

### CXW92-210-810Y

#### **Data sheets**

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

Rotors	Technical data:		
Displacement @ 60 Hz	Rotors	#	2
Compressor version[1]	Displacement @ 50 Hz	m3/h [50Hz]	810
Motor power (HP)	Displacement @ 60 Hz	m3/h [60Hz]	972
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           MFA, maximum operating current at 400V/50Hz and 460V/60Hz         A         356           LRA, maximum starting current at 230V/50Hz and 280V/50Hz and 460V/60Hz, SDS motor         A         586           LRA, maximum starting current at 400V/50Hz and 460V/60Hz, SDS motor with DOL connection         A         1853           Max power consumption         kW @ 50Hz          228.6           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 tharge         I         26           Oil filter         Standard; integrate           Oil clarge         I         26           Oil filter standard; integrate         Standard           Oil evel sight glass         2           Oil wa	Motor power (HP)		210
Motor voltage at 60 Hz 2	Motor power (kW)		157
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         356           460V/60Hz         SDS motor         A         586           280V/60Hz, SDS motor with DOL connection         A         1853           460V/60Hz, SDS motor with DOL connection         KW [@ 50Hz]         228.6           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         Standard           Oil evel sight glass         2         2           Oil water cooling         Standard         Standard           Integrated check valve         Standard           Suction plug (SL) inch         inch         DN125           Suction plug (SL) i	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         356           LRA, maximum starting current at 230V/50Hz and 280V/60Hz.         A         586           LRA, maximum starting current at 400V/50Hz and 460V/60Hz.         A         1853           460V/60Hz.         SDS motor with DOL connection         A         1853           Max power consumption         kW (@ 50Hz)         228.6           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 filter         Standard; replaceable           Crankcase heater         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) imch <td< td=""><td>Motor voltage at 60 Hz[2]</td><td>V/ph/Hz</td><td>460 (+/-10%) V/3/60Hz SDS</td></td<>	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         356           LRA, maximum starting current at 230V/50Hz and 280V/60Hz. SDS motor         A         586           LRA, maximum starting current at 400V/50Hz and 460V/60Hz. SDS motor with DOL connection         A         1853           Max power consumption         kW (@ 50Hz)         228.6           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 cooling         Standard; integrate           Oil water cooling         Standard           Integrated check valve         Standard           Maximum oil temperature sensor         Standard           Suction plug (SL) inch         inch         DN125           Discharge valve DV inch         inch	Capacity control (CC) step	%	100-75-50-25
A   S50	Capacity control (CC) stepless	%	100-50
280V/60Hz , SDS motor	460V/60Hz	А	356
460V/60Hz, SDS motor with DOL connection         A         1693           Max power consumption         kW [@ 50Hz]         228.6           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         DN125           Suction plug (SL) inch         inch         DN125           Discharge valve (DV) mm         mm         104           Discharge valve (DV) mm         mm         104           Discharge valve DV inch         inch         4" 1/8           Net weight         kg         1390 <td>280V/60Hz , SDS motor</td> <td>А</td> <td>586</td>	280V/60Hz , SDS motor	А	586
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 evel sight glass         2           Oil water cooling         Standard           Integrated check valve         Standard           Maximum oil temperature sensor         Standard           Suction plug (SL) mm         mm         DN125           Suction plug (SL) inch         inch         DN125           Discharge valve (DV) mm         mm         104           Discharge valve (DV) mm         mm         104           Discharge valve DV inch         inch         4" 1/8           Net weight         kg         1390           Length         mm         693           Max Width         mm         693           Maximum height         mm		А	1853
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         DN125           Suction plug (SL) inch         inch         DN125           Discharge valve (DV) mm         mm         104           Discharge valve DV inch         inch         4" 1/8           Net weight         kg         1390           Length         mm         1845           Max Width         mm         693           Maximum height         mm         877           Sound power level (5/50, R407A)[5]         dB(A)         93.2           Sound pressure	Max power consumption	kW [@ 50Hz]	228.6
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         DN125           Suction plug (SL) inch         inch         DN125           Discharge valve (DV) mm         mm         104           Discharge valve DV inch         inch         4" 1/8           Net weight         kg         1390           Length         mm         693           Maximum height         mm         877           Sound power level (5/50, R407A)[5]         dB(A)         93.2           Sound pressure level @ 1m (5/50, R407A)[5]         dB(A)         85.2	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         DN125           Suction plug (SL) inch         inch         DN125           Discharge valve (DV) mm         mm         104           Discharge valve DV inch         inch         4" 1/8           Net weight         kg         1390           Length         mm         1845           Max Width         mm         693           Maximum height         mm         877           Sound power level (5/50, R407A)[5]         dB(A)         93.2           Sound pressure level @ 1m (5/50, R407A)[5]         dB(A)         85.2	Protection device		INT69 FRYL Diagnose
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         DN125           Suction plug (SL) inch         inch         DN125           Discharge valve (DV) mm         mm         104           Discharge valve DV inch         inch         4" 1/8           Net weight         kg         1390           Length         mm         693           Maximum height         mm         877           Sound power level (5/50, R407A)[5]         dB(A)         93.2           Sound pressure level @ 1m (5/50, R407A)[5]         dB(A)         85.2	Enclosure class		IP65
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         DN125           Suction plug (SL) inch         inch         DN125           Discharge valve (DV) mm         mm         104           Discharge valve DV inch         inch         4" 1/8           Net weight         kg         1390           Length         mm         1845           Max Width         mm         693           Maximum height         mm         877           Sound power level (5/50, R407A)[5]         dB(A)         93.2           Sound pressure level @ 1m (5/50, R407A)[5]         dB(A)         85.2	Maximum pressure HP	bar	30
