CHAMPION

BIG ON QUALITY. CHAMPION ON PRICE!

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2.2 - 132kW

- Oil flooded
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- Pressure range 5 - 13 bar
- Electric motor 2.2kW to 132kW - IE3
- Modular design including receivers and dryers
- C-PRO 1.0+, C-PRO 2.0 & Pilot TS
- Extended warranties available


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SMART COMPRESSOR DESIGN

At a glance…

Nominal Pressure
10 bar g

Motor Power
2.2 - 7.5kW

Volume Flow
0.18 - 0.9 m^3/min

FM Series

Well known in the industry for quality and reliability, Champion continuously develops the FM Series to achieve cutting edge performance and efficiency.

The FM02-FM06 range of lubricated screw compressors comprises of many different models and versions to allow maximum flexibility.

Engineering excellence

Compressors are more than just a financial investment, they are a key component in ensuring that manufacturers, processors and operators receive consistent, high quality low cost air. The screw compression element is the heart of the compressor and therefore Champion keeps the design and manufacture in-house, using the latest CNC rotor grinding machinery, coupled with online laser technology.

The resulting reliability and performance ensure that operating costs will remain low throughout the compressor's life.

Engineered for total piece of mind

Thanks to the user-friendly design, these compressors are easy to use, easy to install and fully ready for plug and play. Designed with a minimum number of moving parts, the compressors are very reliable, robust and capable to run continuously. The new canopy design of the compressors guarantees a quick and easy maintenance, minimising the downtime and maximising the reliability.

Maximum flexibility

Based on the individual customer requirements the compressors can be combined with different options to provide everything from a stand alone compressor to the complete airstation.

The options include:

Compressor base mounted

Receiver mounted compressor

Complete airstation including compressor, dryer and receiver

New C-Pro1.0+
User-friendly control system

The new compressor controller C-Pro1.0+ is equipped as standard for all models and provides information about pressure, oil temperature and compressor status (load/unload) together in one display and offers many useful features, such as:

- Communication port RS485 supporting Modbus
- Integrated sequencer for easy control for 2 compressors
- Plastic box for higher IP protection degree
- Auto restart after black-out
- Password protection
- Air and oil filter replacement
- Separator filter replacement and oil change
- Pressure setting easily adjustable
- Unload timer for both DOL & SDS

Optional equipment

- Receivers available at 270lt and 500lt for FM04-FM06
- Prefilter and microfilter combination
- Timed or float drains for receiver mounted units and airstation

FM SERIES

flexiDry

Compact & Flexible

Reliable electric motor

IP55, F-class insulation, IE3 class

Safety devices for

- Motor over temperature
- Compressor over temperature
- Airend rotation

Receiver mounted

High quality receiver built to EN87/404 (AD2000)

Airstation

Equipped with high performance dryer featuring intelligent control system for low pressure losses.

- Pressure dew point +3°C (ISO 7183, A)
- Environmentally friendly refrigerant R134a
- Digital controller displaying:
  - Dew point indication
  - Additional energy saving mode
  - Maintenance display
  - Fault memory

Small footprint

The compressor itself requires a minimum floor space of only 62 x 60 cm, with the receiver mounted models being exceptionally space-saving.

4 - 7.5kW extended features

- Star Delta starter is included as standard from 4 up to 7.5kW
- 5.5 + 7.5 kW variants have an optional after cooler available to optimise air quality and minimise the size of downstream needed

CHR series refrigeration air dryers

The advanced design and innovative technology offered by CHR Series refrigeration dryers provides an optimised performance alongside a more efficient mode of management.
The electronic controller, complete with user-friendly interface, has been simplified to focus on the essential functions of operation and regulation, including the unique fan control (CHR6 – CHR167).

Simplicity in design, unrivaled reliability, and extraordinary value for money are the core strengths of this new family of units.

Maintenance is as easy as ever

Fast and easy service

These compressors are designed to ensure easy access to maintenance points. All cabinet panels can be easily removed to allow full access to all service points. Also, the limited number of moving parts reduces service costs.

Technical data

FM 2 – 6 Series: Screw Compressors

Design: Oil flooded, single stage rotary screw compressor, belt drive, direct start or star / delta starting
Pressure Range: 10 bar
Electric motor: 2.2 to 7.5kW – IE3

FM SERIES	TYPE	FM2 230V	FM2	FM3	FM4	FM5	FM6SDS
CODE		RSCCP020601	RSCCP020602	RSCCP020603	RSCCP020604	RSCCP020605	RSCCP020608
Maximum pressure	bar	10	10	10	10	10	10
Capacity at maximum pressure	m^3/min	0.18	0.21	0.35	0.45	0.66	0.92
Drive motor IP 55 / class F – IE3	kW	2.2	2.2	3	4	5.5	7.5
Operating voltage, 50Hz, 60Hz	400V	–	•	•	•	•	•
C-Pro 1.0+ electronic controller		•	•	•	•	•	•
Noise level	dB(A)	63	63	64	67	68	70
Air cooled		•	•	•	•	•	•
Weight	kg	151	151	151	154	168	174
Dimensions [L x W x H]	mm	622 x 599 x 1106					
Outlet connection		½"	½"	½"	½"	½"	½"
Code		–	–	–	**RSCCP020606**	**RSCCP020607**	–
SDS Starter		–	–	–	•	•	–
Noise level	dB(A)	–	–	–	70	68	–
COMPRESSOR MOUNTED ON 270 LT TANK							
Code		**RSCCP020610**	**RSCCP020611**	**RSCCP020612**	**RSCCP020613**	**RSCCP020614**	–
Weight	kg	242	242	242	245	258	–
Dimensions [L x W x H]	mm	1539 x 720 x 1604					–
COMPRESSOR MOUNTED ON 270 LT TANK SDS							
Code		–	–	–	**RSCCP020615**	**RSCCP020616**	**RSCCP020617**
Weight	kg	–	–	–	245	258	264
Dimensions [L x W x H]	mm	–	–	–	1539 x 720 x 1604		
COMPRESSOR MOUNTED ON 500 LT TANK							
Code		–	–	–	**RSCCP020620**	**RSCCP020621**	–
Weight	kg	–	–	–	314	318	–
Dimensions [L x W x H]	mm	–	–	–	1885 x 720 x 1700		–
COMPRESSOR MOUNTED ON 500 LT TANK SDS	**EURO**						
Code		–	–	–	**RSCCP020622**	**RSCCP020623**	**RSCCP020624**
Weight	kg	–	–	–	314	318	334
Dimensions [L x W x H]	mm	–	–	–	1885 x 720 x 1700		
PACKAGE VERSION, FM / CT / 270	**EURO**						
Code		**RSCCP020630**	**RSCCP020631**	**RSCCP020632**	**RSCCP020633**	**RSCCP020634**	–
Weight	kg	261	261	261	270	284	–
Dimensions [L x W x H]	mm	1539 x 720 x 1604					–
PACKAGE VERSION, FM / CT / 270 / SDS	**EURO**						
Code		–	–	–	**RSCCP020635**	**RSCCP020636**	**RSCCP020637**
Weight	kg	–	–	–	270	284	290
Dimensions [L x W x H]	mm	–	–	–	1539 x 720 x 1604		
PACKAGE VERSION, FM / CT / 500	**EURO**						
Code		–	–	–	**RSCCP020640**	**RSCCP020641**	–
Weight	kg	–	–	–	339	353	–
Dimensions [L x W x H]	mm	–	–	–	1885 x 720 x 1700		–
PACKAGE VERSION, FM / CT / 500 / SDS	**EURO**						
Code		–	–	–	**RSCCP020642**	**RSCCP020643**	**RSCCP020644**
Weight	kg	–	–	–	339	353	359
Dimensions [L x W x H]	mm	–	–	–	1885 x 720 x 1700		

OPTIONAL	
Alternative Voltage 230/3/50-60Hz	CONFIG_F0_F1_230_VOLT
Alternative Voltage 380/3/60Hz	CONFIG_F0-F4_380_VOLT
Factory Fitted Filter Kit including By-Pass 2.2-3 kW	CONFIG_F0_FILT1
Factory Fitted Filter Kit including By-Pass 4-5.5 kW	CONFIG_F0_FILT2
Factory Fitted Filter Kit including By-Pass 7.5 kW	CONFIG_F0_FILT3
Retro Fit Filter Pack with By-Pass 2.2-3 kW	**CC1219584**
Retro Fit Filter Pack with By-Pass 4-5.5 kW	**CC1219585**
Retro Fit Filter Pack with By-Pass 7.5 kW	**CC1219586**
Factory Fitted Automatic Drain (only with factory fitted filter option)	CONFIG_F0_F2_DRAIN
Factory Fitted After Cooler	CONFIG_F0_COOLER
AD2000 (internal separator vessel)	CONFIG_F0-F4_AD2000
Factory Fitted Food Grade Oil	CONFIG_F0_FOODGRADE

SERVICE KITS	
Standard Service Kit FM2-6	**CC1219905**
Advanced Service Kit FM2-6	**CC1219906**
Major Service Kit FM2-6	**CC1219907**
ChampLube Screw Lubricant 4 Ltr (x4)	**CC1180019**
AEON SCFG 8000 5 Ltr	**ZS1216903**
AEON SCFG 8000 20 Ltr	**ZS1216945**
AEON SCFG 8000 208 Ltr	**ZS1216946**

For models with After Cooler option add 5kg to the weight

COMPACT & RELIABLE ROTARY SCREW COMPRESSORS - FM SERIES

At a glance…

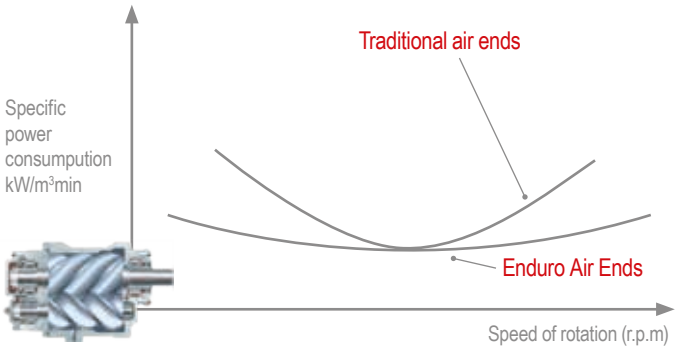
Nominal Pressure
5 - 13 bar g

Motor Power
7 - 22kW

Volume Flow
0.45 - 3.50 m³/min

FM & FM RS Screw Compressors up to 46ºC ambient temperature

The generously sized ventilation system ensures optimum cooling, low outlet air temperatures best performance and reliability under harshest conditions



Premium Quality Airends

FM series feature high quality airends manufactured in Finland using state of the art manufacturing techniques. The airends are designed with focus on reliability and efficiency. The rotors are accurate and thoroughly checked and measured by a computerised control system. Enduro airends have a flat specific power consumption curve, which enables efficient use of the airend in wide rpm. For models FM15-22 the Tamrotor Enduro airend features integrated air - oil separator and oil filter which offers a very compact design and improved maintenance.

FM & FM RS package compressors with dryer and tank

Based up on the individual customer requirements the compressors can be combined with different options to provide options from a stand alone compressor to the complete package.

- Compressor base mounted
- Tank mounted compressor
- Complete package including compressor, dryer and tank

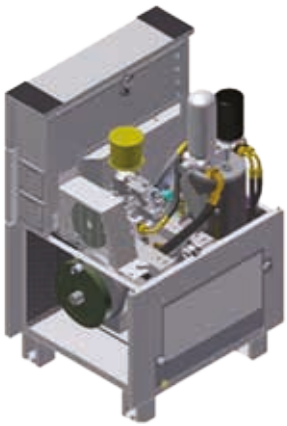
New advanced controller C-PRO 2.0 ensures reliable operation and protects your investment by continuously monitoring the operational parameters

- ✓ 3 analog inputs
- ✓ Multi-language: English/German/French/Italian/Spanish
- ✓ Standard sequence control up to 8 units (up to 7 units fixed speed & 1 variable speed)
- ✓ Standard Modbus
- ✓ 15 failure records in memory
- ✓ Continuous system monitoring

Easy maintenance

FM compressors are designed to ensure easy access to maintenance points. Panels on the structure can be easily removed to allow full access to all service points. Also, the limited number of moving parts reduces service costs.

Belt Auto Tensioning system



The automate tensioning of the belt assures long life of the belt, less maintenance and noise reduction.

Compact design with a footprint of 0,4 m^2 for frame 1 and 0.5m^2 for frame 2; FM series offer one of the most compact air compressors in the market. FM innovative design also features low noise level allowing installation at the point of use.

High Efficient Motors

- ✓ International efficiency class 2 (IE3) as a standard.
- ✓ IP 55 enclosure
- ✓ Full performance up to 46°C ambient temperature

FM RS

flexiAIR Variable Speed Technology

= Energy savings and lower CO_2 emissions into the environment.

The variable speed compressor: One smart solution

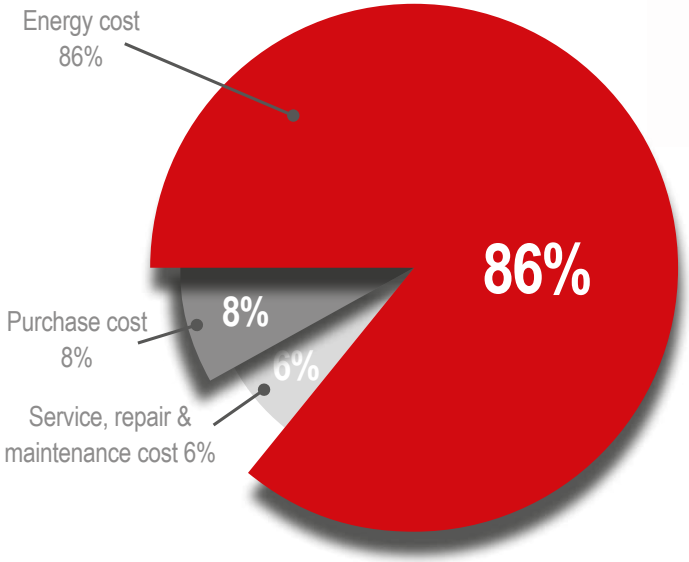
Variable speed compressors can efficiently and reliably handle the varying air demand found in most plant air systems. These compressors speed up and slow down to match air supply to air demand as it fluctuates. The right variable speed compressor in the right application delivers significant energy savings and a stable, consistent air supply.

