

MFG Mbsm.pro, Compressor, Aspera, B3119Z, 234 w, 1/4 hp, r134a

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As an alternative for selecting compressor for tropical condition we could recommend to select a compressor of R134a with cooling capacity of approximately 240 watt at – 23.3

degree centigrade evaporating temperature. We recommend compressor Danfoss model SC12G oil cooled compressor with 259 watts cooling capacity at- 23.3 evaporating temp. ASHREA Standards, or Compressor Matsushita Model D91C21RAX5 With 227 watts cooling capacity at – 23.3 evaporating temp. ASHREA Standards, or Aspera Model B3119Z with 234 watts cooling capacity at – 23.3 evaporating temp. ASHREA Standards, or Electrolux (Zanussi) Model GL90AA with 224 watts cooling capacity at – 23.3 evaporating temp. ASHREA Standards. Or Necchi Model ESC 11/11K with 246 watts cooling capacity at – 23.3 evaporating temp. ASHREA Standards ...

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Comparative analysis of hermetic compressors

Compressor brand _	Scope -	refrigerant	Cooling capacity Q ₀ , W		Possible analogues of compressors		
			T ₀ \u003d +5 ⁰ C T _k \u003d +55 ⁰ C	T ₀ \u003d -15 ⁰ C T _k \u003d +55 ⁰ C			
Embraco Aspera					Electrolux	L'unit hermetique	Danfoss
NE2125E	LBP	R22		458			SC10C
NE2134E	LBP	R22		670			SC12C
T2140E	LBP	R22		796			SC15C
T2155E	LBP	R22		965			SC18C
T2168E	LBP	R22		1304			SC12/15
J2178E	LBP	R22		1425			
J2190E	LBP	R22		1662			SC15/15
NB6144E	HBP	R22	511				
NB6152E	HBP	R22	584		L57TN	AEZ3430E	
NB6165E	HBP	R22	714		L76TN		
NE6181E	HBP	R22	873		L88TN	AEZ34/4440E	
NE5210E	HBP	R22	1065			AE34CAE4450E	
NE6210E	HBP	R22	1026		L88TN		
NE6211E	HBP	R22	1179				
T6217E	HBP	R22	1728		S15TN	CAJ/TAJ9480T	
T6220E	HBP	R22	2065		S18TN		SC12I
NE9213E	M/HBP	R22	1491		P12TN		SC10I
J/NJ9226E/P	M/HBP	R22	2769			CAJ/TAJ9513T	
J/NJ9232E/P	M/HBP	R22	3313		S26TN		SC10/10
J/NJ9238E/P	M/HBP	R22	4131			CAJ/TAJ4519T	SC12/15
NE7213E	AC	R22	1499			AE5470E	
NE7215E	AC	R22	1643			AE5470E	
T7220F	AC	R22	2065		S19UN	AJ5510F	
T7223F	AC	R22	2439		S22UN	AJ5512E	

J/NJ7225F	AC	R22	2588		S24UN	AJ5512E	
J/NJ7228F/P	AC	R22	2992		S26UN	AJ/TAJ5515E	
J/NJ7231F/P	AC	R22	3315		S30UN/UP		
J/NJ7238E/P	AC	R22	4048		S34UN/UP	AJ/TAJ5519E	
J/NJ7240F/P	AC	R22	4443				
NB2112GK	LBP	R404A		210			TL4CI
NB1117GK	LBP	R404A		279	ML45FB	AEZ2370Z	
NB2117GK	LBP	R404A		274			
NB1121GK	LBP	R404A		419			FR8.5C
NE2125GK	LBP	R404A		544	ML80FB	AEZ2415Z	SC10C
NE2134GK	LBP	R404A		765	MP12FB	AE14/CAE2417Z	SC12C
NEK2117GK	LBP	R404A		352	ML60FB	AEZ2390Z	FR6CI
NEK2121GK	LBP	R404A		422			
NEK2125GK	LBP	R404A		494	ML80FB	AEZ2411Z	FR8.5C
NEK2134GK	LBP	R404A		679	MP10FB		
NEK2150GK	LBP	R404A		888	MP14FB	AE14/CAE2420Z	
T2140GK	LBP	R404A		744	MP10FB		SC12C
T2155GK	LBP	R404A		948	MP14FB	CAE2424Z	SC15C
T2168GK	LBP	R404A		1169	MK16FB	CAJ2432Z	SC18CL/S
T2178GK	LBP	R404A		1368	MK21FB	CAJ2440Z	SC21C
T2180GK/GJ	LBP	R404A		1460	MR22FB	CAJ2440Z	
J/NJ2192GK/GS	LBP	R404A		1725	MS26FB		
J/NJ2212GK/GS	LBP	R404A		2273	MS30FB		SC18/18
NB6144GK	MBP	R404A	553			AEZ4425Z	TL4DI
NB6152GK	MBP	R404A	646		ML45TB	AEZ34/4430Y	FR6DI
NB6165GK	MBP	R404A	768		ML60TB	AEZ34/4440Z	
NE5181GK	MBP	R404A	964		ML80TB		
NE6181GK	MBP	R404A	916				
NE6210GK	MBP	R404A	1082		ML80TB	AE34/CAE4450Z	
NE9213GK	MBP	R404A	1602		MP10TB	CAE9470Z	
NEK6165GK	MBP	R404A	895		ML80TB	AEZ34/4440Z	
NEK6210GK	MBP	R404A	1205		ML90TB	CAE44/9450Z	SC10D
NEK6213GK	MBP	R404A	1610			CAE9470Z	
T6217GK	MBP	R404A	1833		MP12TB	CAJ/TAJ9480Z	SC15D
T6220GK	MBP	R404A	2214		MK16TB	CAJ/TAJ9510Z	SC10/10
T6222GK	MBP	R404A	2686		MR18TB		SC12/12
J/NJ9226GK/GS	MBP	R404A	2998				

