

CXH92-240-702Y

Data sheets

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

Rotors	Technical data:			
Displacement @ 60 Hz	Rotors	#	2	
Compressor version[1]	Displacement @ 50 Hz	m3/h [50Hz]	702	
Motor power (HP)	Displacement @ 60 Hz	m3/h [60Hz]	842	
Motor power (kW)	Compressor version[1]		2	
Motor voltage at 50 Hz[2] V/ph/Hz 400 (+/-10%) V/3/50Hz SDS Motor voltage at 60 Hz[2] V/ph/Hz 460 (+/-10%) V/3/60Hz SDS 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 427 LRA, maximum starting current at 230V/50Hz and 280V/60Hz, SDS motor A 660 LRA, maximum starting current at 400V/50Hz and 460V/60Hz, SDS motor with DOL connection A 2029 Max power consumption kW (@ 50Hz) 318.6 Frequency min Hz 30 Frequency max(3) Hz 70 Protection device INT69 FRYL Diagnose Enclosure class IP66 Maximum pressure HP bar 30 Maximum pressure LP bar 20.5 Oil type[4] POE 170 cst Oil charge I 26 Oil filter Standard; integrate Crankcase heater Standard Oil evel sight glass 2 0 Oil water cooling	Motor power (HP)		240	
Motor voltage at 60 Hz[2]	Motor power (kW)		180	
Capacity control (CC) stepless % 100-75-50-25 Capacity control (CC) stepless % 100-50 MRA, maximum operating current at 400V/50Hz and 460V/60Hz and 460V/60Hz, SDS motor with DOL connection A 650 820V/60Hz, SDS motor with DOL connection A 2029 Max power consumption kW [@ 50Hz] 318.6 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 charge I 26 Oil filter Standard, replaceable Crankcase heater Standard Oil evel sight glass 2 Oil water cooling Standard Integrate check valve Standard Maximum oil temperature sensor Standard Suction plug (SL) mm mm 104 Suction plug (SL) inch inch 4"1/8	Motor voltage at 50 Hz[2]	V/ph/Hz	400 (+/-10%) V/3/50Hz SDS	
Capacity control (CC) stepless % 100-50 MRA, maximum operating current at 400V/50Hz and 460V/60Hz A 427 LRA, maximum starting current at 230V/50Hz and 280V/60Hz, SDS motor A 650 LRA, maximum starting current at 400V/50Hz and 460V/60Hz, SDS motor with DOL connection A 2029 Max power consumption kW (@ 50Hz) 318.6 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 charge I 26 Oil filter Standard; replaceable Crankcase heater Standard; replaceable Crankcase heater Standard Oil level sight glass 2 Oil alvel sight glass 2 Oil water cooling Standard Maximum oil temperature sensor Standard Suction plug (SL) imm mm 104	Motor voltage at 60 Hz[2]	V/ph/Hz	460 (+/-10%) V/3/60Hz SDS	
MRA, maximum operating current at 400V/50Hz and 460V/60Hz. A 427 LRA, maximum starting current at 230V/50Hz and 280V/60Hz. SDS motor A 650 LRA, maximum starting current at 400V/50Hz and 460V/60Hz. SDS motor with DOL connection A 2029 Max power consumption kW (@ 50Hz) 318.6 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 charge I 26 Oil filter Standard; replaceable Crankcase heater Standard; replaceable Oil level sight glass 2 Oil level sight glass 2 Oil water cooling Standard; replaceable Integrated check valve Standard Maximum oil temperature sensor Standard Suction plug (SL) mm mm 104 Suction plug (SL) inch inch <t< td=""><td>Capacity control (CC) step</td><td>%</td><td>100-75-50-25</td></t<>	Capacity control (CC) step	%	100-75-50-25	
A60V/60Hz A	Capacity control (CC) stepless	%	100-50	
280V/60Hz , SDS motor	460V/60Hz	А	427	
460V(60Hz, SDS motor with DOL connection A 2029 Max power consumption kW [@ 50Hz] 318.6 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 charge I 26 Oil filter Standard; replaceable Crankcase heater Standard; integrate Oil level sight glass 2 Oil water cooling Standard Integrated check valve Standard Maximum oil temperature sensor Standard Suction plug (SL) mm mm 104 Suction plug (SL) inch inch 4* 1/8 Discharge valve (DV) mm mm 79.4 Discharge valve (DV) mm mm 79.4 Discharge valve DV inch inch 3* 1/8 Net weight kg 1390 </td <td>280V/60Hz , SDS motor</td> <td>Α</td> <td>650</td>	280V/60Hz , SDS motor	Α	650	
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 charge I 26 Oil filter Standard; replaceable Crankcase heater Standard; integrate Oil level sight glass 2 Oil water cooling Standard Integrated check valve Standard Maximum oil temperature sensor Standard Suction plug (SL) imm mm 104 Suction plug (SL) inch inch 4" 1/8 Discharge valve (DV) mm mm 79.4 Discharge valve (DV) mch inch 3" 1/8 Net weight kg 1390 Length mm 693 Max Width mm 693 Maximum height mm 836 Sound pressure level (§150, R407A)[5] <td></td> <td>Α</td> <td>2029</td>		Α	2029	
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 26 Oil filter Standard; replaceable Crankcase heater Standard; integrate Oil level sight glass 2 Oil water cooling Standard Integrated check valve Standard Maximum oil temperature sensor Standard Suction plug (SL) mm mm 104 Suction plug (SL) inch inch 4" 1/8 Discharge valve (DV) mm mm 79.4 Discharge valve DV inch inch 3" 1/8 Net weight kg 1390 Length mm 1845 Max Width mm 693 Maximum height mm 836 Sound power level (5/50, R407A)[5] dB(A) 92.9 Sound pressure	Max power consumption	kW [@ 50Hz]	318.6	
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 26 Oil filter Standard; replaceable Crankcase heater Standard; integrate Oil level sight glass 2 Oil water cooling Standard Integrated check valve Standard Maximum oil temperature sensor Standard Suction plug (SL) mm mm 104 Suction plug (SL) inch inch 4" 1/8 Discharge valve (DV) mm mm 79.4 Discharge valve DV inch inch 3" 1/8 Net weight kg 1390 Length mm 693 Maximum height mm 836 Sound power level (5/50, R407A)[5] dB(A) 92.9 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 84.9	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 26 Oil filter Standard; replaceable Crankcase heater Standard; integrate Oil level sight glass 2 Oil water cooling Standard Integrated check valve Standard Maximum oil temperature sensor Standard Suction plug (SL) mm mm 104 Suction plug (SL) inch inch 4" 1/8 Discharge valve (DV) mm mm 79.4 Discharge valve DV inch inch 3" 1/8 Net weight kg 1390 Length mm 1845 Max Width mm 693 Maximum height mm 836 Sound power level (5/50, R407A)[5] dB(A) 92.9 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 84.9	Protection device		INT69 FRYL Diagnose	
