

CXH02-80-230Y

Data sheets

Semi-hermetic compact compressors > CXH series - Vi 3.1 high compression ratio / for HFC - HCFC - HFO

Rotors	Technical data:		
Displacement @ 60 Hz m3/h (60Hz) 276 Compressor version[1] 2 Motor power (HP) 80 Motor power (WW) 60 Motor voltage at 50 Hz[2] V/ph/Hz 400 (H-/10%) V/3/60Hz PWS Motor voltage at 60 Hz[2] V/ph/Hz 480 (H-/10%) V/3/60Hz PWS PWS partition 50-50 50-50 Capacity control (CC) step % 100-75-50-25 Capacity control (CC) stepless % 100-50 MRA, maximum operating current at 400V/50Hz and 460V/60Hz. A 145 LRA, maximum starting current at 400V/50Hz and 460V/60Hz, PWS motor A 600 LRA, maximum starting current at 400V/50Hz and 460V/60Hz, PWS motor with DOL connection A 600 Max power consumption kW (@ 50Hz) 1113-84 Frequency min Hz 30 Frequency min Hz 70 Protection device INT69 FRYL Diagnose Enclosure class IP86 Maximum pressure HP bar 2.5 Maximum pressure LP bar 2.5 Oil type[4]	Rotors	#	2
Displacement @ 60 Hz m3/h (60Hz) 276 Compressor version[1] 2 Motor power (HP) 80 Motor power (WW) 60 Motor voltage at 50 Hz[2] V/ph/Hz 400 (H-/10%) V/3/60Hz PWS Motor voltage at 60 Hz[2] V/ph/Hz 480 (H-/10%) V/3/60Hz PWS PWS partition 50-50 50-50 Capacity control (CC) step % 100-75-50-25 Capacity control (CC) stepless % 100-50 MRA, maximum operating current at 400V/50Hz and 460V/60Hz. A 145 LRA, maximum starting current at 400V/50Hz and 460V/60Hz, PWS motor A 600 LRA, maximum starting current at 400V/50Hz and 460V/60Hz, PWS motor with DOL connection A 600 Max power consumption kW (@ 50Hz) 1113-84 Frequency min Hz 30 Frequency min Hz 70 Protection device INT69 FRYL Diagnose Enclosure class IP86 Maximum pressure HP bar 2.5 Maximum pressure LP bar 2.5 Oil type[4]	Displacement @ 50 Hz	m3/h [50Hz]	230
Compressor version[1] 2 Motor power (HP) 80 Motor power (kW) 60 Motor voltage at 50 Hz[2] V/ph/Hz 400 (+/-10%) V/3/50Hz PWS Motor voltage at 60 Hz[2] V/ph/Hz 460 (+/-10%) V/3/50Hz PWS PWS partition 50-50 50-50 Capacity control (CC) step % 100-75-50-25 Capacity control (CC) stepless % 100-60 MRA, maximum operating current at 400V/50Hz and 4A A 145 LRA, maximum starting current at 400V/50Hz and A A 373 460V/60Hz, PWS motor A 600 Max power consumption kW (@ 50Hz) 113.64 Frequency min Hz 30 Frequency max[3] Hz 70 Protection device INT69 FRYL Diagnose Enclosure class IP65 Maximum pressure HP bar 20.5 Maximum pressure LP bar 20.5 Oil type[4] POE 170 cSt Oil filter Standard; integrated Crankcase heater Standard </td <td></td> <td></td> <td>276</td>			276
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Frequency min Hz 30 Frequency max[3] Hz 70 Protection device INT69 FRYL Diagnose Enclosure class IP65 Maximum pressure HP bar 30 Maximum pressure LP bar 20.5 Oil type[4] POE 170 cSt Oil of litter \$tandard; replaceable Oil filter \$tandard; replaceable Crankcase heater \$tandard; integrate Oil level sight glass 1 Oil water cooling \$tandard Integrated check valve \$tandard Maximum oil temperature sensor \$tandard Suction plug (SL) mm mm 79.4 Suction plug (SL) inch inch 3" 1/8 Discharge valve (DV) mm mm 54 Discharge valve (DV) mm mm 54 Discharge valve DV inch inch 2" 1/8 Net weight kg 550 Length mm 360 Max Width mm 624 Sound power level (5/50, R407A)[5	LRA, maximum starting current at 400V/50Hz and 460V/60Hz, PWS motor with DOL connection		600
Frequency max[3] Hz 70 Protection device INT69 FRYL Diagnose Enclosure class IP65 Maximum pressure HP bar 30 Maximum pressure LP bar 20.5 Oil type[4] POE 170 cst Oil charge I 11 Oil filter Standard; replaceable Crankcase heater Standard; integrate Oil level sight glass 1 1 Oil water cooling Standard 1 Integrated check valve Standard 1 Maximum oil temperature sensor Standard 1 Suction plug (SL) inch inch 3" 1/8 Suction plug (SL) inch inch 3" 1/8 Discharge valve (DV) mm mm 54 Discharge valve pV inch inch 2" 1/8 Net weight kg 550 Length mm 1393 Max Width mm 660 Maximum height mm 624 Sound power level (6/50, R407A)[5] <th< td=""><td>Max power consumption</td><td>kW [@ 50Hz]</td><td>113.64</td></th<>	Max power consumption	kW [@ 50Hz]	113.64
Protection device INT69 FRYL Diagnose Enclosure class IP65 Maximum pressure HP bar 30 Maximum pressure LP bar 20.5 Oil type[4] POE 170 cSt Oil charge I 11 Oil filter Standard; replaceable Crankcase heater Standard; integrate Oil level sight glass 1 Oil water cooling Standard Integrated check valve Standard Maximum oil temperature sensor Standard Suction plug (SL) mm mm 79.4 Suction plug (SL) inch inch 3" 1/8 Discharge valve (DV) mm mm 54 Discharge valve (DV) mm mm 54 Discharge valve DV inch inch 2" 1/8 Net weight kg 550 Length mm 1393 Max Width mm 560 Maximum height mm 624 Sound power level (§/50, R407A)[5] dB(A) 86.6 Sound pres	Frequency min	Hz	30
Enclosure class	Frequency max[3]	Hz	70
Maximum pressure HP bar 30 Maximum pressure LP bar 20.5 Oil type[4] POE 170 cSt Oil charge I 11 Oil filter Standard; replaceable Crankcase heater Standard; integrate Oil level sight glass 1 Oil water cooling Standard Integrated check valve Standard Maximum oil temperature sensor Standard Suction plug (SL) mm mm 79.4 Suction plug (SL) inch inch 3" 1/8 Discharge valve (DV) mm mm 54 Discharge valve (DV) mm mm 54 Discharge valve DV inch inch 2" 1/8 Net weight kg 550 Length mm 1393 Max Width mm 560 Maximum height mm 624 Sound power level (5/50, R407A)[5] dB(A) 86.6 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 78.6	Protection device		INT69 FRYL Diagnose
