

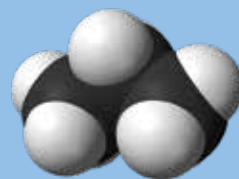
Compressor



The compressors in our
catalog all can be used:



R-290
R-600a



PROPANE AMONIAC

The best solutions and products for you.



THERMOJINN

Refrigeration products

ThermoJinn

**BV&BW
Series**

Reciprocating compressor

3-50 Hp, 18-154m³/h, 50Hz



Introduction

Semi Hermetic reciprocating compressor is an ideal choice to solve numerous applications in industrial and commercial fields, and to a small extent, it is applicable to specific air-conditioning projects.

Our BV&BW series compressors are perfectly suited for a variety of applications. Although it is already known for its reliable and high-quality reciprocating compressors,

It continues to invest in research and new technologies to continuously improve this range, which is now characterized by high efficiency and quiet operation.

BV&BW series compressors can be used to expand applications or adapt to new sizes - smaller or larger.

To be exact, today, the BV&BW series consists of 32 models with 4 or 6 cylinders.

Its rated power and displacement range are 3 to 50 [hp] and 18 to 154 [m3/h] respectively.

Benefits

Flexibility in a wide range of applications

BV&BW series can be used with chlorine free refrigerants R-407C, R-134A, R-449A, R-507 and R-600A without any mechanical replacement.

This range is specially developed for medium and low temperature evaporative air conditioning and refrigeration applications. It can work to a condensation temperature of 80 °C under R-134a, and to - 40 °C under R-449a, R-507 and R-600a.

It can be used for full size motors (H) in air conditioning systems or small motors (L) in cooling systems.

- **Efficiency**
- **Optimized lubrication**
- **Reliability and operation safety**
- **Volume and stability**
- **Installation**

Classification model

500-BV-27 X

500:
Motor capacity: 5HP

*HPx100

BV:
Piston comperssor
4-cylinder

BW:
Piston comperssor
6-cylinder

27:
Displacement
27 m3/h

X : POE Oil
Mineral oil not mention

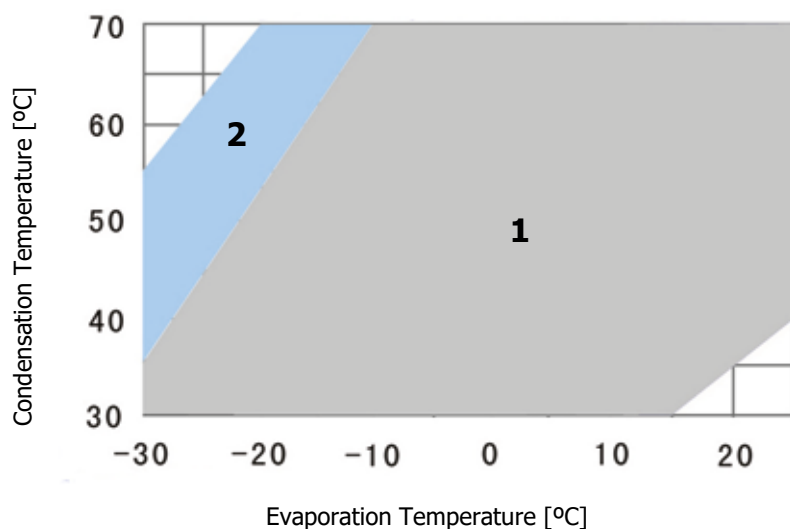
Technical data

MEDIUM HIGH& LOW TEMPERATURE

MODEL	Cylinder	Motor	Displacement	Power supply		Max	Max	Connection Pipe		Oil Charge	Weight	
		Rated power	50 Hz			Current	Power	Suction pipe	Discharge pipe			
		[Hp/kW]	[m³/hr]			MRA	kW	[mm/inch.]	[mm/inch.]	[dm³]		
300-BV-18(X)	4	3 / 2,2	18	Δ - 220 V / 3~/50 Hz / 4p Δ - 260 V / 3~/60 Hz / 4p Y - 380 V / 3~/50 Hz / 4p Y - 440 V / 3~/60 Hz / 4p	16 / 9 19 / 11 19 / 11 23 / 13 23 / 14 28 / 16 28 / 16 35 / 20	5,4 6,2 6,4 7,9 8,0 9,0 9,0 11,6	22 / 7/8"	16 / 5/8"	2,0		82	
500-BV-18(X)		5 / 3,7	18								86	
400-BV-23(X)		4 / 3,0	23								84	
600-BV-23(X)		6 / 4,5	23								86	
500-BV-27(X)		5 / 3,7	27					86				
700-BV-27(X)		7 / 4,5	27				28 / 1 1/8"	22 / 7/8"			89	
600-BV-33(X)		6 / 4,5	33								91	
900-BV-33(X)		9 / 5,6	33								91	
600-BV-34(X)		6 / 4,5	34	28 / 1 1/8"	22 / 7/8"	2,6			129			
1000-BV-34(X)		10 / 7,4	34					139				
800-BV-41(X)		8 / 7,4	41				35 / 1 3/8"	28 / 1 1/8"	134			
1200-BV-41(X)		12 / 9,3	41							141		
1000-BV-48(X)		10 / 7,4	48		139							
1500-BV-48(X)		15 / 11,1	48		147							
1200-BV-56(X)		12 / 9,3	56		35 / 1 3/8"				141			
2000-BV-56(X)		20 / 15	56		42 / 1 5/8"				150			
1500-BV-65(X)		15 / 11,1	65	380 YY / 3 / 50 440 YY / 3 / 60	10,0 19,9 12,1 25,1 13,6 28,2 15,9 33,2 30,8 37,2 36,7 44 43,9 51,2 52,8 62,1 46,4 53,2 53,2 64,4 65,5 73,9 83,2 96,2	6 12 7 14 8 16 9 19 19 21 22 25 27 28 31 35 27 30 33 36 40 42 46 51	42		28	4	179	
2000-BV-65(X)		20 / 15	65									190
1500-BV-71(X)		15 / 11,1	71								183	
2500-BV-71(X)		25 / 19	71								194	
2000-BV-86(X)		20 / 15	86				54	35		4,5	192	
3000-BV-86(X)		30 / 22	86									206
2500-BV-103(X)		25 / 19	103									196
3500-BV-103(X)		35 / 26	103									207
2500-BW-95(X)	6	25 / 18,5	95						42	4,8	213	
3000-BW-95(X)		30 / 22	95								231	
2500-BW-106(X)		25 / 18,5	106								224	
3500-BW-106(X)		35 / 26	106								235	
3000-BW-129(X)		30 / 22	129					228				
4000-BW-129(X)		40 / 30	129					238				
4000-BW-154(X)		40 / 30	154					238				
5000-BW-154(X)		50 / 37	154					241				

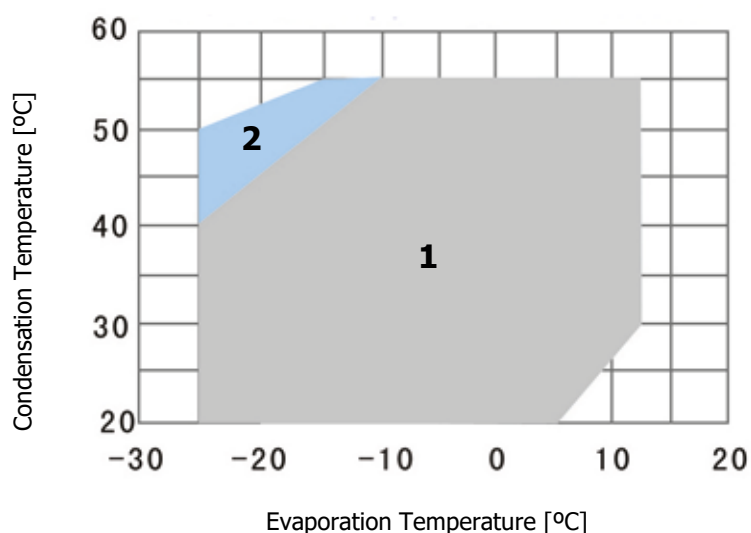
Specifications

R-134A Application limitation



- Compressors can only run under the indicated condition range in limitation drawing. Please pay attention to the different working condition under different color range in the drawing so that the compressors can be work stably and with longer lifetime.
- The limitation is only for normal application range. If need the working range over that, please contact with us for more information.

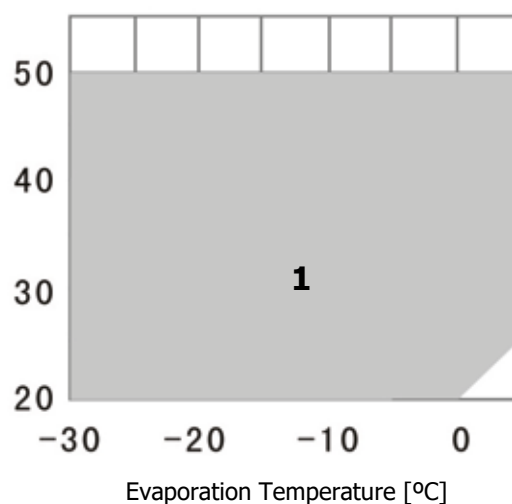
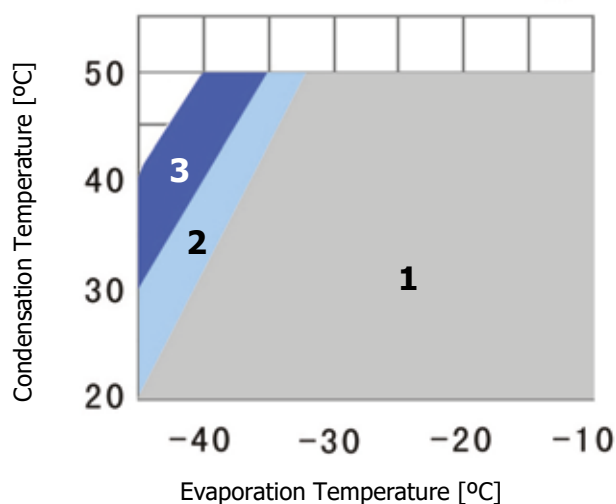
R-407C Application limitation



Limits refer to full load operation.

