

CXH01-60-230Y

Data sheets

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

Rotors	Technical data:			
Displacement	Rotors	#	2	
Compressor version[1]	Displacement @ 50 Hz	m3/h [50Hz]	230	
Motor power (HP)	Displacement @ 60 Hz	m3/h [60Hz]	276	
Motor power (kW)	Compressor version[1]		1	
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/3/60Hz PWS PWS partition 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 98 LRA, maximum starting current at 400V/50Hz and 460V/60Hz. PWS motor with DOL connection A 262 LRA, maximum starting current at 400V/50Hz and 460V/60Hz. PWS motor with DOL connection A 425 Max power consumption kW @ 50Hz] 73.8 Frequency min Hz 30 Frequency max[3] Hz 70 Protection device INT69 FRVL Diagnose Enclosure class IP65 Maximum pressure HP bar 30 Maximum pressure LP bar 20.5 Oil type[4] POE 170 cst Oil type[4] POE 170 cst Oil valer cooling Standard; replaceable Crankcase heater Standard; replaceable Oil level sight	Motor power (HP)		60	
Motor voltage at 60 Hz[2]	Motor power (kW)		45	
PWS partition	Motor voltage at 50 Hz[2]	V/ph/Hz	400 (+/-10%) V/3/50Hz PWS	
Capacity control (CC) steples % 100-75-50-25 Capacity control (CC) stepless % 100-50 MRA, maximum operating current at 400V/50Hz and 460V/60Hz A 98 460V/60Hz, PWS motor A 262 460V/60Hz, PWS motor with DOL connection A 425 Max power consumption kW [@ 50Hz] 73.8 Frequency min Hz 30 Frequency max[3] Hz 70 Protection device INT69 FYL 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 Oil water cooling Standard Integrate dheck valve Standard Maximum oil temperature sensor Standard Suction plug (SL) inch inch 3*1/8 Discharge valve (DV) mm mm 54 Discharge	Motor voltage at 60 Hz[2]	V/ph/Hz	460 (+/-10%) V/3/60Hz PWS	
Capacity control (CC) stepless % 100-50 MRA, maximum operating current at 400V/50Hz and 460V/60Hz. A 98 460V/60Hz. A 98 LRA, maximum starting current at 400V/50Hz and 460V/60Hz. PWS motor A 262 LRA, maximum starting current at 400V/50Hz and 460V/60Hz. PWS motor with DOL connection A 425 Max power consumption kW [@ 50Hz] 73.8 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 11 Oil filter Standard; replaceable Crankcase heater Standard Oil level sight glass 1 Oil water cooling Standard Integrated check valve Standard Maximum oil temperature sensor Standard Suction plug (SL) mm mm 54	PWS partition		50-50	
MRA, maximum operating current at 400V/50Hz and 460V/60Hz. A 98 LRA, maximum starting current at 400V/50Hz and 460V/60Hz. PWS motor A 262 LRA, maximum starting current at 400V/50Hz and 460V/60Hz. PWS motor with DOL connection A 425 LRA, maximum starting current at 400V/50Hz and 460V/60Hz. PWS motor with DOL connection A 425 Max power consumption kW [@ 50Hz] 73.8 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 type[4] POE 170 cSt Oil type[4] Standard; integrate Oil level sight glass 1 1 Oil level sight glass 1 1 Oil water cooling Standard Integrated check valve Standard Maximum oil temperature sensor Standard Suction plug (SL) inch inch 3" 1/8	Capacity control (CC) step	%	100-75-50-25	
A60V/60Hz	Capacity control (CC) stepless	%	100-50	
A60V/60Hz, PWS motor	460V/60Hz	А	98	
460V/60Hz, PWS motor with DOL connection A 425 Max power consumption kW [@ 50Hz] 73.8 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 1 Oil filter Standard; replaceable Crankcase heater Standard; replaceable Crankcase heater Standard; integrate Oil level sight glass 1 Oil evel sight glass 1 Standard 1 <t< td=""><td>460V/60Hz, PWS motor</td><td>Α</td><td colspan="2">262</td></t<>	460V/60Hz, PWS motor	Α	262	
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 clarge 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 535 Length mm 1393 Max Width mm 624 Sound p		Α	425	
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 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 535 Length mm 1393 Max Width mm 624 Sound power level (5/50, R134a)[5][5] dB(A) 77.2	Max power consumption	kW [@ 50Hz]	73.8	
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) inch inch 3" 1/8 Discharge valve (DV) mm mm 54 Discharge valve DV inch inch 2" 1/8 Net weight kg 535 Length mm 1393 Max Width mm 624 Sound power level (5/50, R134a)[5][5] dB(A) 77.2	Frequency min	Hz	30	
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 inch inch 2" 1/8 Net weight kg 535 Length mm 1393 Max Width mm 624 Sound power level (5/50, R134a)[5][5] dB(A) 77.2	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 inch inch 2" 1/8 Net weight kg 535 Length mm 1393 Max Width mm 660 Maximum height mm 624 Sound power level (5/50, R134a)[5][5] dB(A) 77.2	Protection device		INT69 FRYL Diagnose	
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 inch inch 2" 1/8 Net weight kg 535 Length mm 1393 Max Width mm 560 Maximum height mm 624 Sound power level (5/50, R134a)[5][5] dB(A) 77.2	Enclosure class		IP65	
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 inch inch 2" 1/8 Net weight kg 535 Length mm 1393 Max Width mm 560 Maximum height mm 624 Sound power level (5/50, R134a)[5][5] dB(A) 77.2	Maximum pressure HP	bar	30	
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 535 Length mm 1393 Max Width mm 560 Maximum height mm 624 Sound power level (5/50, R134a)[5][5] dB(A) 77.2	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 535 Length mm 1393 Max Width mm 560 Maximum height mm 624 Sound power level (5/50, R134a)[5][5] dB(A) 77.2	Oil type[4]	POE 170 cSt		
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 535 Length mm 1393 Max Width mm 560 Maximum height mm 624 Sound power level (5/50, R134a)[5][5] dB(A) 77.2	Oil charge	l 11		
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 535 Length mm 1393 Max Width mm 560 Maximum height mm 624 Sound power level (5/50, R134a)[5][5] dB(A) 77.2	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 535 Length mm 1393 Max Width mm 560 Maximum height mm 624 Sound power level (5/50, R134a)[5][5] dB(A) 77.2	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 535 Length mm 1393 Max Width mm 560 Maximum height mm 624 Sound power level (5/50, R134a)[5][5] dB(A) 77.2	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 535 Length mm 1393 Max Width mm 560 Maximum height mm 624 Sound power level (5/50, R134a)[5][5] dB(A) 77.2	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 535 Length mm 1393 Max Width mm 560 Maximum height mm 624 Sound power level (5/50, R134a)[5][5] dB(A) 77.2	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 535 Length mm 1393 Max Width mm 560 Maximum height mm 624 Sound power level (5/50, R134a)[5][5] dB(A) 77.2	Maximum oil temperature sensor		Standard	
Discharge valve (DV) mm mm 54 Discharge valve DV inch inch 2" 1/8 Net weight kg 535 Length mm 1393 Max Width mm 560 Maximum height mm 624 Sound power level (5/50, R134a)[5][5] dB(A) 77.2	Suction plug (SL) mm	mm	79.4	
Discharge valve DV inch inch 2" 1/8 Net weight kg 535 Length mm 1393 Max Width mm 560 Maximum height mm 624 Sound power level (5/50, R134a)[5][5] dB(A) 77.2	Suction plug (SL) inch	inch	3" 1/8	
Net weight kg 535 Length mm 1393 Max Width mm 560 Maximum height mm 624 Sound power level (5/50, R134a)[5][5] dB(A) 77.2	Discharge valve (DV) mm	mm	54	
Length mm 1393 Max Width mm 560 Maximum height mm 624 Sound power level (5/50, R134a)[5][5] dB(A) 77.2	Discharge valve DV inch	inch	2" 1/8	
Max Width mm 560 Maximum height mm 624 Sound power level (5/50, R134a)[5][5] dB(A) 77.2	Net weight	kg	535	
Maximum height mm 624 Sound power level (5/50, R134a)[5][5] dB(A) 77.2	Length	mm	1393	
Sound power level (5/50, R134a)[5][5] dB(A) 77.2	Max Width	mm	560	
	Maximum height	mm	624	
Compressor body material Cast Iron	Sound power level (5/50, R134a)[5][5]	dB(A)	77.2	
	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



