.0	13720	3 PH	4640	7/8 ST	1/2 ST	1597	1 or 2	391	40	AGA5561EXG
AG Series 380/420V 50Hz 3 Phase												
AGC5561EXG	5	112.5	14880	3 PH	5250	7/8 ST	1/2 ST	1922	3	399	41	
AGC5568EXG	5 3/4	124.5	16360	3 PH	6040	7/8 ST	1/2 ST	1922	3	412	41	
AGA5573EXG	6	135.1	17680	3 OH	6250	7/8 ST	1/2 ST	1922	3	412	47	
ZR Series 220/240V 50Hz 1 Phase												
ZR28K3PFJ522-C	2 1/3	39.2	6970	PSC	2190	3/4 ST	1/2 ST	1000	3	385	27.3	
ZR34K3PFJ522-C	2 7/8	46.1	8260	PSC	2530	3/4 ST	1/2 ST	1120	3	410	29.5	
ZR36K3PFJ522-C	3	49.5	8850	PSC	2720	3/4 ST	1/2 ST	1120	3	410	29.5	
ZR47K3PFJ522-C	3 7/8	64.1	11500	PSC	3500	7/8 ST	1/2 ST	1120	3	440	30.5	
ZR68KCPFJ522-C	5 3/4	93.0	16800	PSC	5120	7/8 ST	1/2 ST	1660	3	460	41.8	
ZR Series 380/420V 50Hz 3 Phase												
ZR54KCTFD522-C	4 1/2	73.2	13000	3 PH	4020	7/8 ST	1/2 ST	1830	3	460	35.5	
ZR61KCTFD522-C	5	82.4	14700	3 PH	4420	7/8 ST	1/2 ST	1830	3	460	35.9	
ZR68KCTFD522-C	5 3/4	93.0	16500	3 PH	4960	7/8 ST	1/2 ST	1660	3	460	38.2	
ZR72KCTFD522-C	6	98.0	17800	3 PH	5260	7/8 ST	1/2 ST	1660	3	460	38.2	
ZR81KCTFD522-C	6 3/4	110.6	19800	3 PH	5820	7/8 ST	1/2 ST	1660	3	465	40.0	
ZR94KCTFD523-C	8	127.2	23200	3 PH	6880	1 1/8 SV	3/4 SV	2400	3	495	58.2	SFA5594EXG
ZR108KCTFD523-C	9	144.5	26900	3 PH	7890	1 1/8 SV	3/4 SV	3130	3	555	62.7	SFA5611EXG
ZR125KCTFD523-C	10	165.6	31000	3 PH	9110	1 1/8 SV	3/4 SV	3130	3	555	62.7	SFA5612EXG
ZR144KCTFD523-C	12	191.7	34700	3 PH	10180	1 1/8 SV	3/4 SV	3130	3	555	62.7	SFA5615EXG
ZR16M3TWD551-C	13	204.3	37700	3 PH	11180	1 3/8 SV	7/8 SV	4140	3	546	103.1	
ZR19M3TWD551-C	15	241.9	45900	3 PH	14030	1 5/8 SV	1 1/8 SV	4140	3	592	112.1	

* Refer Page 6 Oil Table

PERFORMANCE RATING BASIS (ASHRAE)

Application	Ambient Temp ˚C	Condensing Temp ˚C	Liquid Entering Temp ˚C	Return Vapour Temp ˚C	Nominal Capacity W @ SST ˚C	Power Input w @ SST ˚C	Standard
Low Suction Temp	32	55	32	32	-23.3	-23.3	ASHRAE-T
Medium Suction Temp	35	55	47	35	-6.7	-6.7	ASHRAE-T
High Suction Temp	35	55	47	35	+7.2	+7.2	ASHRAE-T
Air Conditioning	35	55	47	35	+7.2	+7.2	ASHRAE-T
ZR Scrolls REF	35	55	46	18	+7.2	+7.2	ARI
ZF Scroll	35	55	55	18/25	-23.3/-6.7	-23.3/-6.7	ARI

Stated Capacity(watts) and Power Input (watts) in the following tables have been established at these conditions using nominated refrigerants and are accurate to ±5%. To establish capacities at design conditions, the following factors may be used:

- For lower condensing temperature: increase capacity 6% for every 5˚C lower condensing temperature.
- For higher condensing temperature: decrease capacity 6% for every 5˚C higher condensing temperature.
- For lower liquid entering temperature: increase capacity 1% for every 1˚C lower liquid entering temperature.
- For lower return temperature: disregard, generally marginal.

