

# SANYO SCROLL COMPRESSORS

# For Air Conditioning For Refrigeration



Dalian SANYO Compressor Co., Ltd.

#### R22 - B8 (50Hz 380-415V / 60Hz 440-460V)

	Out Put	Displac	0	0	O. 11		50	Hz			60H	z		
Phase	Out Put	ement	Compressor Model	Compressor Code	Starting Method	Nominal	Capacity	C	OP	Nominal C	apacity	C	OP	Outline Graph Code
	HP	cm <sup>3</sup> /rev	wodei	Code	Wethou	kW	kBTU/h	W/W	BTU/Wh	kW	kBTU/h	W/W	BTU/Wh	Code
		51.8	C-SB263H8B	809 831 88	_	9.15	31.2	3.10	10.6	11.2	38.2	3.20	10.9	В
	3.5	51.8	C-SB263H8C	809 832 88	_	9.15	31.2	3.10	10.6	11.2	38.2	3.20	10.9	Α
		55.7	C-SB263H8A	809 830 88	_	9.60	32.8	3.10	10.6	11.8	40.3	3.19	10.9	В
	4	66.8	C-SB303H8A	809 840 88	_	11.8	40.3	3.23	11.0	14.4	49.2	3.27	11.2	Α
	4	00.0	C-SB303H8G	809 846 88	_	11.8	40.3	3.23	11.0	14.4	49.2	3.27	11.2	At
	4.5	77.4	C-SB353H8A	809 842 88	_	13.5	46.1	3.18	10.9	16.7	57.0	3.28	11.2	Α
	4.5	77.4	C-SB353H8G	809 847 88	_	13.5	46.1	3.18	10.9	16.7	57.0	3.28	11.2	At
		83.2	C-SB373H8A	809 850 88	_	14.5	49.5	3.19	10.9	17.9	61.1	3.23	11.0	Α
	5	03.2	C-SB373H8G	809 856 88	_	14.5	49.5	3.19	10.9	17.9	61.1	3.23	11.0	At
		85.5	C-SB373H8F	809 855 88	_	15.0	51.2	3.19	10.9	18.4	62.8	3.20	10.9	Α
	5.5	90.6	C-SBR195H38A	_	_	16.0	54.6	3.20	10.9	19.4	66.2	3.23	11.0	Α
			C-SB453H8A	809 860 88	_	17.7	60.4	3.26	11.1	21.5	73.4	3.24	11.1	Α
	6	100.0	C-SB453H8F	809 865 88	_	17.7	60.4	3.26	11.1	21.5	73.4	3.24	11.1	Jt
3			C-SB453H8G	809 866 88	_	17.7	60.4	3.26	11.1	21.5	73.4	3.24	11.1	At
	7	110.2	C-SBR235H38A	ı	_	19.2	65.6	3.20	10.9	23.2	79.2	3.27	11.2	Α
	,	110.2	C-SBR235H38B	-	_	19.2	65.6	3.20	10.9	23.2	79.2	3.27	11.2	At
		131.9	C-SC583H8H	809 284 88	_	23.6	80.6	3.30	11.3	28.5	97.3	3.26	11.1	D
	8	131.9	C-SC583H8K	809 286 88	_	23.6	80.6	3.30	11.3	28.5	97.3	3.26	11.1	Dt
	0	137.0	C-SC603H8H	809 281 88	_	24.5	83.6	3.31	11.3	29.6	101.1	3.29	11.2	D
		137.0	C-SC603H8K	809 283 88	_	24.5	83.6	3.31	11.3	29.6	101.1	3.29	11.2	Dt
	9	148.8	C-SC673H8H	809 291 88	_	26.5	90.5	3.29	11.2	32.0	109.3	3.27	11.2	D
	9	140.0	C-SC673H8K	809 293 88	_	26.5	90.5	3.29	11.2	32.0	109.3	3.27	11.2	Dt
	10	171.2	C-SC753H8H	809 201 88	_	30.6	104.5	3.38	11.5	36.9	126.0	3.32	11.3	E
	10	171.2	C-SC753H8K	809 203 88	_	30.6	104.5	3.38	11.5	36.9	126.0	3.32	11.3	Et
		199.1	C-SC863H8H	809 224 88	ĺ	35.2	120.2	3.32	11.3	ı	ı	1	_	E
	12	205.4	C-SC903H8H	809 221 88	-	36.1	123.3	3.31	11.3	ļ	I	1		E
		203.4	C-SC903H8K	809 223 88		36.1	123.3	3.31	11.3	-	_	-	-	Et

# R22 - B8 (50Hz 380-415V / 60Hz 440-460V)

#### Hi-COP Models

			17.18		77					***	1969-1			
	Out Put	Displac	Compressor	Compressor	Chartina		50	Hz			60H	lz		
Phase	Out Put	ement	Compressor Model	Compressor Code	Starting Method	Nominal	Capacity	C	OP	Nominal C	apacity	C	OP	Outline Graph Code
	HP	cm <sup>3</sup> /rev	iviouei	Code	Wictiod	kW	kBTU/h	W/W	BTU/Wh	kW	kBTU/h	W/W	BTU/Wh	5545
	3.5	55.7	C-SBX120H38A	_	_	10.0	34.1	3.35	11.4	12.0	41.0	3.38	11.5	Developing
	4	66.8	C-SBX145H38A	_	_	12.0	41.0	3.40	11.6	14.6	49.8	3.42	11.7	Developing
	4.2	70.1	C-SBX150H38A	_	-	12.5	42.7	3.40	11.6	15.0	51.2	3.42	11.7	Α
	4.4	73.2	C-SBX160H38A	_	_	13.1	44.7	3.40	11.6	15.8	53.9	3.42	11.7	Α
			C-SBX165H38A	_	_	13.5	46.1	3.33	11.4	16.3	55.7	3.33	11.4	Α
	4.5	5 76.0	C-SBX165H38B	_	-	13.5	46.1	3.33	11.4	16.3	55.7	3.33	11.4	At
3			C-SBX165H38C	_	_	13.6	46.4	3.32	11.3	16.5	56.3	3.33	11.4	Α
		01.0	C-SBX180H38A	_	-	14.3	48.8	3.33	11.4	17.3	59.1	3.33	11.4	Α
	5	81.0	C-SBX180H38B	_	_	14.3	48.8	3.33	11.4	17.3	59.1	3.33	11.4	At
	5	83.7	C-SBX180H38C	_	-	14.7	50.2	3.30	11.3	17.8	60.8	3.30	11.3	Α
		65.1	C-SBX180H38D	_	-	14.7	50.2	3.30	11.3	17.8	60.8	3.30	11.3	At
	5.5	90.6	C-SBX195H38A	_	-	16.3	55.7	3.33	11.4	19.8	67.6	3.38	11.5	Α
	6	100.0	C-SBX215H38P	_	_	17.7	60.4	3.33	11.4	21.5	73.4	3.33	11.4	Α

#### R22 - B8 (50Hz 380-415V / 60Hz 440-460V)

# EVI Models

	Out Put	Displac	Compressor	Compressor	Ctantin a		50Hz (	Cooling			50Hz He	eating		0 111 0 1
Phase		ement	Compressor Model	Compressor Code	Starting Method	Nominal Cap		C	OP	Nominal C	apacity	C	OP	Outline Graph Code
	HP	cm <sup>3</sup> /rev	iviouei	Code	Metriod	kW	kBTU/h	W/W	BTU/Wh	kW	kBTU/h	W/W	BTU/Wh	Code
	3.5	55.7	C-SBR120H38Q	_	_	10.0	34.1	3.21	11.0	10.3	35.2	3.33	11.4	Developing
	4	66.8	C-SBR145H38Q	-	I	11.9	40.6	3.25	11.1	12.0	41.0	3.33	11.4	Developing
3	5	83.2	C-SBR180H38Q	-	I	14.8	50.5	3.33	11.4	14.8	50.5	3.36	11.5	Developing
	8	137.0	C-SCR295H38Q	-	1	24.5	83.6	3.31	11.3	24.5	83.6	3.36	11.5	Developing
	10	171.2	C-SCR370H38Q	-	-	30.6	104.5	3.38	11.5	29.6	101.1	3.36	11.5	Developing

#### R22 - B5 (50Hz 220-240V)

	Out Put	Displac	C	0	Ot a disc		50	Hz		
Phase	Out Put	ement	Compressor Model	Compressor Code	Starting Method	Nominal	Capacity	C	OP	Outline Graph Code
	HP	cm <sup>3</sup> /rev	iviouei	Code	Wictiod	kW	kBTU/h	W/W	BTU/Wh	5545
		51.8	C-SB261H5B	809 831 45	CSR	9.10	31.1	2.94	10.0	Α
	3.5	31.0	C-SBR110H15A	-	PSC	9.10	31.1	2.94	10.0	Α
	3.5	55.7	C-SB261H5A	809 830 45	CSR	9.70	33.1	2.98	10.2	Α
		55.7	C-SBR120H15A	ı	PSC	9.70	33.1	2.98	10.2	Α
4	4	66.8	C-SB301H5A	809 840 45	CSR	11.7	39.9	3.12	10.7	Α
1	4	00.0	C-SBR145H15A	_	PSC	12.7	43.4	3.12	10.7	Α
	4.5	77.4	C-SB351H5A	809 842 45	PSC	13.7	46.8	3.08	10.5	Α
	4.5	77.4	C-SBR165H15A	_	PSC	13.7	46.8	3.08	10.5	А
	5	83.2	C-SB371H5A	809 850 45	PSC	14.7	50.2	3.16	10.8	Α
	5		C-SBR180H15A	_	PSC	14.7	50.2	3.16	10.8	Developing
	5.8	93.1	C-SBR200H15H	1	PSC	16.4	56.0	3.12	10.7	J
	4	66.8	C-SB303H5A	809 840 85	_	11.7	39.9	3.16	10.8	Α
	5	83.2	C-SB373H5A	809 850 85	_	14.7	50.2	3.16	10.8	Α
3	6	100.0	C-SB453H5A	809 860 85	_	17.8	60.8	3.24	11.1	Α
3	8	137.0	C-SC603H5H	809 281 85	_	24.2	82.6	3.29	11.2	D
	10	171.2	C-SC753H5H	809 201 85	_	30.6	104.5	3.36	11.5	Е
	12	205.4	C-SC903H5H	809 221 85	_	36.0	122.9	3.30	11.3	F