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Oil charge I 26 Oil filter Standard; replaceable Crankcase heater Standard; integrate Oil level sight glass 2 Oil water cooling Standard Integrated check valve Standard Maximum oil temperature sensor Standard Suction plug (SL) mm mm 104 Suction plug (SL) inch inch 4" 1/8 Discharge valve (DV) mm mm 79.4 Discharge valve DV inch inch 3" 1/8 Net weight kg 1390 Length mm 1845 Max Width mm 693 Maximum height mm 836 Sound power level (5/50, R407A)[5] dB(A) 92.9 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 84.9	Maximum pressure LP	bar	20.5	
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Crankcase heater Standard; integrate Oil level sight glass 2 Oil water cooling Standard Integrated check valve Standard Maximum oil temperature sensor Standard Suction plug (SL) mm mm 104 Suction plug (SL) inch inch 4" 1/8 Discharge valve (DV) mm mm 79.4 Discharge valve DV inch inch 3" 1/8 Net weight kg 1390 Length mm 1845 Max Width mm 693 Maximum height mm 836 Sound power level (5/50, R407A)[5] dB(A) 92.9 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 84.9	Oil charge	I	26	
Oil level sight glass 2 Oil water cooling Standard Integrated check valve Standard Maximum oil temperature sensor Standard Suction plug (SL) mm mm 104 Suction plug (SL) inch inch 4" 1/8 Discharge valve (DV) mm mm 79.4 Discharge valve DV inch inch 3" 1/8 Net weight kg 1390 Length mm 1845 Max Width mm 693 Maximum height mm 836 Sound power level (5/50, R407A)[5] dB(A) 92.9 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 84.9	Oil filter		Standard; replaceable	
Oil water cooling Standard Integrated check valve Standard Maximum oil temperature sensor Standard Suction plug (SL) mm mm 104 Suction plug (SL) inch inch 4" 1/8 Discharge valve (DV) mm mm 79.4 Discharge valve DV inch inch 3" 1/8 Net weight kg 1390 Length mm 1845 Max Width mm 693 Maximum height mm 836 Sound power level (5/50, R407A)[5] dB(A) 92.9 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 84.9	Crankcase heater		Standard; integrate	
Integrated check valve Standard Maximum oil temperature sensor Standard Suction plug (SL) mm mm 104 Suction plug (SL) inch inch 4" 1/8 Discharge valve (DV) mm mm 79.4 Discharge valve DV inch inch 3" 1/8 Net weight kg 1390 Length mm 1845 Max Width mm 693 Maximum height mm 836 Sound power level (5/50, R407A)[5] dB(A) 92.9 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 84.9	Oil level sight glass		2	
Maximum oil temperature sensor Standard Suction plug (SL) mm mm 104 Suction plug (SL) inch inch 4" 1/8 Discharge valve (DV) mm mm 79.4 Discharge valve DV inch inch 3" 1/8 Net weight kg 1390 Length mm 1845 Max Width mm 693 Maximum height mm 836 Sound power level (5/50, R407A)[5] dB(A) 92.9 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 84.9	Oil water cooling		Standard	
Suction plug (SL) mm mm 104 Suction plug (SL) inch inch 4" 1/8 Discharge valve (DV) mm mm 79.4 Discharge valve DV inch inch 3" 1/8 Net weight kg 1390 Length mm 1845 Max Width mm 693 Maximum height mm 836 Sound power level (5/50, R407A)[5] dB(A) 92.9 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 84.9	Integrated check valve		Standard	
Suction plug (SL) inch inch 4" 1/8 Discharge valve (DV) mm mm 79.4 Discharge valve DV inch inch 3" 1/8 Net weight kg 1390 Length mm 1845 Max Width mm 693 Maximum height mm 836 Sound power level (5/50, R407A)[5] dB(A) 92.9 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 84.9	Maximum oil temperature sensor		Standard	
Discharge valve (DV) mm mm 79.4 Discharge valve DV inch inch 3" 1/8 Net weight kg 1390 Length mm 1845 Max Width mm 693 Maximum height mm 836 Sound power level (5/50, R407A)[5] dB(A) 92.9 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 84.9	Suction plug (SL) mm	mm	104	
Discharge valve DV inch inch 3" 1/8 Net weight kg 1390 Length mm 1845 Max Width mm 693 Maximum height mm 836 Sound power level (5/50, R407A)[5] dB(A) 92.9 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 84.9	Suction plug (SL) inch	inch	4" 1/8	
Net weight kg 1390 Length mm 1845 Max Width mm 693 Maximum height mm 836 Sound power level (5/50, R407A)[5] dB(A) 92.9 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 84.9	Discharge valve (DV) mm	mm	79.4	
Length mm 1845 Max Width mm 693 Maximum height mm 836 Sound power level (5/50, R407A)[5] dB(A) 92.9 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 84.9	Discharge valve DV inch	inch	3" 1/8	
Max Width mm 693 Maximum height mm 836 Sound power level (5/50, R407A)[5] dB(A) 92.9 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 84.9	Net weight	kg	1390	
Maximum height mm 836 Sound power level (5/50, R407A)[5] dB(A) 92.9 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 84.9	Length	mm	1845	
Sound power level (5/50, R407A)[5] dB(A) 92.9 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 84.9	Max Width	mm	693	
Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 84.9	Maximum height	mm	836	
	Sound power level (5/50, R407A)[5]	dB(A)	92.9	
Compressor body material Cast Iron	Sound pressure level @ 1m (5/50, R407A)[5]	dB(A)	84.9	
	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