- 1 = Standard application
(20 [° C] suction gas temperature).
- 2 = Control the suction temperature.
Keep suction Superheat<15.
- 3 =Control the suction temperature.
Keep the suction Superheat<15.
The cylinder head fan needs to be added.

R-404A / R-507 Application limitation

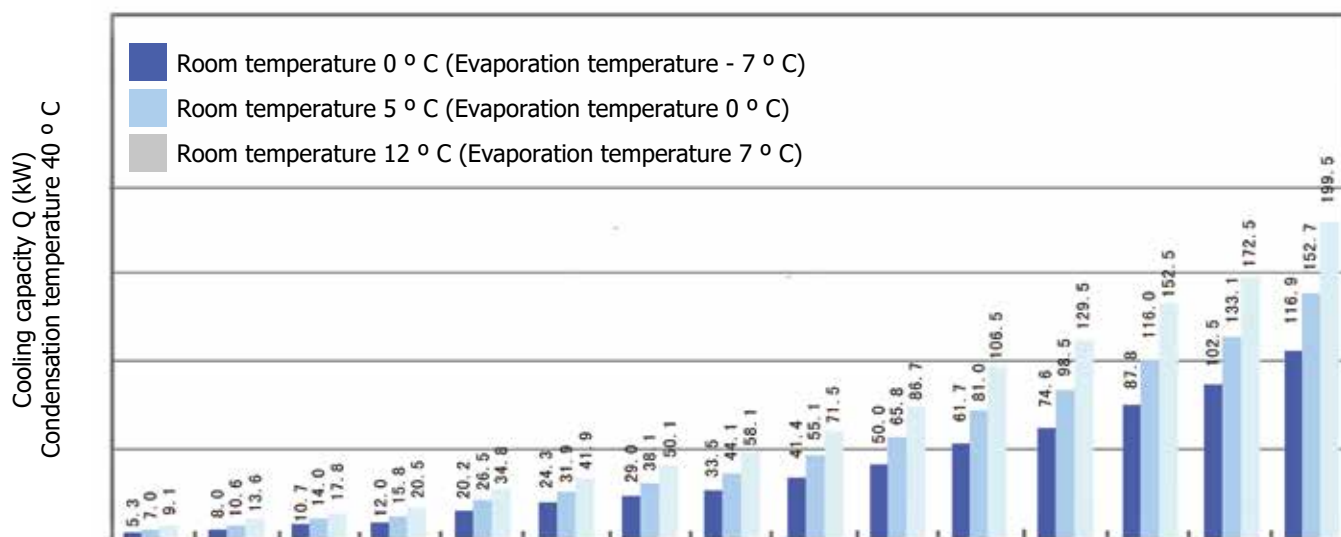


Specifications

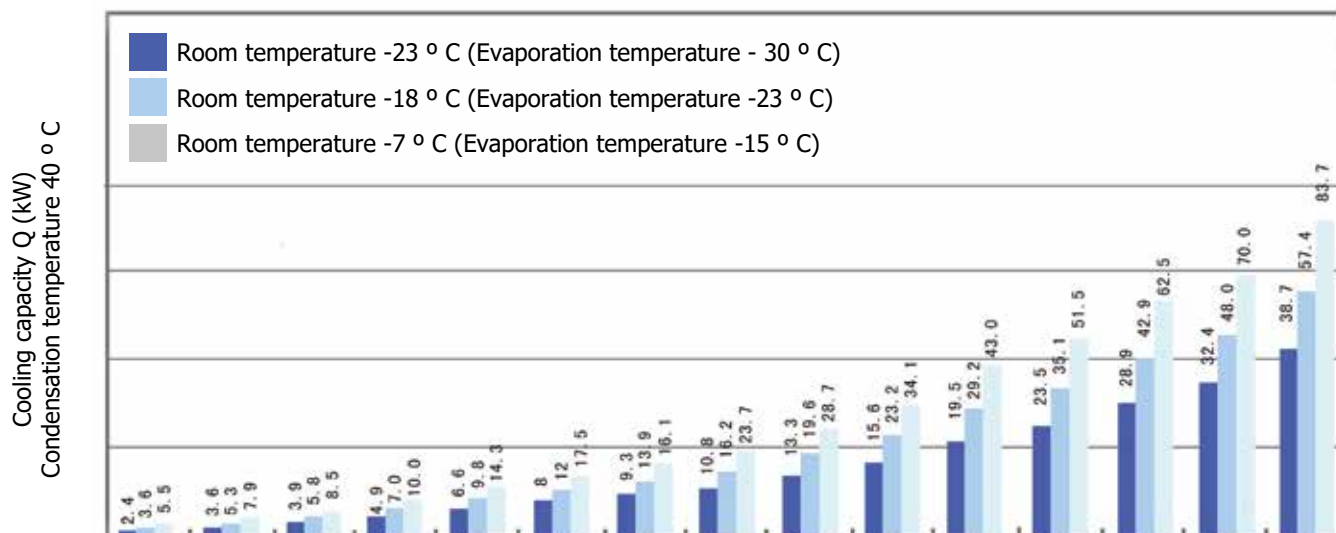


High efficiency compressor, rated at 3 to 50 HP,
The displacement is 18 to 154 m³/h.
This type of compressor uses imported Hollabig valve plate.

Suitable for medium and high temperature compressor (temperature: +20 to -5 °C)



Suitable for medium and low temperature compressor (temperature is -5 to -30 °C)



BV&BW Series, R-404A

MEDIUM HIGH& LOW TEMPERATURE

Model	Cond. Temp. °C	Performance (W)																				Price €
		5 °C		0 °C		−5 °C		−10 °C		−15 °C		−20 °C		−25 °C		−30 °C		−35 °C		−40 °C		
		Q (Cooling capacity) W	P (Input power) W	Q (Cooling capacity) W	P (Input power) W	Q (Cooling capacity) W	P (Input power) W	Q (Cooling capacity) W	P (Input power) W	Q (Cooling capacity) W	P (Input power) W	Q (Cooling capacity) W	P (Input power) W	Q (Cooling capacity) W	P (Input power) W	Q (Cooling capacity) W	P (Input power) W	Q (Cooling capacity) W	P (Input power) W	Q (Cooling capacity) W	P (Input power) W	
300-BV-18X	30			17.510	3.710	14.460	3.610	11.840	3.450	9.610	3.250	7.700	3.010	6.100	2.740	4.750	2.440	3.640	2.140	2.720	1.840	0,00
	40			14.840	4.440	12.260	4.230	10.040	3.960	8.140	3.660	6.520	3.330	5.140	2.970	3.990	2.610	3.030	2.240	2.250	1.890	
	50			12.030	5.030	9.940	4.710	8.140	4.350	6.580	3.960	5.250	3.540	4.120	3.110	3.170	2.680	2.380	2.260	1.730	1.850	
500-BV-18X	30	21.050	3.690	17.510	3.660	14.460	3.560	11.840	3.410	9.610	3.220	7.710	2.990	6.100	2.730	4.750	2.450	3.640	2.160	2.720	1.860	0,00
	40	17.810	4.480	14.830	4.340	12.260	4.140	10.040	3.890	8.140	3.610	6.510	3.290	5.140	2.960	3.990	2.610	3.030	2.260	2.240	1.910	
	50	14.400	5.120	12.010	4.880	9.940	4.580	8.130	4.250	6.580	3.880	5.250	3.490	4.130	3.090	3.180	2.680	2.380	2.270	1.730	1.870	
400-BV-23X	30			22.100	4.750	18.300	4.610	15.010	4.400	12.200	4.120	9.790	3.800	7.760	3.430	6.050	3.050	4.630	2.650	3.460	2.260	0,00
	40			18.810	5.710	15.550	5.420	12.740	5.060	10.330	4.650	8.270	4.200	6.520	3.730	5.060	3.250	3.830	2.770	2.830	2.310	
	50			15.360	6.520	12.690	6.070	10.380	5.580	8.390	5.050	6.690	4.490	5.240	3.920	4.020	3.350	3.010	2.800	2.170	2.270	
600-BV-23X	30	26.400	4.700	22.000	4.650	18.160	4.510	14.880	4.300	12.060	4.040	9.660	3.720	7.630	3.380	5.930	3.000	4.510	2.620	3.340	2.230	0,00
	40	22.400	5.720	18.650	5.520	15.390	5.240	12.590	4.900	10.180	4.510	8.120	4.080	6.380	3.630	4.920	3.170	3.700	2.71	2.830	2.310	
	50	18.240	6.570	15.170	6.220	12.510	5.810	10.200	5.350	8.220	4.850	6.620	4.320	5.080	3.780	3.870	3.230	3.010	2.800	2.170	2.270	
500-BV-27X	30			26.200	5.640	21.750	5.470	17.860	5.220	14.540	4.890	11.700	4.510	9.280	4.080	7.250	3.630	5.550	3.160	4.140	2.700	0,00
	40			22.400	6.740	18.530	6.400	15.190	5.970	12.320	5.490	9.870	4.970	7.790	4.420	6.030	3.860	4.580	3.300	3.370	2.760	
	50			18.440	7.690	15.220	7.170	12.440	6.590	10.040	5.960	8.000	5.310	6.260	4.650	4.800	3.990	3.600	3.350	2.600	2.740	
700-BV-27X	30	31.450	5.600	26.250	5.540	21.750	5.390	17.870	5.150	14.540	4.840	11.700	4.470	9.280	4.060	7.250	3.630	5.550	3.180	4.140	2.730	0,00
	40	26.900	6.810	22.400	6.570	18.540	6.250	15.190	5.850	12.320	5.400	9.870	4.910	7.790	4.390	6.040	3.850	4.580	3.310	3.370	2.790	
	50	22.150	7.830	18.430	7.430	15.220	6.960	12.440	6.420	10.040	5.840	8.000	5.230	6.260	4.610	4.810	3.980	3.600	3.360	2.600	2.770	
600-BV-33X	30			31.750	6.820	26.300	6.610	21.650	6.290	17.610	5.880	14.160	5.400	11.220	4.870	8.730	4.310	6.650	3.740	4.930	3.170	0,00
	40			27.150	8.100	22.400	7.660	18.350	7.140	14.850	6.540	11.850	5.900	9.310	5.220	7.180	4.540	5.400	3.860	3.930	3.210	
	50			22.500	9.190	18.520	8.550	15.080	7.830	12.120	7.070	9.610	6.270	7.480	5.470	5.690	4.670	4.220	3.900	3.010	3.170	
900-BV-33X	30	38.000	6.910	31.750	6.820	26.300	6.610	21.650	6.290	17.610	5.880	14.160	5.400	11.220	4.870	8.730	4.310	6.650	3.740	4.930	3.170	0,00
	40	32.600	8.420	27.150	8.100	22.400	7.660	18.350	7.140	14.850	6.540	11.850	5.900	9.310	5.220	7.180	4.540	5.400	3.860	3.930	3.210	
	50	27.100	9.750	22.500	9.190	18.520	8.550	15.080	7.830	12.120	7.070	9.610	6.270	7.480	5.470	5.690	4.670	4.220	3.900	3.010	3.170	
600-BV-34X	30			34.100	7.150	28.150	6.920	23.000	6.550	18.590	6.070	14.820	5.520	11.600	4.910	8.890	4.270	6.630	3.640	4.750	3.040	0,00
	40			28.800	8.580	23.650	8.040	19.180	7.390	15.360	6.680	12.110	5.910	9.350	5.130	7.040	4.350	5.130	3.600	3.560	2.670	
	50			23.550	9.770	19.180	8.920	15.430	8.020	12.210	7.080	9.480	6.120	7.190	5.180	5.280	4.280	3.710	3.430	2.440	2.670	
1000-BV-34X	30	41.050	6.970	34.150	6.920	28.150	6.710	23.000	6.380	18.590	5.940	14.810	5.420	11.600	4.850	8.890	4.250	6.630	3.650	4.760	3.070	0,00
	40	34.800	8.540	28.800	8.200	23.650	7.720	19.180	7.150	15.350	6.500	12.100	5.790	9.350	5.060	7.040	4.330	5.140	3.620	3.580	2.950	
	50	28.600	9.840	23.550	9.220	19.180	8.500	15.420	7.700	12.200	6.860	9.480	5.980	7.190	5.110	5.280	4.280	3.720	3.450	2.470	2.730	
800-BV-41X	30			40.850	8.600	33.800	8.320	27.700	7.890	22.450	7.340	17.970	6.690	14.150	5.980	10.930	5.240	8.230	4.500	6.000	3.790	0,00
	40			34.700	10.320	28.600	9.700	23.300	8.960	18.750	8.130	14.870	7.240	11.580	6.330	8.820	5.420	6.520	4.540	4.630	3.720	
	50			28.500	11.750	23.300	10.800	18.860	9.770	15.040	8.690	11.780	7.580	9.030	6.490	6.740	5.420	4.840	4.430	3.300	3.520	