#### R22 - B5 (50Hz 220-240V)

#### Hi-COP Models

Ī		Out Put	Displac	Compressor	Compressor	Otantin n		50	Hz		0 111 0 1
	Phase	Out Fut	ement	Model	Compressor	Starting Method	Nominal	Capacity	C	OP .	Outline Graph Code
		HP	cm <sup>3</sup> /rev	Wodel	Code	moulou	kW	kBTU/h	W/W	BTU/Wh	
	1	4	66.8	C-SBX145H15A	_	PSC	12.0	41.0	3.30	11.3	Developing
	,	5	83.2	C-SBX180H15A	_	PSC	14.7	50.2	3.25	11.1	Developing

#### R22 - B5 (50Hz 220-240V)

# T3 Models

	Out Put	Displac	Compressor	Compressor	01		50	Hz		
Phase	Out Fut	ement	Compressor Model	Compressor	Starting Method	Nominal	Capacity	C	OP	Outline Graph Code
	HP	cm <sup>3</sup> /rev	Model	Code	Wictriod	kW	kBTU/h	W/W	BTU/Wh	5545
	3.5	55.7	C-SBR120H15P	_	PSC	9.70	33.1	2.98	10.2	Α
1	4	66.8	C-SBR145H15P	I	PSC	11.8	40.3	3.19	10.9	А
	4.5	77.4	C-SBR165H15P	-	PSC	13.7	46.8	3.08	10.5	Developing



#### R22- B5 (50Hz 220-240V)

	Out Put	Displac	Compressor			Compressor Starting			50Hz (	Cooling			50Hz He	eating		0 111 0 1
Phas		ement	ent Compressor  Model			Nominal	Capacity	C	OP	Nominal C	apacity	C	OP	Outline Graph Code		
	HP	cm <sup>3</sup> /rev	Wodel	Code	Wethod	kW	kBTU/h	W/W	BTU/Wh	kW	kBTU/h	W/W	BTU/Wh			
1	3.5	55.7	C-SBR120H15Q	_	PSC	10.6	36.2	3.02	10.3	10.8	36.9	3.21	11.0	Developing		
'	4	66.8	C-SBR145H15Q	_	PSC	12.4	42.3	3.15	10.8	12.1	41.3	3.32	11.3	Developing		

#### R22 - B9 (60Hz 380V)

	0.15.1	Displac	_				60	Hz		
Phase	Out Put	ement	Compressor Model	Compressor Code	Starting Method	Nominal	Capacity	C	OP	Outline Graph Code
	HP	cm <sup>3</sup> /rev	Wodel	Odde	ouiou	kW	kBTU/h	W/W	BTU/Wh	
		51.8	C-SB263H9B	809 831 89	_	10.9	37.2	3.03	10.3	В
	3.5	31.0	C-SB263H9C	809 832 89	_	10.9	37.2	3.03	10.3	Α
		55.7	C-SB263H9A	809 830 89	_	11.8	40.3	2.98	10.2	Α
	4	66.8	C-SB303H9A	809 840 89	_	14.2	48.5	3.23	11.0	Α
	4	00.0	C-SB303H9G	809 846 89	_	14.2	48.5	3.23	11.0	At
	4.5	77.4	C-SB353H9A	809 842 89	_	16.6	56.7	3.25	11.1	Α
	5	02.0	C-SB373H9A	809 850 89	_	17.8	60.8	3.24	11.1	Α
3	5	83.2	C-SB373H9G	809 856 89	_	17.8	60.8	3.24	11.1	At
	6	100.0	C-SB453H9A	809 860 89	_	21.2	72.4	3.24	11.1	Α
	О	100.0	C-SB453H9G	809 866 89	_	21.2	72.4	3.24	11.1	At
	8	137.0	C-SC603H9H	809 281 89	_	29.6	101.1	3.29	11.2	D
	0	137.0	C-SC603H9K	809 283 89	_	29.6	101.1	3.29	11.2	Dt
	10	171.2	C-SC753H9H	809 201 89	_	37.3	127.3	3.36	11.5	E
	10	171.2	C-SC753H9K	809 203 89	_	37.3	127.3	3.36	11.5	Et
	12	205.4	C-SC903H9H	809 221 89	_	44.4	151.6	3.31	11.3	Developing

#### R22 - B6 (60Hz 208-230V)

	0.15.1	Displac					60	Hz		
Phase	Out Put	ement	Compressor	Compressor	Starting Method	Nominal	Capacity	C	OP	Outline Graph Code
	HP	cm <sup>3</sup> /rev	Model	Code	ivietnod	kW	kBTU/h	W/W	BTU/Wh	Code
		51.8	C-SB261H6C	809 832 46	CSR	11.2	38.2	3.11	10.6	Α
		31.6	C-SBR110H16A	_	PSC	11.2	38.2	3.11	10.6	Α
	3.5		C-SB261H6A	809 830 46	CSR	12.1	41.3	3.23	11.0	Α
		55.7	C-SBR120H16A	_	PSC	12.1	41.3	3.23	11.0	Α
			C-SB261H6D	809 833 46	PSC	12.1	41.3	3.23	11.0	A倒三
1	4	66.8	C-SB301H6B	809 841 46	CSR	14.5	49.5	3.26	11.1	Α
	4	00.0	C-SBR145H16A	_	PSC	14.5	49.5	3.26	11.1	А
			C-SB351H6A	809 842 46	CSR	16.8	57.4	3.20	10.9	As
	4.5	77.4	C-SBR165H16A	_	PSC	16.8	57.4	3.20	10.9	As
			C-SB351H6C	809 844 46	PSC	16.8	57.4	3.20	10.9	A倒三
	5	83.2	C-SB371H6A	809 850 46	CSR	18.0	61.5	3.13	10.7	Α
	3.5	51.8	C-SB263H6C	809 832 86	_	11.1	37.9	3.13	10.7	Α
	3.5	55.7	C-SB263H6B	809 831 86	_	11.9	40.6	3.22	11.0	Α
			C-SB303H6A	809 840 86	_	14.4	49.2	3.27	11.2	As
	4	66.8	C-SB303H6B	809 841 86	_	14.4	49.2	3.27	11.2	Α
			C-SB303H6G	809 846 86	_	14.4	49.2	3.27	11.2	At
	4.5	77.4	C-SB353H6B	809 843 86	_	16.8	57.4	3.29	11.2	Α
	4.5	77.4	C-SB353H6C	809 844 86	_	16.8	57.4	3.29	11.2	Α
			C-SB373H6A	809 850 86	_	18.1	61.8	3.32	11.3	As
	5	83.2	C-SB373H6B	809 851 86	_	18.1	61.8	3.32	11.3	Α
			C-SB373H6G	809 856 86	_	18.1	61.8	3.32	11.3	At
3			C-SB453H6A	809 860 86	_	21.3	72.7	3.25	11.1	As
	6	100.0	C-SB453H6B	809 861 86	_	21.3	72.7	3.25	11.1	Α
			C-SB453H6G	809 866 86	_	21.3	72.7	3.25	11.1	At
	7	110.2	C-SBR235H36A		_	23.3	79.6	3.28	11.2	Developing
		131.9	C-SC583H6H	809 284 86	_	27.9	95.3	3.19	10.9	D
	8	137.0	C-SC603H6H	809 281 86	_	29.6	101.1	3.31	11.3	D
			C-SC603H6K	809 283 86		29.6	101.1	3.31	11.3	Dt
	9	148.8	C-SC673H6H	809 291 86		32.3	110.3	3.38	11.5	Е
	10	171.2	C-SC753H6H	809 201 86	_	37.0	126.3	3.36	11.5	E
			C-SC753H6K	809 203 86		37.0	126.3	3.36	11.5	Et
	12	205.4	C-SC903H6H	809 221 86		43.2	147.5	3.15	10.8	Developing

# ES

#### R22 - B6 (60Hz 208-230V)

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	Out Put	Displac	Compressor	Compressor	Ctantina		60	Hz		0 0
Phase	OutFut	ement	Compressor Model	Code	Starting Method	Nominal	Capacity	C	OP	Outline Graph Code
	HP	cm <sup>3</sup> /rev	iviodei	Code		kW	kBTU/h	W/W	BTU/Wh	
1	3.5	55.7	C-SBR120H16P	_	CSR	11.9	40.6	3.09	10.5	Α
	4	66.8	C-SBR145H16P	ı	CSR	14.4	49.2	3.20	10.9	Α
	4.5	77.4	C-SBR165H16P	-	CSR	16.8	57.4	3.20	10.9	As
	5	83.2	C-SBR180H16N	_	CSR	18.1	61.8	3.12	10.7	_

#### R22 - B6 (60Hz 208-230V)

# SPA Models (condensing temp.max60°C)

	Out Put	Displac	Compressor	Compressor	Otantin n		60	Hz		0 111 0 1
Phase	Out Put	ement	Compressor Model	Compressor Code	Starting Method	Nominal	Capacity	C	OP	Outline Graph Code
	HP	cm <sup>3</sup> /rev	Model	Ode	Wicaroa	kW	kBTU/h	W/W	BTU/Wh	
	5	83.2	C-SBR180H16Y	1	PSC	17.9	61.1	3.03	10.3	J
1	5.8	93.1	C-SBR200H16Y	ı	PSC	19.9	67.9	3.06	10.4	J
'	6	100.0	C-SBR215H16Y	ı	PSC	21.5	73.4	3.05	10.4	J
	7	110.2	C-SBR235H16Y	-	PSC	23.4	79.9	3.10	10.6	J

#### R22 - Inverter Drive Models (AC)

	Out Put	Displac	Compressor	Compressor	0111		90	Hz		
Phase	Out Put	ement	Compressor Model	Compressor Code	Starting Method	Nominal	Capacity	C	OP	Outline Graph Code
	HP	cm <sup>3</sup> /rev	iviodei	Code	Wictiod	kW	kBTU/h	W/W	BTU/Wh	5545
3	5	55.7	C-SBV180H00A	_	AC Inv	18.0	61.5	3.00	10.2	J
3	5	55.7	C-SBV180H00B	1	AC Inv	18.0	61.5	3.00	10.2	Jt

