

Compressors



HERMETIC COMPRESSORS – RECIPROCATING

KIRBY HERMETIC COMPRESSORS - R134a

Part Number	Nom. HP	Displ. cc/rev	Nominal Capacity: Watts Evaporating Temperature: °C								Nom. Current FLA
			-40	-30	-25	-20	-15	-10	-5	0	

Domestic R134a LBP Compressors (POE Oil)

AZ33LY-1KS	1/12	3.28		54	73	94	126	168				1.2
AZ36LY-1KS	1/10	3.59		57	78	101	134	179				1.2
AZ40LY-1KS	1/8	4.00		66	86	111	142	185				1.4
AZ56LY-1KS	1/6	5.59		83	108	140	182	238				1.6
AEV6LY-1KS	1/5	5.99		89	116	150	195	255				1.6
AEV7LY-1KS	1/5	6.91		108	140	182	236	309				1.7
AEV8LY-1KS	1/4	8.12		124	162	209	272	356				1.8
AEV9LY-1KS	1/4	9.42		147	191	248	322	421				2.5

Commercial R134a L/M/HBP Compressors (POE Oil)

BA8LMY-1KS	1/5	7.55		85	130	182	240	310	400	500	615	1.8
BA9MHY-1KS	1/4	8.88				210	270	350	450	570	700	2.6
BA12LMY-1KS	1/4	12.10		150	220	300	390	480	590	730	910	2.9
BA14LMY-1KS	1/3	14.10		175	255	340	445	560	700	860	1030	4.0
BA16LMY-1KS	3/8	16.10		220	310	420	540	680	840	1030	1260	2.8
BA16LZ-1KS	3/8	16.10		225	315	430	550	695	860	1055	1290	2.3
BA18LZ-1KS	1/2	18.00		280	370	480	600	750	930	1140	1390	3.5
WJ22LZ-1C	5/8	21.50				420	620	820	1110	1430	1810	4.1
WJ26LZ-3C	3/4	26.70				510	730	1010	1370	1740	2220	4.6
WJ31LZ-1C	1	30.50				580	830	1140	1560	2040	2590	5.5
AW40LZ-1C	1	39.60				740	1090	1480	1970	2500	3050	4.7
AW43LZ-5C	1	43.10				840	1240	1690	2240	2850	3480	5.8
AW48MHY-3C	1-1/2	48.40				820	1210	1790	2410	3150	4130	8.2
AW54LZ-1C*	1-1/2	53.50		510	860	1200	1690	2200	2830	3610	4500	7.8
AV79MHY-1C	2	79.00				1180	1770	2530	3640	5000	6570	13
AV79MHY-2C	2	79.00				1180	1770	2530	3640	5000	6570	6.2/PH

*AW54LZ-1C - Use without run capacitor on LBP applications

Domestic Replacement LBP Compressors with Mineral Oil**

AE1411A-7KS**	1/4	14.14	200	425	570	735						2.6
---------------	-----	-------	-----	-----	-----	-----	--	--	--	--	--	-----

Commercial Replacement L/M/HBP Compressors with Mineral Oil*

AE10LMA-1KS**	1/4	10.25	110	235	320	415	525	655	805			2.5
AGA4534AXG**	2-3/4	100.70		1520	2400	3400	4500	5750	7200	9000	11200	5.5/PH
AGA4543AXG**	2-3/4	124.40		2000	3200	4450	5800	7400	9100	11400	14200	7.0/PH

**Mineral Oil Compressors are not suitable for R134a refrigerants

Sec 1: Refrigeration Equipment

STANDARD CONDITIONS

Application	Evaporating Temp °C	Cond. Temp °C	Liquid Entering Temp °C	Return Vapour Temp °C
Nominal Capacities are established through ASHRAE-T standard conditions				
Low Suction Temp	-23.3	55	32	32
Med Suction Temp	-6.7	55	47	35
High Suction Temp	7.2	55	47	35
A/C Suction Temp	7.2	55	47	35

Application of R407F and other HFC refrigerant alternatives should be verified with your Heatcraft Technical Specialist (1800 132 350), refer to advertisement on page 36

Note:

Stated Capacity (Watt) in the above chart 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 temperatures: increase capacity 6% for every 5°C lower condensing temperature.
- For higher condensing temperatures: decrease capacity 6% for every 5°C higher condensing temperature.
- For lower liquid entering temperatures: increase capacity 1% for every 1°C lower liquid entering temperature. **Features:**
- All hermetic compressors require a cooling fan unless otherwise specified
- Low start torque compressors (i.e. with RSIR 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