BV&BW Series, R-404A

MEDIUM HIGH& LOW TEMPERATURE

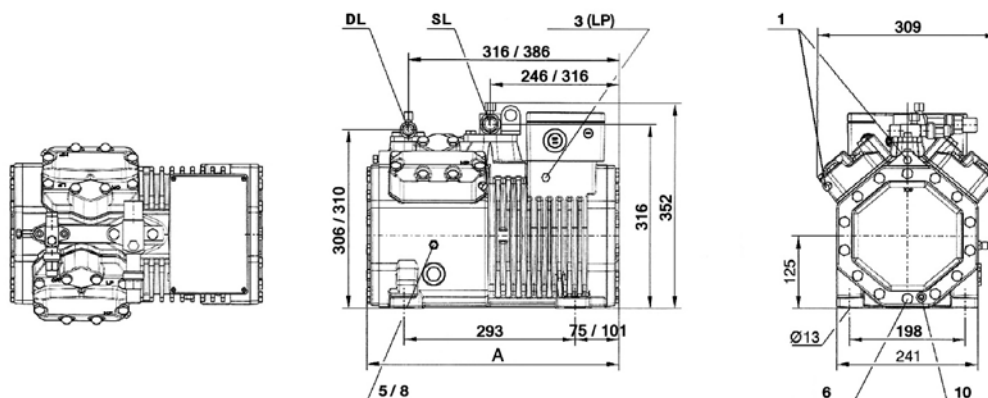
Model	Cond. Temp. °C	Performance (W)																				Price €
		5 °C		0 °C		−5 °C		−10 °C		−15 °C		−20 °C		−25 °C		−30 °C		−35 °C		−40 °C		
		Q (Cooling capacity) W	P (Input power) W	Q (Cooling capacity) W	P (Input power) W	Q (Cooling capacity) W	P (Input power) W	Q (Cooling capacity) W	P (Input power) W	Q (Cooling capacity) W	P (Input power) W	Q (Cooling capacity) W	P (Input power) W	Q (Cooling capacity) W	P (Input power) W	Q (Cooling capacity) W	P (Input power) W	Q (Cooling capacity) W	P (Input power) W	Q (Cooling capacity) W	P (Input power) W	
1200-BV-41X	30	49.200	8.520	40.950	8.430	33.850	8.160	27.700	7.740	22.450	7.200	17.930	6.570	14.100	5.880	10.870	5.170	8.180	4.450	5.950	3.760	0,00
	40	41.800	10.430	34.700	10.000	28.550	9.420	23.200	8.730	18.670	7.940	14.780	7.090	11.500	6.210	8.750	5.340	6.470	4.490	4.600	3.710	
	50	34.450	12.070	28.500	11.320	23.300	10.450	18.810	9.500	14.990	8.480	11.730	7.440	9.000	6.400	6.720	5.390	4.850	4.450	3.330	3.600	
1000-BV-48X	30			47.250	9.720	38.900	9.360	31.750	8.840	25.600	8.180	20.350	7.430	15.900	6.610	12.160	5.750	9.050	4.890	6.500	4.050	0,00
	40			40.000	11.510	32.800	10.780	26.550	9.930	21.200	8.970	16.680	7.950	12.860	6.900	9.660	5.840	7.020	4.810	4.870	3.830	
	50			32.550	12.920	26.500	11.840	21.250	10.670	16.790	9.430	13.010	8.170	9.830	6.900	7.200	5.660	5.040	4.490	3.300	3.410	
1500-BV-48X	30	57.000	9.900	47.300	9.720	38.950	9.350	31.700	8.820	25.550	8.150	20.300	7.390	15.800	6.560	12.050	5.690	8.930	4.830	6.370	4.000	0,00
	40	48.200	11.960	39.800	11.400	32.600	10.670	26.400	9.820	21.050	8.870	16.520	7.860	12.710	6.820	9.520	5.780	6.890	4.770	4.760	3.830	
	50	39.450	13.690	32.400	12.780	26.350	11.730	21.150	10.580	16.680	9.380	12.920	8.140	9.760	6.910	7.140	5.710	5.000	4.580	3.280	3.550	
1200-BV-56X	30			55.400	11.590	45.700	11.150	37.400	10.540	30.250	9.780	24.150	8.910	18.980	7.970	14.650	6.980	11.050	5.980	8.090	5.000	0,00
	40			47.200	13.740	38.800	12.910	31.550	11.930	25.400	10.840	20.100	9.670	15.640	8.450	11.910	7.230	8.820	6.030	6.290	4.880	
	50			38.550	15.460	31.550	14.250	25.500	12.930	20.350	11.530	15.950	10.080	12.240	8.610	9.140	7.170	6.580	5.790	4.510	4.490	
2000-BV-56X	30	67.000	11.680	55.700	11.450	46.000	11.000	37.600	10.380	30.400	9.620	24.300	8.760	19.080	7.830	14.710	6.860	11.080	5.900	8.100	4.990	0,00
	40	56.900	14.060	47.200	13.420	38.800	12.600	31.550	11.640	25.400	10.580	20.100	9.450	15.660	8.290	11.940	7.140	8.860	6.030	6.350	5.000	
	50	46.800	16.190	38.700	15.160	31.700	13.990	25.650	12.720	20.450	11.390	16.070	10.030	12.380	8.670	9.310	7.360	6.780	6.130	4.740	5.020	
1500-BV-65X	30			62.400	13.050	51.900	12.560	42.850	11.910	34.950	11.120	28.200	10.220	22.400	9.240	17.440	8.210	13.250	7.150	9.730	6.100	0,00
	40			53.400	15.410	44.300	14.500	36.400	13.460	29.550	12.310	23.650	11.100	18.600	9.840	14.300	8.560	10.680	7.290	7.650	6.060	
	50			44.200	17.400	36.500	16.100	29.850	14.690	24.050	13.220	19.080	11.710	14.810	10.180	11.200	8.670	8.160	7.210	5.640	5.820	
2000-BV-65X	30	73.700	13.020	61.600	12.720	51.100	12.230	42.050	11.570	34.200	10.790	27.450	9.890	21.650	8.910	16.740	7.880	12.580	6.830	9.090	5.770	0,00
	40	63.000	15.710	52.500	14.960	43.400	14.050	35.500	13.020	28.700	11.880	22.800	10.670	17.780	9.420	13.520	8.140	9.920	6.870	5.930	5.620	
	50	51.900	18.000	43.200	16.830	35.500	15.530	28.850	14.130	23.100	12.670	18.150	11.160	13.930	9.640	10.350	8.130	7.350	6.660	4.860	5.240	
1500-BV-71X	30			72.700	15.660	60.500	15.020	50.000	14.200	40.900	13.220	33.050	12.120	26.300	10.940	20.600	9.710	15.750	8.450	11.680	7.210	0,00
	40			62.200	18.500	51.700	17.360	42.600	16.080	34.700	14.690	27.900	13.230	22.050	11.720	17.080	10.200	12.890	8.710	9.390	7.280	
	50			51.400	20.930	42.650	19.320	35.000	17.610	28.350	15.840	22.600	14.030	17.720	12.220	13.570	10.440	10.070	8.740	7.160	7.140	
2500-BV-71X	30	86.000	15.550	72.100	15.150	59.900	14.550	49.400	13.760	40.300	12.830	32.500	11.780	25.750	10.640	20.050	9.440	15.230	8.220	11.180	7.000	0,00
	40	73.600	18.630	61.500	17.740	51.000	16.680	41.900	15.470	34.000	14.160	27.200	12.760	21.400	11.320	16.470	9.850	12.310	8.400	8.830	6.990	
	50	60.700	21.220	50.700	19.880	41.900	18.410	34.250	16.820	27.600	15.150	21.900	13.440	17.040	11.710	12.910	10.000	9.440	8.340	6.560	6.760	
2000-BV-86X	30			83.800	18.720	69.900	17.880	57.800	16.840	47.350	15.630	38.350	14.300	30.650	12.880	24.100	11.410	18.540	9.930	11.180	7.000	0,00
	40			71.800	22.150	59.800	20.710	49.350	19.130	40.300	17.440	32.550	15.680	25.900	13.880	20.200	12.090	15.420	10.340	8.830	6.990	
	50			59.300	25.110	49.300	23.120	40.600	21.030	33.050	18.880	26.550	16.720	21.000	14.580	16.290	12.500	12.320	10.520	6.560	6.760	
3000-BV-86X	30	98.700	18.190	82.700	17.660	68.800	16.900	56.800	15.940	46.350	14.830	37.400	13.600	29.700	12.270	23.150	10.880	17.640	9.470	13.020	8.060	0,00
	40	84.400	21.620	70.600	20.560	58.600	19.300	48.200	17.890	39.200	16.370	31.400	14.750	24.800	13.090	19.160	11.400	14.410	9.740	10.450	8.130	
	50	69.400	24.470	57.900	22.940	48.000	21.240	39.300	19.420	31.800	17.520	25.350	15.560	19.820	13.590	15.140	11.640	11.210	9.750	9.950	7.960	

