

CXH52-125-372Y

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
Displacement @ 60 Hz	Displacement @ 50 Hz	m3/h [50Hz]	372
Compressor version[1] 2 Motor power (HP) 125 Motor power (kW) 95 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 Capacity control (CC) step % 100-75-50-25 Capacity control (CC) stepless % 100-50 MRA, maximum operating current at 400V/50Hz and 400V/50Hz a			446
Motor power (kW) 95 Motor power (kW) 95 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 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 218 LEA, maximum starting current at 400V/50Hz and 460V/60Hz, PWS motor A 838 LEA, maximum starting current at 400V/50Hz and 460V/60Hz, PWS motor with DOL connection A 838 Max power consumption WI @ 50Hz] 168.12 168.12 Frequency max[3] Hz 30 168.12 168.12 169.12			2
Motor power (kW) 95 Motor voltage at 60 Hz[2] V/ph/Hz 400 (+/-10%) V/3/50Hz PWS Motor voltage at 60 Hz[2] V/ph/Hz 400 (+/-10%) V/3/50Hz 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 480V/60Hz A 218 LRA, maximum starting current at 400V/50Hz and 480V/60Hz, PWS motor with DOL connection A 330 Max power consumption kW (@ 50Hz) 168.12 Max power consumption kW (@ 50Hz) 168.12 Frequency max[3] Hz 30 Frequency max[4] Hz 30 Protection device INT69 FRYL Diagnose Enclosure class IP65 4 Maximum pressure IP bar 30 Maximum pressure LP bar 30 Oil loyel4 PDE 170 cSt 1 Oil loyel5 Standard; replaceable Crankase heater Standard; integrate Oil level sight glass St	<u> </u>		125
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 and 460V/60Hz. PWS motor with DOL connection A \$30 LRA, maximum starting current at 400V/50Hz and 460V/60Hz, PWS motor with DOL connection A 838 Max power consumption Hz 30 Frequency min Hz 30 Frequency max[3] Hz 70 Protection device INF69 FRYL Diagnose Enclosure class IP65 Maximum pressure LP bar 30 Maximum pressure LP bar 30 Oil type[4] POE 170 cSt Oil type[4] POE 170 cSt Oil evel sjith glass 2 Oil water cooling Standard Integrated check valve Standard Maximum oil temperature sensor Standard <			95
Motor voltage at 60 Hz[2]		V/ph/Hz	400 (+/-10%) V/3/50Hz PWS
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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 19 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 815 Length mm 1533 Max Width mm 588 Maximum height mm 764 Sound power level (5/50, R407A)[5] dB(A) 90.1 Sound	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 19 Oil filter Standard; replaceable Crankcase heater Standard; integrate Oil water cooling Standard Integrated check valve Standard Maximum oil temperature sensor Standard Suction plug (SL) mm m 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 815 Length mm 1533 Max Width mm 588 Maximum height mm 764 Sound power level (5/50, R407A)[5] dB(A) 90.1 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 82.1	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 19 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 815 Length mm 1533 Max Width mm 588 Maximum height mm 764 Sound power level (5/50, R407A)[5] dB(A) 90.1 Sound pressure level @ 1m (5/50, R407A)[5] dB(B(A) 82.1	Protection device		INT69 FRYL Diagnose
Maximum pressure LP bar 20.5 Oil type[4] POE 170 cSt Oil charge I 19 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 815 Length mm 1533 Max Width mm 588 Maximum height mm 764 Sound power level (5/50, R407A)[5] dB(A) 90.1 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 82.1	Enclosure class		IP65
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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 815 Length mm 1533 Max Width mm 588 Maximum height mm 764 Sound power level (5/50, R407A)[5] dB(A) 90.1 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 82.1	Oil type[4]		POE 170 cSt
