

### CXW01-70-298Y

#### **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]	298	
Motor power (HP)   70   52   Motor power (kW)   52   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   Motor voltage at 60 Hz[2]   V/ph/Hz   460 (+/-10%) V/3/50Hz PWS   Motor voltage at 60 Hz[2]   V/ph/Hz   460 (+/-10%) V/3/50Hz PWS   Motor voltage at 60 Hz[2]   V/ph/Hz   460 (+/-10%) V/3/50Hz PWS   Motor voltage at 60 Hz[2]   V/ph/Hz   460 (+/-10%) V/3/50Hz PWS   Motor Voltage at 60 Hz[2]   V/ph/Hz   460 (+/-10%) V/3/50Hz PWS   Motor Voltage at 60 Hz[2]   V/ph/Hz   460 (+/-10%) V/3/50Hz PWS   Motor Voltage at 400 V/50Hz and 460 V/50Hz   A 298   Motor Voltage at 460 V/50Hz   A 298   Motor Voltage at 460 V/50Hz   Motor Voltage at 460 V	Displacement @ 60 Hz	m3/h [60Hz]	358	
Motor power (kW)         52           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           Motor voltage at 60 Hz[2]         V/ph/Hz         460 (+/-10%) V/3/60Hz 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 460V/50Hz And 460V	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         125           LRA, maximum starting current at 400V/50Hz and 460V/60Hz. PWS motor with DOL connection         A         298           LRA, maximum starting current at 400V/50Hz and 460V/60Hz. PWS motor with DOL connection         A         518           Max power consumption         kW (@ 50Hz)         65.9           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 tharge         I         11           Oil water cooling         Standard; replaceable           Crankcase heater         Standard           Oil levels ight g	Motor power (HP)		70	
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         125           LRA, maximum starting current at 400V/50Hz and 460V/60Hz. PWS motor         A         298           LRA, maximum starting current at 400V/50Hz and 460V/60Hz. PWS motor with DOL connection         A         518           MAX power consumption         kW (@ 50Hz)         65-9           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           Oil evel sight glass         1           Oil evel sight glass         1           Oil evel sight glass         1           Oil evel sight (s) inch	Motor power (kW)		52	
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         125           460V/60Hz, PWS motor with 00V/50Hz and 460V/60Hz, PWS motor with DOL connection         A         298           LRA, maximum starting current at 400V/50Hz and 460V/60Hz, PWS motor with DOL connection         A         518           Max power consumption         kW [@ 50Hz]         65.9           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; replaceable           Oil evel sight glass         1           Oil water cooling         Standard           Integrated check valve         Standard           Maximum oil temperature sensor         Standard           Suction plug (SL)	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         125           460V/60Hz.         A         298           LRA, maximum starting current at 400V/50Hz and 460V/60Hz. PWS motor         A         298           LRA, maximum starting current at 400V/50Hz and 460V/60Hz. PWS motor with DOL connection         A         518           Max power consumption         kW [@ 50Hz]         65.9           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; integrate           Oil level sight glass         1         1           Oil water cooling         Standard           Integrated check valve         Standard           Maximum oil temperature sensor         Standard           Suction plug (SL) imch         <	PWS partition		50-50	
MRA, maximum operating current at 400V/50Hz and 460V/60Hz.         A         125           LRA, maximum starting current at 400V/50Hz and 460V/60Hz, PWS motor         A         298           LRA, maximum starting current at 400V/50Hz and 460V/60Hz, PWS motor with DOL connection         A         518           LRA, maximum starting current at 400V/50Hz and 460V/60Hz, PWS motor with DOL connection         A         518           Max power consumption         kW @ 50Hz]         65.9           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; integrate           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         54	Capacity control (CC) step	%	100-75-50-25	
A   125	Capacity control (CC) stepless	%	100-50	
A60V/60Hz, PWS motor	460V/60Hz	А	125	
460V/60Hz, PWS motor with DOL connection         A         518           Max power consumption         kW [@ 50Hz]         65.9           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; integrate           Oil evel sight glass         1         1           Standard; integrated sight glass         1	460V/60Hz, PWS motor	Α	298	
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 cast           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         540           Length         mm         1393           Max Width         mm         624           Sound pow		Α	518	
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 evel sight glass         1           Oil water cooling         Standard           Integrated check valve         Standard           Maximum oil temperature sensor         Standard           Suction plug (SL) inch         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         540           Length         mm         1393           Max Width         mm         624           Sound power level (5/50, R134a)[5][5]         dB(A)         77.8	Max power consumption	kW [@ 50Hz]	65.9	
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         540           Length         mm         1393           Max Width         mm         624           Sound power level (5/50, R134a)[5][5]         dB(A)         77.8	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         540           Length         mm         1393           Max Width         mm         624           Sound power level (5/50, R134a)[5][5]         dB(A)         77.8	Frequency max[3]	Hz	70	
Maximum pressure LP         bar         30           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         540           Length         mm         1393           Max Width         mm         560           Maximum height         mm         624           Sound power level (5/50, R134a)[5][5]         dB(A)         77.8	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         540           Length         mm         1393           Max Wridth         mm         560           Maximum height         mm         624           Sound power level (5/50, R134a)[5][5]         dB(A)         77.8	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         540           Length         mm         1393           Max Width         mm         560           Maximum height         mm         624           Sound power level (5/50, R134a)[5][5]         dB(A)         77.8	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         540           Length         mm         1393           Max Width         mm         560           Maximum height         mm         624           Sound power level (5/50, R134a)[5][5]         dB(A)         77.8	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         540           Length         mm         1393           Max Width         mm         560           Maximum height         mm         624           Sound power level (5/50, R134a)[5][5]         dB(A)         77.8	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         540           Length         mm         1393           Max Width         mm         560           Maximum height         mm         624           Sound power level (5/50, R134a)[5][5]         dB(A)         77.8	Oil charge	I	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         540           Length         mm         1393           Max Width         mm         560           Maximum height         mm         624           Sound power level (5/50, R134a)[5][5]         dB(A)         77.8	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         540           Length         mm         1393           Max Width         mm         560           Maximum height         mm         624           Sound power level (5/50, R134a)[5][5]         dB(A)         77.8	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         540           Length         mm         1393           Max Width         mm         560           Maximum height         mm         624           Sound power level (5/50, R134a)[5][5]         dB(A)         77.8	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         540           Length         mm         1393           Max Width         mm         560           Maximum height         mm         624           Sound power level (5/50, R134a)[5][5]         dB(A)         77.8	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         540           Length         mm         1393           Max Width         mm         560           Maximum height         mm         624           Sound power level (5/50, R134a)[5][5]         dB(A)         77.8	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         540           Length         mm         1393           Max Width         mm         560           Maximum height         mm         624           Sound power level (5/50, R134a)[5][5]         dB(A)         77.8	Maximum oil temperature sensor		Standard	
Discharge valve (DV) mm         mm         54           Discharge valve DV inch         inch         2" 1/8           Net weight         kg         540           Length         mm         1393           Max Width         mm         560           Maximum height         mm         624           Sound power level (5/50, R134a)[5][5]         dB(A)         77.8	Suction plug (SL) mm	mm	79.4	
Discharge valve DV inch         inch         2" 1/8           Net weight         kg         540           Length         mm         1393           Max Width         mm         560           Maximum height         mm         624           Sound power level (5/50, R134a)[5][5]         dB(A)         77.8	Suction plug (SL) inch	inch	3" 1/8	
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Length         mm         1393           Max Width         mm         560           Maximum height         mm         624           Sound power level (5/50, R134a)[5][5]         dB(A)         77.8	Discharge valve DV inch	inch	2" 1/8	
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Maximum height         mm         624           Sound power level (5/50, R134a)[5][5]         dB(A)         77.8	Length	mm	1393	
Sound power level (5/50, R134a)[5][5] dB(A) 77.8	Max Width	mm	560	
	Maximum height	mm	624	
Compressor body material Cast Iron	Sound power level (5/50, R134a)[5][5]	dB(A)	77.8	
	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