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Oil charge I 11 Oil filter Standard; replaceable Crankcase heater Standard; integrate Oil level sight glass 1 Oil water cooling Standard Integrated check valve Standard Maximum oil temperature sensor Standard Suction plug (SL) mm mm 79.4 Suction plug (SL) inch inch 3" 1/8 Discharge valve (DV) mm mm 54 Discharge valve DV inch inch 2" 1/8 Net weight kg 550 Length mm 1393 Max Width mm 560 Maximum height mm 624 Sound power level (5/50, R407A)[5] dB(A) 86.6 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 78.6	Maximum pressure LP	bar	20.5
Oil filter Standard; replaceable Crankcase heater Standard; integrate Oil level sight glass 1 Oil water cooling Standard Integrated check valve Standard Maximum oil temperature sensor Standard Suction plug (SL) mm mm 79.4 Suction plug (SL) inch inch 3" 1/8 Discharge valve (DV) mm mm 54 Discharge valve DV inch inch 2" 1/8 Net weight kg 550 Length mm 1393 Max Width mm 560 Maximum height mm 624 Sound power level (5/50, R407A)[5] dB(A) 86.6 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 78.6	Oil type[4]		POE 170 cSt
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Oil level sight glass 1 Oil water cooling Standard Integrated check valve Standard Maximum oil temperature sensor Standard Suction plug (SL) mm mm 79.4 Suction plug (SL) inch inch 3" 1/8 Discharge valve (DV) mm mm 54 Discharge valve DV inch inch 2" 1/8 Net weight kg 550 Length mm 1393 Max Width mm 560 Maximum height mm 624 Sound power level (5/50, R407A)[5] dB(A) 86.6 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 78.6	Oil filter		Standard; replaceable
Oil water cooling Standard Integrated check valve Standard Maximum oil temperature sensor Standard Suction plug (SL) mm mm 79.4 Suction plug (SL) inch inch 3" 1/8 Discharge valve (DV) mm mm 54 Discharge valve DV inch inch 2" 1/8 Net weight kg 550 Length mm 1393 Max Width mm 560 Maximum height mm 624 Sound power level (5/50, R407A)[5] dB(A) 86.6 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 78.6	Crankcase heater		Standard; integrate
Integrated check valve Standard Maximum oil temperature sensor Standard Suction plug (SL) mm mm 79.4 Suction plug (SL) inch inch 3" 1/8 Discharge valve (DV) mm mm 54 Discharge valve DV inch inch 2" 1/8 Net weight kg 550 Length mm 1393 Max Width mm 560 Maximum height mm 624 Sound power level (5/50, R407A)[5] dB(A) 86.6 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 78.6	Oil level sight glass		1
Maximum oil temperature sensor Standard Suction plug (SL) mm mm 79.4 Suction plug (SL) inch inch 3" 1/8 Discharge valve (DV) mm mm 54 Discharge valve DV inch inch 2" 1/8 Net weight kg 550 Length mm 1393 Max Width mm 560 Maximum height mm 624 Sound power level (5/50, R407A)[5] dB(A) 86.6 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 78.6	Oil water cooling		Standard
Suction plug (SL) mm mm 79.4 Suction plug (SL) inch inch 3" 1/8 Discharge valve (DV) mm mm 54 Discharge valve DV inch inch 2" 1/8 Net weight kg 550 Length mm 1393 Max Width mm 560 Maximum height mm 624 Sound power level (5/50, R407A)[5] dB(A) 86.6 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 78.6	Integrated check valve		Standard
Suction plug (SL) inch inch 3" 1/8 Discharge valve (DV) mm mm 54 Discharge valve DV inch inch 2" 1/8 Net weight kg 550 Length mm 1393 Max Width mm 560 Maximum height mm 624 Sound power level (5/50, R407A)[5] dB(A) 86.6 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 78.6	Maximum oil temperature sensor		Standard
Discharge valve (DV) mm mm 54 Discharge valve DV inch inch 2" 1/8 Net weight kg 550 Length mm 1393 Max Width mm 560 Maximum height mm 624 Sound power level (5/50, R407A)[5] dB(A) 86.6 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 78.6	Suction plug (SL) mm	mm	79.4
Discharge valve DV inch inch 2" 1/8 Net weight kg 550 Length mm 1393 Max Width mm 560 Maximum height mm 624 Sound power level (5/50, R407A)[5] dB(A) 86.6 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 78.6	Suction plug (SL) inch	inch	3" 1/8
Net weight kg 550 Length mm 1393 Max Width mm 560 Maximum height mm 624 Sound power level (5/50, R407A)[5] dB(A) 86.6 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 78.6	Discharge valve (DV) mm	mm	54
Length mm 1393 Max Width mm 560 Maximum height mm 624 Sound power level (5/50, R407A)[5] dB(A) 86.6 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 78.6	Discharge valve DV inch	inch	2" 1/8
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Maximum height mm 624 Sound power level (5/50, R407A)[5] dB(A) 86.6 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 78.6	Length	mm	1393
Sound power level (5/50, R407A)[5] dB(A) 86.6 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 78.6	Max Width	mm	560
Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 78.6	Maximum height	mm	624
	Sound power level (5/50, R407A)[5]	dB(A)	86.6
Compressor body material Cast Iron	Sound pressure level @ 1m (5/50, R407A)[5]	dB(A)	78.6
	Compressor body material		Cast Iron