J/NJ9232GK/GS	MBP	R404A	3706				SC15/15
J/NJ9238GK/GS	MBP	R404A	4463				
NB1112Z	LBP	R134a		220	GL70AN	THB1360Y	NL6F
NB2112Z	LBP	R134a		220	GL70AN	THB1360Y	NL6F
NB1115Z	LBP	R134a		273	GL80BH		NL9F
NB1116Z	LBP	R134a		284	GL90AA/AN	AEZ1370Y	NL9F
NB2116Z	LBP	R134a		277	GL90AA	AEZ1370Y	NL9F
NB1117Z	LBP	R134a		326	GL99BH/BL	AZ1355Y	
NB3117Z	LBP	R134a		277	GL90AA	AEZ1370Y	NL9F
NB1118Z	LBP	R134a		244	GL80AA/AF	AZ1355Y	NL8F
NB2118Z	LBP	R134a		244	GL80AA/AF	AZ1355Y	NL8F
NB1119Z	LBP	R134a		318	GL99BH/BL	AEZ1365Y	
NB3119Z	LBP	R134a		318	GL99BH/BL	AEZ1365Y	
NE1121Z	LBP	R134a		393	GP14BB/CB		NL11I
NE2121Z	LBP	R134a		391	GP14BB/CB		NL11I
NE1130Z	LBP	R134a		495	GP16CB/FB	C/AE1412Y	SC18I
NE2130Z	LBP	R134a		525	GK18FB	C/AE1412Y	SC18I
NE2134Z	LBP	R134a		556			SC18C
T2134Z	LBP	R134a		639	GK21FB		SC21I
T2140Z	LBP	R134a		746			SC12C
J/NJ2152Z	LBP	R134a		1045			SC18C
BP51/6125H	HBP	R134a	270		GD36MB	THB44/3413Y	TL4GI
BP51/6128H	HBP	R134a	320		GL45PB/TB/TG		
BP51/6132H	HBP	R134a	354		GL60TB/TG	THB34/4419Y	TL5G
NB5132Z	HBP	R134a	387				
NB51/6144Z	HBP	R134a	492		GL80PB/TB/TG		FR6G
NE5160Z	HBP	R134a	623				FR10C
NE6160Z	HBP	R134a	636		GL90PB/TB/TG	AEZ34/4430Y	FR10C
NE5170Z	HBP	R134a	728		GP10PB		SC10C
NE6170Z	HBP	R134a	718		GP10PB		SC10C
NE51/6187Z	HBP	R134a	997		GP14PB/TB/TG	CAE4448Y	SC12C
NE6210Z	HBP	R134a	1134		GK16TB/TG	CAJ/TAJ4452Y	SC15C
NEK6170Z	HBP	R134a	767		GP10PB		SC10C
NEK6187Z	HBP	R134a	884		GP12TB/TG	AE3440Y	SC12C
NEK6210Z	HBP	R134a	1051		GP16TB/TG	CAE4456Y	
NEK6212Z	HBP	R134a	1186		GP16TG/TB	CAJ/TAJ4452Y	SC15G
T6213Z	HBP	R134a	1335		GR/GK18TB/TG	CAJ/TAJ4461Y	SC18C

T6215Z	HBP	R134a	1616		GR22TB/TG		SC21C
T6217Z	HBP	R134a	1737		GR22TG		
J/NJ6220Z/ZX	HBP	R134a	2330		GS30TB		
J/NJ6226Z/ZX	HBP	R134a	2732		GS34TB	CAJ/TAJ4511Y	

Boiling temperature range:

R22:

LBP – T₀ = minus 30 °C ... minus 10 °C

R404A:

LBP – T₀ = minus 40 °C ... minus 10 °C

HBP – T₀ = minus 20 °C ... +10 °C

R134a:

LBP – T₀ = minus 30 °C ... minus 5 °C

HBP – T₀ = minus 15 °C ... +10 °C

Information on the interchangeability of compressors manufactured by different manufacturers is necessary for the selection of a compressor for the repair of refrigeration equipment. Below is information about the compatibility of compressors of various models and brands, grouped by type of refrigerant:

the parameters of compressors operating on **R134a** refrigerant, **R12** refrigerant and **R600a**

refrigerant are given. For the convenience of selecting a compressor, the type and approximate volume of the refrigerator or freezer in which the unit of this model is used are indicated.