KIRBY HERMETIC COMPRESSORS - R404A / R507

Part Number	Nom. HP	Displ. cc/rev	Nominal Capacity: R404A (Watts) Evaporating Temperature: °C								Nom. Current FLA
			-40	-35	-30	-25	-20	-15	-10	-5	
BA Commercial Series LBP Compressors (POE Oil) 240V / 1 Phase											
BA8MG-1KS	1/4	7.55		137	210	295	385	490			2.6
BA12LMY-1KS	1/3	12.01		190	310	440	585	745			2.9
BA16LMY-1KS	3/8	16.10		330	465	620	810	1025			2.8
BA16LZ-1KS	3/8	16.10		335	475	635	830	1050			2.3
BA18LZ-1KS	1/2	18.00		400	550	720	930	1180			3.5
WJ Commercial Series LBP Compressors (POE Oil) 240V / 1 Phase											
WJ22LZ-1C	3/4	21.60		360	560	810	1130	1490			3.3
WJ26LZ-3C	7/8	26.80		420	670	990	1390	1850			4.8
WJ31LZ-1C	1	30.50		530	820	1180	1610	2130			5.5
AW Commercial Series LBP Compressors (POE Oil) 240V / 1 Phase											
AW40LZ-1C	1	39.60		590	900	1325	1890	2590			4.7
AW43LZ-5C	1-1/4	43.10		680	1030	1540	2160	2890			5.8
AW54LZ-1C	1-1/2	53.50		780	1250	1920	2760	3660			7.8
AV Commercial Series LBP Compressors (POE Oil) 415V / 3 Phase											
AVA2490ZXG	2	73		900	1600	2400	3350	4500			8.3 / PH



Sec 1: Refrigeration Equipment

KIRBY HERMETIC COMPRESSORS - R22 / R507 / R404A / R407C (CONT'D)

Part Number	Nom. HP	Displ. cc/rev	Nominal Capacity: R22 (Watts) Evaporating Temperature: °C						Nom. Current FLA	Height (mm)
			-15	-10	-5	0	5	10		

BA Commercial Series - 240/1 M/HBP (POE Oil)

BA5MHG-1KS	1/5	4.48	225	275	340	415	505	610	1.7	189
BA6MHG-1KS	1/4	5.5	270	325	407	490	590	705	2.8	189
BA8MG-1KS	1/4	7.6	360	465	580	720	870		2.8	202
BA9MG-1KS	1/3	8.9	460	565	705	860	1030		3.2	202
BA12MG-1KS	3/8	12.0	665	820	1020	1220	1440		2.8	215
BA14MG-1KS	1/2	14.1	790	995	1230	1490	1800		3.4	215
BA16MG-4KS	3/4	16.2	880	1120	1390	1700	2060		3	215
BA18MG-1KS	7/8	18.0	980	1230	1530	1870	2250		4.4	215

WJ Commercial Series - 240/1 M/HBP (POE Oil)

WJ22MHG-1C	1	21.5	1180	1530	1920	2390	2920	3540	5.6	275
WJ26MHG-3C	1-1/4	26.8	1520	1950	2430	2960	3540	4170	7	275
WJ31MHG-1C	1-1/2	30.5	1650	2130	2680	3300	4000	4770	7.9	275

AW Commercial Series - 240/1 M/HBP (POE Oil)

AW38MG-1C	1-1/2	37.5	1685	2239	2860	3620	4519		7.9	310
AW43MHG-1C	2	43.1	2097	2799	3600	4469	5490	6760	9.6	340
AW48MHG-1C	2-1/2	48.4	2360	3150	3980	4990	6210	7717	11.2	340
AW54MHG-3C	2-1/2	53.5	2612	3540	4508	5710	7109	8710	12.5	340

AW Commercial Series - 415/3 M/HBP (POE Oil)

AW43MHG-4C	2	43.1	2097	2799	3600	4469	5490	6760	9.6/PH	340
AW48MHG-4C	2-1/4	48.4	2360	3150	3980	4990	6210	7717	3.2/PH	340
AW54MHG-4C	2-1/2	53.5	2612	3540	4508	5710	7109	8710	12.5/PH	340

AV Commercial Series - 415/3 M/HBP (POE Oil)

AV67MHG-2C	2-3/4	67	2500	3660	5000	6570	8360	10370	5.2/PH	500
AV73MHG-2C	3	73.3	2920	4170	5560	7340	9200	11340	5.8/PH	500
AV91MHG-2C	4-1/2	91.0	4260	5750	7500	9740	12000	14470	7.8/PH	500
AV92MHG-2C	5	91.0	4440	5930	7700	9990	12350	14990	7.6/PH	500

AG Commercial Series - 415/3 M/HBP (POE Oil)

AG125MHG-2C	5-3/4	125.0	4750	6450	8650	11370	14600	18340	9.8/PH	580
AG135MHG-2C	6	135.0	5140	6970	9350	12290	15780	19830	10.9/PH	580



STANDARD CONDITIONS

Application	Evaporating Temp °C	Ambient Temp °C	Cond Temp °C	Liquid Entering Temp °C	Return Vapour Temp °C
-------------	---------------------	-----------------	--------------	-------------------------	-----------------------

Nominal Capacities are established through ASHRAE-T standard conditions

Low Suction Temp	-23.3	32	55	32	32
Med Suction Temp	-6.7	35	55	47	35
High Suction Temp	7.2	35	55	47	35
A/C Suction Temp	7.2	35	55	47	35

Application of R407F and other HFC refrigerant alternatives should be verified with your Heatcraft Technical Specialist (1800 132 350), refer to advertisement on page 36

Note:

Stated Capacity (Watt) in the above chart 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 temperatures: increase capacity 6% for every 5°C lower condensing temperature.
- For higher condensing temperatures: decrease capacity 6% for every 5°C higher condensing temperature.
- For lower liquid entering temperatures: increase capacity 1% for every 1°C lower liquid entering temperature.