#### R407C - B8 (50Hz 380-415V / 60Hz 440-460V)

		Displac			O:		50	Hz			601	Нz		Outline
Phase	Out Put	ement	Compressor	Compressor	Starting	Nominal	Capacity	C	OP	Nominal	Capacity	C	OP	Graph
	HP	cm <sup>3</sup> /rev	Model	Code	Method	kW	kBTU/h	W/W	BTU/Wh	kW	kBTU/h	W/W	BTU/Wh	Code
	3.5	55.7	C-SBN263H8A	809 930 88	_	9.60	32.8	2.87	9.8	11.8	40.3	2.87	9.8	В
	4	66.8	C-SBN303H8A	809 940 88	_	11.6	39.6	3.05	10.4	14.6	49.8	3.17	10.8	Α
	4	00.0	C-SBN303H8G	809 946 88	_	11.6	39.6	3.05	10.4	14.6	49.8	3.17	10.8	At
	4.5	77.4	C-SBN353H8A	809 942 88	_	13.4	45.8	2.91	9.9	16.5	56.3	2.95	10.1	Α
	4.5	11.4	C-SBN353H8G	809 944 88	_	13.4	45.8	2.91	9.9	16.5	56.3	2.95	10.1	At
	5	83.2	C-SBN373H8A	809 950 88	_	14.5	49.5	2.93	10.0	17.8	60.8	2.99	10.2	Α
	5	03.2	C-SBN373H8G	809 956 88	_	14.5	49.5	2.93	10.0	17.8	60.8	2.99	10.2	At
	6	100.0	C-SBN453H8A	809 960 88	_	17.6	60.1	3.03	10.3	21.3	72.7	3.04	10.4	Α
	0	100.0	C-SBN453H8G	809 966 88	_	17.6	60.1	3.03	10.3	21.3	72.7	3.04	10.4	At
3	7	110.2	C-SBS235H38A	I	_	19.5	66.6	3.10	10.6	23.4	79.9	3.10	10.6	Α
	,	110.2	C-SBS235H38B	_	_	19.5	66.6	3.10	10.6	23.4	79.9	3.10	10.6	At
		131.9	C-SCN583H8H	809 184 88	_	23.6	80.6	3.13	10.7	28.0	95.6	3.03	10.3	D
	8	131.9	C-SCN583H8K	809 186 66	_	23.6	80.6	3.13	10.7	28.0	95.6	3.03	10.3	Dt
	0	137.0	C-SCN603H8H	809 181 88	_	24.5	83.6	3.16	10.8	29.1	99.4	3.08	10.5	D
		137.0	C-SCN603H8K	809 183 88	_	24.5	83.6	3.16	10.8	29.1	99.4	3.08	10.5	Dt
	10	171.2	C-SCN753H8H	809 101 88	_	29.9	102.1	3.20	10.9	35.9	122.6	3.12	10.7	Е
	10	171.2	C-SCN753H8K	809 103 88	_	29.9	102.1	3.20	10.9	35.9	122.6	3.12	10.7	Et
	12	205.4	C-SCN903H8H	809 121 88	_	34.9	119.2	3.09	10.5	I	_	ı	-	Е
	12	205.4	C-SCN903H8K	809 123 88	_	34.9	119.2	3.09	10.5	_	_	_	_	Et

#### R407C - B8 (50Hz 380-415V / 60Hz 440-460V)

#### T3 Models

	0.45.4	Displac	0	0	Objective		50	Hz			601	Ηz		Outline
Phase	Out Put	ement	Compressor	Compressor	Starting	Nominal	Capacity	CC	OP	Nominal (	Capacity	C	OP	Graph
	HP c	cm <sup>3</sup> /rev	Model	Code	Method	kW	kBTU/h	W/W	BTU/Wh	kW	kBTU/h	W/W	BTU/Wh	Code
3	4.5	77.4	C-SBS165H38P	-	_	13.4	45.8	2.91	9.9	16.5	56.3	2.95	10.1	Α
3	6	83.2	C-SBS215H38P	-	<b>)</b> –	17.6	60.1	3.03	10.3	21.3	72.7	3.04	10.4	Α

#### R407C - B8 (50Hz 380-415V / 60Hz 440-460V)

# **EVI Models**

	Out Put	Displac	Compressor	Compressor	Starting		50Hz (	Cooling			50Hz H	leating		Outline
Phase		ement	Model	Compressor	Method	Nominal	Capacity	C	OP	Nominal	Capacity	C	OP	Graph
	HP	cm <sup>3</sup> /rev	Wodel	Code	Wethou	kW	kBTU/h	W/W	BTU/Wh	kW	kBTU/h	W/W	BTU/Wh	Code
	3.5	55.7	C-SBS120H38Q	_	_	10.1	34.5	3.00	10.2	10.5	35.8	3.18	10.9	Developing
	4	66.8	C-SBS145H38Q	_	_	12.1	41.3	3.10	10.6	12.2	41.7	3.20	10.9	Developing
3	5	83.2	C-SBS180H38Q	_	_	15.3	52.2	3.14	10.7	15.0	51.2	3.20	10.9	Developing
	8	137.0	C-SCS295H38Q	_	_	24.5	83.6	3.16	10.8	24.6	84.0	3.22	11.0	Developing
	10	171.2	C-SCS370H38Q	_	_	29.9	102.1	3.20	10.9	30.7	104.8	3.25	11.1	Developing

#### R407C - B5 (50Hz 220-240V)

#### **EVI Models**

	Out Put	Displac	Compressor	Compressor	Starting		50Hz (	Cooling			50Hz H	leating		Outline
Phase	Out Put	ement	Model	Compressor	Method	Nominal	Capacity	C	OP	Nominal	Capacity	C	OP	Graph
	HP	cm <sup>3</sup> /rev	iviouei	Code	Method	kW	kBTU/h	W/W	BTU/Wh	kW	kBTU/h	W/W	BTU/Wh	Code
1	3.5	55.7	C-SBS120H15Q	_	PSC	10.0	34.1	2.80	9.6	9.8	33.5	2.94	10.0	Developing
'	4	66.8	C-SBS145H15Q	_	PSC	12.5	42.7	3.00	10.2	12.3	42.0	3.13	10.7	Developing

#### R407C - B5 (50Hz 220-240V)

	Out Put	Displac	0	0	011		50	Hz		Outline
Phase	Out Put	ement	Compressor Model	Code	Starting	Nominal	Capacity	C	OP	Graph
	HP	cm <sup>3</sup> /rev	iviodei	Code	Method	kW	kBTU/h	W/W	BTU/Wh	Code
	3.5	55.7	C-SBN261H5A	809 930 45	CSR	9.70	33.1	2.85	9.7	Α
	3.5	35.7	C-SBS120H15A	_	PSC	9.70	33.1	2.85	9.7	Α
	4	66.8	C-SBN301H5A	809 940 45	CSR	11.8	40.3	2.95	10.1	Α
	4	00.0	C-SBS145H15A	_	PSC	11.8	40.3	2.95	10.1	Α
1	4.5	77.4	C-SBN351H5A	809 942 45	PSC	13.5	46.1	2.84	9.7	Α
	4.5	77.4	C-SBS165H15A	_	PSC	13.5	46.1	2.84	9.7	Α
	5	83.2	C-SBN371H5A	809 950 45	PSC	14.5	49.5	2.91	9.9	Α
	5	03.2	C-SBS180H15A	-	PSC	14.5	49.5	2.91	9.9	Developing
	5.8	93.1	C-SBS200H15H	I	ı	I	_	1	1	Developing
	3.5	55.7	C-SBN263H5A	809 930 85	_	9.85	33.6	2.94	10.0	Α
	4	66.8	C-SBN303H5A	809 940 85	_	11.5	39.3	2.99	10.2	Α
	5	83.2	C-SBN373H5A	809 950 85	_	14.7	50.2	2.91	9.9	Α
3	6	100.0	C-SBN453H5A	809 960 85	_	17.7	60.4	3.00	10.2	Α
3	8	131.9	C-SCN583H5H	809 184 85	_	23.7	80.9	3.14	10.7	D
	0	137.0	C-SCN603H5H	809 181 85	-	24.2	82.6	3.14	10.7	D
	10	171.2	C-SCN753H5H	809 101 85	_	29.9	102.1	3.18	10.9	Е
	12	205.4	C-SCN903H5H	809 121 85	_	34.8	118.8	3.08	10.5	Е

#### R407C - B9 (60Hz 380V)

	0.45.4	Displac	0	0	01-41-4		60	Hz		Outline
Phase	Out Put	ement	Compressor	Compressor	Starting	Nominal	Capacity	C	OP	Graph
	HP	cm <sup>3</sup> /rev	Model	Code	Method	kW	kBTU/h	W/W	BTU/Wh	Code
3	5	83.2	C-SBN373H9A	809 950 89	_	18.0	61.5	3.05	10.4	Α



#### R410A

#### R410A - B8 (50Hz 380-415V / 60Hz 440-460V)

	Out Put	Displac	Compressor	Compressor	Ctarting		50	Hz			60l	Ηz		Outline
Phase		ement	Compressor	Compressor Code	Starting Method	Nominal	Capacity	C	OP	Nominal (	Capacity	C	OP	Graph
	HP	cm <sup>3</sup> /rev	Model	Code	Method	kW	kBTU/h	W/W	BTU/Wh	kW	kBTU/h	W/W	BTU/Wh	Code
	3	35.0	C-SBN233H8E	809 934 88	_	8.60	29.4	_	-	_	_	_	_	Α
	3.5	37.5	C-SBN263H8D	809 933 88	_	8.85	30.2	2.49	8.5	11.6	39.6	2.76	9.4	Α
			C-SBN303H8D	809 943 88	-	9.80	33.5	2.68	9.2	12.2	41.7	2.87	9.8	Α
	4	39.9	C-SBN303H8F	809 945 88	-	9.80	33.5	2.68	9.2	12.2	41.7	2.87	9.8	Jt
			C-SBN303H8H	809 947 88	-	9.80	33.5	2.68	9.2	12.2	41.7	2.87	9.8	At
	4.5	51.8	C-SBN353H8D	809 948 88	_	13.0	44.4	2.80	9.6	16.2	55.3	2.97	10.1	Α
	4.5	31.0	C-SBN353H8H	809 949 88	_	13.0	44.4	2.80	9.6	16.2	55.3	2.97	10.1	At
3			C-SBN373H8D	809 953 88	_	14.1	48.1	2.97	10.1	17.1	58.4	3.05	10.4	Α
3	5	55.7	C-SBN373H8F	809 955 88	_	14.1	48.1	2.97	10.1	17.1	58.4	3.05	10.4	Jt
			C-SBN373H8H	809 957 88	_	14.1	48.1	2.97	10.1	17.1	58.4	3.05	10.4	At
			C-SBN453H8D	809 963 88	_	16.4	56.0	2.85	9.7	20.3	69.3	3.01	10.3	Α
	6	66.8	C-SBN453H8F	809 965 88	_	16.4	56.0	2.85	9.7	20.3	69.3	3.01	10.3	Jt
			C-SBN453H8H	809 967 88	_	16.4	56.0	2.85	9.7	20.3	69.3	3.01	10.3	At
			C-SBN523H8D	809 973 88	_	19.2	65.6	2.84	9.7	1	-	I	_	Α
	7	77.4	C-SBN523H8F	809 975 88	_	19.2	65.6	2.84	9.7	1	-	I	_	Jt
			C-SBN523H8H	809 977 88	_	19.2	65.6	2.84	9.7	-	-	-	_	At