FEATURES

- All hermetic compressors require fan cooling unless otherwise specified.
- Low start torque compressors (i.e. with RSIR or PSC motors) require capillary refrigerant control.
- High start torque compressors (i.e. with CSIR, CSR or 3 Phase motors) can be used with capillary or TX valve control.

OIL TABLE

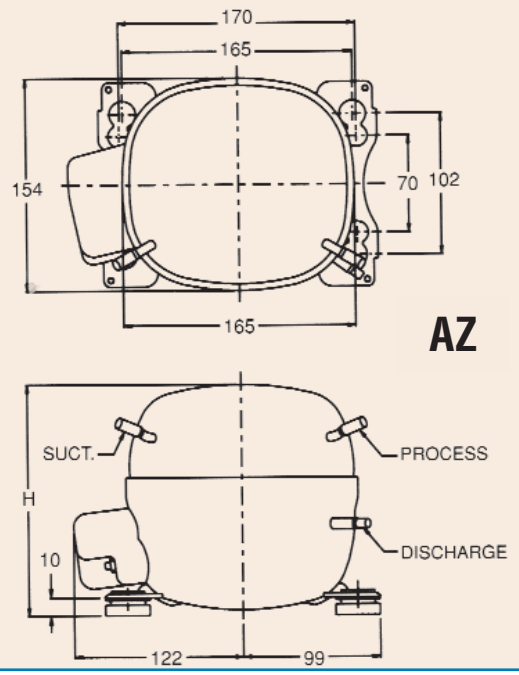
Oil Type	Oil Category	Typical Approved Oil *
1	Mineral (yellow / naphthenic)	Suniso 3GS
2	Synthetic (alkyl benzene)	Zerol 300
3	Mineral (white / naphthenic-paraffinic)	Sontex 200 LT
4	Polyol Ester (POE)	Emkarate RL32
5	Oil approved for RM rotary compressors	Barrel Freeze 32SAM

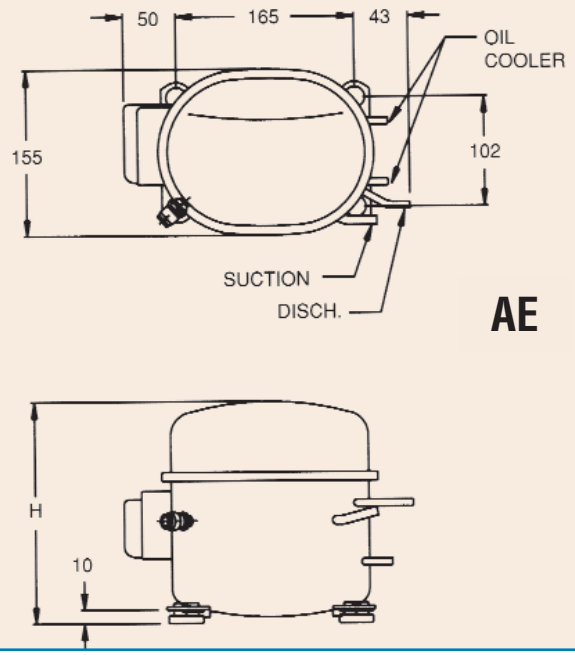
* Differing oil viscosities may be required for different models. Ensure that the oil you select is appropriate for the specific compressor model.

EQUIVALENT COMPRESSOR MODELS

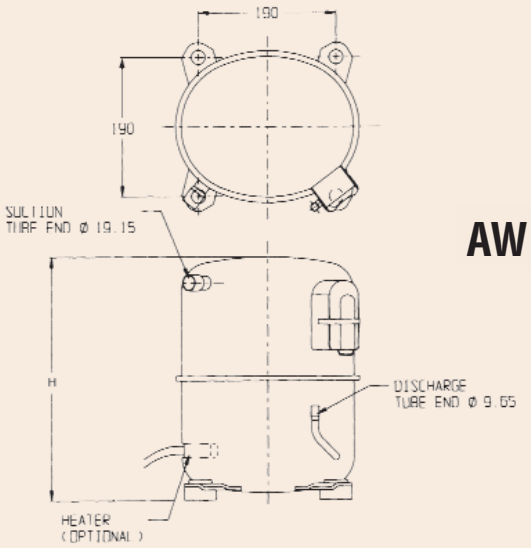
Application	New Model	Replaces	Previous Model
LBP R404A/R507	AE18LZ	AKL19ZS	AJ18LZ
	WJ22LZ		AJ22LMY
	WJ26LZ	AKL26ZS	AJ26LZ
	WJ31LZ	AJ33LZ	AJ34LMY
M/HBP R22/R404A/R507	AE18MG	AKM19ES	AJ20MG
	WJ22MHG	AKM22ES	AJ24MG
	WJ26MHG	AKM26ES	AJ26MG
	WJ31MHG	AJ33MG	AJ34MG
MBP R134a	AE18LZ	AKM19YS	AJ18MY
	WJ22LZ	AKM22YS	AJ22LMY
	WJ26LZ	AKM26YS	AJ26LMY
	WJ31LZ	AJ33LZ	AJ33MY