^[1] Motor version: 1, high and middle temperature, all refrigerants; 2, low and middle temperature, all refrigerants; 3 ECOinside, low temperature, only R134a and R1234ze

- [2] Other available on request
- [3] Maximum frequency depends from the working condition: see FSS3 (Frascold selection software)
- [4] Different kind of oil available on request
- [5] Sound pressure in free-field, semi-spherical emission, at 1 meter of distance, at 50Hz; power and pressure levels in different condition are available on FSS2



CXH02-80-230Y

Data sheets

Semi-hermetic compact compressors > CXH series - Vi 3.1 high compression ratio / for HFC - HCFC - HFO

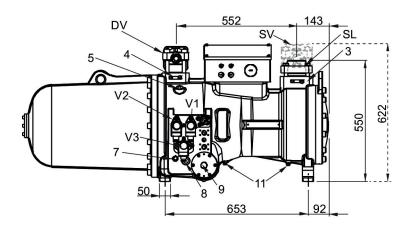
Accessories:		
DOL bridge bars	T00WK1200	
Suction valve	T00SK103900B	
Optoelectronic oil level switch	T00WP253	
Filter clogging switch	T00W3501122	
Motor cooling by means of suction gas	T00WK1400	
Valve+muffler for ECO/liquid injection	T00WK1500	
Rubber vibration absorber kit	T00SK205200	
Oil separator	See if You need and the selection on FSS	
Nipples for oil cooler connection	T00WK1450	

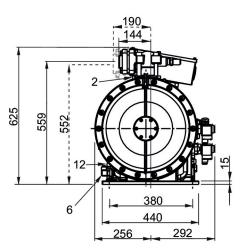


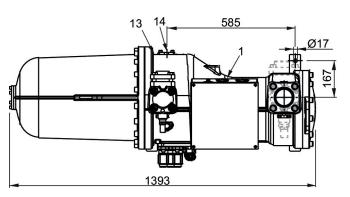
CXH02-80-230Y

Data sheets

Semi-hermetic compact compressors > CXH series - Vi 3.1 high compression ratio / for HFC - HCFC - HFO







Din	nensional drawing:	
1	Low pressure connection	1/8" NPT
2	High pressure connection	1/8" NPT
3	Low pressure connection	1/4"SAE x 1/4"SAE
4	High pressure connection	1/4"SAE x 1/4"SAE
5	Oil charge plug	3/8"GAS
6	Crankcase heater	-
7	Oil level switch connection	3/4"NPT
8	Oil level sight glass	-
9	Connection for filter clogging sensor	1/2"GAS
10	Connection for oil cooler	1/2"NPT
11	Connection for oil drain	1/4"NPT
12	Oil drain valve	1/8" NPT
13	Maximum oil temperature sensor	-
14	Connection for ECO/liquid injection	Ø1"1/8
V1	Capacity control valve (step 1)	-

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79.4mm - 3"1/8
79.4mm - 3"1/8
54mm - 2"1/8
-