#### R410A - B8 (50Hz 380-415V / 60Hz 440-460V)

#### Hi-COP Models

	Out Put	Displac	Compressor	Compressor	Starting		50	Hz			601	Hz		Outline
Phase	OutFut	ement	Compressor Model	Compressor	Method	Nominal	Capacity	C	OP	Nominal (	Capacity	C	OP	Graph
	HP	cm <sup>3</sup> /rev	wodei	Code	Method	kW	kBTU/h	W/W	BTU/Wh	kW	kBTU/h	W/W	BTU/Wh	Code
	3.5	39.6	C-SBP120H38A	_	_	10.0	34.1	2.86	9.8	12.2	41.7	2.94	10.0	Α
	3.5	39.0	C-SBP120H38B	ı	_	10.0	34.1	2.86	9.8	12.2	41.7	2.94	10.0	At
	3.7	42.4	C-SBP130H38A	I	_	10.9	37.2	2.91	9.9	13.3	45.4	3.02	10.3	Α
	3.7	42.4	C-SBP130H38B	I	_	10.9	37.2	2.91	9.9	13.3	45.4	3.02	10.3	At
	4	46.4	C-SBP140H38A	+	-	11.7	39.9	2.93	10.0	14.3	48.8	3.01	10.3	Α
	4	40.4	C-SBP140H38B	1		11.7	39.9	2.93	10.0	14.3	48.8	3.01	10.3	At
	4.6	51.8	C-SBP160H38A	t		13.2	45.1	2.87	9.8	16.2	55.3	2.98	10.2	Α
	4.0	31.0	C-SBP160H38B	ŀ	-	13.2	45.1	2.87	9.8	16.2	55.3	2.98	10.2	At
	5	55.7	C-SBP170H38A	1	_	14.2	48.5	2.99	10.2	17.3	59.1	3.04	10.4	Α
	3	33.1	C-SBP170H38B	1	_	14.2	48.5	2.99	10.2	17.3	59.1	3.04	10.4	At
3	6	66.8	C-SBP205H38A	_		16.8	57.4	3.00	10.2	20.6	70.3	3.10	10.6	Α
	O	00.0	C-SBP205H38B	_	_	16.8	57.4	3.00	10.2	20.6	70.3	3.10	10.6	At
	8	89.2	C-SCP270H38A	ı	_	22.4	76.5	3.03	10.3	27.2	92.9	3.1	10.4	D
	0	09.2	C-SCP270H38B	_	_	22.4	76.5	3.03	10.3	27.2	92.9	3.1	10.4	Dt
	10	104.1	C-SCP315H38A	_	_	26.0	88.8	3.02	10.3	31.4	107.2	3.0	10.3	Е
	10	104.1	C-SCP315H38B	_	_	26.0	88.8	3.02	10.3	31.4	107.2	3.0	10.3	Et
	11	120.2	C-SCP360H38A	ı	_	29.8	101.7	3.01	10.3	35.9	122.6	3.0	10.3	Е
	- 11	120.2	C-SCP360H38B	-	_	29.8	101.7	3.01	10.3	35.9	122.6	3.0	10.3	Et
	12	131.9	C-SCP360H38A	-	_	32.8	112.0	3.01	10.3	-	_	-	_	Е
	12	131.9	C-SCP360H38B	1	_	32.8	112.0	3.01	10.3	-	_	-	_	Et
	15	171.2	C-SCP510H38A	_	_	42.2	144.1	3.15	10.8	_	_	_	_	Developing

#### R410A - B5 (50Hz 220-240V)

	Out Dut	Displac	0	0	Ot ti		50	Hz		Outline
Phase	Out Put	ement	Compressor	Compressor	Starting	Nominal	Capacity	C	OP	Graph
	HP	cm <sup>3</sup> /rev	Model	Code	Method	kW	kBTU/h	W/W	BTU/Wh	Code
	3	35.0	C-SBN231H5E	809 934 45	PSC	8.60	29.4	2.42	8.3	Α
1	3.5	37.5	C-SBN261H5D	809 933 45	PSC	9.35	31.9	2.46	8.4	Α
	4	39.9	C-SBN301H5D	809 943 45	PSC	9.70	33.1	2.49	8.5	Α

#### R410A - B5 (50Hz 220-240V)

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		P	I'II		~

	Out Put	Displac	0	0	Ot and in a		50	Hz		Outline
Phase	Out Put	ement	Compressor Model	Compressor Code	Starting Method	Nominal	Capacity	C	OP	Graph
	HP	cm <sup>3</sup> /rev	iviodei	Code	Method	kW	kBTU/h	W/W	BTU/Wh	Code
	3.5	39.9	C-SBP120H15A	_	PSC	9.80	33.5	2.80	9.6	Developing
	3.5	39.9	C-SBP120H15B	_	PSC	9.80	33.5	2.80	9.6	Developing
1	4	46.4	C-SBP140H15A	-	PSC	11.60	39.6	2.85	9.7	Developing
'	4	40.4	C-SBP140H15B	-	PSC	11.60	39.6	2.85	9.7	Developing
	4.6	51.8	C-SBP160H15A	İ	PSC	13.00	44.4	2.80	9.6	А
	4.0	51.0	C-SBP160H15B	_	PSC	13.00	44.4	2.80	9.6	At

#### R410A - B6 (60Hz 208-230V)

#### Hi-COP Models

	Out Put	Displac	0	0	Ot and in a		60	Hz		Outline
Phase	Out Put	ement	Compressor Model	Compressor Code	Starting Method	Nominal	Capacity	C	OP	Graph
	HP	cm <sup>3</sup> /rev	iviodei	Code	Method	kW	kBTU/h	W/W	BTU/Wh	Code
	3.5	39.9	C-SBP120H16A	ı	PSC	12.0	41.0	2.85	9.7	Developing
	3.7	42.4	C-SBP130H16A	_	PSC	13.0	44.4	2.90	9.9	Developing
1	4	46.4	C-SBP140H16A	_	PSC	14.2	48.5	2.90	9.9	Developing
	4.3	48.9	C-SBP150H16A	_	PSC	14.8	50.5	3.00	10.2	Developing
	4.6	51.8	C-SBP160H16A	_	PSC	15.8	53.9	3.00	10.2	Developing
	3.5	39.9	C-SBP120H36A	_	_	12.2	41.7	2.80	9.6	Α
	3.5	39.9	C-SBP120H36B	_	_	12.2	41.7	2.80	9.6	At
3	4.6	51.8	C-SBP160H36A	_	_	16.1	55.0	2.93	10.0	Α
3	4.0	51.6	C-SBP160H36B	_	_	16.1	55.0	2.93	10.0	At
	5	55.7	C-SBP170H36A	_	_	17.4	59.4	3.05	10.4	Α
	3	33.7	C-SBP170H36B	_	_	17.4	59.4	3.05	10.4	At

#### R410A - B6 (60Hz 208-230V)

#### SPA Models (condensing temp.max60°C)

	Out F	Disp	olac	Compressor	7		Starting		60	Hz		Outline
Phas		eme	ent	Compressor Model	C	ompressor Code	Method	Nominal	Capacity	C	OP	Graph
	HF	cm <sup>3</sup> /	/rev	Wiodei		Code	Metriou	kW	kBTU/h	W/W	BTU/Wh	Code
	5	55	5.7	C-SBP170H16Y		-	CSR	16.9	57.7	2.83	9.7	J
1	6	66	8.6	C-SBP205H16Y		_	CSR	20.3	69.3	2.85	9.7	J
	7	77	'.4	C-SBP230H16Y		-	CSR	23.3	79.6	2.85	9.7	J

#### R410A - B9 (60Hz 380V)

		Out Put	Displac	0	0	01 11		60	Hz		Outline
PI	hase	Out Put	ement	Compressor	Compressor	Starting	Nominal	Capacity	C	OP	Graph
		HP	cm <sup>3</sup> /rev	Model	Code	Method	kW	kBTU/h	W/W	BTU/Wh	Code
		3.5	39.9	C-SBP120H39B	_	_	11.8	40.3	2.80	9.6	Jt
	3	5	55.7	C-SBN373H9F	809 955 89	-	16.9	57.7	2.96	10.1	Jt
		6	66.8	C-SBP205H39B	_	_	19.9	67.9	3.00	10.2	Jt

#### R410A - D Series

#### R410A - B8 (50Hz 380-415V / 60Hz 440-460V)

	Out Put	Displac	0		OL 1:		50	Hz			60l	∃z		Outline
Phase	Out Put	ement	Compressor	Compressor	Starting	Nominal	Capacity	C	OP	Nominal (	Capacity	C	OP	Graph
	HP	cm <sup>3</sup> /rev	Model	Code	Method	kW	kBTU/h	W/W	BTU/Wh	kW	kBTU/h	W/W	BTU/Wh	Code
	3.5	38.0	C-SDP120H38A	_	_	10.05	34.3	2.90	9.9	12.00	41.0	2.95	10.1	Developing
	3.5	38.0	C-SDP120H38B	_	_	10.05	34.3	2.90	9.9	12.00	41.0	2.95	10.1	Developing
	4	42.3	C-SDP135H38A	_	_	11.20	38.2	2.90	9.9	13.50	46.1	2.95	10.1	Developing
	4	42.3	C-SDP135H38B	_	_	11.20	38.2	2.90	9.9	13.50	46.1	2.95	10.1	Developing
3	5	55.7	C-SDP170H38A	_	_	14.10	48.1	3.00	10.2	16.80	57.4	3.05	10.4	Developing
3	3	55.7	C-SDP170H38B	_	_	14.10	48.1	3.00	10.2	16.80	57.4	3.05	10.4	Developing
	6	66.8	C-SDP205H38A	_	_	16.90	57.7	3.05	10.4	20.20	69.0	3.05	10.4	
	O	66.8	C-SDP205H38B	_	_	16.90	57.7	3.05	10.4	20.20	69.0	3.05	10.4	
	7	72.0	C-SDP225H38A	_	_	19.00	64.9	3.05	10.4	22.70	77.5	3.05	10.4	
	1	73.0	C-SDP225H38B	_	_	19.00	64.9	3.05	10.4	22.70	77.5	3.05	10.4	