CXH92-240-702Y

Data sheets

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

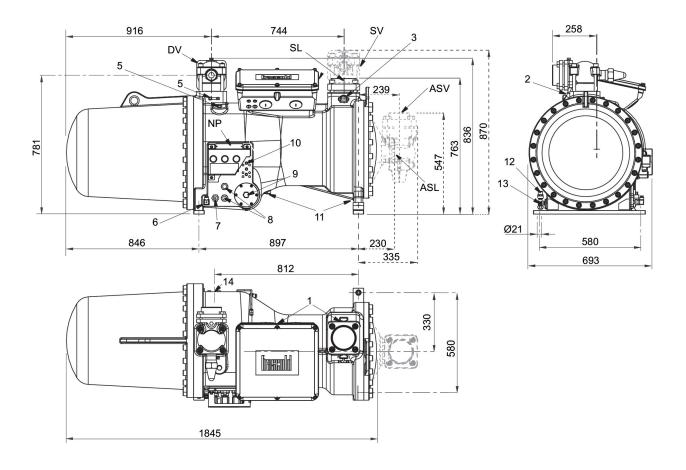
Accessories:		
DOL bridge bars	T00WK1200	
Suction valve	T00SK103920B	
Optoelectronic oil level switch	T00WP253	
Filter clogging switch	T00W3501122	
Motor cooling by means of suction gas	T00WK1400	
Valve+muffler for ECO/liquid injection	T00WK1520	
Rubber vibration absorber kit	T00SK205201	
Oil separator	See if You need and the selection on FSS	
Nipples for oil cooler connection	T00WK1450	



CXH92-240-702Y

Data sheets

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



Dir	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)	-

V2 Capacity control valve (step 2)	-
V3 Capacity control valve (step 3)	-
SV Suction valve	104mm - 4"1/8
SL Suction plug	104mm - 4"1/8
DV Discharge valve	79.4mm - 3"1/8
NP Name plate	-