Compressor energy cost example

NOMINAL kW	OPERATING COST PER YEAR (5000 HOURS) AT COST PER KWH (€)					
	0.06	0.08	0.10	0.12	0.14	0.16
15	4,495	5,990	7,490	8,985	10,483	11,980
18	5,540	7,390	9,235	11,080	12,930	14,775
22	6,590	8,785	10,980	13,180	15,375	17,570

Note: Hours of operation based on two 8hrs-shifts, 6 days per week. Calculations based on nominal kW.

Cost of compressed air over 5 years



FM RS flexiAIR Variable Speed Technology

Allows substantial energy savings of at least 25% of the energy cost

FM package compressors

With dryer, filters and tank

The FM Package compressors can be easily and rapidly installed in any installation.

The intelligent C-PRO 2.0 controller

Simplicity

The C-PRO 2.0 controller was designed to make the operators' interface with the variable speed drive transparent. This new generation controller features extra functions for variable speed compressors like drive status display and flexible PID setting according the application. You don't need to be an expert on variable speed drives to operate your compressor. The controller takes care of the details and automatically adjusts the compressor performance to meet your changing air system demands - saving you energy. Changing the discharge pressure is as easy as pressing a button.

Technical data

FM 7 Series: Screw Compressors

Design: Oil flooded, Single stage rotary screw compressor, belt drive, air cooled
Pressure Range: 7-8-10-13 bar
Electric motor: 7.5 kW - IE3

FM SERIES	TYPE	FM7			
CODE		CC1184130	CC1184131	CC1183626	CC1184132
Maximum pressure	bar	7	8	10	13
Capacity at maximum pressure	m^3/min	1.14	0.99	0.97	0.80
Drive motor IP 55 / class F – IE3	kW	7.5	7.5	7.5	7.5
Operating Voltage, 50Hz	400 V	•	•	•	•
Control voltage	24 V	•	•	•	•
C-Pro 2.0 electronic controller		•	•	•	•
Noise Level	db(A)	70	70	70	70
After-cooler		•	•	•	•
Weight	kg	205	205	205	205
Dimensions (LxWxH)	mm	667x630x1050	667x630x1050	667x630x1050	667x630x1050
Outlet connection EN 10266 (DIN 2999)		3/4"	3/4"	3/4"	3/4"
COMPRESSOR MOUNTED ON 270 LT TANK					
Code		**RSCCP0709**	**RSCCP0710**	**RSCCP0711**	**RSCCP0712**
Weight	kg	300	300	300	300
Dimensions (LxWxH)	mm	1600x700x1600	1600x700x1600	1600x700x1600	1600x700x1600
COMPRESSOR MOUNTED ON 500 LT TANK					
Code		**RSCCP0713**	**RSCCP0714**	**RSCCP0715**	**RSCCP0716**
Weight	kg	365	365	365	365
Dimensions (LxWxH)	mm	2000x700x1700	2000x700x1700	2000x700x1700	2000x700x1700
PACKAGE VERSION, FM / CT / 270 [1)]					
Code		**RSCCP0725V4**	**RSCCP0726V4**	**RSCCP0727V4**	**RSCCP0728V4**
Weight	kg	340	340	340	340
Dimensions (LxWxH)	mm	1600x700x1600	1600x700x1600	1600x700x1600	1600x700x1600
PACKAGE VERSION, FM / CT / 500 [1)]					
Code		**RSCCP0729V4**	**RSCCP0730V4**	**RSCCP0731V4**	**RSCCP0732V4**
Weight	kg	405	405	405	405
Dimensions (LxWxH)	mm	2000x700x1700	2000x700x1700	2000x700x1700	2000x700x1700

OPTIONAL	
Alternative Voltage, 230V / 50-60 Hz	**CONFIG_F0_F1_230_VOLT**
Alternative Voltage, 380V / 60 Hz	**CONFIG_F0-F4_380_VOLT**
Factory Fitted Filter Kit including By-Pass 7.5 kW	**CONFIG_F1_FILT1**
Factory Fitted Filter Kit including By-Pass 11 kW	**CONFIG_F1_FILT2**
Retro Filter Kit including By-Pass 7.5-11 kW for 270 Litre Receiver	**CC1201969**
Retro Filter Kit including By-Pass 7.5-11 kW for 500 Litre Receiver	**CC1201970**
Factory Fitted Automatic Drain	**CONFIG_F0_F2_DRAIN**
AD2000 (internal separator vessel)	**CONFIG_F0-F4_AD2000**
Factory Fitted Food Grade Oil	**CONFIG_F1_FOODGRADE**
Extended 5 year warranty	**CC1180791**
SERVICE & PARTS	
Service Kit for every 2000 h or 12 months	**CC1221491**
Annual Kit FM07-11	**CC1180671**
Advanced Service Kit FM07-11	**CC1180677**
ChampLube Screw Lubricant 4 Ltr (x4)	**CC1180019**
AEON SCFG 8000 5 Ltr	**ZS1216903**
AEON SCFG 8000 20 Ltr	**ZS1216945**

FM FIXED SPEED, FM RS VARIABLE SPEED

FM 11 Series: Screw Compressors

Design: Oil flooded, Single stage rotary screw compressor, belt drive, air cooled
Pressure Range: 7 to 13 bar
Electric motor: 11 kW - IE3

FM SERIES	TYPE	FM11			
CODE		CC1184133	CC1184154	CC1183627	CC1184155
Maximum pressure	bar	7	8	10	13
Capacity at maximum pressure	m^3/min	1.59	1.58	1.39	1.14
Drive motor IP 55 / class F – IE3	kW	11	11	11	11
Operating Voltage, 50Hz	400 V	•	•	•	•
Control voltage	24 V	•	•	•	•
C-Pro 2.0 electronic controller		•	•	•	•
Noise Level	db(A)	70	70	70	70
After-cooler		•	•	•	•
Weight	kg	219	219	219	219
Dimensions (LxWxH)	mm	667x630x1050	667x630x1050	667x630x1050	667x630x1050
Outlet connection EN 10266 (DIN 2999)		3/4"	3/4"	3/4"	3/4"
COMPRESSOR MOUNTED ON 270 LT TANK					
Code		**RSCCP1109**	**RSCCP1110**	**RSCCP1111**	**RSCCP1112**
Weight	kg	314	314	314	314
Dimensions (LxWxH)	mm	1600x700x1600	1600x700x1600	1600x700x1600	1600x700x1600
COMPRESSOR MOUNTED ON 500 LT TANK					
Code		**RSCCP1113**	**RSCCP1114**	**RSCCP1115**	**RSCCP1116**
Weight	kg	379	379	379	379
Dimensions (LxWxH)	mm	2000x700x1700	2000x700x1700	2000x700x1700	2000x700x1700
PACKAGE VERSION, FM / CT / 270 [1)]					
Code		**RSCCP1125V4**	**RSCCP1126V4**	**RSCCP1127V4**	**RSCCP1128V4**
Weight	kg	354	354	354	354
Dimensions (LxWxH)	mm	1600x700x1600	1600x700x1600	1600x700x1600	1600x700x1600
PACKAGE VERSION, FM / CT / 500 [1)]					
Code		**RSCCP1129V4**	**RSCCP1130V4**	**RSCCP1131V4**	**RSCCP1132V4**
Weight	kg	419	419	419	419
Dimensions (LxWxH)	mm	2000x700x1700	2000x700x1700	2000x700x1700	2000x700x1700

OPTIONAL	
Alternative Voltage, 230V / 50-60 Hz	**CONFIG_F0_F1_230_VOLT**
Alternative Voltage, 380V / 60 Hz	**CONFIG_F0-F4_380_VOLT**
Factory Fitted Filter Kit including By-Pass 7.5 kW	**CONFIG_F1_FILT1**
Factory Fitted Filter Kit including By-Pass 11 kW	**CONFIG_F1_FILT2**
Retro Filter Kit including By-Pass 7.5-11 kW for 270 Litre Receiver	**CC1201969**
Retro Filter Kit including By-Pass 7.5-11 kW for 500 Litre Receiver	**CC1201970**
Factory Fitted Automatic Drain	**CONFIG_F0_F2_DRAIN**
AD2000 (internal separator vessel)	**CONFIG_F0-F4_AD2000**
Factory Fitted Food Grade Oil	**CONFIG_F1_FOODGRADE**
Extended 5 year warranty	**CC1180791**
SERVICE & PARTS	
Service Kit for every 2000 h or 12 months	**CC1221491**
Annual Kit FM07-11	**CC1180671**
Advanced Service Kit FM07-11	**CC1180677**
ChampLube Screw Lubricant 4 Ltr (x4)	**CC1180019**
AEON SCFG 8000 5 Ltr	**ZS1216903**
AEON SCFG 8000 20 Ltr	**ZS1216945**

FM 7 RS Series: Screw Compressors

Design: Oil flooded, Single stage rotary screw compressor, variable speed, air cooled
Pressure Range: 5 to 13 bar
Electric motor: 7.5 kW - IE3

FM SERIES	TYPE	FM7RS			
CODE		CC1184156	CC1184157	CC1184158	CC1184159
Maximum pressure	bar	7	8	10	13
Capacity at maximum pressure	m^3/min	1.13	0.98	0.95	0.80
Drive motor IP 55 / class F – IE3	kW	7.5	7.5	7.5	7.5
Operating Voltage, 50Hz	400 V	•	•	•	•
Control voltage	24 V	•	•	•	•
C-Pro 2.0 electronic controller		•	•	•	•
Noise Level	db(A)	67	67	67	67
After-cooler		•	•	•	•
Weight	kg	225	225	225	225
Dimensions (LxWxH)	mm	667x630 x1050	667x630x1050	667x630x1050	667x630x1050
Outlet connection EN 10266 (DIN 2999)		3/4"	3/4"	3/4"	3/4"
COMPRESSOR MOUNTED ON 270 LT TANK					
Code		**RSCCP0717**	**RSCCP0718**	**RSCCP0719**	**RSCCP0720**
Weight	kg	320	320	320	320
Dimensions (LxWxH)	mm	1600x700x1600	1600x700x1600	1600x700x1600	1600x700x1600
COMPRESSOR MOUNTED ON 500 LT TANK					
Code		**RSCCP0721**	**RSCCP0722**	**RSCCP0723**	**RSCCP0724**
Weight	kg	385	385	385	385
Dimensions (LxWxH)	mm	2000x700x1700	2000x700x1700	2000x700x1700	2000x700x1700
PACKAGE VERSION, FM / CT / 270 [1)]					
Code		**RSCCP0733V4**	**RSCCP0734V4**	**RSCCP0735V4**	**RSCCP0736V4**
Weight	kg	360	360	360	360
Dimensions (LxWxH)	mm	1600x700x1600	1600x700x1600	1600x700x1600	1600x700x1600
PACKAGE VERSION, FM / CT / 500 [1)]					
Code		**RSCCP0737V4**	**RSCCP0738V4**	**RSCCP0739V4**	**RSCCP0740V4**
Weight	kg	425	425	425	425
Dimensions (LxWxH)	mm	2000x700x1700	2000x700x1700	2000x700x1700	2000x700x1700

OPTIONAL	
Alternative Voltage, 230V / 50-60 Hz	**CONFIG_F0_F1_230_VOLT**
Alternative Voltage, 380V / 60 Hz	**CONFIG_F0-F4_380_VOLT**
Factory Fitted Filter Kit including By-Pass 7.5 kW	**CONFIG_F1_FILT1**
Factory Fitted Filter Kit including By-Pass 11 kW	**CONFIG_F1_FILT2**
Retro Filter Kit including By-Pass 7.5-11 kW for 270 Litre Receiver	**CC1201969**
Retro Filter Kit including By-Pass 7.5-11 kW for 500 Litre Receiver	**CC1201970**
Factory Fitted Automatic Drain	**CONFIG_F0_F2_DRAIN**
AD2000 (internal separator vessel)	**CONFIG_F0-F4_AD2000**
Factory Fitted Food Grade Oil	**CONFIG_F1_FOODGRADE**
Extended 5 year warranty	**CC1180791**
SERVICE & PARTS	
Service Kit for every 2000 h or 12 months	**CC1221491**
Annual Kit FM07-11 VS	**CC1180672**
Advanced Service Kit FM07-11 VS	**CC1180678**
ChampLube Screw Lubricant 4 Ltr (x4)	**CC1180019**
AEON SCFG 8000 5 Ltr	**ZS1216903**
AEON SCFG 8000 20 Ltr	**ZS1216945**

FM FIXED SPEED, FM RS VARIABLE SPEED

FM 11 RS Series: Screw Compressors

Design: Oil flooded, Single stage rotary screw compressor, variable speed, air cooled
Pressure Range: 5 to 13 bar
Electric motor: 11 kW - IE3