Features:

- All hermetic compressors require a cooling fan unless otherwise specified
- Low start torque compressors (i.e. with RSIR 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



HERMETIC COMPRESSORS – RECIPROCATING (CONT'D)

KIRBY HERMETIC COMPRESSORS - R22 AIR CONDITIONING

Part Number	Nom. HP	Displ. cc/rev	Power Input (Watts)	Nominal Capacity: R22 (Watts) Evaporating Temperature: °C						Rating Point 7.2	Height (mm)	Oil* Type
				-15	-10	-5	0	5	10			
AK Series 240V / 1 PHASE M/HBP												
AKA5512EXC	1	22.3	1175		1300	1680	2110	2670	3310	2930	247	1 or 2
AJ Series 240V / 1 PHASE M/HBP												
AJB5515EXC	1-1/4	26.1	1610		1680	2175	2730	3340	4020	3670	272	1 or 2
AJA5518EXC	1-1/2	32.7	1980		2200	2760	3420	4190	5010	4510	283	1 or 2
AJA5519EXC	1-1/2	34.2	2110		2300	2860	3570	4380	5270	4720	283	1 or 2
AW Series 240V / 1 PHASE M/HBP												
AW5522EK-3C	1-3/4	39.6	1900		2240	2980	3860	4880	6000	5330	322	1
AW5524EK-3C	2	43.1	2100		2530	3380	4360	5540	6790	6050	322	1
AW5528EK-3C	2-1/4	48.4	2440		2930	3870	4980	6280	7650	6830	322	1
AW Series 415V / 3 PHASE M/HBP												
AW5532EK-3C	2-1/2	53.5	2700		3320	4340	5580	7040	8560	7630	322	1
AW5524G-4C	2	43.1	2100		2530	3380	4360	5540	6790	6050	322	1
AW5528G-4C	2-1/4	48.4	2440		2930	3870	4980	6280	7650	6830	322	1
AW5532G-4C	2-1/2	53.5	2700		3320	4340	5580	7040	8560	7630	322	1
AV Series M/HBP (EXC = 240V / 1 PHASE, EXG = 415V / 3 PHASE)												
AVA5535EXG	2-3/4	62.4	2900		3260	4440	5870	7675	9600	8590	388	1 or 2
AVA5538EXC	3	67	3015		3570	4855	6400	8380	10480	9380	391	
AVA5538EXG												
AVA5542EXC	3-1/2	73.3	3505		3950	5370	7090	9270	11600	10380	370	
AVA5542EXG												
AVA5546EXC	4	79	3830		4320	5880	7760	10150	12700	11360	370	
AVA5546EXGB												
AVA5555EXG	4-1/2	91	4500		5100	6950	9170	12000	15010	13430	391	
AVB5558EXG	4-3/4		4640		5220	7100	9370	12260	15340	13720		
AG Series 415V / 3 PHASE M/HBP												
AGC5561EXG	5	112.5	5250		6135	8165	10590	13600	16800	14880	399	3
AGC5561EXGB	5-3/4	124.5	6040		6970	9180	11860	15250	18880	17800	412	3
AG125MHG-2C	5-3/4	125.0	5970	4750	6450	8650	11370	14600	18340	16470	580	4
AG135MHG-2C	6	135.0	6290	5140	9350	12290	15780	19830	8540	17805	580	4
AGA5573EXG	6	135.1	6250		7500	9800	12630	16300	20230	17680	412	3

*Note: Oil Type 1 is a Mineral oil, Oil Type 2 is a Synthetic oil and 4 a Polyol Ester (POE) oil. Typical approved oils are for Mineral - Suniso 3GS, Synthetic - CPI AB46 and Polyol Ester - Emkarate RL32H.EXC = 1 Phase EXG = 3 Phase

STANDARD CONDITIONS

Application	Ambient Temp °C	Condensing Temp °C	Liquid Entering Temp °C	Return Vapour Temp °C	Nom. Capacity & Power Input W @ SST °C	Standard
Air Conditioning	35	55	47	35	7.2	ARI

Note:

Stated Capacity (Watt) in the above chart 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 temperatures: increase capacity 6% for every 5°C lower condensing temperature.
- For higher condensing temperatures: decrease capacity 6% for every 5°C higher condensing temperature.
- For lower liquid entering temperatures: increase capacity 1% for every 1°C lower liquid entering temperature.

Features:

- All hermetic compressors require a cooling fan unless otherwise specified
- Low start torque compressors (i.e. with RSIR 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