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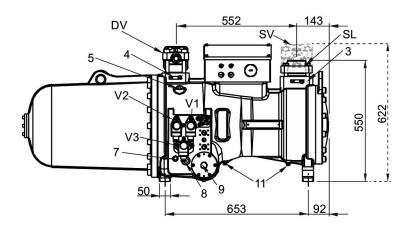
Accessories:		
DOL bridge bars	T00WK1200	
Suction valve	T00SK103900B	
Optoelectronic oil level switch	T00WP253	
Filter clogging switch	T00W3501122	
Motor cooling by means of suction gas	T00WK1400	
Valve+muffler for ECO/liquid injection	T00WK1500	
Rubber vibration absorber kit	T00SK205200	
Oil separator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

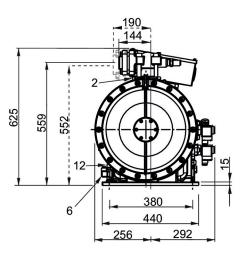


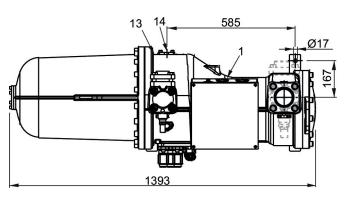
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Dir	nensional drawing:	
1	Low pressure connection	1/8" NPT
2	High pressure connection	1/8" NPT
3	Low pressure connection	1/4"SAE x 1/4"SAE
4	High pressure connection	1/4"SAE x 1/4"SAE
5	Oil charge plug	3/8"GAS
6	Crankcase heater	-
7	Oil level switch 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)	-

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