FM SERIES	TYPE	FM11RS			
CODE		CC1184160	CC1184161	CC1184162	CC1184163
Maximum pressure	bar	7	8	10	13
Capacity at maximum pressure and 100% load	m^3/min	1.58	1.56	1.39	1.07
Drive motor IP 55 / class F – IE3	kW	11	11	11	11
Operating Voltage, 50Hz	400 V	•	•	•	•
Control voltage	24 V	•	•	•	•
C-Pro 2.0 electronic controller		•	•	•	•
Noise Level at 70% load	db(A)	67	67	67	67
After-cooler		•	•	•	•
Weight	kg	234	234	234	234
Dimensions (LxWxH)	mm	667x630x1050	667x630x1050	667x630x1050	667x630x1050
Outlet connection EN 10266 (DIN 2999)		3/4"	3/4"	3/4"	3/4"
COMPRESSOR MOUNTED ON 270 LT TANK					
Code		**RSCCP1117**	**RSCCP1118**	**RSCCP1119**	**RSCCP1120**
Weight	kg	329	329	329	329
Dimensions (LxWxH)	mm	1600x700x1600	1600x700x1600	1600x700x1600	1600x700x1600
COMPRESSOR MOUNTED ON 500 LT TANK					
Code		**RSCCP1121**	**RSCCP1122**	**RSCCP1123**	**RSCCP1124**
Weight	kg	394	394	394	394
Dimensions (LxWxH)	mm	2000x700x1700	2000x700x1700	2000x700x1700	2000x700x1700
PACKAGE VERSION, FM / CT / 270 [1)]					
Code		**RSCCP1133V4**	**RSCCP1134V4**	**RSCCP1135V4**	**RSCCP1136V4**
Weight	kg	369	369	369	369
Dimensions (LxWxH)	mm	1600x700x1600	1600x700x1600	1600x700x1600	1600x700x1600
PACKAGE VERSION, FM / CT / 500 [1)]					
Code		**RSCCP1137V4**	**RSCCP1138V4**	**RSCCP1139V4**	**RSCCP1140V4**
Weight	kg	434	434	434	434
Dimensions (LxWxH)	mm	2000x700x1700	2000x700x1700	2000x700x1700	2000x700x1700

OPTIONAL	
Alternative Voltage, 230V / 50-60 Hz (3 phases)	**CONFIG_F0_F1_230_VOLT**
Alternative Voltage, 380V / 60 Hz	**CONFIG_F0-F4_380_VOLT**
Factory Fitted Filter Kit including By-Pass 7.5 kW	**CONFIG_F1_FILT1**
Factory Fitted Filter Kit including By-Pass 11 kW	**CONFIG_F1_FILT2**
Retro Filter Kit including By-Pass 7.5-11 kW for 270 Litre Receiver	**CC1201969**
Retro Filter Kit including By-Pass 7.5-11 kW for 500 Litre Receiver	**CC1201970**
Factory Fitted Automatic Drain	**CONFIG_F0_F2_DRAIN**
AD2000 (internal separator vessel)	**CONFIG_F0-F4_AD2000**
Factory Fitted Food Grade Oil	**CONFIG_F1_FOODGRADE**
Extended 5 year warranty	**CC1180791**
SERVICE & PARTS	
Service Kit for every 2000 h or 12 months	**CC1221491**
Annual Kit FM07-11 VS	**CC1180672**
Advanced Service Kit FM07-11 VS	**CC1180678**
ChampLube Screw Lubricant 4 Ltr (x4)	**CC1180019**
AEON SCFG 8000 5 Ltr	**ZS1216903**
AEON SCFG 8000 20 Ltr	**ZS1216945**

FM 15 Series: Screw Compressors

Design: Oil flooded, Single stage rotary screw compressor, belt drive, air cooled
Pressure Range: 7 to 13 bar
Electric motor: 15 kW - IE3

FM SERIES	TYPE	FM15			
CODE		CC1184171	CC1184172	CC1184173	CC1184264
Maximum pressure	bar	7	8	10	13
Capacity at maximum pressure	m^3/min	2.64	2.46	2.20	1.79
Drive motor IP 55 / class F – IE3	kW	15	15	15	15
Operating Voltage, 50Hz	400 V	•	•	•	•
Control voltage	24 V	•	•	•	•
C-Pro 2.0 electronic controller		•	•	•	•
Noise Level	db(A)	73	73	73	73
After-cooler		•	•	•	•
Weight	kg	335	335	335	335
Dimensions (LxWxH)	mm	787x698x1202	787x698x1202	787x698x1202	787x698x1202
Outlet connection EN 10266 (DIN 2999)		1"	1"	1"	1"
COMPRESSOR MOUNTED ON 500 LT TANK					
Code		**RSCCP1509**	**RSCCP1510**	**RSCCP1511**	**RSCCP1512**
Weight	kg	495	495	495	495
Dimensions (LxWxH)	mm	2000x800x1850	2000x800x1850	2000x800x1850	2000x800x1850
PACKAGE VERSION, FM / CT / 500 [1)]					
Code		**RSCCP1517V4**	**RSCCP1518V4**	**RSCCP1519V4**	**RSCCP1520V4**
Weight	kg	545	545	545	545
Dimensions (LxWxH)	mm	2000x850x1850	2000x850x1850	2000x850x1850	2000x850x1850

OPTIONAL	
Alternative Voltage 380/3/60 Hz	**CONFIG_F0-F4_380_VOLT**
Factory Fitted Filter Kit including By-Pass 15-22 kW	**CONFIG_F2_FILT1**
Retro Fit Filter Pack with By-Pass 15-22 kW	**CC1199134**
Factory Fitted Automatic Drain	**CONFIG_F0_F2_DRAIN**
AD2000 (internal separator vessel)	***CONFIG_F0-F4_AD2000***
Factory Fitted Food Grade Oil	**CONFIG_F2_FOODGRADE**
Extended 5 year warranty	**CC1180791**
SERVICE & PARTS	
Service Kit for every 2000 h or 12 months	**CC1221492**
Annual Kit FM15-22	**CC1180685**
Advanced Service Kit FM15-22	**CC1180689**
ChampLube Screw Lubricant 4 Ltr (x4)	**CC1180019**
AEON SCFG 8000 5 Ltr	**ZS1216903**
AEON SCFG 8000 20 Ltr	**ZS1216945**

FM FIXED SPEED, FM RS VARIABLE SPEED

FM 18 Series: Screw Compressors

Design: Oil flooded, Single stage rotary screw compressor, belt drive, air cooled
Pressure Range: 7 to 13 bar
Electric motor: 18.5 kW - IE3

FM SERIES	TYPE	FM18			
CODE		CC1184265	CC1184266	CC1184267	CC1184268
Maximum pressure	bar	7	8	10	13
Capacity at maximum pressure	m^3/min	3.15	2.96	2.71	2.38
Drive motor IP 55 / class F – IE3	kW	18.5	18.5	18.5	18.5
Operating Voltage, 50Hz	400 V	•	•	•	•
Control voltage	24 V	•	•	•	•
C-Pro 2.0 electronic controller		•	•	•	•
Noise Level	db(A)	73	73	73	73
After-cooler		•	•	•	•
Weight	kg	361	361	361	361
Dimensions (L x W x H)	mm	787x698x1202	787x698x1202	787x698x1202	787x698x1202
Outlet connection EN 10266 (DIN 2999)		1"	1"	1"	1"
COMPRESSOR MOUNTED ON 500 LT TANK					
Code		**RSCCP1809**	**RSCCP1810**	**RSCCP1811**	**RSCCP1812**
Weight	kg	521	521	521	521
Dimensions (L x W x H)	mm	2000x800x1850	2000x800x1850	2000x800x1850	2000x800x1850
PACKAGE VERSION, FM / CT / 500 [1)]					
Code		**RSCCP1817V4**	**RSCCP1818V4**	**RSCCP1819V4**	**RSCCP1820V4**
Weight	kg	571	571	571	571
Dimensions (L x W x H)	mm	2000x850x1850	2000x850x1850	2000x850x1850	2000x850x1850

OPTIONAL	
Alternative Voltage 380/3/60 Hz	**CONFIG_F0-F4_380_VOLT**
Factory Fitted Filter Kit including By-Pass 15-22 kW	**CONFIG_F2_FILT1**
Retro Fit Filter Pack with By-Pass 15-22 kW	**CC1199134**
Factory Fitted Automatic Drain	**CONFIG_F0_F2_DRAIN**
AD2000 (internal separator vessel)	**CONFIG_F0-F4_AD2000**
Factory Fitted Food Grade Oil	**CONFIG_F2_FOODGRADE**
Extended 5 year warranty	**CC1180791**
SERVICE & PARTS	
Service Kit for every 2000 h or 12 months	**CC1221492**
Annual Kit FM15-22	**CC1180685**
Advanced Service Kit FM15-22	**CC1180689**
ChampLube Screw Lubricant 4 Ltr (x4)	**CC1180019**
AEON SCFG 8000 5 Ltr	**ZS1216903**
AEON SCFG 8000 20 Ltr	**ZS1216945**

FM 22 Series: Screw Compressors

Design: Oil flooded, Single stage rotary screw compressor, belt drive, air cooled
Pressure Range: 7 to 13 bar
Electric motor: 22 kW - IE3

FM SERIES	TYPE	FM22			
CODE		CC1184269	CC1184270	CC1184169	CC1184271
Maximum pressure	bar	7	8	10	13
Capacity at maximum pressure	m^3/min	3.50	3.23	3.06	2.59
Drive motor IP 55 / class F – IE3	kW	22	22	22	22
Operating Voltage, 50Hz	400 V	•	•	•	•
Control voltage	24 V	•	•	•	•
C-Pro 2.0 electronic controller		•	•	•	•
Noise Level	db(A)	74	74	74	74
After-cooler		•	•	•	•
Weight	kg	367	367	367	367
Dimensions (LxWxH)	mm	787x698x1202	787x698x1202	787x698x1202	787x698x1202
Outlet connection EN 10266 (DIN 2999)		1"	1"	1"	1"
COMPRESSOR MOUNTED ON 500 LT TANK					
Code		**RSCCP2209**	**RSCCP2211**	**RSCCP2212**	**RSCCP2213**
Weight	kg	527	527	527	527
Dimensions (LxWxH)	mm	2000x800x1850	2000x800x1850	2000x800x1850	2000x800x1850
PACKAGE VERSION, FM / CT / 500 [1)]					
Code		**RSCCP2217V4**	**RSCCP2218V4**	**RSCCP2219V4**	**RSCCP2220V4**
Weight	kg	577	577	577	577
Dimensions (LxWxH)	mm	2000x850x1850	2000x850x1850	2000x850x1850	2000x850x1850

OPTIONAL	
Alternative Voltage 380/3/60 Hz	**CONFIG_F0-F4_380_VOLT**
Factory Fitted Filter Kit including By-Pass 15-22 kW	**CONFIG_F2_FILT1**
Retro Fit Filter Pack with By-Pass 15-22 kW	**CC1199134**
Factory Fitted Automatic Drain	**CONFIG_F0_F2_DRAIN**
AD2000 (internal separator vessel)	**CONFIG_F0-F4_AD2000**
Factory Fitted Food Grade Oil	**CONFIG_F2_FOODGRADE**
Extended 5 year warranty	**CC1180791**
SERVICE & PARTS	
Service Kit for every 2000 h or 12 months	**CC1221492**
Annual Kit FM15-22	**CC1180685**
Advanced Service Kit FM15-22	**CC1180689**
ChampLube Screw Lubricant 4 Ltr (x4)	**CC1180019**
AEON SCFG 8000 5 Ltr	**ZS1216903**
AEON SCFG 8000 20 Ltr	**ZS1216945**

FM FIXED SPEED, FM RS VARIABLE SPEED

FM 15 RS Series: Screw Compressors

Design: Oil flooded, Single stage rotary screw compressor, variable speed, air cooled
Pressure Range: 5 to 13 bar
Electric motor: 15 kW - IE3

FM SERIES	TYPE	FM15RS			
CODE		CC1184272	CC1184273	CC1184274	CC1184275
Maximum pressure	bar	7	8	10	13
Capacity at maximum pressure and 100% load	m^3/min	2.64	2.46	2.20	1.73
Drive motor IP 55 / class F – IE3	kW	15	15	15	15
Operating Voltage, 50Hz	400 V	•	•	•	•
Control voltage	24 V	•	•	•	•
C-Pro 2.0 electronic controller		•	•	•	•
Noise Level at 70% load	db(A)	70	70	70	70
After-cooler		•	•	•	•
Weight	kg	360	360	360	360
Dimensions (L x W x H)	mm	787x698x1202	787x698x1202	787x698x1202	787x698x1202
Outlet connection EN 10266 (DIN 2999)		1"	1"	1"	1"
COMPRESSOR MOUNTED ON 500 LT TANK					
Code		**RSCCP1513**	**RSCCP1514**	**RSCCP1515**	**RSCCP1516**
Weight	kg	520	520	520	520
Dimensions (L x W x H)	mm	2000x800x1850	2000x800x1850	2000x800x1850	2000x800x1850
PACKAGE VERSION, FM / CT / 500 [1)]					
Code		**RSCCP1521V4**	**RSCCP1522V4**	**RSCCP1523V4**	**RSCCP1524V4**
Weight	kg	570	570	570	570
Dimensions (L x W x H)	mm	2000x850x1850	2000x850x1850	2000x850x1850	2000x850x1850

OPTIONAL	
Alternative Voltage 380/3/60 Hz	**CONFIG_F0-F4_380_VOLT**
FM15-22 Filter Kit with bypass for dryer	**CONFIG_F2_FILT1**
Retro Fit Filter Pack with By-Pass 15-22 kW	**CC1199134**
Factory Fitted Automatic Drain	**CONFIG_F0_F2_DRAIN**
AD2000 (internal separator vessel)	**CONFIG_F0-F4_AD2000**
Factory Fitted Food Grade Oil	**CONFIG_F2_FOODGRADE**
Extended 5 year warranty	**CC1180791**
SERVICE & PARTS	
Service Kit for every 2000 h or 12 months	**CC1221492**
Annual Kit FM15-22 VS	**CC1180686**
Advanced Service Kit FM15-22 VS	**CC1180690**
ChampLube Screw Lubricant 4 Ltr (x4)	**CC1180019**
AEON SCFG 8000 5 Ltr	**ZS1216903**
AEON SCFG 8000 20 Ltr	**ZS1216945**

