

CXW52-110-428Y

Data sheets

Semi-hermetic compact compressors > CXW series - Vi 2.3 low compression ratio / for HFC - HCFC - HFO

Rotors	Technical data:				
Displacement @ 60 Hz m3/h [60Hz] 514 Compressor version[1] 2 Motor power (HP) 110 Motor power (KW) 85 Motor voltage at 60 Hz[2] V/ph/Hz 400 (H-10%) V/3/60Hz PWS Motor voltage at 60 Hz[2] V/ph/Hz 460 (H-10%) V/3/60Hz PWS Motor voltage at 60 Hz[2] V/ph/Hz 460 (H-10%) V/3/60Hz PWS PWS partition 50-50 50-50 Capacity control (CC) steples % 100-75-69-25 Capacity control (CC) steples A	Rotors	#	2		
Displacement @ 60 Hz m3/h [60Hz] 514 Compressor version[1] 2 Motor power (HP) 110 Motor power (KW) 85 Motor voltage at 60 Hz[2] V/ph/Hz 400 (H-10%) V/3/60Hz PWS Motor voltage at 60 Hz[2] V/ph/Hz 460 (H-10%) V/3/60Hz PWS Motor voltage at 60 Hz[2] V/ph/Hz 460 (H-10%) V/3/60Hz PWS PWS partition 50-50 50-50 Capacity control (CC) steples % 100-75-69-25 Capacity control (CC) steples A	Displacement @ 50 Hz	m3/h [50Hz]	428		
Compressor version[1] 2 Motor power (HP) 110 Motor power (kW) 85 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 % 100-50 MRA, maximum operating current at 400V/50Hz and 4A A 184 LPA, maximum starting current at 400V/50Hz and 4A A 434 LPA, maximum starting current at 400V/50Hz and 4A A 434 LPA, maximum starting current at 400V/50Hz and 4A A 184 LPA, maximum starting current at 400V/50Hz and 4A A 184 LPA, maximum starting current at 400V/50Hz and 4A A 20 Max power consumption RW (@ 50Hz) 117.7 Frequency min Hz 30 Frequency max[3] Hz 70 Protection device INT69 FRYL Diagnose Enclosure class POE 170 cSt			514		
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Motor power (kW) 85 Motor voltage at 50 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 460V/60Hz % 100-50 LEA, maximum starting current at 400V/50Hz and 460V/60Hz, PWS motor with DOL connection A 434 LEA, maximum starting current at 400V/50Hz and 460V/60Hz, PWS motor with DOL connection kW (@ 50Hz) 117.7 Max power consumption kW (@ 50Hz) 117.7 Frequency max[3] Hz 30 Frequency max[4] Hz 30 Protection device INT69 FRYL Diagnose Enclosure class INF65 10 Maximum pressure LP bar 30 Maximum pressure LP bar 30 Oil ibarge I 19 Oil ifliter Standard; replaceable Crankase heater Standard	<u> </u>		110		
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Capacity control (CC) stepless % 100-50 MRA, maximum operating current at 400V/50Hz and 460V/60Hz. A 184 460V/60Hz. A 434 LRA, maximum starting current at 400V/50Hz and 460V/60Hz. PWS motor A 434 LRA, maximum starting current at 400V/50Hz and 460V/60Hz. PWS motor with DOL connection A 720 Max power consumption kW (@ 50Hz) 117.7 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 tharge I POE 170 cst Oil tharge I POE 170 cst Oil there is sight glass 2 2 Crankcase heater Standard; integrate Oil evel sight glass 2 2 Oil water cooling Standard Integrated check valve Standard Maximum oil temperature sensor Standard <		%	100-75-50-25		
MRA, maximum operating current at 400V/50Hz and 460V/50Hz. A 184 LRA, maximum starting current at 400V/50Hz and 460V/50Hz. PWS motor A 434 LRA, maximum starting current at 400V/50Hz and 460V/50Hz. PWS motor with DOL connection A 720 Max power consumption kW @ 50Hz] 117.7 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] \$tandard; replaceable Crankcase heater \$tandard; replaceable Oil level sight, glass 2 Oil level sight, glass 2 Oil vater cooling \$tandard; integrate Integrated check valve Standard Maximum oil temperature sensor \$tandard Suction plug (SL) mm mm 104 Suction plug (SL) inch inch 4" 1/8 Discharge valve (DV) mm mm		%	100-50		
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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 DN80 Discharge valve DV inch inch DN80 Net weight kg 805 Length mm 1533 Max Width mm 588 Maximum height mm 764 Sound power level (5/50, R407A)[5] dB(A) 90.9 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 82.9	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 DN80 Discharge valve DV inch inch DN80 Net weight kg 805 Length mm 1533 Max Width mm 588 Maximum height mm 764 Sound power level (5/50, R407A)[5] dB(A) 90.9 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 82.9	Enclosure class		IP65		
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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 DN80 Discharge valve DV inch inch DN80 Net weight kg 805 Length mm 1533 Max Width mm 588 Maximum height mm 764 Sound power level (5/50, R407A)[5] dB(A) 90.9 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 82.9	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 DN80 Discharge valve DV inch inch DN80 Net weight kg 805 Length mm 1533 Max Width mm 588 Maximum height mm 764 Sound power level (5/50, R407A)[5] dB(A) 90.9 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 82.9	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 DN80 Discharge valve DV inch inch DN80 Net weight kg 805 Length mm 1533 Max Width mm 588 Maximum height mm 764 Sound power level (5/50, R407A)[5] dB(A) 90.9 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 82.9	Oil level sight glass		2		
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Suction plug (SL) mm mm 104 Suction plug (SL) inch inch 4" 1/8 Discharge valve (DV) mm mm DN80 Discharge valve DV inch inch DN80 Net weight kg 805 Length mm 1533 Max Width mm 588 Maximum height mm 764 Sound power level (5/50, R407A)[5] dB(A) 90.9 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 82.9	Integrated check valve		Standard		
Suction plug (SL) inch inch 4" 1/8 Discharge valve (DV) mm mm DN80 Discharge valve DV inch inch DN80 Net weight kg 805 Length mm 1533 Max Width mm 588 Maximum height mm 764 Sound power level (5/50, R407A)[5] dB(A) 90.9 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 82.9	Maximum oil temperature sensor		Standard		
Discharge valve (DV) mm mm DN80 Discharge valve DV inch inch DN80 Net weight kg 805 Length mm 1533 Max Width mm 588 Maximum height mm 764 Sound power level (5/50, R407A)[5] dB(A) 90.9 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 82.9	Suction plug (SL) mm	mm	104		
Discharge valve DV inch inch DN80 Net weight kg 805 Length mm 1533 Max Width mm 588 Maximum height mm 764 Sound power level (5/50, R407A)[5] dB(A) 90.9 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 82.9	Suction plug (SL) inch	inch	4" 1/8		
Net weight kg 805 Length mm 1533 Max Width mm 588 Maximum height mm 764 Sound power level (5/50, R407A)[5] dB(A) 90.9 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 82.9	Discharge valve (DV) mm	mm	DN80		
Length mm 1533 Max Width mm 588 Maximum height mm 764 Sound power level (5/50, R407A)[5] dB(A) 90.9 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 82.9	Discharge valve DV inch	inch	DN80		
Max Width mm 588 Maximum height mm 764 Sound power level (5/50, R407A)[5] dB(A) 90.9 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 82.9	Net weight	kg	805		
Maximum height mm 764 Sound power level (5/50, R407A)[5] dB(A) 90.9 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 82.9	Length	mm	1533		
Sound power level (5/50, R407A)[5] dB(A) 90.9 Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 82.9	Max Width	mm	588		
Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 82.9	Maximum height	mm	764		
	Sound power level (5/50, R407A)[5]	dB(A)	90.9		
Compressor body material Cast Iron	Sound pressure level @ 1m (5/50, R407A)[5]	dB(A)	82.9		
	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