BV&BW Series, R-404A

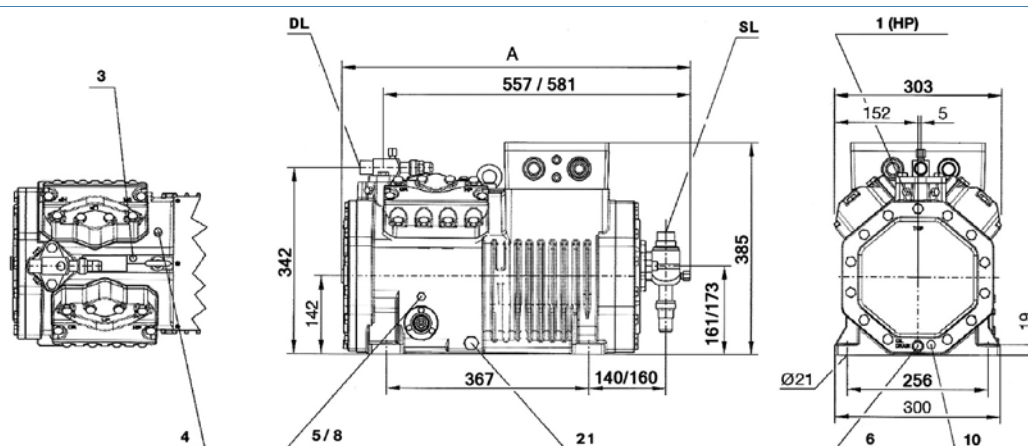
MEDIUM HIGH& LOW TEMPERATURE

Model	Cond. Temp. °C	Performance (W)																				Price €
		5 °C		0 °C		−5 °C		−10 °C		−15 °C		−20 °C		−25 °C		−30 °C		−35 °C		−40 °C		
		Q (Cooling capacity) W	P (Input power) W	Q (Cooling capacity) W	P (Input power) W	Q (Cooling capacity) W	P (Input power) W	Q (Cooling capacity) W	P (Input power) W	Q (Cooling capacity) W	P (Input power) W	Q (Cooling capacity) W	P (Input power) W	Q (Cooling capacity) W	P (Input power) W	Q (Cooling capacity) W	P (Input power) W	Q (Cooling capacity) W	P (Input power) W	Q (Cooling capacity) W	P (Input power) W	
2500-BV-103X	30			99.400	22.310	83.000	21.420	68.800	20.270	56.400	18.880	45.800	17.320	36.700	15.630	28.950	13.860	22.350	12.070	16.830	10.280	0,00
	40			85.000	26.160	71.000	24.660	58.800	22.930	48.200	21.010	39.000	18.960	31.100	16.820	24.350	14.650	18.590	12.490	13.720	10.380	
	50			70.100	29.470	58.600	27.370	48.500	25.090	39.650	22.660	32.000	20.140	25.350	17.570	19.630	15.020	14.710	12.510	10.520	10.110	
3000-BV-103X	30	117.900	22.430	99.000	21.870	82.600	21.000	68.300	19.850	56.000	18.490	45.400	16.950	36.300	15.280	28.550	13.530	22.000	11.760	16.460	10.00	0,00
	40	100.500	26.810	84.500	25.610	70.500	24.130	58.300	22.420	47.700	20.530	38.550	18.510	30.650	16.400	23.900	14.250	18.160	12.120	13.310	10.040	
	50	82.600	30.620	69.500	28.790	58.000	26.730	47.900	24.480	39.100	22.090	31.500	19.600	24.850	17.070	19.140	14.550	14.240	12.080	10.070	9.700	
2500-BW-95X	30			92.400	19.140	76.900	18.510	63.500	17.590	51.900	16.430	41.850	15.090	33.250	13.600	25.950	12.020	19.790	10.390	14.610	8.770	0,00
	40			79.400	22.590	65.900	21.370	54.100	19.900	43.900	18.240	35.150	16.430	27.700	14.520	21.300	12.560	15.970	10.610	11.510	8.700	
	50			66.100	25.490	54.600	23.720	44.550	21.740	35.900	19.600	28.450	17.360	22.100	15.060	16.750	12.750	12.260	10.480	8.540	8.310	
3000-BW-95X	30	108.800	18.930	91.000	18.630	75.500	18.000	62.100	17.100	50.500	15.960	40.500	14.640	32.000	13.180	24.700	11.630	18.590	10.020	13.450	8.410	0,00
	40	93.300	22.730	77.800	21.820	64.200	20.620	52.500	19.190	42.400	17.560	33.650	15.800	26.200	13.930	19.910	12.000	14.610	10.060	10.200	8.160	
	50	77.400	25.920	64.300	24.430	52.800	22.710	42.800	20.780	34.200	18.700	26.800	16.510	20.500	14.250	15.210	11.970	10.780	9.720	7.130	7.530	
2500-BW-106X	30			106.700	22.950	88.900	22.070	73.400	20.890	60.100	19.460	48.600	17.830	38.750	16.070	30.350	14.210	23.300	12.330	17.320	10.460	0,00
	40			91.300	27.010	75.900	25.450	62.600	23.650	51.000	21.640	41.000	19.490	32.450	17.250	25.150	14.970	19.020	12.710	13.380	10.510	
	50			75.700	30.560	62.800	28.350	51.500	25.940	41.750	23.380	33.300	20.720	26.100	18.010	19.970	15.320	14.800	12.690	10.490	10.180	
3500-BW-106X	30	126.200	22.850	105.700	22.360	88.000	21.530	72.500	20.420	59.200	19.060	47.750	17.520	37.900	15.840	29.550	14.060	22.500	12.250	16.560	10.440	0,00
	40	108.000	27.310	90.300	26.150	74.900	24.710	61.500	23.020	50.000	21.140	40.050	19.120	31.500	16.990	24.250	14.810	18.140	12.630	13.030	10.490	
	50	89.300	31.190	74.500	29.420	61.600	27.390	50.400	25.160	40.650	22.780	32.250	20.280	25.100	17.720	18.970	15.140	13.840	12.590	9.570	10.110	
3000-BW-129X	30			122.900	27.680	102.700	26.500	85.200	25.020	70.000	23.290	57.000	21.370	45.750	19.330	36.200	17.210	28.100	15.070	21.300	12.980	0,00
	40			105.200	32.620	87.900	30.690	72.900	28.500	59.800	26.130	48.550	23.630	38.900	21.050	30.600	18.460	23.600	15.910	17.660	13.460	
	50			87.200	37.240	72.800	34.530	60.300	31.640	49.400	28.610	39.950	25.520	31.800	22.400	24.850	19.330	18.920	16.350	13.930	13.540	
4000-BW-129X	30	143.700	27.040	120.400	26.290	100.300	25.200	82.800	23.840	67.700	22.230	54.700	20.450	43.500	18.520	34.050	16.510	26.000	14.450	19.280	12.410	0,00
	40	122.200	31.850	102.400	30.410	85.200	28.690	70.200	26.720	57.200	24.560	46.000	22.260	36.400	19.860	28.200	17.410	21.250	14.960	15.410	12.550	
	50	100.400	36.130	84.100	34.050	69.900	31.710	57.400	29.160	46.550	26.450	37.200	23.630	29.100	20.740	22.200	17.840	16.390	14.960	11.490	12.170	
4000-BW-154X	30			148.100	33.450	123.600	32.180	102.400	30.520	84.100	28.520	68.300	26.270	54.700	23.830	43.100	21.260	33.300	18.650	25.050	16.050	0,00
	40			126.600	38.970	105.700	36.820	87.500	34.340	71.800	31.590	58.100	28.630	46.350	25.550	36.250	22.400	27.700	19.260	20.450	16.190	
	50			104.400	43.700	87.200	40.710	72.200	37.440	59.100	33.950	47.650	30.330	37.750	26.630	29.250	22.930	21.900	19.300	15.660	15.800	
5000-BW-154X	30	174.500	33.410	146.400	32.590	122.000	31.300	100.800	29.630	82.500	27.630	66.700	25.380	53.200	22.930	41.650	20.370	31.900	17.740	23.700	15.140	0,00
	40	148.500	39.560	124.600	37.800	103.800	35.650	85.700	33.160	69.900	30.410	56.300	27.460	44.600	24.380	34.600	21.230	26.100	18.080	18.880	15.000	
	50	121.700	44.800	102.200	42.150	85.100	39.160	70.100	35.900	57.100	32.430	45.700	28.820	35.850	25.130	27.400	21.420	20.150	17.770	13.970	14.240	