FM 18 RS Series: Screw Compressors

Design: Oil flooded, Single stage rotary screw compressor, variable speed, air cooled
Pressure Range: 5 to 13 bar
Electric motor: 18.5 kW - IE3

FM SERIES	TYPE	FM18RS			
CODE		CC1184277	CC1184278	CC1184279	CC1184280
Maximum pressure	bar	7	8	10	13
Capacity at maximum pressure	m^3/min	3.15	2.96	2.66	2.25
Drive motor IP 55 / class F – IE3	kW	18.5	18.5	18.5	18.5
Operating Voltage, 50Hz	400 V	•	•	•	•
Control voltage	24 V	•	•	•	•
C-Pro 2.0 electronic controller		•	•	•	•
Noise Level	db(A)	71	71	71	71
After-cooler		•	•	•	•
Weight	kg	380	380	380	380
Dimensions (L x W x H)	mm	787x698x1202	787x698x1202	787x698x1202	787x698x1202
Outlet connection EN 10266 (DIN 2999)		1"	1"	1"	1"
COMPRESSOR MOUNTED ON 500 LT TANK					
Code		**RSCCP1813**	**RSCCP1814**	**RSCCP1815**	**RSCCP1816**
Weight	kg	540	540	540	540
Dimensions (L x W x H)	mm	2000x800x1850	2000x800x1850	2000x800x1850	2000x800x1850
PACKAGE VERSION, FM / CT / 500 [1)]					
Code		**RSCCP1821V4**	**RSCCP1822V4**	**RSCCP1823V4**	**RSCCP1824V4**
Weight	kg	590	590	590	590
Dimensions (L x W x H)	mm	2000x850x1850	2000x850x1850	2000x850x1850	2000x850x1850

OPTIONAL	
Alternative Voltage 380/3/60 Hz	**CONFIG_F0-F4_380_VOLT**
FM15-22 Filter Kit with bypass for dryer	**CONFIG_F2_FILT1**
Retro Fit Filter Pack with By-Pass 15-22 kW	**CC1199134**
Factory Fitted Automatic Drain	**CONFIG_F0_F2_DRAIN**
AD2000 (internal separator vessel)	**CONFIG_F0-F4_AD2000**
Factory Fitted Food Grade Oil	**CONFIG_F2_FOODGRADE**
Extended 5 year warranty	**CC1180791**
SERVICE & PARTS	
Service Kit for every 2000 h or 12 months	**CC1221492**
Annual Kit FM15-22 VS	**CC1180686**
Advanced Service Kit FM15-22 VS	**CC1180690**
ChampLube Screw Lubricant 4 Ltr (x4)	**CC1180019**
AEON SCFG 8000 5 Ltr	**ZS1216903**
AEON SCFG 8000 20 Ltr	**ZS1216945**

FM FIXED SPEED, FM RS VARIABLE SPEED

FM 22 RS Series: Screw Compressors

Design: Oil flooded, Single stage rotary screw compressor, variable speed, air cooled
Pressure Range: 5 to 13 bar
Electric motor: 22 kW - IE3

FM SERIES	TYPE	FM22RS			
CODE		CC1184281	CC1184282	CC1183666	CC1184283
Maximum pressure	bar	7	8	10	13
Capacity at maximum pressure and 100% load	m^3/min	3.50	3.23	3.06	2.59
Drive motor IP 55 / class F – IE3	kW	22	22	22	22
Operating Voltage, 50Hz	400 V	•	•	•	•
Control voltage	24 V	•	•	•	•
C-Pro 2.0 electronic controller		•	•	•	•
Noise Level at 70% load	db(A)	71	71	71	71
After-cooler		•	•	•	•
Weight	kg	395	395	395	395
Dimensions (L x W x H)	mm	787x698x1202	787x698x1202	787x698x1202	787x698x1202
Outlet connection EN 10266 (DIN 2999)		1"	1"	1"	1"
COMPRESSOR MOUNTED ON 500 LT TANK					
Code		**RSCCP2213**	**RSCCP2214**	**RSCCP2215**	**RSCCP2216**
Weight	kg	555	555	555	555
Dimensions (L x W x H)	mm	2000x800x1850	2000x800x1850	2000x800x1850	2000x800x1850
PACKAGE VERSION, FM / CT / 500 [1)]					
Code		**RSCCP2221V4**	**RSCCP2222V4**	**RSCCP2223V4**	**RSCCP2224V4**
Weight	kg	605	605	605	605
Dimensions (L x W x H)	mm	2000x850x1850	2000x850x1850	2000x850x1850	2000x850x1850

OPTIONAL	
Alternative Voltage 380/3/60 Hz	**CONFIG_F0-F4_380_VOLT**
FM15-22 Filter Kit with bypass for dryer	**CONFIG_F2_FILT1**
Retro Fit Filter Pack with By-Pass 15-22 kW	**CC1199134**
Factory Fitted Automatic Drain	**CONFIG_F0_F2_DRAIN**
AD2000 (internal separator vessel)	**CONFIG_F0-F4_AD2000**
Factory Fitted Food Grade Oil	**CONFIG_F2_FOODGRADE**
Extended 5 year warranty	**CC1180791**
SERVICE & PARTS	
Service Kit for every 2000 h or 12 months	**CC1221492**
Annual Kit FM15-22 VS	**CC1180686**
Advanced Service Kit FM15-22 VS	**CC1180690**
ChampLube Screw Lubricant 4 Ltr (x4)	**CC1180019**
AEON SCFG 8000 5 Ltr	**ZS1216903**
AEON SCFG 8000 20 Ltr	**ZS1216945**

Notes

NEW GENERATION HIGHLY EFFICIENT SCREW COMPRESSORS

At a glance…

Nominal Pressure
5 - 13 bar g

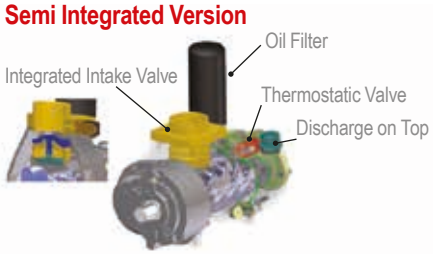
Motor Power
30 - 75kW

Volume Flow
1.19 - 13.5 m^3/min

Premium efficiency airend

New FM series 30-75 kW features premium quality airends designed and manufactured in house. The manufacturing process is using the latest CNC rotor grinding machinery, coupled with on-line laser technology, in order to maintain precise manufacturing tolerances.

Semi Integrated Version



Our state of art airends are focused on high efficiency and reliability.

Their integrated design offers a very compact solution that ease service and minimises leakage risks.

High efficiency cooling system

Thanks to the optimum cooling system, the compressor can work in high ambient temperatures of up to 46°C.

Maximum durability

We maximise service life and durability by eliminating elastomer and thermoplastic pipe and tube in system pressure lines, replacing them with corrosion resistant stainless steel tubing and passive zinc coated carbon steel piping.

For ease of maintenance we complete the connection with viton sealed, grooved couplings and self-sealing high pressure compression fittings.

Designed for serviceability

Maintenance personnel welcome the FM series compressor range. Service access is quick and easy with all doors able to be removed in seconds. We've also made sure serviceable components including filters are easily accessible and no piping needs to be disconnected to service the separator.

Optimised drive concept

With direct or gear drive coupling, the belt free FM 30-75 Series compressor range not only reduces transmission losses, it improves efficiency and reduces noise. Most importantly, it delivers greater reliability and reduced maintenance costs.

Energy efficient motor

High efficiency TEFC IE3 electric motors are fitted as standard to the entire FM 30-75 Series screw compressor range, reducing not only power consumption but also CO_2 emissions.

New advanced controller C-PRO 2.0 ensures reliable operation and protects your investment by continuously monitoring the operational parameters

- ✓ 3 analog inputs
- ✓ Multi-language: English/German/French/Italian/Spanish
- ✓ Standard sequence control up to 8 units (up to 7 units fixed speed & 1 variable speed)
- ✓ Standard Modbus
- ✓ 15 failure records in memory
- ✓ Continuous system monitoring

iConn Industry 4.0 option

The C- PRO 2.0 has the possibility to connect with iConn monitoring device iConn is the smart, proactive real-time monitoring service that delivers in-depth and real-time knowledge on the system to our compressed air users.

It enables accurate production planning and total peace-of-mind protection.

It keeps users informed on performance, at the same time highlighting potential issues before they become a problem.

- Condition based monitoring
- Predictive maintenance required
- Full Air Manufacturing Control Optimisation
- External data pattern integration

FM RS

flexiAIR Variable Speed Technology

= Energy savings and lower CO_2 emissions into the environment.

The variable speed compressor: One smart solution

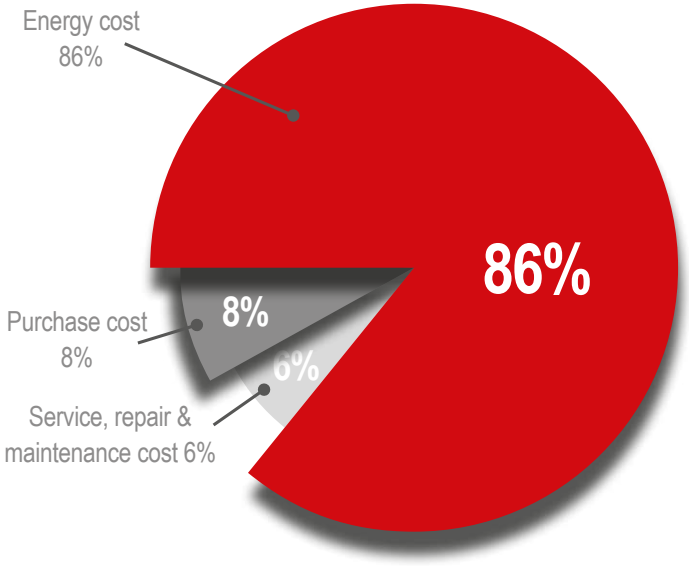
Variable speed compressors can efficiently and reliably handle the varying air demand found in most plant air systems. These compressors speed up and slow down to match air supply to air demand as it fluctuates. The right variable speed compressor in the right application delivers significant energy savings and a stable, consistent air supply.

Compressor energy cost example

NOMINAL kW	OPERATING COST PER YEAR (5000 HOURS) AT COST PER KWh (€)					
	0.06	0.08	0.10	0.12	0.14	0.16
55	16,500	22,000	27,500	33,000	38,500	44,000
75	22,500	30,000	37,500	45,000	52,500	60,000

Note: Hours of operation based on two 8hrs-shifts, 6 days per week. Calculations based on nominal kW.

Cost of compressed air over 5 years



FM RS flexiAIR Variable Speed Technology

Allows substantial energy savings of at least 25% of the energy cost

The intelligent C-PRO 2.0 controller

Simplicity

The C-PRO 2.0 controller was designed to make the operators' interface with the variable speed drive transparent. This new generation controller features extra functions for variable speed compressors like drive status display and flexible PID setting according the application. You don't need to be an expert on variable speed drives to operate your compressor. The controller takes care of the details and automatically adjusts the compressor performance to meet your changing air system demands - saving you energy. Changing the discharge pressure is as easy as pressing a button.

Technical data

FM 30 – 45 Series: Screw Compressors, Fixed Speed

Design: Oil flooded, Single stage rotary screw compressor, direct drive, star / delta starting
Pressure Range: 8 to 13 bar
Electric motor: 30 - 45kW - IE3

FM SERIES	TYPE	FM 30			FM 37			FM 45		
CODE		CC1195721	CC1195722	CC1195723	CC1195342	CC1195734	CC1195735	CC1195736	CC1195737	CC1195738
Max. Pressure	bar	8	10	13	8	10	13	8	10	13
Capacity at working pressure	m^3/min	4.87	4.67	4.08	6.4	5.49	5.05	7.52	6.75	5.4
Drive Motor IP55 / Class IE3	kW	30	30	30	37	37	37	45	45	45
Operating Voltage, 50 Hz	400 V	•	•	•	•	•	•	•	•	•
Control Voltage	24V	•	•	•	•	•	•	•	•	•
C-PRO 2.0 Controller		•	•	•	•	•	•	•	•	•
Noise Level	dB(A)	71	71	71	71	71	71	72	72	72
Weight	kg	700			780			850		
Dimensions (LxWxH)	mm	1554 x 894 x 1405			1554 x 894 x 1405			1554 x 894 x 1405		
Compressered Air Delivery Connection		EN 10226 G1 1/4 (DIN 2999-G1 1/4) female								

OPTIONAL	
Alternative Voltage 380/3/60Hz	**CONFIG_F0-F4_380_VOLT**
iConn Factory Fitted	**CONFIG_iConn**
iConn Retrofit Kit NETT PRICE	**ZS1184985**
Extended Warranty 5 years	**CC1180793**
AD2000 (internal separator vessel)	**CONFIG_F0-F4_AD2000**
Factory Fitted Food Grade Oil 30-45 kW	**CONFIG_F3_FOODGRADE**
SERVICE & PARTS	
Annual Service Kit FM30	**CC1198084**
Advanced Service Kit FM30	**CC1198090**
Major Service Kit FM30	**CC1198096**
Annual Service Kit FM37-45	**CC1198085**
Advanced Service Kit FM37-45	**CC1198091**
Major Service Kit FM37-FM45	**CC1198097**
ChampLube Screw Lubricant 20 Ltr	**CC1180020**
AEON SCFG 8000 5 Ltr	**ZS1216903**
AEON SCFG 8000 20 Ltr	**ZS1216945**

* Service intervals are by calendar months or operating hours, whichever occurs first. In dirty ambient conditions service interval must be halved.