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         DN125           Suction plug (SL) inch         inch         DN125           Discharge valve (DV) mm         mm         104           Discharge valve DV inch         inch         4" 1/8           Net weight         kg         1390           Length         mm         1845           Max Width         mm         693           Maximum height         mm         877           Sound power level (5/50, R407A)[5]         dB(A)         93.2           Sound pressure level @ 1m (5/50, R407A)[5]         dB(A)         85.2	Maximum pressure LP	bar	20.5
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         DN125           Suction plug (SL) inch         inch         DN125           Discharge valve (DV) mm         mm         104           Discharge valve DV inch         inch         4" 1/8           Net weight         kg         1390           Length         mm         1845           Max Width         mm         693           Maximum height         mm         877           Sound power level (5/50, R407A)[5]         dB(A)         93.2           Sound pressure level @ 1m (5/50, R407A)[5]         dB(A)         85.2	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         DN125           Suction plug (SL) inch         inch         DN125           Discharge valve (DV) mm         mm         104           Discharge valve DV inch         inch         4" 1/8           Net weight         kg         1390           Length         mm         1845           Max Width         mm         693           Maximum height         mm         877           Sound power level (5/50, R407A)[5]         dB(A)         93.2           Sound pressure level @ 1m (5/50, R407A)[5]         dB(A)         85.2	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         DN125           Suction plug (SL) inch         inch         DN125           Discharge valve (DV) mm         mm         104           Discharge valve DV inch         inch         4" 1/8           Net weight         kg         1390           Length         mm         1845           Max Width         mm         693           Maximum height         mm         877           Sound power level (5/50, R407A)[5]         dB(A)         93.2           Sound pressure level @ 1m (5/50, R407A)[5]         dB(A)         85.2	Oil filter		Standard; replaceable
Oil water cooling         Standard           Integrated check valve         Standard           Maximum oil temperature sensor         Standard           Suction plug (SL) mm         mm         DN125           Suction plug (SL) inch         inch         DN125           Discharge valve (DV) mm         mm         104           Discharge valve DV inch         inch         4" 1/8           Net weight         kg         1390           Length         mm         1845           Max Width         mm         693           Maximum height         mm         877           Sound power level (5/50, R407A)[5]         dB(A)         93.2           Sound pressure level @ 1m (5/50, R407A)[5]         dB(A)         85.2	Crankcase heater		Standard; integrate
Integrated check valve         Standard           Maximum oil temperature sensor         Standard           Suction plug (SL) mm         mm         DN125           Suction plug (SL) inch         inch         DN125           Discharge valve (DV) mm         mm         104           Discharge valve DV inch         inch         4" 1/8           Net weight         kg         1390           Length         mm         1845           Max Width         mm         693           Maximum height         mm         877           Sound power level (5/50, R407A)[5]         dB(A)         93.2           Sound pressure level @ 1m (5/50, R407A)[5]         dB(A)         85.2	Oil level sight glass		2
Maximum oil temperature sensor         Standard           Suction plug (SL) mm         mm         DN125           Suction plug (SL) inch         inch         DN125           Discharge valve (DV) mm         mm         104           Discharge valve DV inch         inch         4" 1/8           Net weight         kg         1390           Length         mm         1845           Max Width         mm         693           Maximum height         mm         877           Sound power level (5/50, R407A)[5]         dB(A)         93.2           Sound pressure level @ 1m (5/50, R407A)[5]         dB(A)         85.2	Oil water cooling		Standard
Suction plug (SL) mm         mm         DN125           Suction plug (SL) inch         inch         DN125           Discharge valve (DV) mm         mm         104           Discharge valve DV inch         inch         4" 1/8           Net weight         kg         1390           Length         mm         1845           Max Width         mm         693           Maximum height         mm         877           Sound power level (5/50, R407A)[5]         dB(A)         93.2           Sound pressure level @ 1m (5/50, R407A)[5]         dB(A)         85.2	Integrated check valve		Standard
Suction plug (SL) inch         inch         DN125           Discharge valve (DV) mm         mm         104           Discharge valve DV inch         inch         4" 1/8           Net weight         kg         1390           Length         mm         1845           Max Width         mm         693           Maximum height         mm         877           Sound power level (5/50, R407A)[5]         dB(A)         93.2           Sound pressure level @ 1m (5/50, R407A)[5]         dB(A)         85.2	Maximum oil temperature sensor		Standard
Discharge valve (DV) mm         mm         104           Discharge valve DV inch         inch         4" 1/8           Net weight         kg         1390           Length         mm         1845           Max Width         mm         693           Maximum height         mm         877           Sound power level (5/50, R407A)[5]         dB(A)         93.2           Sound pressure level @ 1m (5/50, R407A)[5]         dB(A)         85.2	Suction plug (SL) mm	mm	DN125
Discharge valve DV inch         inch         4" 1/8           Net weight         kg         1390           Length         mm         1845           Max Width         mm         693           Maximum height         mm         877           Sound power level (5/50, R407A)[5]         dB(A)         93.2           Sound pressure level @ 1m (5/50, R407A)[5]         dB(A)         85.2	Suction plug (SL) inch	inch	DN125
Net weight         kg         1390           Length         mm         1845           Max Width         mm         693           Maximum height         mm         877           Sound power level (5/50, R407A)[5]         dB(A)         93.2           Sound pressure level @ 1m (5/50, R407A)[5]         dB(A)         85.2	Discharge valve (DV) mm	mm	104
Length         mm         1845           Max Width         mm         693           Maximum height         mm         877           Sound power level (5/50, R407A)[5]         dB(A)         93.2           Sound pressure level @ 1m (5/50, R407A)[5]         dB(A)         85.2	Discharge valve DV inch	inch	4" 1/8
Max Width         mm         693           Maximum height         mm         877           Sound power level (5/50, R407A)[5]         dB(A)         93.2           Sound pressure level @ 1m (5/50, R407A)[5]         dB(A)         85.2	Net weight	kg	1390
Maximum height         mm         877           Sound power level (5/50, R407A)[5]         dB(A)         93.2           Sound pressure level @ 1m (5/50, R407A)[5]         dB(A)         85.2	Length	mm	1845
Sound power level (5/50, R407A)[5]       dB(A)       93.2         Sound pressure level @ 1m (5/50, R407A)[5]       dB(A)       85.2	Max Width	mm	693
Sound pressure level @ 1m (5/50, R407A)[5] dB(A) 85.2	Maximum height	mm	877
	Sound power level (5/50, R407A)[5]	dB(A)	93.2
Compressor body material Cast Iron	Sound pressure level @ 1m (5/50, R407A)[5]	dB(A)	85.2
	Compressor body material		Cast Iron