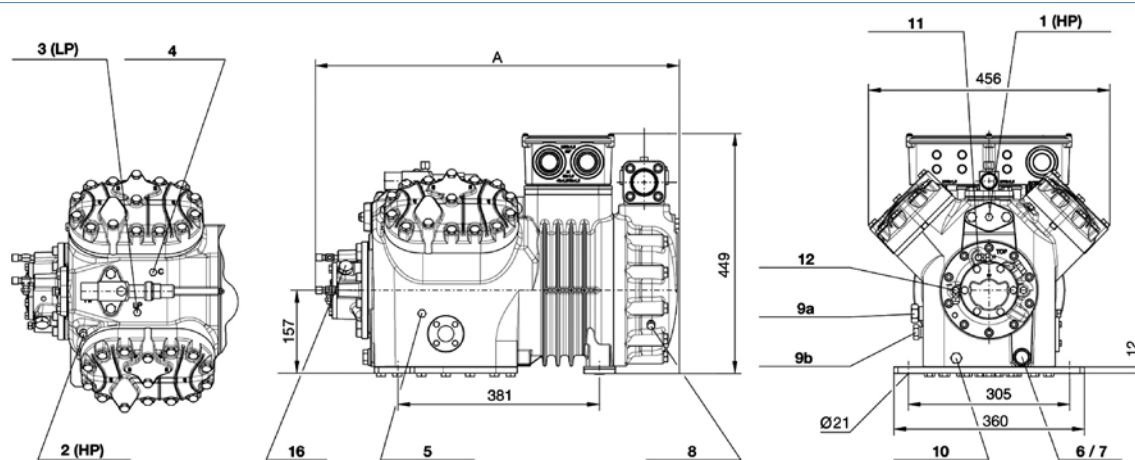
General dimensions and connections



Compressor model	A (mm)
300-BV-18 500-BV-18 400-BV-23 600-BV-23 500-BV-27	432
700-BV-27 600-BV-33 900-BV-33	457

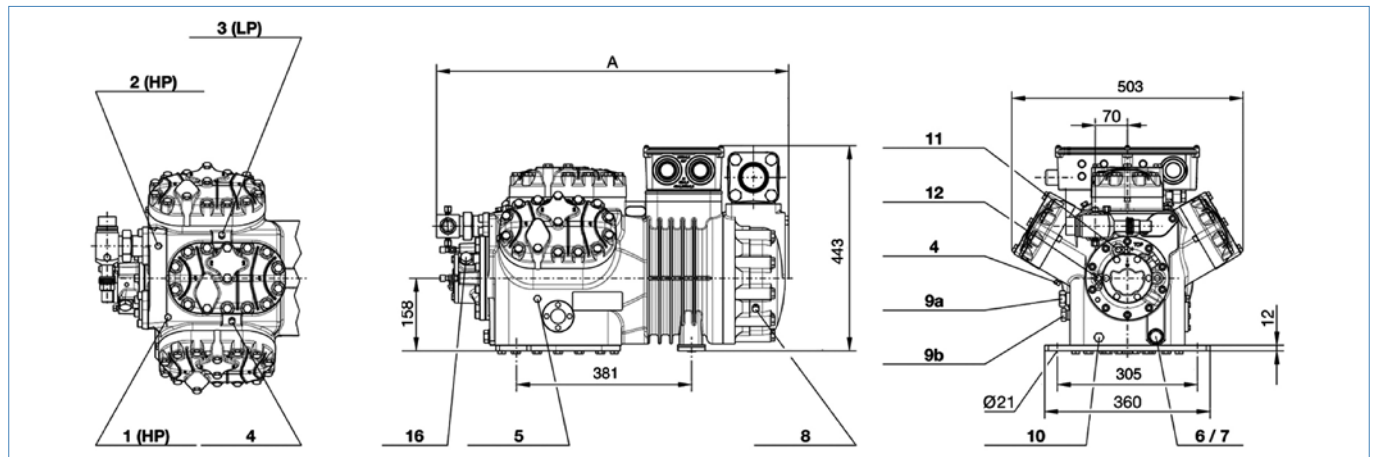


Compressor model	A (mm)
600-BV-34 1000-BV-34 800-BV-41 1200-BV-41 1000-BV-48 1200-BV-56	632
1500-BV-48 2000-BV-56	657

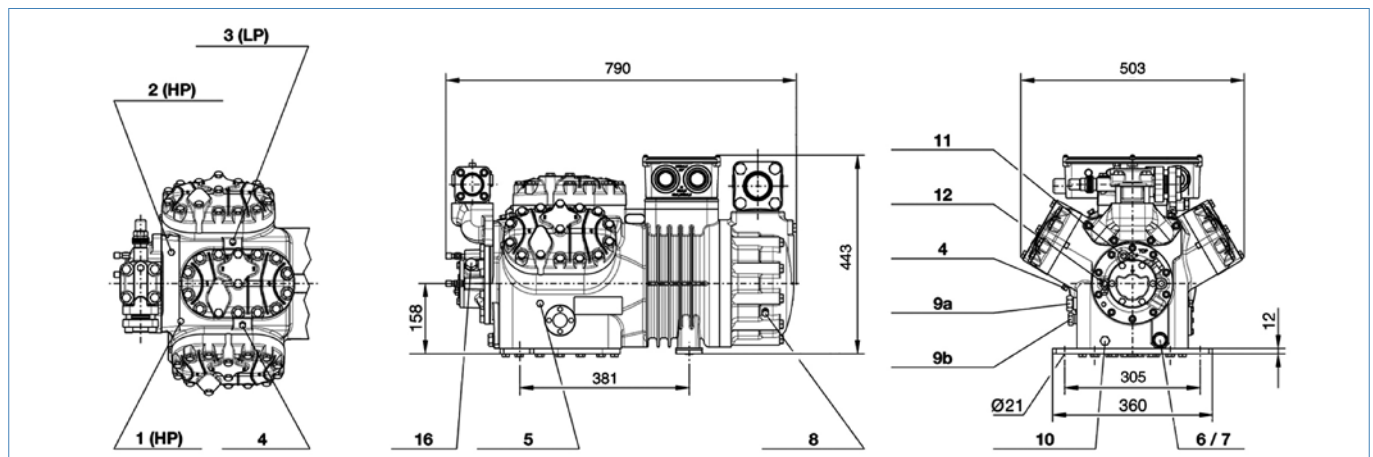


Compressor model	A (mm)
1500-BV-65 2000-BV-65 1500-BV-71 2500-BV-71	688
2000-BV-86	706
3000-BV-86 2500-BV-103 3500-BV-103	737

General dimensions and connections



Compressor model	A (mm)
250-BW-95 3000-BW-95 2500-BW-106 3000-BW-129	767
3500-BW-106 4000-BW-129	798



Compressor model	A (mm)
4000-BW-154 5000-BW-154	790

Connection position:

- 1** High pressure connection (HP)
- 2** Discharge gas temperature. Sensor (HP) or CIC 3 Sensor Low Pressure Connection (LP)
- 4** CIC system: nozzle (LP)
- 5** Oil filler plug
- 6** Oil drain
- 7** Oil filter (magnetic screw)
- 8** Return oil (oil separator)
- 9a** Gas equalization (parallel device)
- 9b** Oil compensation (parallel device)
- 10** Crankcase heater
- 11** Oil pressure connection+
- 12** Oil pressure connection-
- 16** Oil control connection (oil sensor or differential oil pressure sensor "Delta-P")
- 21** Oil service valve connection

ThermoJinn

BSV&BSW
Series

Two stage Compressor

8-30 Hp, 28-101m³/h, 50Hz

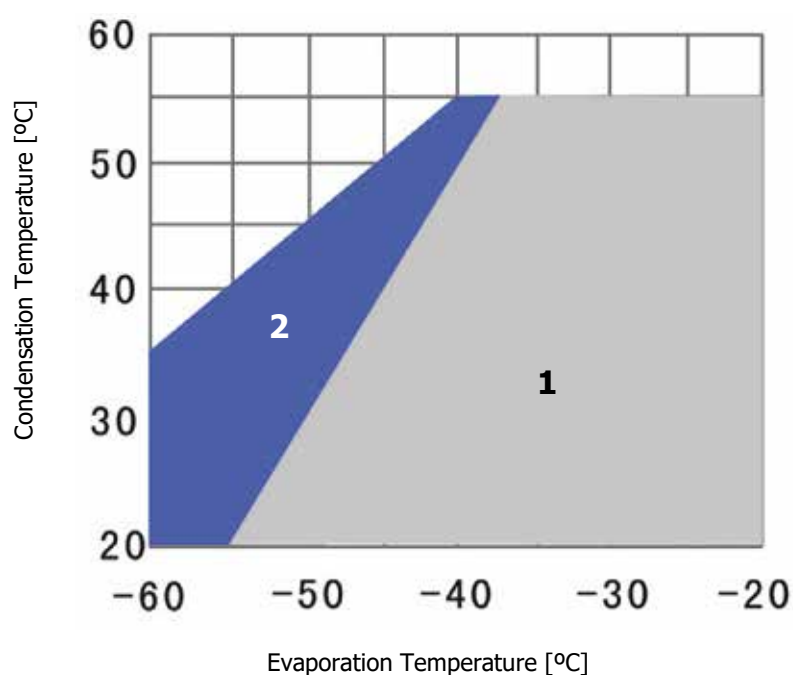


Technical data

LOW TEMPERATURE

MODEL	Cylinders	Motor Rated power [Hp]	Displacement 50 Hz [m³/hr]		Power Supply	Max Current MRA	Max Power kW	Connection Pipe			Weight [Kg]
			Low Pressure	High Pressure				Suction pipe [mm/inch.]	Discharge pipe [mm/inch.]	Oil Charge [dm³]	
BSV4-800	4	8	28	18	PW - Y Y - 380 V / 3~/50 Hz PW - Y Y - 440 V / 3~/60 Hz	17	9,7	28 / 1 1/8"	22 / 7/8"	3	145
BSV4-1200		12	42,3	27		24	13,8	35 / 1 3/8"	28 / 1 1/8"	4,5	180
BSW6-1600	6	16	63,5	31,8		31	18,1	42 / 1 5/8"	35 / 1 3/8"	4,8	209
BSW6-2000		20	73,6	36,9		37	21,5				220
BSW6-2500		25	84,5	42,3		45	24,9				233
BSW6-3000		30	101,1	50,5		53	30,1				234