FM FIXED SPEED - FMRS VARIABLE SPEED SERIES

FM 30 – 45RS Series: Screw Compressors, Variable Speed

Design: Oil flooded, single stage rotary screw compressor, direct drive, star / delta starting

Pressure Range: 5 to 13 bar

Electric motor: 30 - 45kW - IE3

FMRS SERIES CODE	TYPE	FM30RS CC1195739	FM37RS CC1195740	FM45RS CC1195741
Pressure Range	bar	5 - 13		
Flow rate min - max	m^3/min	1.19 - 5.60	1.41 - 6.69	1.41 - 7.84
Drive Motor IP55 / Class IE3	kW	30	37	45
Operating Voltage, 50 Hz	400V	•	•	•
Control Voltage	24V	•	•	•
C- PRO 2.0 Controller		•	•	•
Noise Level at 70% load	dB(A)	70	70	71
Weight	kg	750	830	900
Dimensions (LxWxH)	mm	1554 x 894 x 1405		
Compressered Air Delivery Connection		EN 10226 G1 1/4 (DIN 2999-G1 1/4) female		

OPTIONAL	
Alternative Voltage 380/3/60Hz	**CONFIG_F0-F4_380_VOLT**
iConn Factory Fitted	**CONFIG_iConn**
iConn Retrofit Kit NETT PRICE	**ZS1184985**
Extended Warranty 5 years	**CC1180793**
AD2000 (internal separator vessel)	**CONFIG_F0-F4_AD2000**
Factory Fitted Food Grade Oil 30-45 kW	**CONFIG_F3_FOODGRADE**
SERVICE & PARTS	
Annual Service Kit FMRS30	**CC1198086**
Advanced Service Kit FMRS30	**CC1198092**
Major Service Kit FM30 RS	**CC1198098**
Annual Service Kit FMRS37-45	**CC1198087**
Advanced Service Kit FMRS37-45	**CC1198093**
Major Service Kit FMRS37-FMRS45	**CC1198099**
ChampLube Screw Lubricant 20 Ltr (x2)	**CC1180020**
AEON SCFG 8000 5 Ltr	**ZS1216903**
AEON SCFG 8000 20 Ltr	**ZS1216945**

* Service intervals are defined by calendar months or operating hours, whichever occurs first. In dirty ambient conditions service interval must be halved.

FM 55 – 75 Series: Screw Compressors, Fixed Speed

Design: Oil flooded, single stage rotary screw compressor, direct drive, star / delta starting

Pressure Range: 8 to 13 bar

Electric motor: 55 - 75kW - IE3

FM SERIES	TYPE	FM55			FM75		
CODE		CC1195745	CC1195747	CC1195748	CC1195749	CC1195750	CC1195751
Pressure Range	bar	8	10	13	8	10	13
Capacity at working pressure	m^3/min	10.55	9.14	7.9	12.15	10.26	8.91
Drive Motor IP55 / Class IE3	kW	55	55	55	75	75	75
Operating Voltage, 50 Hz	400V	•	•	•	•	•	•
Control Voltage	24V	•	•	•	•	•	•
C- PRO 2.0 Controller		•	•	•	•	•	•
Noise Level at 70% load	dB(A)	73	73	73	74	74	74
Weight	kg	1150			1210		
Dimensions (LxWxH)	mm	2004 x 1179 x 1505			2004 x 1179 x 1505		
Compressered Air Delivery Connection		EN 10226 G2 (DIN 2999-G2) female					

OPTIONAL	
Alternative Voltage 380/3/60Hz	**CONFIG_F0-F4_380_VOLT**
iConn Factory Fitted	**CONFIG_iConn**
iConn Retrofit Kit NETT PRICE	**ZS1184985**
Extended Warranty 5 years	**CC1180793**
AD2000 (internal separator vessel)	**CONFIG_F0-F4_AD2000**
Factory Fitted Food Grade Oil 55-75 kW	**CONFIG_F4_FOODGRADE**
SERVICE & PARTS	
Annual Service Kit FM55-75	**CC1198088**
Advanced Service Kit FM55-75	**CC1198094**
Major Service Kit FM55	**CC1198100**
Major Service Kit FM75	**CC1198101**
ChampLube Screw Lubricant 20 Ltr (x2) (55-90Kw)	**CC1180020**
AEON SCFG 8000 5 Ltr	**ZS1216903**
AEON SCFG 8000 20 Ltr	**ZS1216945**
AEON SCFG 8000 208 Ltr	**ZS1216946**

* Service intervals are defined by calendar months or operating hours, whichever occurs first. In dirty ambient conditions service interval must be halved.

FM FIXED SPEED - FMRS VARIABLE SPEED SERIES

FM 55 – 75RS Series: Screw Compressors, Fixed Speed

Design: Oil flooded, single stage rotary screw compressor, direct drive, star / delta starting

Pressure Range: 5 to 13 bar

Electric motor: 55 - 75kW - IE3

FM SERIES CODE	TYPE	FM55RS CC1195752	FM75RS CC1195753
Pressure Range	bar	5 - 10	5 - 13
Flow rate min - max	m^3/min	2.24 - 10.43	1.65 - 13.57
Drive Motor IP55 / Class IE3	kW	55	75
Operating Voltage, 50 Hz	400V	•	•
Control Voltage	24V	•	•
C- PRO 2.0 Controller		•	•
Noise Level at 70% load	dB(A)	71	74
Weight	kg	1220	1280
Dimensions (LxWxH)	mm	2004 x 1179 x 1505	
Compressered Air Delivery Connection		EN 10226 G2 (DIN 2999-G2) female	

OPTIONAL	
Alternative Voltage 380/3/60Hz	**CONFIG_F0-F4_380_VOLT**
iConn Factory Fitted	**CONFIG_iConn**
iConn Retrofit Kit NETT PRICE	**ZS1184985**
Extended Warranty 5 years	**CC1180793**
AD2000 (internal separator vessel)	**CONFIG_F0-F4_AD2000**
Factory Fitted Food Grade Oil 55-75 kW	**CONFIG_F4_FOODGRADE**
SERVICE & PARTS	
Standard Service Kit FMRS55-75	**CC1198089**
Advanced Service Kit FMRS55-75	**CC1198095**
Major Service Kit FM55-FM75 RS	**CC1198102**
ChampLube Screw Lubricant 20 Ltr (x2) (55-90Kw)	**CC1180020**
AEON SCFG 8000 5 Ltr	**ZS1216903**
AEON SCFG 8000 20 Ltr	**ZS1216945**
AEON SCFG 8000 208 Ltr	**ZS1216946**

* Service intervals are defined by calendar months or operating hours, whichever occurs first. In dirty ambient conditions service interval must be halved.

Notes

BIG ON EFFICIENCY!
CHAMPION ON PRICE!

At a glance…

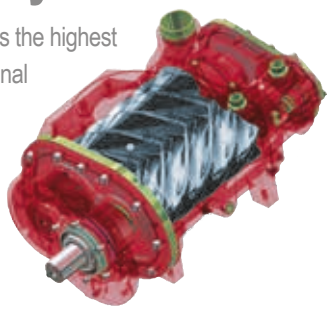
Nominal Pressure
5 - 13 bar g

Motor Power
90 - 132kW

Volume Flow
5.26 - 24.79 m^3/min

Premium efficiency airend

The new highly efficient airend delivers the highest quality compressed air at a low rotational speed, to help minimise the unit's energy consumption and achieve excellent performance.



Compressor Controller Pilot TS Features & functions

- Home Page – instant overview of the compressor status
- Real Time Clock – allows pre-setting of compressor starting/stopping
- Second Pressure Setting
- Integrated Cooling and Dryer Control
- Fault History Log – for in-depth analysis
- Remote Control via Programmable Inputs
- Auto Restart after Power Failure
- Optional Base Load Sequencing
- SD Card – stores several run characteristics

Eliminating all Risks

Protect your investment and minimise downtimes with the 5-year extended warranty and with the Industry 4.0 Solution iConn.

OUTSTANDING EFFICIENCY

FM RS flexiAIR

Variable Speed Technology

Allows substantial energy savings
of at least 25% of the energy cost

iConn Industry 4.0 Option

The controller Pilot TS has the possibility to connect with iConn monitoring device.

iConn is the smart, proactive real-time monitoring service that delivers in-depth and real-time knowledge on the system to our compressed air users. It enables accurate production planning and total peace-of-mind protection. iConn keeps users informed on performance, at the same time highlighting potential issues before they become a problem.

- Condition based monitoring
- Predictive maintenance required
- Full Air Manufacturing Control Optimisation
- External data pattern integration

iConn

Technical data

FM 90 – 132 Series Screw Compressors, Fixed Speed

Design: Oil flooded, Single stage rotary screw compressor, direct drive, star / delta starting
Pressure Range: 7.5 to 13 bar
Electric motor: 90 - 132kW - IE3

FM SERIES	TYPE	FM90			FM110			FM132		
CODE		A34905437	A34905438	Configurator FM9013	A34905440	A34905441	Configurator FM11013	A34905443	A34905444	Configurator FM13213
	REC	FLOOR	FLOOR	FLOOR	FLOOR	FLOOR	FLOOR	FLOOR	FLOOR	FLOOR
Max. Pressure	bar	7.5	10	13	7.5	10	13	7.5	10	13
	PSI	109	145	188	109	145	188	109	145	188
	CFM	641.32	547.74	477.46	762.80	665.69	581.64	875.46	759.63	660.39
Capacity at working pressure	m^3/min	18.16	15.51	13.52	21.60	18.85	16.47	24.79	21.51	18.70
Drive Motor IP55 / Class IE3	kW	90	90	90	110	110	110	132	132	132
	HP	125	125	125	150	150	150	180	180	180
Operating Voltage, 50 Hz	400 V	•	•	•	•	•	•	•	•	•
Air Cooled		•	•	•	•	•	•	•	•	•
Noise Level	dB(A)	75	75	75	77	77	77	78	78	78
Weight	kg	2447			2532			2764		
Dimensions (LxWxH)	mm	2290 x 1327 x 2039			2290 x 1327 x 2039			2290 x 1327 x 2039		
Compressered Air Delivery Connection		EN 10226 R 2 1/2								

OPTIONAL
Alternative Voltage 380V/60Hz
Heat Recovery Integrated
Heat Recovery External
Heat Recovery Retro-fit Integrated
Heat Recovery Retro-fit External
Canopy Heater
Oil Thermostat 70°C
Food Grade Lubricant
Synthetic Oil
Water Separator + Drain
iConn Factory Fitted
iConn Retrofit kit NETT PRICE
Remote on-off
Filter Monitoring
Base Load Sequencing
Profibus
Potential free contact kit
Extended Warranty 5 years
SERVICE & PARTS
Service Kit for 4000h
Service Kit for 8000h

For 8000 Hrs Service both 4000 and 8000 Hrs kits must be purchased together

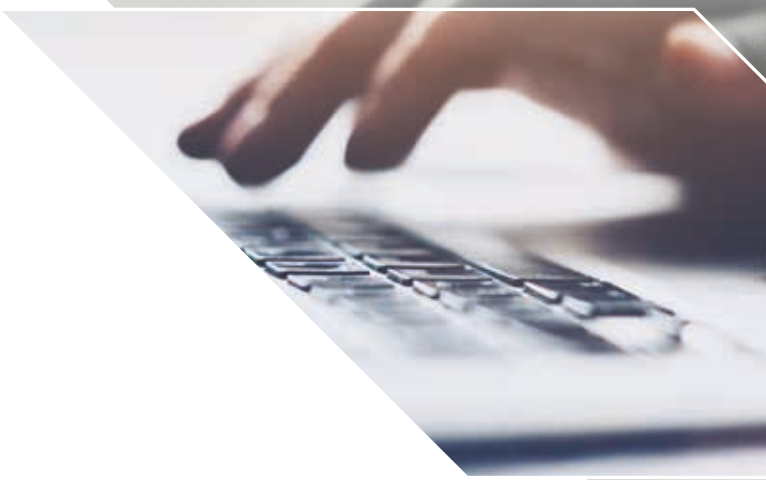
FM 90 – 132 RS Series Screw Compressors, Variable Speed

Design: Oil flooded, Single stage rotary screw compressor, direct drive, star / delta starting
Pressure Range: 5 to 13 bar
Electric motor: 90 - 132kW - IE3

FM SERIES CODE	TYPE	FM90RS A34905439	FM110RS A34905442	FM132RS A34905445
	REC	FLOOR	FLOOR	FLOOR
Max. Pressure	bar	5 - 13	5 - 13	5 - 13
	PSI	73 - 188	73 - 188	73 - 188
	CFM	185.76 - 641.32	186.76 - 759.63	187.76 - 874.40
Capacity at working pressure	m^3/min	5.26 - 18.16	5.26 - 21.51	5.26 - 24.76
Drive Motor IP55 / Class IE3	kW	90	110	132
	HP	125	150	180
Operating Voltage, 50 Hz	400 V	•	•	•
Air Cooled		•	•	•
Noise Level	dB(A)	74	75	76
Weight	kg	2579	2604	2655
Dimensions (LxWxH)	mm	2290 x 1327 x 2039		
Compressered Air Delivery Connection		EN 10226 R 2 1/2		

OPTIONAL	
Alternative Voltage 380V/60Hz	**CONFIG_VOLTAGE FM**
Heat Recovery Integrated	**CONFIG_HEAT_REC_INT FM**
Heat Recovery External	**CONFIG_HEAT_REC_EXT FM**
Heat Recovery Retro-fit Integrated	**ZS1196556**
Heat Recovery Retro-fit External	**ZS1196954**
Canopy Heater	**CONFIG_HEATER**
Food Grade Lubricant	**CONFIG_FOOD_GRADE_OIL FM**
Synthetic Oil	**CONFIG_SYNTHETIC_OIL FM**
Water Separator + Drain	**CONFIG_SEPARATOR FM**
iConn Factory Fitted	**CONFIG_iConn**
iConn Retrofit kit NETT PRICE	**ZS1184985**
Remote on-off	**CONFIG_REMOTE**
Filter Monitoring	**CONFIG_FILT_MON**
Base Load Sequencing	**CONFIG_BASE_LOAD**
Profibus	**CONFIG_PROF**
Potential free contact kit	**CONFIG_CONTACT_KIT**
Extended Warranty 5 years	**CC1180793**
SERVICE & PARTS	
Service Kit for 4000h	**SKFM90132-1-RS**
Service Kit for 8000h	**MKFM90132**

For 8000 Hrs Service both 4000 and 8000 Hrs kits must be purchased together



SEQUENCE MULTIPLE COMPRESSORS

- C-PRO 1+
- C-PRO 2
- PILOT TS


00.9
LOAD 13:03:00
LOCAL Ctr
Current Status 99%
FREQ Command 50.00Hz
Output FREQ 49.82Hz
Output CUR 010.2A
Output Speed 2931rpm
POWER
RUN
SHUTDOWN

SEQUENCE MULTIPLE COMPRESSORS

SEQUENCE MULTIPLE COMPRESSORS

All the Champion controllers offer extra communication modules that allow several units to talk to each other and optimise system efficiency. Our controllers allow the system to truly optimise efficiency as they recognise the capabilities of other machines and their operation.