<sup>[1]</sup> 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



# CXW92-210-810Y

#### **Data sheets**

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

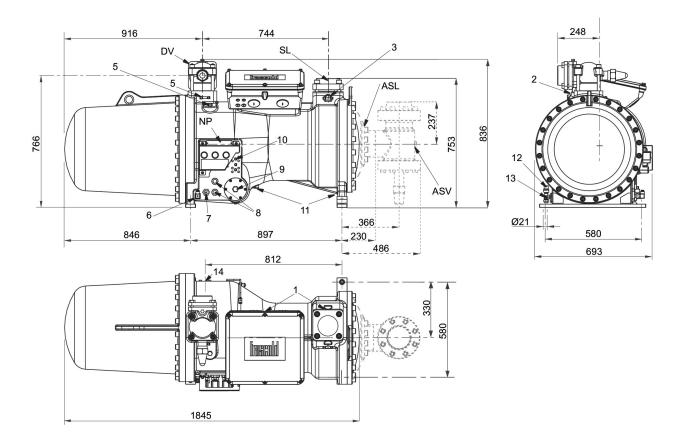
T00WK1200	
T00WP253	
T00W3501122	
T00WK1400	
T00WK1520	
T00SK205201	
See if You need and the selection on FSS	
T00WK1450	



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#### **Data sheets**

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



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	DN125
SL Suction plug	-
DV Discharge valve	104mm - 4"1/8
NP Name plate	-