R-404A / R-507 Applicatin limitation

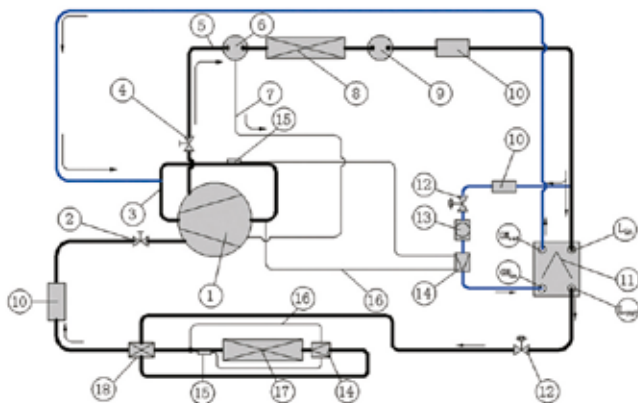


Limits refer to full load operation.

- 1 = Standard application
(20 [°C] suction gas temperature).
- 2 = Control the suction temperature.
Keep suction Superheat < 15.

Characteristics

- The most proper evaporating temperature for the single stage compressor with the refrigerant R22, when the cond. temp. is 30°C, 35°C and 40°C, the corresponding lowest Evaporating temp are -40°C, -35°C and -30°C. Lower than this, even if it can be working, it is not safe and not economic. In such cases, 2-stage compressors are necessary.
- For economy, energy saving and safety reasons, the suggested evap. Temp for the 2-stage compressors is -30°C to -40°C for R22 refrigerant. If with refrigerant R404A, the evap. Temp could be -45°C.
- There are high pressure stage and low pressure stage for the 2-stage compressors. The refrigerant coming from the evaporator first goes into low pressure stage cylinder, then compressed and goes into the mid pressure pipe where mixing with the refrigerant which is cooled and compressed from the system liquid supply pipe to the mid cooling expansion valve and mid cooler,
- then, it goes into the motor chamber to cool the motor and then goes into the high pressure stage cylinder to be compressed and last to the condenser.
- Liquid subcooler is an important element to make the 2-stage compressor system more efficient and with larger cooling capacity. In order to make the compressor as well as the liquid subcooler working smoothly, there must be enough refrigerant in the system pipes so that there would be no bubble appeared before the liquid refrigerant coming from the high pressure stage cylinder going into the subcooler and mid cooling expansion valve.
- In addition to the standard supply of corresponding single-stage compressor accessories, the intermediate refrigeration device is also provided as the standard supply of two-stage compressor, including liquid subcooler, solenoid valve, liquid viewfinder and intermediate refrigeration expansion valve.



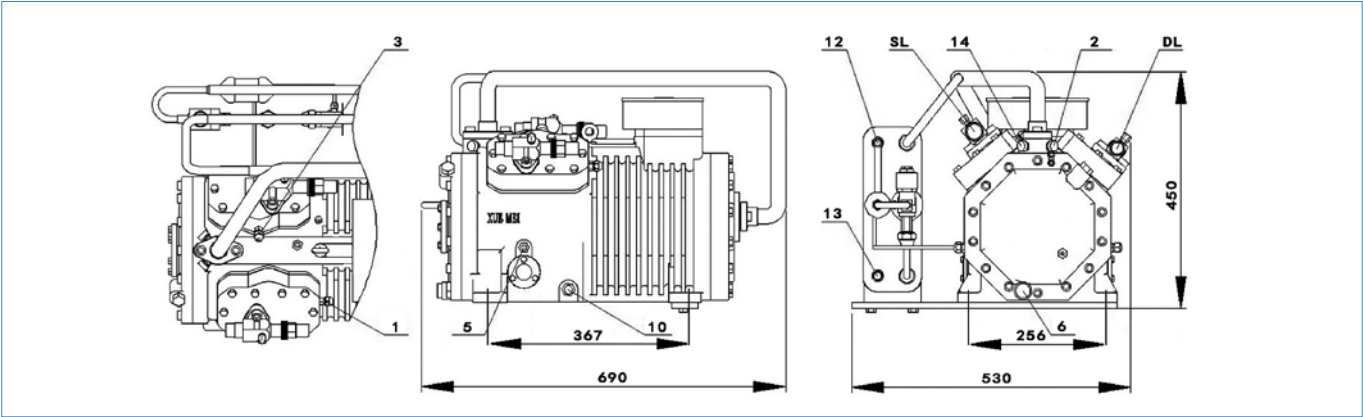
1 compressor. 2 Low pressure suction valve. 3 Medium pressure pipe. 4 High pressure discharge valve. 5 Discharge pipe. 6 Oil separator. 7 Oil return pipe. 8 Condenser. 9 Reservoir. 10 Filter. 11 liquid subcooler. 12 Solenoid valve. 13 Oil level gauge.

14 Expansion valve. 15 Thermal packaging. 16 Equal volume tube. 17 Evaporator. 18 Regenerator. GMI superheater inlet GMO superheater outlet LI refrigerant inlet LO refrigerant outlet LO.