#### R410A - B9(60Hz 380V)

	Out Put	Displac	Compressor	Compressor	Starting		60	Hz		Outline
Phase	Out Fut	ement	Compressor Model	Compressor Code	Method	Nominal	Capacity	C	OP	Graph
	HP	cm <sup>3</sup> /rev	Wodel	Code	Metriod	kW	kBTU/h	W/W	BTU/Wh	Code
3	6	66.8	C-SDP205H39A	_	_	20.20	69.0	3.05	10.4	Developing
3	O	00.0	C-SDP205H39B	1	_	20.20	69.0	3.05	10.4	Developing

#### R410A - Inverter Drive Models (DC)

		Out Put	Displac	Compressor	Input Power	Starting		90	Hz		Outline
	Phase	Out Fut	ement	Model	Source	Method	Nominal	Capacity	C	OP	Graph
		HP	cm <sup>3</sup> /rev	Model	Source	Metriou	kW	kBTU/h	W/W	BTU/Wh	Code
i		5.5	38.0	C-SDP190H03A	200-240V		18.60	63.5	3.20	10.9	Developing
		6	42.3	C-SDP205H03A	200-240V	DC Inv	21.15	72.2	3.20	10.9	Developing
ı		5.5	38.0	C-SDP190H02B	380-415V	DC IIIV	18.60	63.5	3.20	10.9	Developing
		6	42.3	C-SDP205H02B	360-4150		21.15	72.2	3.25	11.1	

#### for Refrigeration

#### R22 for Refrigeration - B3 (50Hz 200V / 60Hz 200-220V)

	Out Put	Displac	Compressor	Compressor	Starting		50	Hz			60	Hz		Outline
Phase		ement	Model	Compressor	Method	Nominal	Capacity	Input	Current	Nominal	Capacity	Input	Current	Graph
	HP	cm <sup>3</sup> /rev	Model	Code	Metriod	kW	kBTU/h	kW	А	kW	kBTU/h	kW	А	Code
	5	89.2	C-SC373L3G	809 250 63	_	6.80	23.2	4.70	16.3	8.05	27.5	5.50	17.5	
	6	104.0	C-SC453L3G	809 260 63	_	7.95	27.1	5.20	18.0	9.35	31.9	6.10	19.3	
3	7	120.0	C-SC523L3G	809 270 63	_	9.30	31.8	6.05	21.6	10.95	37.4	7.00	22.2	
	8	137.0	C-SC603L3G	809 280 63	_	10.40	35.5	7.00	23.5	12.30	42.0	8.25	26.0	
	10	171.2	C-SC753L3G	809 200 63	_	13.20	45.1	8.45	28.0	15.60	53.3	10.00	31.0	

#### R22 for Refrigeration - B8 (50Hz 380-415V / 60Hz 440-460V)

	Out Put	Displac	Соточески	Compressor	Ctarting		50	Hz			60	Hz		Outline
Phase		ement	Compressor Model	Compressor Code	Starting Method	Nominal	Capacity	Input	Current	Nominal	Capacity	Input	Current	Graph
	HP	cm <sup>3</sup> /rev	Model	Code	Method	kW	kBTU/h	kW	А	kW	kBTU/h	kW	Α	Code
	4	66.8	C-SB303L8A	809 840 68	_	5.30	18.1	3.40	5.8	6.40	21.9	4.05	5.9	Developing
	5	83.2	C-SB373L8A	809 850 68	_	6.80	23.2	4.10	7.0	8.20	28.0	4.80	7.0	Developing
3	6	104.0	C-SC453L8H	809 261 68	_	7.95	27.1	5.14	9.1	9.47	32.3	5.98	8.9	
3	7	120.0	C-SC523L8H	809 271 68	_	9.30	31.8	5.98	11.0	11.09	37.9	6.86	10.2	
	8	137.0	C-SC603L8H	809 281 68	_	10.40	35.5	6.92	11.9	12.46	42.5	8.09	12.0	
	10	171.2	C-SC753L8H	809 201 68	_	13.20	45.1	8.35	14.2	15.80	53.9	9.80	14.3	

#### R22 for Refrigeration - B9 (60Hz 380V)

	Out Put	Displac	Compressor	Compressor	Starting		60	Hz		Outline
Phase	Out Fut	ement	Compressor Model	Compressor Code	Method	Nominal	Capacity	Input	Current	Graph
	HP	cm <sup>3</sup> /rev	Model	Code	Metriod	kW	kBTU/h	kW	Α	Code
	6	104.0	C-SC453L9H	809 261 69	_	9.45	32.3	6.00	11.3	Developing
3	7	120.0	C-SC523L9H	809 271 69	1	11.00	37.6	6.75	12.3	Developing
3	8	137.0	C-SC603L9H	809 281 69	1	12.00	41.0	7.80	13.7	
	10	171.2	C-SC753L9H	809 201 69	<b>)</b> – [	15.90	54.3	9.50	16.7	

#### R22 for Refrigeration - Inverter Drive Models (AC)

	Out Put	Displac	Compressor	Compressor	Starting		50Hz (	(161V)			70Hz (	(190V)		Outline
Phase		ement	Model	Compressor	Method	Nominal	Capacity	Input	Current	Nominal	Capacity	Input	Current	Graph
	HP	cm <sup>3</sup> /rev	Model	Code	Metriou	kW	kBTU/h	kW	А	kW	kBTU/h	kW	А	Code
3	8	144.1	C-SCV603L0H	809 281 60	_	13.40	45.8	7.40	29.2	18.60	63.5	10.60	35.2	

#### R404A for Refrigeration - B3 (50Hz 200V / 60Hz 200-220V)

	Out Put	Displac	Compressor	Campragas	Ctarting		50	Hz			60	Hz		Outline
Phase	Out Fut	ement	Compressor Model	Compressor Code	Starting Method	Nominal	Capacity	Input	Current	Nominal	Capacity	Input	Current	Graph
	HP	cm <sup>3</sup> /rev	Model	Code	Method	kW	kBTU/h	kW	А	kW	kBTU/h	kW	А	Code
	5	89.2	C-SCN373L3H	809 151 63	_	6.95	23.7	5.10	19.2	8.20	28.0	5.90	19.3	
	6	104.0	C-SCN453L3H	809 161 63	_	8.10	27.7	5.85	21.6	9.55	32.6	6.80	21.9	
3	7	120.0	C-SCN523L3H	809 171 63	_	9.25	31.6	6.50	23.6	10.90	37.2	7.55	24.2	
3	8	137.0	C-SCN603L3H	809 181 63	_	10.50	35.8	7.45	27.0	12.40	42.3	8.85	28.3	
	10	171.2	C-SCN753L3H	809 101 63	_	13.05	44.6	9.15	32.5	15.20	51.9	10.75	34.4	
	12.5	214.8	C-SCN953L3H	809 121 63	_									Developing

#### R404A for Refrigeration - B8 (50Hz 380-415V / 60Hz 440-460V)

	Out Put	Displac	Compressor	Сотополога	Ctarting		50	Hz			60	Hz		Outline
Phase	Out Put	ement	Compressor Model	Compressor Code	Starting Method	Nominal	Capacity	Input	Current	Nominal	Capacity	Input	Current	Graph
	HP	cm <sup>3</sup> /rev	Wodel	Code	Metriou	kW	kBTU/h	kW	А	kW	kBTU/h	kW	Α	Code
	4	66.8	C-SBN303L8A	809 940 68	_	5.30	18.1	3.75	6.58	6.30	21.5	4.45	7.10	Developing
	5	83.2	C-SBN373L8A	809 950 68	_	6.80	23.2	4.50	7.93	8.10	27.7	5.30	8.41	Developing
3	6	104.0	C-SCN453L8H	809 161 68	_	8.10	27.7	5.85	10.8	9.55	32.6	6.80	11.0	
3	7	120.0	C-SCN523L8H	809 171 68	_	9.25	31.6	6.50	11.8	10.90	37.2	7.55	12.1	
	8	137.0	C-SCN603L8H	809 181 68	_	10.50	35.8	7.45	13.5	12.40	42.3	8.85	14.2	
	10	171.2	C-SCN753L8H	809 101 68	_	13.05	44.6	9.15	16.3	15.20	51.9	10.75	17.2	

#### R404A for Refrigeration - B9 (60Hz 380V)

	Out Put	ement	Compressor	Compressor Compressor	Ctarting	60Hz				Outline
Phase			Model	Compressor Code	Starting Method	Nominal Capacity		Input	Current	Graph
	HP	cm <sup>3</sup> /rev	Model	Code	Method	kW	kBTU/h	kW	А	Code
	6	104.0	C-SCN453L9H	809 161 69	_	10.20	34.8	6.70	12.3	Developing
3	7	120.0	C-SCN523L9H	809 171 69	_	11.70	39.9	7.50	13.4	Developing
3	8	137.0	C-SCN603L9H	809 181 69	_	13.10	44.7	8.80	15.4	
	10	171.2	C-SCN753L9H	809 101 69	_	16.50	56.3	10.60	18.5	

#### R404A for Refrigeration - Inverter Drive Models (AC)

	Out Put Displac		Displac Compressor (		Compressor Compressor		Compressor Starting		Storting 50Hz (160V)		70Hz (192V)			Outline
Phase		ement	Model	Compressor Code	Starting Method	Nominal	Capacity	Input	Current	Nominal	Capacity	Input	Current	Graph
Н	HP	cm <sup>3</sup> /rev	Wodel	odei Code	de Metriod	kW	kBTU/h	kW	А	kW	kBTU/h	kW	Α	Code
3	8	144.1	C-SCVN603L0H	809 181 60	_	14.30	48.8	8.15	32.6	19.30	65.9	11.80	39.0	
3	10	171.2	C-SCVN753L0H	809 101 60	_									Developing



#### ■ Rating Condition

	R22 / R407C / R410A	
	°C	°F
Condensing Temperature	54.4	130
Evaporating Temperature	7.2	45
Sub Cooling	8.3	15
Super Heating	11.1	20

#### ■ Rating Condition for EVI

<u> </u>					
	Cooling		Heating		
	°C	°F	°C	°F	
Condensing Temperature	54.4	130	50	122	
Evaporating Temperature	7.2	45	-7	19.4	
Sub Cooling	8.3	15	2	3.6	
Super Heating	11.1	20	11.1	20	

#### ■ Rating Condition for Refrigeration (R22 / R404A)

	•	•			
	fixed	speed	Inverter		
	°C	°F	°C	°F	
Condensing Temperature	50	122	50	122	
Evaporating Temperature	-15	5	-10	14	
Sub Cooling	0	0	0	0	
Suntion Gas Temperature	18.3	65	18.3	65	

#### ■ Power Source

	Code	Phase	50Hz	60Hz
	В3	3 Phase	200V	200-220V
I	B5	1 Phase	220-240V	
١	ВЗ	3 Phase	220-240V	-
	B6	1 Phase	-	208-230V
	ВО	3 Phase	,	208-230V
	B8	3 Phase	380-415V	440(-460)V
	B9	3 Phase		380V