CXW52-110-428Y

Data sheets

Semi-hermetic compact compressors > CXW series - Vi 2.3 low compression ratio / for HFC - HCFC - HFO

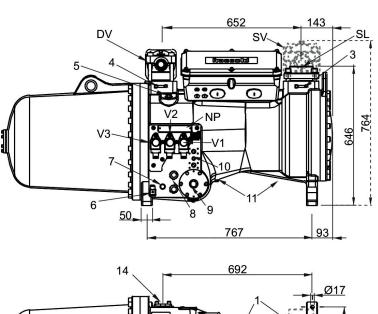
Accessories:	
DOL bridge bars	T00WK1200
Suction valve	T00SK103920B
Optoelectronic oil level switch	T00WP253
Filter clogging switch	T00W3501122
Motor cooling by means of suction gas	T00WK1400
Valve+muffler for ECO/liquid injection	T00WK1500
Rubber vibration absorber kit	T00SK205200
Oil separator	See if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

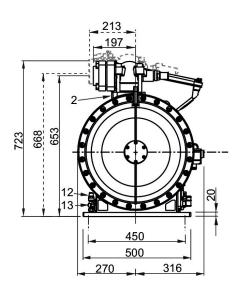


CXW52-110-428Y

Data sheets

Semi-hermetic compact compressors > CXW series - Vi 2.3 low compression ratio / for HFC - HCFC - HFO





	1523	692 Ø17
4	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	-
DV	Discharge valve	79.4mm - 3"1/8
NP	Name plate	-