DRAWINGS AND DIMENSIONS





DRAWINGS AND DIMENSIONS Continued



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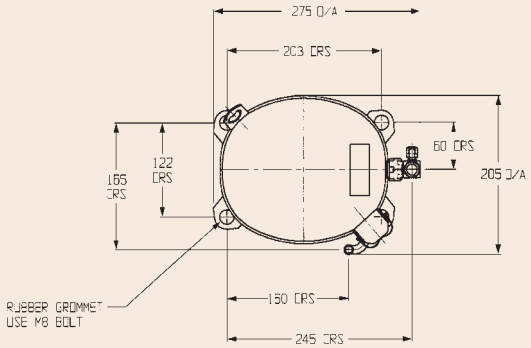

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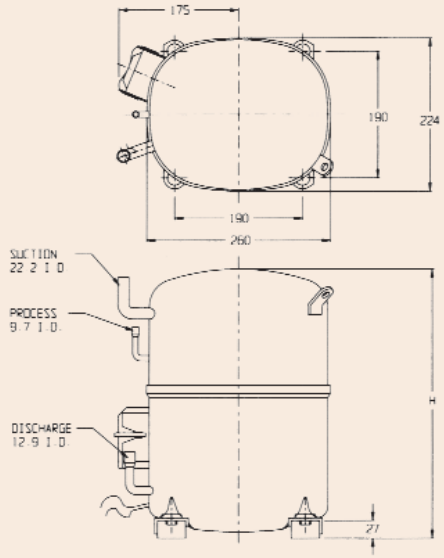

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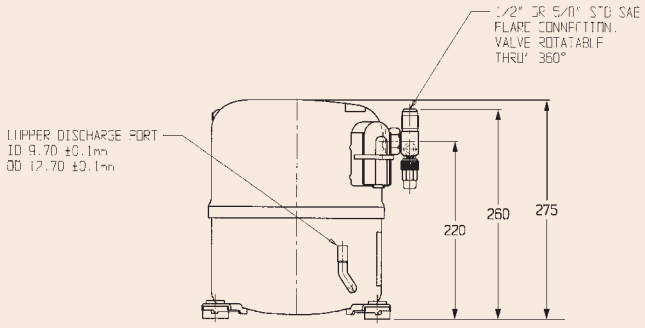
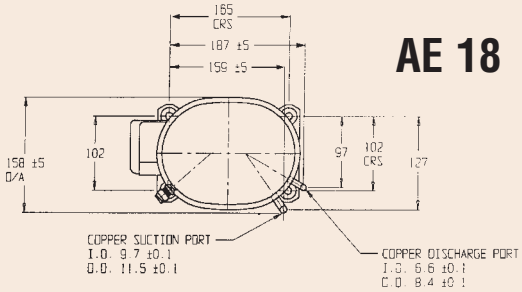
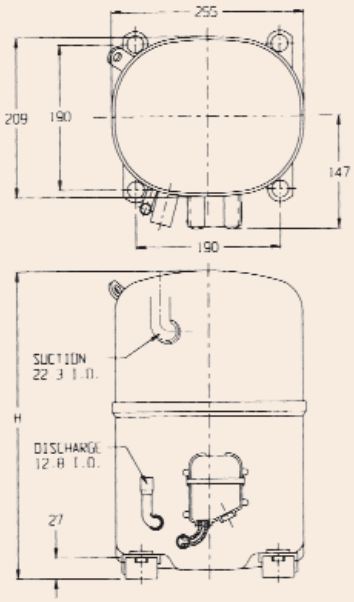