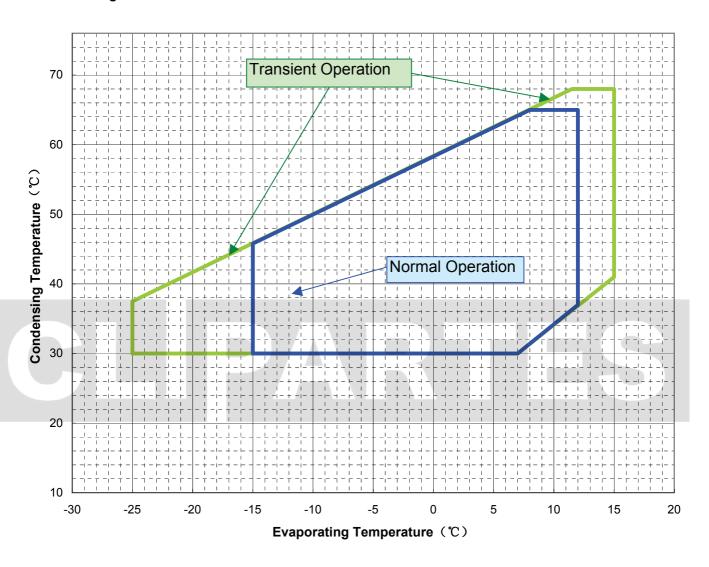


#### ■ Subscripts of Outline Graph Code

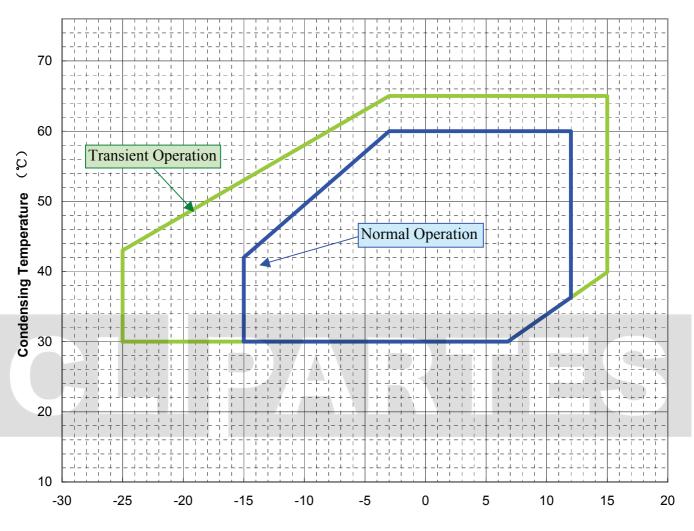
Subscript	explanation
t	The connection port of oil balance tube is attached
S	Screw type power supply connection

Suction Gas Superheat: 11.1K

Refrigerant: R22

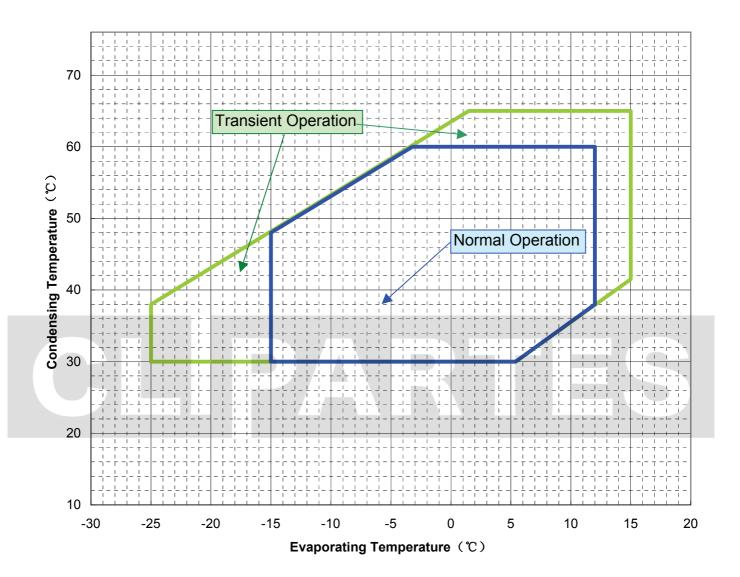


Suction Gas Superheat :9K Refrigerant : R407C



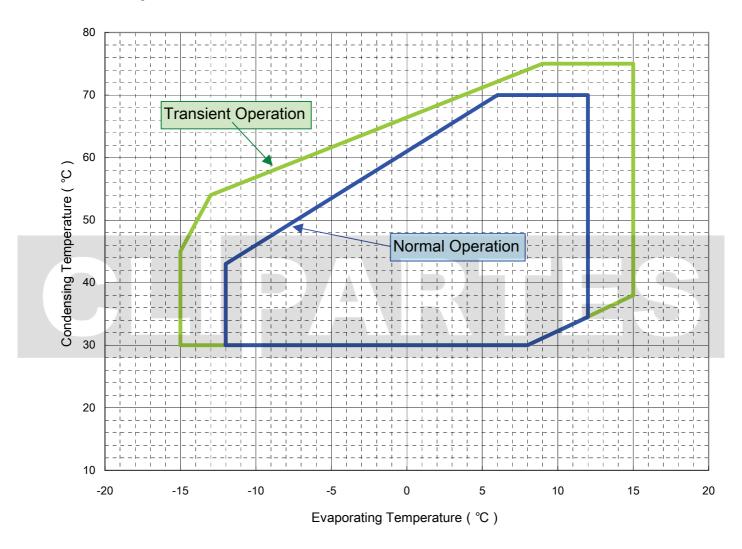
Evaporating Temperature ( $^{\circ}$ C)

Suction Gas Superhea : 11.1K. Refrigerant : R410A.



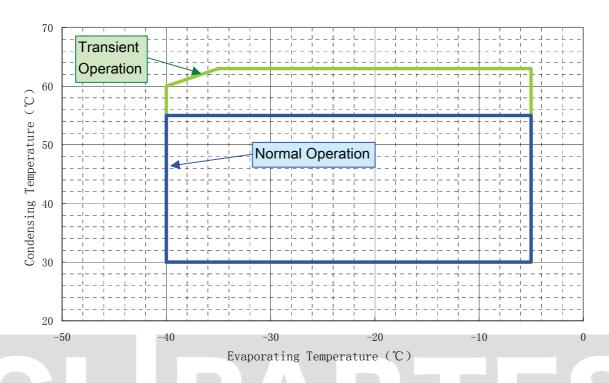
Suction Gas Super Heat: 11.1K

Refrigerant: R134a



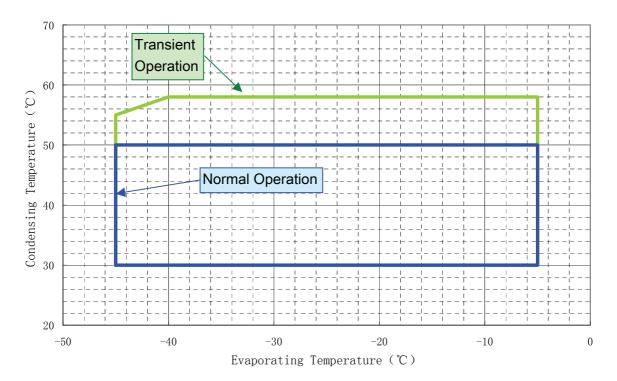
# Operating Envelope (for Refrigeration R22)

Suction Gus Temperature: 18.3°C Compressor Cooling: Liqud Injection



# Operating Envelope (for Refrigeration R404A)

Suction Gus Temperature: 18.3°C Compressor Cooling: Liqud Injection



#### **APPLICATION STANDARD & LIMIT (R22)**

The following requirements apply to Vertical type Hermetic Scroll Compressors:

**Standard:** Applicable to ordinary conditions in Japan JIS B8616 or equivalent conditions, such as standard rating conditions, maximum operating conditions, low temperature conditions, etc.

Limit: Applicable to transitional brief periods, such as start-up and beginning of defrost mode.

No.	Item	Standard Limit		Note
1	Refrigerant	R22(Meet the standar	d of Japan JIS K1517)	
2	Evaporating Temp.	-15~+12°C/[5~54 ° F] 0.20~0.62MPa(G)/[29~90psig]	-25~+15°C/[-13~59 ° F] 0.10~0.69MPa(G)/[14.5~100psig]	Comp. Suction Pressure
3	Condensing Temp.	+30~+65°C/[86~149 ° F] 1.09~2.60MPa(G)/[158~377psig]	+68°C/[155 ° F] 2.78MPa(G)/[403psig]	Comp. Discharge Pressure
4	Compression Ratio	2 ~ 6	10	
5	Winding Temp.	115℃/[240 °F] Max.	125℃/[257 °F]	
		Upper Limit: 90°C/[194 °F]	Max.	
6	Shell Bottom Temp.	Lower Limit: Evaporating Temp	o.+12K / [21 °F] Min.	When comp. Is running
		Ambient Temp.	+11K / [20 °F] Min.	When comp. shuts off
7	Discharge Coe Tomp	115°C/[240 °F] Mov	C-SB:130°C/[266°F] Max.	Within 100mm(4in) of the discharge fitting.
,	Discharge Gas Temp.	115℃/[240 °F] Max.	C-SC:135℃/[ 275°F] Max.	Inside of the well pipe on the top comp.
8	Suction Gas Temp.	Superheat: 5K/[10 °F] Min.	No excessive noise	It should meet the requirement of item 5, 6, 7 and 14 within 300mm of the suction fitting.
9	Running Voltage	Within ±10% of	the rated voltage	Voltage at comp. terminals.
10	Starting Voltage	Three Phase Models: 85°	Dropped voltage at comp.	
10	Starting Voltage	Single Phase Models: 90	terminals.	
11	On/Off Period	ON Period: Until the oil level returns t		For at least 7 minutes -ON/3 minutes-OFF is recommendable.
		OFF Period: Until balance of high and	minutes of this recommendable.	
12	Refrigerant Charge	Oil/Refrigera	nt(wt.)>0.35	Specific gravity of the Oil: 0.92.
13	Life Time	200,000		
14	Minimum Oil Level	C-SB: Center of the lower bearing	C-SB:Bottom of the lower bearing	
		C-SC:No less than 70%		
15	Abnormal Pressure	Pressure Rise: 3.0MPa(G) /[435psig]	By high pressure switch	
	Rise/Drop	Pressure Drop: 0.03MPa(G)/ [4.35ps	By low pressure switch	
16	System Moisture Level	200ppr		
17	System Uncondensable		% Max.	24 hrs. after vacuuming: 1.01kPa
	Gas Level		n 0.1 Vol.% Max.	Max.
18	Tilt	5° Deg	g.Max.	