Depending on the controller and the type of the machine there are the following options :

UNITS TO SEQUENCE	QTY	FIXED SPEED ONLY				VARIABLE SPEED ONLY
		1-2	1-3	1-4	1-12	
Fixed Speed with C- Pro 1.0+ controller	ID number	211759A	CC1094891	ZS1071505	ZS1060135	—
	Module	2U	3U	Connect 4	Connect 12	—

Variable and fixed speed compressors in a unique system with C-Pro 1.0, and/or C-Pro 2.0 and/or Pilot TS*	UNITS / QTY	1-12 FIXED & VARIABLE SPEED
	ID number	ZS1060135
	Module	Connect 12

Fixed speed compressors in a unique system with C-PRO 2.0 - FM series	UNITS / QTY	SEQUENCE 1-8 FIXED SPEED COMPRESSORS OR 1-7 FIXED SPEED & 1 VARIABLE SPEED
	ID number	Standard module - included in C-PRO 2.0
	Module	—

*Additional module needed when C-Pro 2.0 is being connected with Connect 12

Notes

PISTON COMPRESSORS

1.5 - 15 kW

- Coaxial version, single phase
- Belt driven, with canopy version
- Belt driven, three phase
- Pressure range 8 - 15 bar
- Electric motor 1.5 kW - 15 kW
- Voltage 230V & 400V


CHAMPION
CHAMPION
CHAMPION
CHAMPION

RELIABLE, STRONG SUITABLE FOR PROFESSIONAL USES

At a glance…

Nominal Pressure
8 - 15 bar g

Motor Power
1,5 - 15 kW

Volume Flow
190 - 3030 l/min
6.7 - 106.4 cfm

Power Sound level
68 - 82 dB(A)

Our company has always been associated with long-lasting high-quality products.

This range of piston compressors includes:

- Single-cylinder single-stage with direct transmission for small power outputs suitable for semi-professional uses
- Two-cylinder, single-stage with belt transmission for use in workshops
- Two-cylinder, two-stage with belt transmission for industrial use

Choosing the two-stage model will guarantee lower working temperatures thanks to a cooling manifold between the first and the second compression stage and consequently a higher air delivery. This is achieved by dividing the compression phase into two stages (two cylinders with different volumes).

Other important characteristics that distinguish this range of compressors are:

- Low number of RPM of the pumping unit
- Low noise level
- Correct ratio between the size of the unit, motor power and tank capacity

Base Series

This range of lubricated direct drive compressors are ideal for hobby and semi-professional applications. Choose from a power range of 1.5 to 3 HP with receiver capacities ranging from 3 to 100 litres and working pressures up to 9 Bar.

Line Series

This range of belt driven lubricated compressors for semi-professional, professional and light industrial use. The series is entirely manufactured in the EU and is available in power range 2 to 20 HP with tank capacity ranging from 25 to 900 litres and pressures up to 11 Bar.

Pro Series

This range is a comprehensive range of belt driven lubricated compressors for professional and industrial use. The series is manufactured in the EU and is defined by superior longevity and high construction quality. Available in power range of 2 to 30 HP with tank capacity ranging from 25 to 900 litres and pressures up to 11 Bar.

Advanced Series

This range offers the best in class option to satisfy the demand of professional and industrial applications. The series represents the best in range and stands out in terms of strong assembly, innovative technical solutions and excellence in detail and design. Power range from 2 to 30 HP with tank capacity ranging from 22 to 900 litres and pressures up to 15 Bar.

Engine Series

A comprehensive range of Honda petrol engine driven lubricated compressors incorporating the cast iron pump unit. Made in the EU with power ranges from 4 to 9 HP and tank capacities of 22 to 270 litres and pressures up to 10 Bar.

Silenced Series

This series of silenced belt driven lubricated compressors are designed to meet the needs of professional and industrial applications where low noise levels are critical. Available in a power range of 5.5 to 15 HP and working pressures up to 11 Bar with or without a refrigerated dryer

Choose the RIGHT solution

Direct Drive Aluminium Pump

- Simple utilisation
- Oil flutter lubrication
- Cast iron cylinders
- Aluminium piston with 3 rings
- Special inox steel valves
- High efficient ventilation

Belt Driven Cast Aluminium Pump

- Superior volumetric efficiency
- Aluminium finned cylinders with cast iron liners
- Fast dissipation of heat through the use after coolers
- High air flow flywheels
- Oil sight glass

Belt Driven Cast Iron Cylinder Pump

- Superior volumetric efficiency
- Cast iron cylinders for longer life
- Fast dissipation of heat through the use after coolers
- High air flow flywheels
- Oil sight glass

BASE, LINE, PRO & ADVANCED SERIES

Base plate compressors

A range of base plate and base mounted lubricated belt driven compressor. Available in Line, Pro and Advance series variants.

Engine driven compressors

The range of engine driven compressors has been developed to offer portable compressed air powered by a Honda petrol engine. Where the need for total mobility is essential these robust, heavy-duty construction, low power consumption air compressor are ideal. Available in highly portable versions these compressors are ideal for commercial, automotive and agricultural applications. Features include self-adjusting acceleration function, easy start-up, cast iron cylinder pump units and rear rubber and front swivel wheels.

Lubricated compressors

Pumping units with cast iron lined and cast iron cylinders, provide excellent wear resistance guaranteeing a long working life and very high reliability. They are suitable for heavy-duty use and are an ideal work tool for professionals and craftsmen. Some vertical models are also available for applications requiring a small footprint.

Silent compressors

Have been developed to satisfy market demand for compressors that are silenced, reliable, economic and easy to maintain. This new series has been designed to provide the user with a highly reliable product and an excellent price/quality ratio. They are available on a base or on a tank and with an integrated dryer.

Principal characteristics

- High noise reduction
- Forced ventilation
- Integrated control panel (if star-delta start, with electronic board)
- Pumping unit with cast-iron cylinder for a long working life
- Finned manifold for air cooling
- Silencer on suction
- Robust steel guards to added protection (Advanced Series)
- Full accessibility of mechanical parts
- Versions on tank with two fixed rear wheels, two front swivel wheels and a convenient handle for easy transport

 All capacities quoted are piston displacement

Technical data

Direct Drive Piston Compressors
Single Phase Oil Free

Design: Direct drive, single phase
Pressure Range: 8 bar
Electric motor: 1.1kW
Voltage: 230V / 50Hz

MODEL	SERIES	START	VOLT	m^3/min	CFM	KW	HP	RPM	BAR	PSI	TANK	LWA	DIMENSIONS	KG	CODE
CB-OF-6-CF15	C-Base	DOL	230	0.12	4.1	1.1	1.5	3400	8	116	6	97	320x350x310	8	**CC55906039NC**

Direct Drive Piston Compressors
Single Phase Lubricated

Design: Direct drive, single phase
Pressure Range: 8 - 9 bar
Electric motor: 1.1 to 2.2kW
Voltage: 230V / 50Hz

MODEL	SERIES	START	VOLT	m^3/min	CFM	KW	HP	RPM	BAR	PSI	TANK	LWA	DIMENSIONS	KG	CODE
CB-3-CF2	C-Base	DOL	230	0.19	6.7	1.5	2	2850	8	116	3	90	470x360x530	19	**CC55899017NC**
CB-24-CM2	C-Base	DOL	230	0.19	6.7	1.5	2	2850	8	116	24	90	610x270x600	25	**CC55898878NC**
CB-50-CM2	C-Base	DOL	230	0.19	6.7	1.5	2	2850	8	116	50	90	850x330x720	34	**CC55898969NC**
CB-100-CM2	C-Base	DOL	230	0.19	6.7	1.5	2	2850	8	116	100	90	1000x400x800	44	**CC55899249NC**
CB-24-CM25	C-Base	DOL	230	0.24	8.4	1.8	2.5	2850	9	130	24	95	610x280x630	28	**CC55900391NC**
CB-50-CM25	C-Base	DOL	230	0.24	8.4	1.8	2.5	2850	9	130	50	95	850x330x720	37	**CC55899660NC**
CB-100-CM25	C-Base	DOL	230	0.24	8.4	1.8	2.5	2850	9	130	100	95	1000x400x800	47	**CC55899678NC**
CB-24-WB3	C-Base	DOL	230	0.34	12	2.2	3	2850	9	130	24	95	600x440x750	34	**CC55900383NC**
CB-50-CM3	C-Base	DOL	230	0.34	12	2.2	3	2850	9	130	50	95	850x330x720	43	**CC55899041NC**
CB-100-CM3	C-Base	DOL	230	0.34	12	2.2	3	2850	9	130	100	95	1000x400x800	52	**CC55899058NC**
CB-50V-CM3	C-Base	DOL	230	0.34	12	2.2	3	2850	9	130	50V	95	550x630x1030	42	**CC55900399NC**

Belt Driven Single Stage Compressors
Single & Three Phase Lubricated

Design: Belt Driven, single & three phase
Pressure Range: 10 bar
Electric motor: 1.5 to 2.2 kW
Voltage: 230-400V / 50Hz

MODEL	SERIES	START	VOLT	m³/min	CFM	KW	HP	RPM	BAR	PSI	TANK	LWA	DIMENSIONS	KG	CODE
CL28B-25-CM2	C-Line	DOL	230	0.25	8.9	1.5	2	1400	10	145	25	91	770x350x690	38	CC97242549NC
CP28B-25-CM2	C-Pro	DOL	230	0.25	8.9	1.5	2	1400	10	145	25	95	770x350x590	40	CC55895072NC
CL28-50-CM2	C-Line	DOL	230	0.25	8.9	1.5	2	1400	10	145	50	91	850x380x730	39	CC55901999NC
CP28B-50-CM2	C-Pro	DOL	230	0.25	8.9	1.5	2	1400	10	145	50	95	850x380x730	43	CC55894984NC
CL28-100-CM2	C-Line	DOL	230	0.25	8.9	1.5	2	1400	10	145	100	91	1000x400x800	51	CC55902007NC
CP28-100-CM2	C-Pro	DOL	230	0.25	8.9	1.5	2	1400	10	145	100	95	1000x400x800	53	CC55902391NC
CL28-150-CM2	C-Line	DOL	230	0.25	8.9	1.5	2	1400	10	145	150	91	1320x450x920	69	CC55903919NC
CP28-150-CM2	C-Pro	DOL	230	0.25	8.9	1.5	2	1400	10	145	150	95	1320x450x920	71	CC55903999NC
CP28B-50-CM3	C-Pro	DOL	230	0.29	10.4	2.2	3	1620	10	145	50	95	850x380x730	45	CC55900015NC
CA28B-50-CM3	C-Advanced	DOL	230	0.29	10.4	2.2	3	1620	10	145	50	95	850x380x730	47	CC55901127NC
CL28-100-CM3	C-Line	DOL	230	0.29	10.4	2.2	3	1620	10	145	100	91	1000x400x800	54	CC55903143NC
CL28-100-CT3	C-Line	DOL	400	0.29	10.4	2.2	3	1620	10	145	100	91	1000x400x800	54	CC55903647NC
CP28B-100-CM3	C-Pro	DOL	230	0.29	10.4	2.2	3	1620	10	145	100	95	1080x400x800	60	CC55900023NC
CA28B-100-CM3	C-Advanced	DOL	230	0.29	10.4	2.2	3	1620	10	145	100	95	1080x400x800	62	CC55901135NC
CL28-150-CM3	C-Line	DOL	230	0.29	10.4	2.2	3	1620	10	145	150	91	1320x450x920	72	CC55903959NC
CL28-150-CT3	C-Line	DOL	400	0.29	10.4	2.2	3	1620	10	145	150	91	1320x450x920	72	CC55903975NC
CP28B-150-CM3	C-Pro	DOL	230	0.29	10.4	2.2	3	1620	10	145	150	95	1320x450x920	75	CC55900031NC
CA28B-150-CM3	C-Advanced	DOL	230	0.29	10.4	2.2	3	1620	10	145	150	95	1320x450x920	77	CC55901143NC
CA28B-150-CT3	C-Advanced	DOL	400	0.29	10.4	2.2	3	1620	10	145	150	95	1320x450x920	77	CC55901175NC
CP3-100-CT3	C-Pro	DOL	400	0.31	11.1	2.2	3	1400	10	145	100	92	1080x410x850	63	CC55895171NC
CA3-150-CM3	C-Advanced	DOL	230	0.31	11.1	2.2	3	1400	10	145	150	92	1320x450x920	80	CC55901207NC
CA3-150-CT3	C-Advanced	DOL	400	0.31	11.1	2.2	3	1400	10	145	150	92	1320x450x920	80	CC55901247NC
CL28-200-CT3	C-Line	DOL	400	0.29	10.4	2.2	3	1620	10	145	200	91	1450x460x940	87	CC55903983NC
CL28B-200-FM3	C-Line	DOL	230	0.29	10.4	2.2	3	1620	10	145	200	91	1450x460x940	88	CC55879902NC
CP28B-200-CM3	C-Pro	DOL	230	0.29	10.4	2.2	3	1620	10	145	200	95	1450x460x940	90	CC55900039NC
CP3-200-CM3	C-Pro	DOL	230	0.31	11.1	2.2	3	1400	10	145	200	92	1450x460x940	93	CC55894653NC
CP3-200-CT3	C-Pro	DOL	400	0.31	11.1	2.2	3	1400	10	145	200	92	1450x460x940	93	CC55895213NC
CA28B-200-CM3	C-Advanced	DOL	230	0.29	10.4	2.2	3	1620	10	145	200	95	1450x460x940	92	CC55901151NC
CA28B-200-CT3	C-Advanced	DOL	400	0.29	10.4	2.2	3	1620	10	145	200	95	1450x460x940	92	CC55901183NC
CA3-200-CM3	C-Advanced	DOL	230	0.31	11.1	2.2	3	1400	10	145	200	92	1450x460x940	95	CC55901215NC
CA3-200-CT3	C-Advanced	DOL	400	0.31	11.1	2.2	3	1400	10	145	200	92	1450x460x940	95	CC55901255NC
CL28B-270-CM3	C-Line	DOL	230	0.29	10.4	2.2	3	1620	10	145	270	91	1550x570x1120	106	CC55900247NC
CL3-270-CT3	C-Line	DOL	400	0.31	11.1	2.2	3	1400	10	145	270	92	1550x570x1120	108	CC55896393NC
CP3-270-CM3	C-Pro	DOL	230	0.31	11.1	2.2	3	1400	10	145	270	92	1550x570x1120	111	CC55896419NC
CP3-270-CT3	C-Pro	DOL	400	0.31	11.1	2.2	3	1400	10	145	270	92	1550x570x1120	111	CC55896427NC
CL4-270-FM3	C-Line	DOL	230	0.42	14.9	2.2	3	1100	10	145	270	95	1550x570x1120	114	CC55904199NC
CP4-270-FT3	C-Pro	DOL	400	0.42	14.9	2.2	3	1100	10	145	270	97	1550x570x1120	114	CC55901975NC
CA4-270-FT3	C-Advanced	DOL	400	0.42	14.9	2.2	3	1100	10	145	270	97	1550x570x1120	116	CC55900887NC