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 815 Length mm 1533 Max Width mm 588 Maximum height mm 764 Sound power level (5/50, R407A)[5] dB(A) 90.1 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 82.1	Oil charge	1	19
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 815 Length mm 1533 Max Width mm 588 Maximum height mm 764 Sound power level (5/50, R407A)[5] dB(A) 90.1 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 82.1	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 815 Length mm 1533 Max Width mm 588 Maximum height mm 764 Sound power level (5/50, R407A)[5] dB(A) 90.1 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 82.1	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 815 Length mm 1533 Max Width mm 588 Maximum height mm 764 Sound power level (5/50, R407A)[5] dB(A) 90.1 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 82.1	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 815 Length mm 1533 Max Width mm 588 Maximum height mm 764 Sound power level (5/50, R407A)[5] dB(A) 90.1 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 82.1	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 815 Length mm 1533 Max Width mm 588 Maximum height mm 764 Sound power level (5/50, R407A)[5] dB(A) 90.1 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 82.1	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 815 Length mm 1533 Max Width mm 588 Maximum height mm 764 Sound power level (5/50, R407A)[5] dB(A) 90.1 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 82.1	Maximum oil temperature sensor		Standard
Discharge valve (DV) mm mm 79.4 Discharge valve DV inch inch 3" 1/8 Net weight kg 815 Length mm 1533 Max Width mm 588 Maximum height mm 764 Sound power level (5/50, R407A)[5] dB(A) 90.1 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 82.1	Suction plug (SL) mm	mm	104
Discharge valve DV inch inch 3" 1/8 Net weight kg 815 Length mm 1533 Max Width mm 588 Maximum height mm 764 Sound power level (5/50, R407A)[5] dB(A) 90.1 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 82.1	Suction plug (SL) inch	inch	4" 1/8
Net weight kg 815 Length mm 1533 Max Width mm 588 Maximum height mm 764 Sound power level (5/50, R407A)[5] dB(A) 90.1 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 82.1	Discharge valve (DV) mm	mm	79.4
Length mm 1533 Max Width mm 588 Maximum height mm 764 Sound power level (5/50, R407A)[5] dB(A) 90.1 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 82.1	Discharge valve DV inch	inch	3" 1/8
Max Width mm 588 Maximum height mm 764 Sound power level (5/50, R407A)[5] dB(A) 90.1 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 82.1	Net weight	kg	815
Maximum height mm 764 Sound power level (5/50, R407A)[5] dB(A) 90.1 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 82.1	Length	mm	1533
Sound power level (5/50, R407A)[5] dB(A) 90.1 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 82.1	Max Width	mm	588
Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 82.1	Maximum height	mm	764
	Sound power level (5/50, R407A)[5]	dB(A)	90.1
Compressor body material Cast Iron	Sound pressure level @ 1m (5/50, R407A)[5]	dB(A)	82.1
	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



CXH52-125-372Y

Data sheets

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

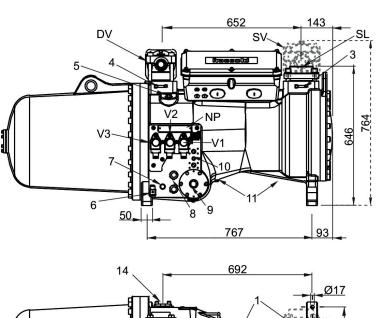
Accessories:	
DOL bridge bars	T00WK1200
Suction valve	T00SK103920B
Optoelectronic oil level switch	T00WP253
Filter clogging switch	T00W3501122
Motor cooling by means of suction gas	T00WK1400
Valve+muffler for ECO/liquid injection	T00WK1500
Rubber vibration absorber kit	T00SK205200
Oil separator	See if You need and the selection on FSS
Nipples for oil cooler connection	T00WK1450

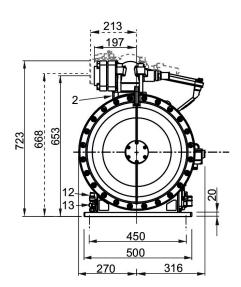


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Data sheets

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





14		Ø17
-	1533	

Dir	Dimensional 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	-