Operation beyond the above limits must be approved by Dalian SANYO Compressor Co., Ltd.

(G): Gauge Pressure

#### **Notes**

- 1 Installation should be completed within 15 minutes after removing the rubber plugs.
- 2 Do not use the compressor to compress air.
- $\,3\,$  Do not energize the compressor  $\,$  under vacuumed conditon.
- 4 Evacuation and Refrigerant charge. Evacuate internal section in the refrigeration system from high and low pressure sides and charge liquid refrigerant from condenser outlet side. Additional charge shall be done with gas condition from low side.
- 5 Do not tilt over the compressor while carrying it.
- 6 Do not remove the paint.
- 7 Crankcase heater is required when the oil sump temperature is too low to meet the requirement of item 6.
- 8 Voltage fluctuation between compressor terminals, during operation, shall be within 2% of the rated voltage.
- 9 Do not operate compressor in reverse rotational direction.
- 10 Suction strainers are recommended for all applications.

#### **APPLICATION STANDARD & LIMIT (R407C)**

The following requirements apply to Vertical type Hermetic Scroll Compressors:

**Standard:** Applicable to ordinary conditions in Japan JIS B8616 or equivalent conditions, such as standard rating conditions, maximum operating conditions, low temperature conditions, etc.

Limit: Applicable to transitional brief periods, such as start-up and beginning of defrost mode.

No.	Item	Standard	Limit	Note
1	Refrigerant	R40	)7C	
2	Evaporating Temp.	-15~+12°C/[5∼54 °F]	-25~+15℃/[-13~59 °F]	Average temp. of evaperator
	Evaporating Temp.	0.20~0.65MPa(G)/[29∼94psig]	0.07~0.73MPa(G)[(10∼106psig]	Inlet and outlet.
3	Condensing Temp.	+30~+60℃/[86~140°F]	+65℃/[149 °F]	Average temp. of condensor
	Condensing Temp.	1.17~2.56MPa(G)/[170∼371psig]	2.88MPa(G)/[418psig]	Inlet and outlet.
4	Compression Ratio	2 ~ 6	10	
5	Winding Temp.	115℃/[240 °F] Max.	125℃/[257 °F]	
		Upper Limit: 90°C/[194 °F]		
6	Shell Bottom Temp.	Lower Limit: Evaporating Temp	o.+12K / [21 °F] Min.	When comp. Is running
		Ambient Temp.	+11K / [20 °F] Min.	When comp. shuts off
7	Discharge Cas Temp	115°C/[240 °E1 May	C-SB:130℃/[266°F] Max.	Within 100mm(4in) of the discharge fitting.
,	Discharge Gas Temp.	charge Gas Temp. 115°C/[240 °F] Max. C-SC:135°C/[ 275°F]		Inside of the well pipe on the top of comp.
8	Suction Gas Temp.	Superheat: 5K/[10 °F] Min.	No excessive noise	It should meet the requirement of item 5, 6, 7 and 14 within 300mm of the suction fitting.
9	Running Voltage	Within ±10% of t	the rated voltage	Voltage at comp. terminals.
10	Starting Voltage	Three Phase Models: 859	% of the rated voltage min.	Dropped voltage at comp.
10	Starting Voltage	Single Phase Models: 90°	% of the rated voltage min.	terminals.
11	On/Off Period	ON Period: Until the oil level returns t	o the center of the lower bearing	For at least 7 minutes -ON/3
		OFF Period: Until balance of high and	l low pressure is obtained	minutes-OFF is recommendable.
12	Refrigerant Charge	Oil/Refrigera	nt(wt.)>0.35	Specific gravity of the Oil: 0.94.
13	Life Time	200,000	0 cycle	
14	Minimum Oil Level	C-SB: Center of the lower bearing	C-SB:Bottom of the lower bearing	
14	William On Level	C-SC:No less than 70%	% of the initial oil charge	
15	Abnormal Pressure	Pressure Rise: 3.20MPa(G) /[464psig	j] Max.	By high pressure switch
10	Rise/Drop	Pressure Drop: 0.05MPa(G)/[7.3psig	By low pressure switch	
16	System Moisture Level	200ppr		
17	System Uncondensable	1 Vol.9		24 hrs. after vacuuming:
.,	Gas Level	Residual Oxyge	1.01kPa Max.	
18	Tilt	5° Deg	g.Max.	

Operation beyond the above limits must be approved by Dalian SANYO Compressor Co., Ltd.

(G): Gauge Pressure

#### **Notes**

- 1 Installation should be completed within 15 minutes after removing the rubber plugs.
- 2 Do not use the compressor to compress air.
- $\,3\,$  Do not energize the compressor  $\,$  under vacuumed conditon.
- 4 Evacuation and Refrigerant charge. Evacuate internal section in the refrigeration system from high and low pressure sides and charge liquid refrigerant from condenser outlet side. Additional charge shall be done with gas condition from low side.
- 5 Do not tilt over the compressor while carrying it.
- 6 Do not remove the paint.
- 7 Crankcase heater is required when the oil sump temperature is too low to meet the requirement of item 6.
- 8 Voltage fluctuation between compressor terminals, during operation, shall be within 2% of the rated voltage.
- 9 Do not operate compressor in reverse rotational direction.
- 10 Suction strainers are recommended for all applications.

#### **APPLICATION STANDARD & LIMIT (R410A)**

The following requirements apply to Vertical type Hermetic Scroll Compressors:

**Standard:** Applicable to ordinary conditions in Japan JIS B8616 or equivalent conditions, such as standard rating conditions, maximum operating conditions, low temperature conditions, etc.

Limit: Applicable to transitional brief periods, such as start-up and beginning of defrost mode.

No.	Item	Standard	Limit	Note
1	Refrigerant	R4	10A	
2	Evaporating Temp.	-15~+12°C/[5∼54 ° F]	-25~+15℃/[-13~59 °F]	Comp. Suction Pressure
	Evaporating remp.	0.38~1.05MPa(G)/[55~152psig]	0.23~1.15MPa(G)/[33∼167psig]	Comp. Suction Flessure
3	Condensing Temp.	+30~+60℃/[86~140°F]	+65℃/[149 °F]	Comp. Discharge Pressure
3	Condensing Temp.	1.78~3.75MPa(G)/[258~544psig]	4.18MPa(G)/[606psig]	Comp. Discharge i ressure
4	Compression Ratio	2 ~ 6	8	
5	Winding Temp.	115℃/[240 °F] Max.	125℃/[257 °F]	
		Upper Limit: 90°C/[194 °F]	Max.	
6	Shell Bottom Temp.	Lower Limit: Evaporating Temp.	+12K / [21 °F] Min.	When comp. Is running
		Ambient Temp.	+11K / [20 °F] Min.	When comp. shuts off
7	Diaghayaa Caa Tayaa	445°0/[040°F] May	C-SB:130˚C/[266°F] Max.	Within 100mm(4in) of the discharge fitting.
7	Discharge Gas Temp.	115℃/[240 °F] Max.	C-SC:135°C/[ 275°F] Max.	Inside of the well pipe on the top o comp.
8	Suction Gas Temp.	Superheat: 5K/[10 °F] Min.	No excessive noise	It should meet the requirement of item 5, 6, 7 and 14 within 300mm of the suction fitting.
9	Running Voltage	Within ±10% of	the rated voltage	Voltage at comp. terminals.
10	Charting Valtage	Three Phase Models: 85% of the rated voltage min. Droppe		Dropped voltage at comp.
10	Starting Voltage	Single Phase Models: 90	% of the rated voltage min.	terminals.
11	On/Off Period	ON Period: Until the oil level returns to	the center of the lower bearing	For at least 7 minutes -ON/3
		OFF Period: Until balance of high and	minutes-OFF is recommendable.	
12	Refrigerant Charge	Oil/Refrigera	ant(wt. ▶0.35	Specific gravity of the Oil: 0.94.
13	Life Time	200,00	0 cycle	
4.4	Minimum Oil Laval	C-SB: Center of the lower bearing	C-SB:Bottom of the lower bearing	
14	Minimum Oil Level	C-SC:No less than 70°	% of the initial oil charge	]
15	Abnormal Pressure	Pressure Rise: 4.15MPa(G)/[(602psig)	By high pressure switch	
15	Rise/Drop	Pressure Drop: 0.15MPa(G) /[22psig	By low pressure switch	
16	System Moisture Level	200рр		
17	System Uncondensable	1 Vol.9	% Max.	24 hrs. after vacuuming: 1.01kPa
17	Gas Level	Residual Oxyge	n 0.1 Vol.% Max.	Max.
18	Tilt	5° De	g.Max.	

Operation beyond the above limits must be approved by Dalian SANYO Compressor Co., Ltd.

(G): Gauge Pressure

#### **Notes**

- 1 Installation should be completed within 15 minutes after removing the rubber plugs.
- 2 Do not use the compressor to compress air.
- 3 Do not energize the compressor under vacuumed conditon.
- 4 Evacuation and Refrigerant charge: Evacuate internal section in the refrigeration system from high and low pressure sides and charge liquid refrigerant from condenser outlet side. Additional charge shall be done with gas condition from low side.
- 5 Do not tilt over the compressor while carrying it.
- 6 Do not remove the paint.
- 7 Crankcase heater is required when the oil sump temperature is too low to meet the requirement of item 6.
- 8 Voltage fluctuation between compressor terminals, during operation, shall be within 2% of the rated voltage.
- 9 Do not operate compressor in reverse rotational direction.
- 10 Suction strainers are recommended for all applications.

#### **APPLICATION STANDARD & LIMIT (R134a)**

The following requirements apply to Vertical type Hermetic Scroll Compressors:

**Standard:** Applicable to ordinary conditions in Japan JIS B8616 or equivalent conditions, such as standard rating conditions, maximum operating conditions, low temperature conditions, etc.

Limit: Applicable to transitional brief periods, such as start-up and beginning of defrost mode.