Parameters of compressors operating on R134a refrigerant.

Freon R134a						
Power, hp	Product type and volume, l			Compressor brand and model		
	single door refrigerator	single door refrigerator	freezer	ZEM	Aspera	Embraco
1/12	160	120	90			
1/10	200	160	120	GD36AA	BP1058Z	
1/8	220	240	200	GL45AA GL45AN*	BP1084Z	EM45HNR EM14
1/6	400	325	270	GL60AA GL60AN*	BPM1111Z	EMI60HER EM15 EM165
1/5	500	410	350	GL75AA GL80AN*	NB1116Z B3117Z*	FF17,5HAK FGS70 FGV70HA
1/4	600	480	400	GL90AA GL90AN* GL99AA(+)	NB1118Z B3119Z*	FF18,5HAK FGS90 FGV80HA
1/4	800	600	500			
1/3	1200	800	600		E1121Z	

Parameters of compressors operating on R134a refrigerant.

Power, hp	Product type and volume, l			Compressor brand and model		
	single door refrigerator	single door refrigerator	freezer	Electrolux	Samsung	Verdichter
1/12	160	120	90	GD30AB GD30AA GD36AB		OF OF OF
1/10	200	160	120	GL35AA GD40AA GD40AB		

1/8	220	240	200	GL45AA GL45AB GL40AA GL40AB	VD143QLIU2	OF789H OF789
1/6	400	325	270	GL60AA GL60AB GL50AA GL50AB	VD152QLIU2	OF1033A OF1033H
1/5	500	410	350	GL80AA GL80AB GL70AA GL70AB	VD162QLIU2	
1/4	600	480	400	GL99AA GL99AB GL90AA GL90AB GL90AB GL99AD GL99AL	SK170QLIUU	
1/4	800	600	500			
1/3	1200	800	600		GP12BB GP12AB	

Parameters of compressors operating on R12 refrigerant.

Freon R12						
Power, hp	Product type and volume, l			Compressor brand and		
	single door refrigerator	single door refrigerator	freezer	ZEM	Aspera	Embraco
1/12	160	120	90			PW3,5K7 PW3
1/10	200	160	120		BP1058A	PW3,5K6 PW3,
1/8	220	240	200	L45AV	BP1084A	PW4,5K9 EM4 PW4,5K7
1/6	400	325	270	L55AV	BP1111A	PW5,5K9 PW5,5 EM55NP
1/5	500	410	350	L76AV L76BV*	BP1116B B3117A*	PW7,5K14 FF7, FF7,5BKW FF6
1/4	600	480	400	L88AV L88BV*	B1118B B3118B* B3119B	PW9K18 PW11 FF8,5BK FF8,B
1/4	800	600	500			
1/3	1200	800	600		E1121A E3121A*	FF108K

Parameters of compressors operating on R12 refrigerant.

Power, hp	Product type and volume, l			Compressor brand and		
	single door refrigerator	single door refrigerator	freezer	Electrolux	Prescold	Unidad Hermetica
1/12	160	120	90	D36AS DS33AU L33AU	AS14	
1/10	200	160	120	L40W L40AS L40AU	AS12	
1/8	220	240	200	L45AU L45AW	AS8	D40AS L40AU
1/6	400	325	270	L55AT L55AU	AS6 AS66	
1/5	500	410	350	L76BW L76AW L76AT	AM55ZF AM5ZF	L55GR L65AS L76 L76AT

1/4	600	480	400	L88BW L88AV L88FW	AM4C	L88AS L88AVBV L88BS L88BW
1/4	800	600	500		QM43	
1/3	1200	800	600		P12BW P12FW	L88GR L99GV L99C

Parameters of compressors operating on R600a refrigerant .

Freon R 600a					
Power, hp	Product type and volume, l			Compressor br	
	single door refrigerator	single door refrigerator	freezer	Aspera	
1/12	160	120	90		
1/10	200	160	120	BPM1058Y/1072Y	
1/8	220	240	200	BPE1084Y	
1/6	400	325	270	BPE1111Y	
1/5	500	410	350	NBM1116Y	
1/4	600	480	400	NBM1118Y	
1/3	1200	800	600		

* - models with additional oil cooling

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