AE 18



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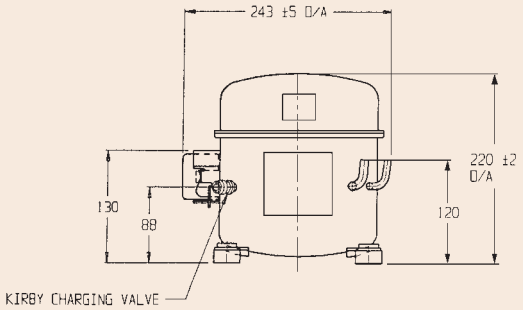
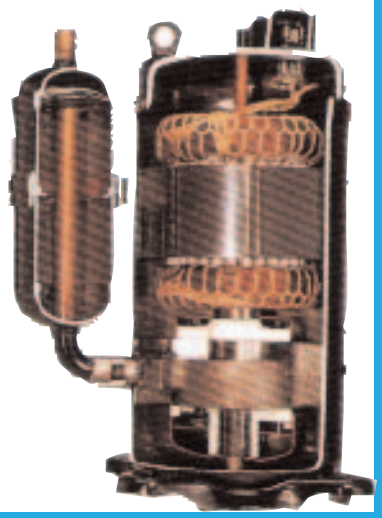


THACOM AIR CONDITIONING COMPRESSORS USING R22

Kirby – Thacom Rotary Compressors are made in Thailand by Thacom, a joint venture between Kulthorn Kirby and Mitsubishi Heavy Industries. The manufacturing plant utilises the latest technology to produce a high quality range of compressors.

Features

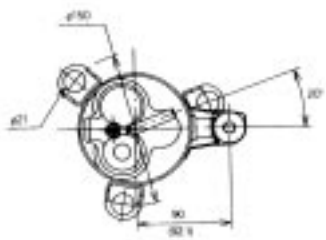
- Few moving parts, minimum vibration, fewer causes of possible malfunction.
- High efficiency design. Compression and suction carried through full 360˚ resulting in smooth refrigerant flow.
- Easy noise suppression. Rotary compressor noise mainly high frequency which is simple to suppress.

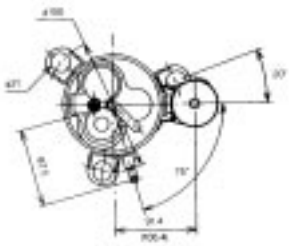


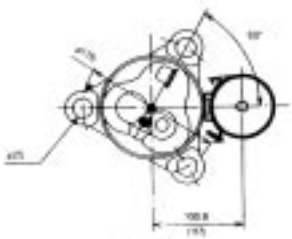
Use of Liquid Injection

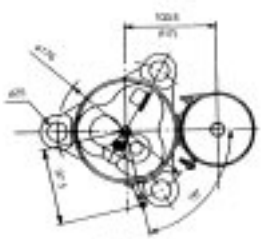
Liquid injection cooling is offered on compressor type D (see below). Part of the liquid refrigerant at the exit end of the condenser is injected directly into the cylinder, cooling the discharge gas and improving efficiency and performance. When using these compressors as replacements for other manufacturers' rotary compressors, it is not always possible to connect a liquid injection system. This will not adversely affect performance compared to the compressor being replaced. When liquid injection is not being utilised, the connector on the lower housing should be sealed.

Part No	Nom HP	Disp. (cc/rev)	Rated Capacity (W)	Motor Type	Motor Input (W)	Liquid Injection	Connections (in) Suction	Connections (in) Discharge	Accum. Dia. (mm)	Type	Oil Charge (cc)	Oil Type	Height (mm)	Net wt (kg)
RM Rotary Series 220/240V 50Hz 1 Phase														
RM5485GNE81	.83	12.5	2075	PSC	730	NO	3/8 ST	1/4 ST	30	A	300	5	261	9.1
RM5510GNE9	1.1	14.5	2400	PSC	810	NO	3/8 ST	1/4 ST	78	A	350	5	305	12.1
RM5512GNE81	1.2	16.9	2930	PSC	965	NO	3/8 ST	1/4 ST	51	A	350	5	300	11.3
RM5515GNE81	1.5	21.4	3600	PSC	1180	NO	3/8 ST	1/4 ST	51	C	450	5	303	13.9
RM5518GNE81	1.9	25.0	4395	PSC	1410	NO	3/8 ST	1/4 ST	51	C	600	5	300	15.0
RM6520GNHE91	2.0	28.0	4885	PSC	1590	YES	5/8 ST	1/4 ST	89	D	700	5	349	19.1
RM5524GNHE91	2.4	34.5	5860	PSC	1970	YES	5/8 ST	1/4 ST	89	D	700	5	349	19.2
RM5526GNHE9	2.5	37.3	6350	PSC	2165	YES	5/8 ST	3/8 ST	89	D	700	5	383	19.6


Type A


Type B


Type C


Type D

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