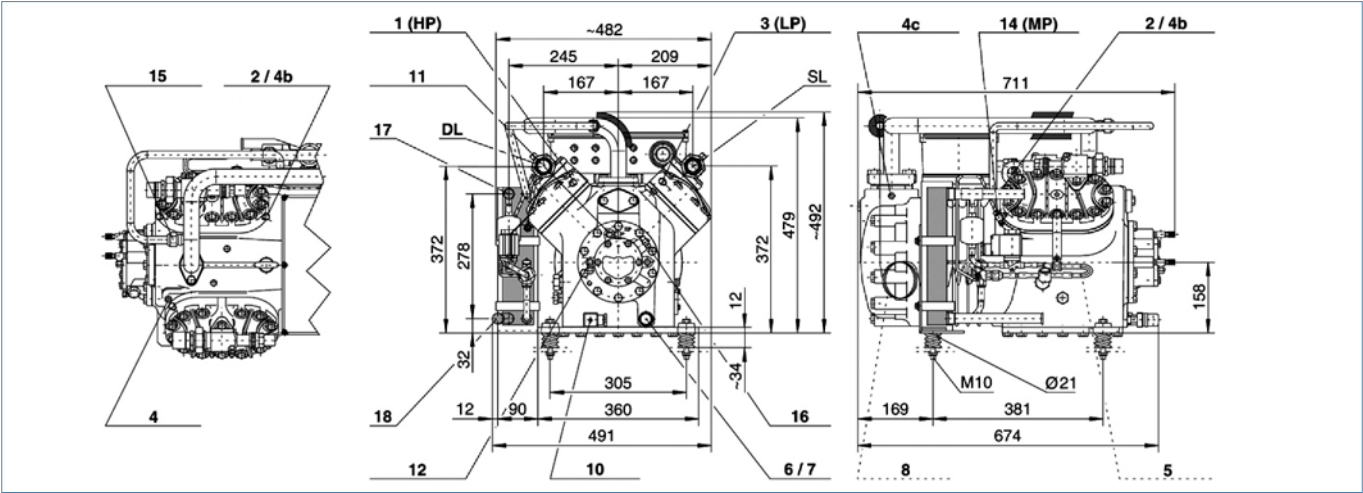
BSV&BSW, R-404A/R-507A

LOW TEMPERATURE

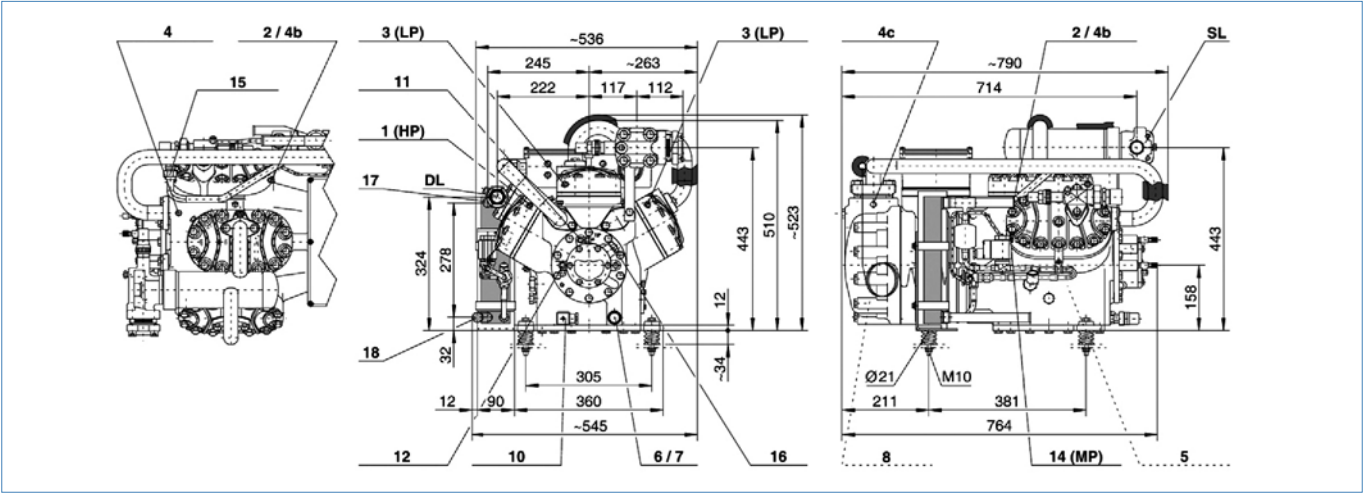
Model	Cond. Temp. °C	Performance (W)																				Price €
		-25 °C		-30 °C		-35 °C		-40 °C		-45 °C		-50 °C		-55 °C		-60 °C		-65 °C		-70 °C		
		Q (Cooling capacity) W	P (Input power) W	Q (Cooling capacity) W	P (Input power) W	Q (Cooling capacity) W	P (Input power) W	Q (Cooling capacity) W	P (Input power) W	Q (Cooling capacity) W	P (Input power) W	Q (Cooling capacity) W	P (Input power) W	Q (Cooling capacity) W	P (Input power) W	Q (Cooling capacity) W	P (Input Power) W	Q (Cooling capacity) W	P (Input power) W	Q (Cooling capacity) W	P (Input power) W	
BSV4-800X	30	12.990	6.420	10.860	6.000	8.980	5.550	7.340	5.070	5.910	4.570	4.680	4.060	3.640	3.550	2.750	3.060	2.010	2.590	1.400	2.150	0,00
	40	12.500	7.310	10.460	6.780	8.650	6.220	7.070	5.650	5.690	5.070	4.490	4.480	3.480	3.890	2.620	3.310	1.890	2.750			
	50	11.990	8.170	10.050	7.540	8.320	6.900	6.790	6.260	5.460	5.600	4.310	8.800	3.320	4.260							
BSV4-1200X	30	19.490	9.740	16.830	9.060	14.280	8.350	11.860	7.610	9.650	6.850	7.680	6.100	5.980	5.350	4.570	4.620	3.410	3.920	2.490	3.270	0,00
	40	18.920	11.050	16.230	10.230	13.690	9.370	11.340	8.490	9.220	7.600	7.360	6.720	5.760	5.850	4.400	5.010	3.250	4.220			
	50	18.070	12.320	15.480	11.400	13.060	10.440	10.850	9.440	8.860	8.420	7.100	7.410	5.540	6.410							
BSW6-1600X	30	27.600	14.130	23.750	12.930	20.150	11.760	16.810	10.610	13.760	9.490	11.030	8.410	8.660	7.370	6.650	6.400	4.990	5.490	3.660	4.650	0,00
	40	26.500	16.000	22.800	14.580	19.340	13.210	16.110	11.900	13.180	10.630	10.580	9.420	8.330	8.260	6.410	7.160	4.790	6.100			
	50	25.500	17.830	21.900	16.230	18.520	14.680	15.440	13.200	12.670	11.780	10.210	10.410	8.020	9.100							
BSW6-2000X	30	31.900	16.430	27.450	15.020	23.300	13.640	19.440	12.300	15.910	11.000	12.760	9.760	10.020	8.570	7.690	7.440	5.770	6.400	4.230	5.400	0,00
	40	30.600	18.530	26.350	16.900	22.350	15.320	18.610	13.790	15.230	12.330	12.240	10.920	9.640	9.570	7.420	8.290	5.540	7.070			
	50	29.350	20.630	25.200	18.790	21.350	17.010	17.810	15.300	14.630	13.650	11.800	12.070	9.280	10.550							
BSW6-2500X	30	36.200	18.840	31.300	17.270	26.600	15.710	22.250	14.160	18.220	12.650	14.620	11.190	11.480	9.800	8.830	8.490	6.630	7.290	4.870	6.200	0,00
	40	34.900	21.270	30.100	19.400	25.500	17.600	21.300	15.850	17.420	14.160	14.000	12.550	11.040	11.000	8.500	9.520	6.350	8.130			
	50	33.450	23.710	28.750	21.580	24.350	19.350	20.350	17.560	16.720	15.670	13.490	13.850	10.620	12.100							
BSW6-3000X	30	43.400	22.530	37.400	20.650	31.750	18.780	26.500	16.940	21.700	15.150	17.420	13.420	13.690	11.770	10.540	10.200	7.920	8.740	5.800	7.400	0,00
	40	41.500	25.200	35.700	23.100	30.300	21.010	25.300	18.960	20.700	16.950	16.680	15.000	13.170	13.140	10.150	11.370	7.590	9.720			
	50	39.500	28.070	34.000	25.690	28.850	23.330	24.100	21.010	19.870	18.750	16.060	16.570	12.650	14.490							



Compressor Model	BSV4-800
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Compressor Model	BSV4-1200
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Compressor Model	BSW6-1600	BSW6-2000	BSW6-2500	BSW6-3000
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Connection pistons:

- | | |
|---|--|
| 1 High pressure connection (HP) | 11 Oil pressure connection + |
| 2 Exhaust temperature sensor (high pressure) | 12 Oil pressure connection- |
| 3 Low pressure connection (LP) | 14 Intermediate pressure connection(MP) |
| 5 Oil filler plug | 15 Liquid injection (operation without liquid superheater and thermostatic expansion valve) |
| 6 Oil drain | 16 Connect the oil differential pressure switch "Delta-P" |
| 7 Oil filter | 17 Coolant inlet of the liquid superheater |
| 8 Return oil (oil separator) | 18 Coolant outlet of liquid superheater |
| 10 Crankcase heater | |

SRC Series

- Silence and very low vibration
- Compact and simple to install
- Operational reliability and safety
- Optimum lubrication
- Easy to maintain

The best solutions and products for you.

by products and services.

A bald eagle is shown in flight, wings spread wide, flying over a rugged mountain range. The scene is bathed in a warm, golden light, suggesting a sunrise or sunset. The eagle is positioned in the lower right quadrant of the image, flying towards the left. The mountains are jagged and rocky, with some snow or light-colored patches visible. The overall mood is one of strength and freedom.

THERMOJINN

Refrigeration products

ThermoJinn

SRC Series

Semi-hermetic Screw Compressor

40-160 Hp, 140-535 m³/h, 50Hz



Technical data

MEDIUM HIGH & LOW TEMPERATURE

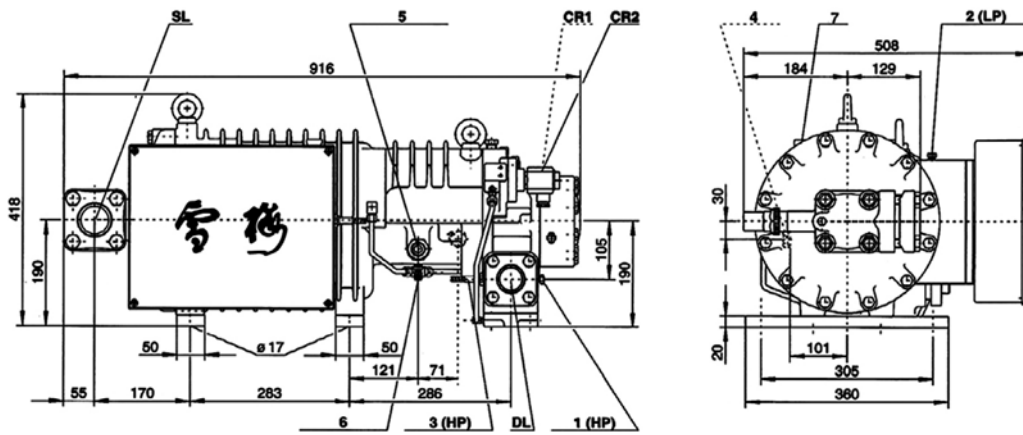


High efficiency compressor with rated power of 40 to 160 HP and displacement of 140 to 535 m³/h.

MODEL	Displacement 50 Hz	Weight	Pipe connections Discharge Line		Pipe connections Suction Line		Capacity steps nominal	Power supply	Max Current	Max Power
	[m ³ /hr]	[Kg]	[mm]	[inch.]	[mm]	[inch.]	[%]		A	kW
SRC 40140	140	235	42	1 5/8"	54	2 1/8"	100/75/50	380 V ± 10% Δ/ Δ~3/50 Hz 440 V ± 10% Δ/ Δ~3/60 Hz	65	40
SRC 50140		240					100/85/60		79	50
SRC 50165	165	240					100/75/45		79	50
SRC 60165		250					100/80/55		98	65
SRC 60200	192	300	54	2 1/8"	76	3 1/8"	100/80/65		98	65
SRC 70200		305					100/75/45		124	75
SRC 70220	220	310					100/75/60		124	75
SRC 80220		315					100/70/40		144	85
SRC 75250	250	330					100/75/55		144	85
SRC 90250		340					100/60/40		162	92
SRC 110315	315	565	76	3 1/8"	DN100	DN100	100/75/50		180	110
SRC 125360	360	575					100/75/50		216	130
SRC 140410	410	580					100/75/50		246	150
SRC 125410		575					100/75/50		216	130
SRC 160535	315	605					100/75/50		260	170

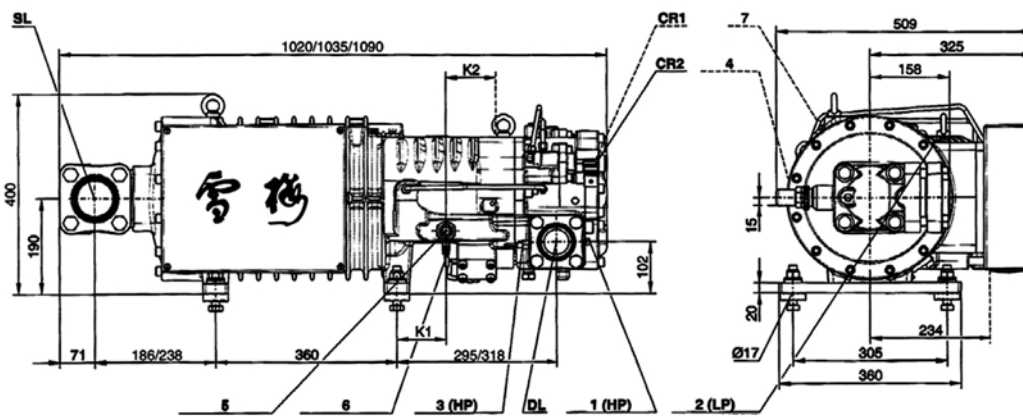
Notas: 1. For the selection of relay, cable and fuses, the MRA must be considered.
2. Oil cooler assembling is optional.