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

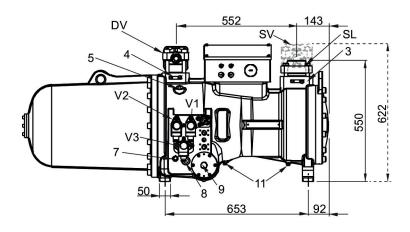
Accessories:	
DOL bridge bars	T00WK1200
Suction valve	T00SK103900B
Optoelectronic oil level switch	T00WP253
Filter clogging switch	T00W3501122
Motor cooling by means of suction gas	T00WK1400
Valve+muffler for ECO/liquid injection	T00WK1500
Rubber vibration absorber kit	T00SK205200
Oil separator	See if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

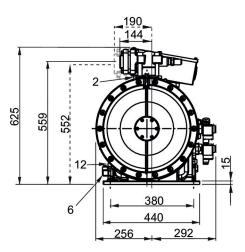


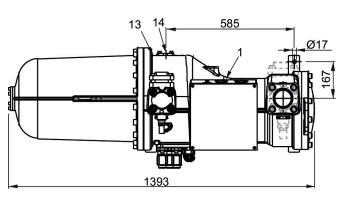
# CXW01-70-298Y

#### **Data sheets**

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







Dir	mensional 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	79.4mm - 3"1/8
SL Suction plug	-
DV Discharge valve	54mm - 2"1/8
NP Name plate	-