Belt Driven Two Stage Compressors
Three Phase Lubricated

Design: Belt driven, three phase
Pressure Range: 10 - 11 bar
Electric motor: 3 to 11 kW
Voltage: 400V / 50Hz

MODEL	SERIES	START	VOLT	m^3/min	CFM	KW	HP	RPM	BAR	PSI	TANK	LWA	DIMENSIONS	KG	CODE
CL4-200-FT4	C-Line	DOL	400	0.54	19.1	3	4	1400	10	145	200	95	1450x500x1070	96	**CC97242564NC**
CP4-200-FT4	C-Pro	DOL	400	0.54	19.1	3	4	1400	10	145	200	97	1450x500x1070	100	**CC55895270NC**
CP4-200-CT4	C-Pro	DOL	400	0.54	19.1	3	4	1400	10	145	200	97	1450x500x1070	102	**CC55895056NC**
CA4-200-FT4	C-Advanced	DOL	400	0.54	19.1	3	4	1400	10	145	200	97	1450x500x1070	102	**CC55901295NC**
CL4-270-CT4	C-Line	DOL	400	0.54	19.1	3	4	1400	10	145	270	95	1550x570x1120	116	**CC55876015NC**
CL4-270-FT4	C-Line	DOL	400	0.54	19.1	3	4	1400	10	145	270	95	1550x570x1120	113	**CC97239214NC**
CP4-270-CT4	C-Pro	DOL	400	0.54	19.1	3	4	1400	10	145	270	97	1550x570x1120	120	**CC55895296NC**
CL5-200-CT55	C-Line	DOL	400	0.61	21.4	4	5.5	1400	11	159	200	95	1550x570x1200	139	**CC55876023NC**
CL5-200-FT55	C-Line	DOL	400	0.61	21.4	4	5.5	1400	11	159	200	95	1450x500x1070	119	**CC55896054NC**
CP5-200-FT55	C-Pro	DOL	400	0.61	21.4	4	5.5	1400	11	159	200	97	1450x500x1070	124	**CC55895346NC**
CP5-200-CT55	C-Pro	DOL	400	0.61	21.4	4	5.5	1400	11	159	200	97	1450x500x1070	126	**CC55895320NC**
CA5-200-FT55	C-Advanced	DOL	400	0.61	21.4	4	5.5	1400	11	159	200	97	1450x500x1070	126	**CC55901335NC**
CL5-270-CT55	C-Line	DOL	400	0.61	21.4	4	5.5	1400	11	159	270	95	1550x570x1200	139	**CC55876023NC**
CL5-500-FT55	C-Line	DOL	400	0.61	21.4	4	5.5	1400	11	159	500	95	2030x680x1310	205	**CC97247704NC**
CA5-500-FT55 SDS	C-Advanced	SDS	400	0.61	21.4	5.5	7.5	1400	11	159	500	97	2030x680x1310	235	**CC55904991NC**
CA6-270-CT55	C-Advanced	DOL	400	0.61	21.4	5.5	7.5	1400	11	159	270	97	2030x680x1310	218	**CC55901359NC**
CA6-270-FT55	C-Advanced	DOL	400	0.66	23.2	4	5.5	1150	11	159	270	97	1550x570x1200	143	**CC55901391NC**
CL6-200-FT75	C-Line	DOL	400	0.80	28.2	5.5	7.5	1400	11	159	200	95	1450x500x1070	126	**CC55897441NC**
CP6-200-FT75	C-Pro	DOL	400	0.80	28.2	5.5	7.5	1400	11	159	200	97	1450x500x1070	131	**CC55904735NC**
CA6-200-FT75	C-Advanced	DOL	400	0.80	28.2	5.5	7.5	1400	11	159	200	97	1450x500x1070	132	**CC55904743NC**
CL6-270-FT75	C-Line	DOL	400	0.80	28.2	5.5	7.5	1400	11	159	270	95	1550x570x1200	143	**CC97239230NC**
CP6-270-FT75	C-Pro	DOL	400	0.80	28.2	5.5	7.5	1400	11	159	270	97	1550x570x1200	148	**CC55895601NC**
CP6-500-CT75	C-Pro	DOL	400	0.80	28.2	5.5	7.5	1400	11	159	500	97	2030x680x1310	222	**CC55895627NC**
CA6-270-CT75	C-Advanced	DOL	400	0.80	28.2	5.5	7.5	1400	11	159	270	97	1550x570x1200	153	**CC55901375NC**
CL5-500-FT75	C-Line	DOL	400	0.61	21.4	5.5	7.5	1400	11	159	500	95	2030x680x1310	211	**CC55904943NC**
CL10-270-FT10	C-Line	DOL	400	1.25	44.1	7.5	10	1320	11	159	270	97	1550x570x1200	166	**CC55896245NC**
CL10-270-FT10 SDS	C-Line	SDS	400	1.25	44.1	7.5	10	1320	11	159	270	97	1550x570x1200	166	**CC55904223NC**
CP10-270-FT10	C-Pro	DOL	400	1.25	44.1	7.5	10	1320	11	159	270	97	1550x570x1200	176	**CC55895700NC**
CP10-270-FT10 SDS	C-Pro	SDS	400	1.25	44.1	7.5	10	1320	11	159	270	97	1550x570x1200	193	**CC55897466NC**
CL10-500-FT10	C-Line	DOL	400	1.25	44.1	7.5	10	1320	11	159	500	97	2030x680x1310	236	**CC55880223NC**
CA6-500-FT10	C-Advanced	DOL	400	0.80	28.2	7.5	10	1400	11	159	500	97	2030x680x1310	234	**CC55905023NC**
CL10-900-FT10	C-Line	DOL	400	1.25	44.1	7.5	10	1320	11	159	900	97	2120x900x1580	326	**CC55900407NC**
CA15-500-FT155	C-Advanced	DOL	400	1.51	53.2	11	15	1320	11	159	500	97	2030x680x1310	258	**CC55895759NC**
CA15-500-FT155 SDS	C-Advanced	SDS	400	1.51	53.2	11	15	1320	11	159	500	97	2030x680x1310	275	**CC55897821NC**
CA15-900-FT155	C-Advanced	DOL	400	1.51	53.2	11	15	1320	11	159	900	97	2120x900x1580	348	**CC55895575NC**
CA15-900-FT155 SDS	C-Advanced	SDS	400	1.51	53.2	11	15	1320	11	159	900	97	2120x900x1580	365	**CC55900735NC**

Belt Driven Tandem Compressors
Single & Three Phase Lubricated

Design: Belt Driven, single & three phase
Pressure Range: 11 bar
Electric motor: 4.4 to 22 kW
Voltage: 230-400V / 50Hz

MODEL	SERIES	START	VOLT	m³/min	CFM	KW	HP	RPM	BAR	PSI	TANK	LWA	DIMENSIONS	KG	CODE
CL4-300-FM3 TD	C-Line	DOL	230	0.85	29.9	2.2 + 2.2	3 + 3	1100	11	159	300	95	1700x570x1120	150	**CC55904703NC**
CP4-300-FM3 TD	C-Pro	DOL	230	0.85	29.9	2.2 + 2.2	3 + 3	1400	11	159	300	95	1700x570x1120	160	**CC55904383NC**
CA4-300-FT4 TD	C-Advanced	DOL	400	1.08	38.3	3 + 3	4 + 4	1400	11	159	300	95	1700x570x1120	164	**CC55904727NC**
CL5-500-FT55 TD	C-Line	DOL	400	1.20	42.5	4 + 4	5.5 + 5.5	1400	11	159	500	95	2030x680x1310	270	**CC55883656NC**
CP5-500-FT55 TD	C-Pro	DOL	400	1.20	42.5	4 + 4	5.5 + 5.5	1400	11	159	500	97	2030x680x1310	280	**CC55895809NC**
CA5-500-FT55 TD	C-Advanced	DOL	400	1.20	42.5	4 + 4	5.5 + 5.5	1400	11	159	500	97	2030x680x1310	284	**CC55901463NC**
CL6-500-FT75 TD	C-Line	DOL	400	1.60	56.4	5.5 + 5.5	7.5 + 7.5	1400	11	159	500	95	2030x680x1310	290	**CC55876080NC**
CP6-500-FT75 TD	C-Pro	DOL	400	1.60	56.4	5.5 + 5.5	7.5 + 7.5	1400	11	159	500	97	2030x680x1310	300	**CC55895841NC**
CA6-500-FT75 TD	C-Advanced	DOL	400	1.60	56.4	5.5 + 5.5	7.5 + 7.5	1400	11	159	500	97	2030x680x1310	304	**CC55890147NC**
CL6-900-FT75 TD	C-Line	DOL	400	1.60	56.4	5.5 + 5.5	7.5 + 7.5	1400	11	159	900	95	2120x900x1580	380	**CC97241772NC**
CP6-900-FT75 TD	C-Pro	DOL	400	1.60	56.4	5.5 + 5.5	7.5 + 7.5	1400	11	159	900	97	2120x900x1580	390	**CC55895866NC**
CA6-900-FT75 TD	C-Advanced	DOL	400	1.60	56.4	5.5 + 5.5	7.5 + 7.5	1400	11	159	900	97	2120x900x1580	394	**CC55901479NC**
CA10-500-FT10 TD	C-Advanced	DOL	400	2.49	88.1	7.5 + 7.5	10 + 10	1320	11	159	500	97	2030x680x1310	361	**CC55895882NC**
CL10-900-FT10 TD	C-Line	DOL	400	2.49	88.1	7.5 + 7.5	10 + 10	1320	11	159	900	97	2120x900x1580	431	**CC97241780NC**
CA10-900-FT10 TD	C-Advanced	DOL	400	2.49	88.1	7.5 + 7.5	10 + 10	1320	11	159	900	97	2120x900x1580	451	**CC55895890NC**
CP15-900-FT155 TD	C-Pro	DOL	400	3.01	106.4	11 + 11	15 + 15	1320	11	159	900	97	2120x900x1580	475	**CC55895916NC**

Belt Driven Vertical Receiver Compressors
Single & Three Phase Lubricated

Design: Belt Driven, single & three phase
Pressure Range: 10 - 11 bar
Electric motor: 2.2 to 7.5 kW
Voltage: 230-400V / 50Hz

MODEL	SERIES	START	VOLT	m³/min	CFM	KW	HP	RPM	BAR	PSI	TANK	LWA	DIMENSIONS	KG	CODE
CA3-150V-FM3	C-Advanced	DOL	230	0.31	11.1	2.2	3	1400	10	145	150V	92	770x560x1690	90	**CC55901923NC**
CA3-150V-FT3	C-Advanced	DOL	400	0.31	11.1	2.2	3	1400	10	145	150V	92	770x560x1690	90	**CC55901431NC**
CA4-150V-FT4	C-Advanced	DOL	400	0.54	19.1	3	4	1400	10	145	150V	97	770x560x1690	99	**CC55901439NC**
CA5-270V-FT55	C-Advanced	DOL	400	0.61	21.4	4	5.5	1400	11	159	270V	97	900x630x1950	151	**CC55901447NC**
CA6-270V-FT75	C-Advanced	DOL	400	0.80	28.2	5.5	7.5	1400	11	159	270V	97	900x630x1950	158	**CC55901455NC**
CA10-270V-FT10 SDS	C-Advanced	SDS	400	1.25	44.1	7.5	10	1320	11	159	270V	97	900x630x1950	201	**CC55900863NC**