General dimensions and connections



Compressor Model

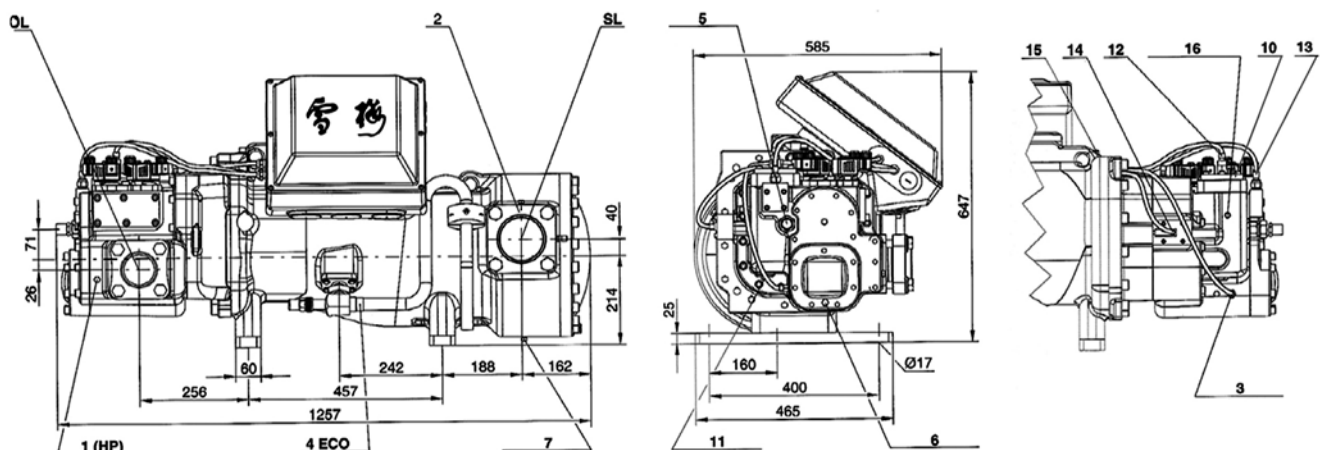
4000-SRC-140 5000- SRC-140 5000- SRC-165 6000-SRC-165



Compressor Model

6000-SRC-200 7000-SRC-200 7000-SRC-220 8000-SRC-220 7500-SRC-250 9000-SRC-250

- 1 High pressure connector
- 2 Low pressure connector
- 3 Discharge temperature sensor
- 4 Economizer/liquid injection
- 5 Oil spray
- 6 Oil pressure connector
- 7 Threaded hole for fix



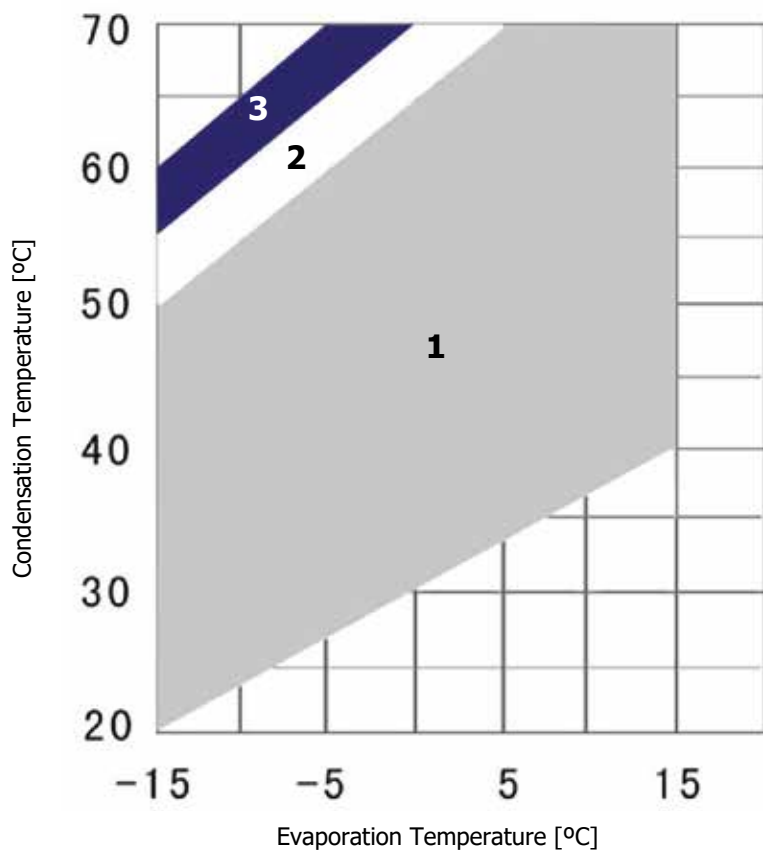
Compressor Model

1100-SRC-315 12500-SRC-360 1400-SRC-410 12500-SRC-410 1600-SRC-535

- 1 High pressure connector
- 2 Low pressure connector
- 3 Discharge temperature sensor
- 4 Economizer/liquid injection
- 5 Oil spray
- 6 Oil discharge port of compression chamber
- 7 Oil discharge port of motor chamber
- 10 Oil filter maintenance interface
- 11 Oil discharge port of oil filter
- 12 Oil shut-off valve/rotation monitor
- 13 Oil filter monitor
- 14 Oil flow switch
- 15 Bbody grounding bolt
- 16 Ppressure release connector of oil filter chamber

Technical data

R-134a Medium and High temperature application limit



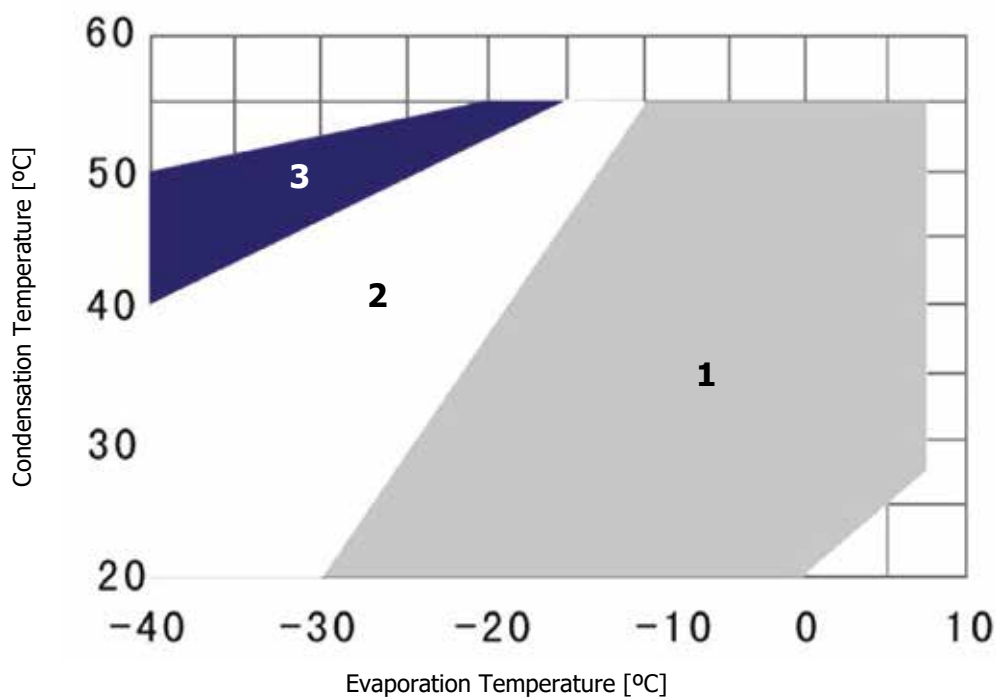
Limits refer to full load operation.

1 = Usual use.

2 = Liquid injection.

2 = With liquid injection and oil cooler.

R-404A Medium and Low temperature application limit



Operating Characteristics of Refrigeration Compressor

- Any operation of the compressor or cooling system must be carried out by professionals.
- Before using the compressor, it is necessary to read the corresponding operation manual carefully. Any operation of the buyer must be conducted under the guidance of the operation manual and relevant standard safety rules.
- It is prohibited to use any flammable gas to pressure test or FU gas test the compressor and cooling system.
- It is prohibited to use a semi enclosed CO compressor to pump or start the compressor, or perform electrical or insulation tests on the system under vacuum conditions. Before starting the compressor, make sure that the suction and discharge valves are open.
- The compressor must be kept away from any heat source. When the compressor is running, the surface temperature of MIS-MO may be lower than 0 ° C or higher than 100 ° C. Keep away from it to prevent it from burning or scratching. During operation, be careful not to inhale or inhale the coolant - otherwise, the coolant may cause blindness or other discomfort.
- There are two types of positive displacement compressors, one for medium high temperature range and the other for medium low temperature operation. Please select the correct one.

Compressors in the medium and low temperature range cannot be used for compressors with evaporation temperature exceeding - 5 ° C or with engine overload. Medium and high temperature compressors shall be suitable for those with evaporation temperature lower than 25 ° C, or those with low efficiency and overheating.

- When the evaporation temperature is higher than - 35 ° C, it is more reasonable, economical and energy saving to use a primary compressor, and when the evaporation temperature is between - 45 ° C and - 60 ° C, it is more economical to use a two-stage compressor. If the evaporation temperature is below - 60 ° C, a cascade system is recommended.
- Do not mix with different lubricating oils.
- In order to ensure the stable operation of the compressor, it is necessary to reasonably design the whole system, operate according to standard rules, and carry out necessary maintenance.
- When the buyer's safety protection works, the compressor stops. Before restarting, check and analyze the causes and solve them in time. If there is liquid attack, engine burning or rotor blockage, the compressor will break. Check the whole system, instead of simply replacing a new compressor or just servicing the compressor. Because if the system problem cannot be solved, the same fault will occur again after the compressor is replaced with a new one.



ThermoJinn

Refrigeration products