No.	Item	Standard	Limit	Note
1	Refrigerant	R1:	34a	
2	Evaporating Temp.	-12~+12°C/[10~54 ° F] 0.09~0.34MPa(G)/[13~49psig]	-15~+15℃/[5~59 ° F] 0.06~0.39MPa(G)[(9~57psig]	Comp. Suction Pressure
3	Condensing Temp.	+30~+70 °C/[86~158 ° F] 0.67~2.02MPa(G)/[97~293psig]	+75℃/[167 °F] 2.26MPa(G)/[328psig]	Comp. Discharge Pressure
4	Compression Ratio	2 ~ 6	10	
5	Winding Temp.	115℃/[240 °F] Max.	125℃/[257 °F]	
		Upper Limit: 90C/[194 °F]	Max.	
6	Shell Bottom Temp.	Lower Limit: Evaporating Temp.	+12K / [21 °F] Min.	When comp. Is running
		Ambient Temp.	+11K / [20 °F] Min.	When comp. shuts off
7	Discharge Cos Tomp	115℃/[240 °F] Max.	C-SB:130°C/[266°F] Max.	Within 100mm(4in) of the discharge fitting.
,	Discharge Gas Temp.	113 C/[240 F] Max.	C-SC:135℃/[ 275°F] Max.	Inside of the well pipe on the top of comp.
8	Suction Gas Temp.	Superheat: 5K/[10 °F] Min.	No excessive noise	It should meet the requirement of item 5, 6, 7 and 14 within 300mm of the suction fitting.
9	Running Voltage	Within ±10% of	the rated voltage	Voltage at comp. terminals.
10	Starting Voltage	Three Phase Models: 85	% of the rated voltage min.	Dropped voltage at comp.
	Starting Voltage	Single Phase Models: 90	% of the rated voltage min.	terminals.
11	On/Off Period	ON Period: Until the oil level returns to OFF Period: Until balance of high and		For at least 7 minutes -ON/3 minutes-OFF is recommendable.
12	Refrigerant Charge	Oil/Refrigera	nt(wt. ⊳0.35	Specific gravity of the Oil: 0.94.
13	Life Time		0 cycle	apar against a said
		C-SB: Center of the lower bearing	C-SB:Bottom of the lower bearing	
14	Minimum Oil Level	C-SC:No less than 70%	% of the initial oil charge	
45	Abnormal Pressure	Pressure Rise: 2.40MPa(G) /[348psig]	By high pressure switch	
15	Rise/Drop	Pressure Drop: 0.03MPa(G)/[4.35psig] Min.		By low pressure switch
16	System Moisture Level	200ppi		
17	System Uncondensable	1 Vol.9	24 hrs. after vacuuming: 1.01kPa	
17	Gas Level	Residual Oxyge	Max.	
18	Tilt	5° De	g.Max.	

Operation beyond the above limits must be approved by Dalian SANYO Compressor Co., Ltd.

(G): Gauge Pressure

#### **Notes**

- 1 Installation should be completed within 15 minutes after removing the rubber plugs.
- 2 Do not use the compressor to compress air.
- 3 Do not energize the compressor under vacuumed conditon.
- 4 Evacuation and Refrigerant charge: Evacuate internal section in the refrigeration system from high and low pressure sides and charge liquid refrigerant from condenser outlet side. Additional charge shall be done with gas condition from low side.
- 5 Do not tilt over the compressor while carrying it.
- 6 Do not remove the paint.
- 7 Crankcase heater is required when the oil sump temperature is too low to meet the requirement of item 6.
- 8 Voltage fluctuation between compressor terminals, during operation, shall be within 2% of the rated voltage.
- 9 Do not operate compressor in reverse rotational direction.
- 10 Suction strainers are recommended for all applications.

#### ■ APPLICATION STANDARD&LIMIT(R22 for Refrigeration)

The following requirements apply to Vertical type Hermetic Scroll Compressors.

Standard: Applicable to ordinary conditions(including standard, over-load and low-temp. conditions).

Limit : Applicable to transitional short periods, such as starting and early stage of defrost mode.

No.	Item	Standard	Limit	Note
1	Refrigerant	R22(Meet the standar		
0	Evaporating Tamp	- 40 ~	- 5°C	
2	Evaporating Temp.	(0.004 ~ 0.3	20 MPa(G))	Comp. Suction Pressure
3	Condensing Temp.	+ 30 ~ + 55°C	+ 63°C	Ensure the pressure difference of thermal expansion valve be within
		(1.09 ~ 2.08 MPa(G))	(2.49 MPa(G))	0.8MPa(G) Min.
4	Compression Ratio	24	Max	
5	Winding Temp.	90°C Max	110°C	
		Upper Limit: 90°C Max		
6	Shell Bottom Temp.	Lower Limit: Evaporating Temp.+ 12	K Min ( When comp. Is running)	To install crackcase heater
	·		lin ( When comp. shuts off )	
		115°C Max	125°C	Inside of the well pipe on the top of
7	Discharge Gas Temp.		Set discharge gas thermo sensor as 128C OFF,75°C ON	
8	Suction Gas Temp.	18°C Max	No excessive noise	lt should meet the requirement of item 5,6,7and 14 within 300mm of the
			No increase of current or vibration	suction fitting.
9	Running Voltage	Within±10% of	the rated voltage	Voltage at comp. Terminals
10	Starting Voltage	85% of the rat	ed voltage min.	Dropped voltage at comp. Terminals.
11	On/Off Period	ON Period:Until the oil level retruns t OFF Period:Until balance of high and		For at least 7 minutes-ON/3 minutes-OFF is recommendable
12	Refrigerant Charge	Charged Volume: to minimize refrige	rent charge as far as possible.	Use the cooling temperature
		No FLASH GAS occurs before expan	nsion valve	pressure of system to decide a reasonable quantity
13	Life Time		cycle Max.	
14	Oil Level	Keep oil level above LOW level of sign		
15	Abnormal Pressure Rise Abnormal Pressure Drop	Pressure Rise: 2 Pressure Drop: -	By high pressure switch By low pressure switch	
16	System Moisture Level	Balance moisture in Refrigerant circu Recommend the componet on the rig	Dry core:D-S type made by SANYO	
17	System Uncondensable		1 Vol.% Max.	
	Gas Level	Residual Oxyge	24 hrs. after vacuuming:1.01 kPa Max.	
18	Tilt	70	g.Max.	
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Operation beyond above limits must be approved by Dalian Sanyo Compressor Co.,Ltd.

(G): GAUGE PRESSURE

#### **Notes**

- 1.Installation should be completed within 15minutes after removing the rubber plugs.
- 2.Do not use the compressor to compress air.
- 3.Do not energize the compressor under vacuumed condition.
- 4.Install the compressors into the units, when it operates after charging
- 5.Do not tilt over the compressor while carrying it.
- 6.Do not remove the paint.
- 7.Crankcase heater is required when the oil sump temperature is too low to meet the requirement of item .
- 8. Voltage fluctuation between compressor terminals, during operation, shall be within 2% of the rated voltage.
- 9.Do not operate compressor in reverse rotational direction.
- 10.Set filters on each line as suction,oil supplying.
- 11.The stress of tubing(copper tube) should be below 34.32N/mnwhen it starts or stops, and below 12.26 N/mnwhen it operates.

#### ■ APPLICATION STANDARD&LIMIT(R404A for Refrigeration)

The following requirements apply to Vertical type Hermetic Scroll Compressors.

Standard: Applicable to ordinary conditions(including standard, over-load and low-temp. conditions).

Limit : Applicable to transitional short periods, such as starting and early stage of defrost mode.

No.	Item	Standard	Limit	Note	
1	Refrigerant	R404A			
2	Evaporating Tomp	- 40 ~ - 5°C			
	Evaporating Temp.	(0.004 ~ 0.411 MPa(G))		Comp. Suction Pressure	
3	Condensing Temp.	+ 30 ~ + 55°C	+ 58°C	Ensure the pressure difference of thermal expansion valve be within	
		(1.31 ~ 2.18 MPa(G))	(2.63 MPa(G))	0.8MPa(G) Min.	
4	Compression Ratio	24 Max			
5	Winding Temp.	90°C Max	110°C		
6	Shell Bottom Temp.	Upper Limit: 90°C Max			
		Lower Limit: Evaporating Temp.+ 12K Min (When comp. Is running)  Ambient Temp.+ 11K Min (When comp. shuts off)		To install crackcase heater	
					7
Set discharge gas thermo se	ensor as 128C OFF,75°C ON	comp.			
8	Suction Gas Temp.	18°C Max	No excessive noise	It should meet the requirement of item 5,6,7and 14 within 300mm of	
		Superheat:10K Min.	No increase of current or vibration	the suction fitting.	
9	Running Voltage	Within±10% of the rated voltage		Voltage at comp. Terminals	
10	Starting Voltage	85% of the rated voltage min.		Dropped voltage at comp. Terminals.	
11	On/Off Period	ON Period:Until the oil level retruns to the center of the lower bearing.		For at least 7 minutes-ON/3	
		OFF Period:Until balance of high and low pressure side is obtained.		minutes-OFF is recommendable	
12	Refrigerant Charge	Charged Volume: to minimize refrigerent charge as far as possible.  No FLASH GAS occurs before expansion valve		Use the cooling temperature	
				pressure of system to decide a reasonable quantity	
13	Life Time	200,000 cycle Max.			
14	Oil Level	Keep oil level above LOW level of sightglass when running			
15	Abnormal Pressure Rise			By high pressure switch	
16	Abnormal Pressure Drop System Moisture Level			By low pressure switch Dry core:D-S type made by SANYO	
10	Oystem Moisture Level	Recommend the componet on the right when drier is needed.		bry core.b-3 type made by SANTO	
17	System Uncondensable	·		24 hrs. after vacuuming:1.01 kPa	
	Gas Level	Residual Oxygen 0.1 Vol.% Max.		Max.	
18	Tilt	5° De			
Operation beyond above limits must be approved by Delian Sanya Compressor Co. Ltd.				(C) · CALICE DDESCLIDE	

Operation beyond above limits must be approved by Dalian Sanyo Compressor Co.,Ltd.

(G): GAUGE PRESSURE

#### Notes

- 1.Installation should be completed within 15minutes after removing the rubber plugs.
- 2.Do not use the compressor to compress air.
- 3.Do not energize the compressor under vacuumed condition.
- 4.Install the compressors into the units, when it operates after charging
- 5.Do not tilt over the compressor while carrying it.
- 6.Do not remove the paint.
- 7.Crankcase heater is required when the oil sump temperature is too low to meet the requirement of item .
- 8. Voltage fluctuation between compressor terminals, during operation, shall be within 2% of the rated voltage.
- 9.Do not operate compressor in reverse rotational direction.
- 10.Set filters on each line as suction,oil supplying.
- 11. The stress of tubing(copper tube) should be below 34.32N/mm, when it starts or stops, and below 12.26 N/mm when it operates.

# CLIPARTES

All of the pictures in catalogue are only for your reference and subject to the actual products. Parameters are subject to change without notice.



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