Belt Driven Base Mounted Compressors
Single Phase Lubricated

Design: Belt Driven, single & three phase
Pressure Range: 10 - 11 bar
Electric motor: 1.5 to 11 kW
Voltage: 230-400V / 50Hz

MODEL	SERIES	START	VOLT	m³/min	CFM	KW	HP	RPM	BAR	PSI	TANK	LWA	DIMENSIONS	KG	CODE
CA28B-BP-FM2	C-Advanced	DOL	230	0.25	8.9	1.5	2	1400	10	145	Base Plate	95	700x360x400	27	**CC55901487NC**
CA3-BP-FM3	C-Advanced	DOL	230	0.31	11.1	2.2	3	1400	10	145	Base Plate	92	700x400x480	32	**CC55901495NC**
CA3-BP-FT3	C-Advanced	DOL	400	0.31	11.1	2.2	3	1400	10	145	Base Plate	92	700x400x480	32	**CC55901511NC**
CA4-BP-FT4	C-Advanced	DOL	400	0.54	19.1	3	4	1400	10	145	Base Plate	97	840x420x520	40	**CC55901519NC**
CA5-BP-FT55	C-Advanced	DOL	400	0.61	21.4	4	5.5	1400	11	159	Base Plate	97	1050x550x650	70	**CC55901527NC**
CP5-BM-FT75	C-Pro	DOL	400	0.80	28.2	5.5	7.5	1400	11	159	Base Mount	97	1050x550x650	81	**CC55900439NC**
CA6-BP-FT75	C-Advanced	DOL	400	0.80	28.2	5.5	7.5	1400	11	159	Base Plate	97	1050x550x650	78	**CC55901535NC**
CA6-BM-FT75	C-Advanced	DOL	400	0.80	28.2	5.5	7.5	1400	11	159	Base Mount	97	1050x550x650	83	**CC55901543NC**
CP10-BP-FT10	C-Pro	DOL	400	1.25	44.1	7.5	10	1320	11	159	Base Plate	97	1050x550x650	104	**CC55896351NC**
CP10-BM-FT10	C-Pro	DOL	400	1.25	44.1	7.5	10	1320	11	159	Base Mount	97	1050x550x650	109	**CC55900447NC**
CP15-BP-FT155	C-Pro	DOL	400	1.51	53.2	11	15	1320	11	159	Base Mount	97	1050x550x650	116	**CC55900455NC**
CA15-BP-FT155	C-Advanced	DOL	400	1.51	53.2	11	15	1320	11	159	Base Plate	97	1050x550x650	116	**CC55896369NC**

Belt Driven 15 Bar Compressors
Three Phase Lubricated

Design: Belt Driven, three phase
Pressure Range: 15 bar
Electric motor: 4 to 5.5 kW
Voltage: 400V / 50Hz

MODEL	SERIES	START	VOLT	m³/min	CFM	KW	HP	RPM	BAR	PSI	TANK	LWA	DIMENSIONS	KG	CODE
CA5-270-15-FT55	C-Advanced	DOL	400	0.43	15.3	4	5.5	1000	15	218	270	97	1550x570x1200	143	**CC55904303NC**
CA6-270-15-FT75	C-Advanced	DOL	400	0.57	20.1	5.5	7.5	1000	15	218	270	97	1550x570x1200	150	**CC55903639NC**
CA10-500-15-FT10	C-Advanced	DOL	400	0.94	33.3	7.5	10	1000	15	218	500	97	2030x680x1310	246	**CC55900431NC**
CA10-500-15-FT10 SDS	C-Advanced	SDS	400	0.94	33.3	7.5	10	1000	15	218	500	97	2030x680x1310	263	**CC55900847NC**
CA10-BM-15-FT10	C-Advanced	DOL	400	0.94	33.3	7.5	10	1400	15	218	Base Mount	97	1050x550x650	109	**CC55901767NC**
CA15-500-15-FT155 SDS	C-Advanced	SDS	400	1.14	40.3	11	15	1000	15	218	500	97	2030x680x1310	275	**CC55900839NC**
CS10-15-FT75	C-Silenced	DOL	400	0.57	20.2	5.5	7.5	1400	15	218	Floor	90	960x660x800	165	**CC55905063NC**
CS6-500-15-FT75 SDS	C-Silenced	SDS	400	0.57	20.2	5.5	7.5	1400	15	218	500	90	2120x900x1580	289	**CC55905039NC**

Belt Driven Engine Driven Compressors
Honda Petrol

Design: Belt Driven, portable
Pressure Range: 10 bar
Engine: 4 to 9 HP

MODEL	SERIES	START	VOLT	m³/min	CFM	KW	HP	RPM	BAR	PSI	TANK	LWA	DIMENSIONS	KG	CODE
CA3-11+11-C4	C-Engine	-	Honda	0.30	10.5	3	4	1310	10	145	11+11	97	750x700x700	63	**CC55900463NC**
CA4-100-C55	C-Engine	-	Honda	0.42	14.9	4	5.5	1100	10	145	100	97	1080X400X800	82	**CC55900495NC**
CA4-150-C55	C-Engine	-	Honda	0.42	14.9	4	5.5	1100	10	145	150	97	1320x500x1030	97	**CC55904207NC**
CA4-200-C55	C-Engine	-	Honda	0.42	14.9	4	5.5	1100	10	145	200	97	1450x500x1070	107	**CC55900519NC**
CA5-270-C9	C-Engine	-	Honda	0.56	19.7	7.1	9	1300	10	145	270	97	1550X570X1200	160	**CC55900503NC**
CA6-270-C9	C-Engine	-	Honda	0.68	24.1	7.1	9	1200	10	145	270	97	1550X570X1200	165	**CC55900511NC**

Belt Driven Silenced Compressors
Single & Three Phase Lubricated

Design: Belt Driven, single & three phase
Pressure Range: 10 - 11 bar
Electric motor: 2.2 to 11 kW
Voltage: 230-400V / 50Hz

MODEL	SERIES	START	VOLT	m³/min	CFM	KW	HP	RPM	BAR	PSI	TANK	LWA	DIMENSIONS	KG	CODE
CS3-24-FM3	C-Silenced	DOL	230	0.31	11.1	2.2	3	1400	10	145	24	62	840x600x1140	104	**CC55903823NC**
CS3-24-FT3	C-Silenced	DOL	400	0.31	11.1	2.2	3	1400	10	145	24	62	840x600x1140	104	**CC55903831NC**
CS3-200-CM3	C-Silenced	DOL	230	0.31	11.1	2.2	3	1400	11	159	200	62	1550x750x1510	154	**CC55904623NC**
CS3-200-FT3	C-Silenced	DOL	400	0.31	11.1	2.2	3	1400	11	159	200	62	1550x750x1510	152	**CC55904647NC**
CS4-FT4	C-Silenced	DOL	400	0.54	19.1	3	4	1400	10	145	Floor	68	840x640x910	112	**CC55901631NC**
CS4-200-FT4	C-Silenced	DOL	400	0.54	19.1	3	4	1400	11	159	200	68	1550x750x1510	160	**CC55904671NC**
CS5-270-FT55	C-Silenced	DOL	400	0.61	21.4	4	5.5	1400	11	159	270	70	1550x750x1510	225	**CC97254197NC**
CS6-FT55	C-Silenced	DOL	400	0.66	23.2	4	5.5	1150	11	159	Floor	70	960x660x800	153	**CC55903839NC**
CS6-270-FT55	C-Silenced	DOL	400	0.66	23.2	4	5.5	1150	11	159	270	70	1550x750x1510	228	**CC55903847NC**
CS6-FT75	C-Silenced	DOL	400	0.80	28.2	5.5	7.5	1400	11	159	Floor	70	960x660x800	165	**CC97249528NC**
CS6-270-FT75	C-Silenced	DOL	400	0.80	28.2	5.5	7.5	1400	11	159	270	70	1550x750x1510	240	**CC97249502NC**
CS10-FT10	C-Silenced	DOL	400	1.25	44.1	7.5	10	1320	11	159	Floor	72	1040x740x870	190	**CC97249536NC**
CS10-FT10 SDS	C-Silenced	SDS	400	1.25	44.1	7.5	10	1320	11	159	Floor	72	1040x740x870	194	**CC97249593NC**
CS10-500-FT10	C-Silenced	DOL	400	1.25	44.1	7.5	10	1320	11	159	500	72	2120x900x1580	310	**CC97249569NC**
CS10-500-FT10 SDS	C-Silenced	SDS	400	1.25	44.1	7.5	10	1320	11	159	500	72	2120x900x1580	314	**CC97249627NC**
CS15-FT155	C-Silenced	DOL	400	1.51	53.2	11	15	1320	11	159	Floor	72	1040x740x870	200	**CC97249478NC**
CS15-FT155 SDS	C-Silenced	SDS	400	1.51	53.2	11	15	1320	11	159	Floor	72	1040x740x870	204	**CC97249486NC**
CS15-500-FT155	C-Silenced	DOL	400	1.51	53.2	11	15	1320	11	159	500	72	2120x900x1580	320	**CC97249635NC**
CS15-500-FT155 SDS	C-Silenced	SDS	400	1.51	53.2	11	15	1320	11	159	500	72	2120x900x1580	324	**CC97249494NC**

Belt Driven Silenced Compressors + Refrigerated Dryer
Three Phase Lubricated

Design: Belt Driven, three phase
Pressure Range: 11 bar
Electric motor: 4 to 11 kW
Voltage: 400V / 50Hz

MODEL	SERIES	START	VOLT	m³/min	CFM	KW	HP	RPM	BAR	PSI	TANK	LWA	DIMENSIONS	KG	CODE
CS5-270-E-FT55	C-Silenced	DOL	400	0.61	21.4	4	5.5	1400	11	159	270	70	1550x750x1510	255	**CC55902263NC**
CS6-270-E-FT75	C-Silenced	DOL	400	0.80	28.2	5.5	7.5	1400	11	159	270	70	1550x750x1510	270	**CC55902367NC**
CS10-500-E-FT10	C-Silenced	DOL	400	1.25	44.1	7.5	10	1320	11	159	500	72	2120x900x1580	340	**CC55880181NC**
CS10-500-E-FT10 SDS	C-Silenced	SDS	400	1.25	44.1	7.5	10	1320	11	159	500	72	2120x900x1580	344	**CC97254213NC**
CS15-500-E-FT155	C-Silenced	DOL	400	1.51	53.2	11	15	1320	11	159	500	72	2120x900x1580	350	**CC55880165NC**
CS15-500-E-FT155 SDS	C-Silenced	SDS	400	1.51	53.2	11	15	1320	11	159	500	72	2120x900x1580	354	**CC55880157NC**

SERVICE KITS PISTON COMPRESSORS

C-Base, C-Line, C-Advanced, C-Pro, C-Engine series

MODEL RANGES	GASKET KIT CODE	VALVE PLATE KIT CODE	INTAKE FILTER CODE	NRV CODE
CA3 ; CL3 ; CS3	**CC55886980**	**CC91894881**	**CC55875132**	**CC55894513**
CA4 ; CP4 ; CS4	**CC92060037**	**CC97155576**	**CC55875132**	**CC55894513**
CA5 ; CL5	**CC55893648**	**CC55893622**	**CC55898936**	**CC55894521**
CA6; CP6 ; CS6	**CC97241376**	**CC97159594**	**CC55898936**	**CC55894521**
CA10 ; CL10 ; CP10 ; CS10	**CC55893655**	**CC55894133**	**CC55898936**	**CC55894521**
CA15 ; CP15 ; CS15	**CC55894224**	**CC55894141**	**CC55898936**	**CC55894521**
CA28 ; CL28 ; CP28	**CC97251615**	**CC91894881**	**CC55875140**	**CC97160634**
CB-100-CM2 CB-24-CM2 CB-3-CF2 CB-50-CM2	**CC55899108**	**CC55899090**	**CC55899132**	**CC97160634**
CB-100-CM3 CB-24-WB3 CB-50-CM3 CB-50V-CM3	**CC55899405**	**CC55899090**	**CC55899132**	**CC55904375**
CB-100-CM25 CB-24-CM25 CB-50-CM25		**CC55899090**	**CC55890079**	**CC97160634**
CB6			**CC55890087**	

Only the following lubricants are allowed to be used

- SAE40 - Viscosity 100

CM Portable Single Phase
CT Portable 3 Phase
FM Static Single Phase
FT Static 3 Phase
PM Carry Single Phase
CF Carry Frame Design
WB Wheel Barrow Design
BP Base Plate
BM Base Mount

SDS Start Delta Start
TD Tandem (Electric Cabinet)
E Refrigeratred Dryer

Champion have over 420 models in the range - contact the sales team for other variants

Optional SDS electric panel available

All capacities shown are displacement figures

Alternative frequency of 60Hz - specific on order

CC55906079NC Dumper Tandem Piston Comp type80-4pz

Optional Rubber Mounts

RECIPROCATING CAST IRON COMPRESSORS

1.1 - 7.5 kW

- High efficiency 400V/3 phase/50Hz IP55 electric motor
- Belt driven
- Cast iron cylinder with cooling fins and special aluminium alloy cylinder heads
- Pressure range 8 - 15 bar
- Electric motor 1.5kW - 7.5kW
- Tank 80 - 500 litres


CHAMPION
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CHAMPION

TROUBLE FREE AND A LONG SERVICE LIFE

At a glance…

Nominal Pressure
8 - 15 bar g

Motor Power
1.1 - 7.5 kW

Volume Flow
205 - 1657 l/min
7.2 - 58.5 cfm

Power Sound level
68 - 82 dB(A)

Champion, the smart and affordable compressed air solution, make available a range of reciprocating cast iron compressors. Trouble free and with a long service life, these can be used safely in many applications with single and double stage options. Choose from base plate or receiver mounted with 230 volt options on selected models.

Main motor and drive system

- High efficiency 400V/3 phase/50Hz IP55 electric motor
- Special loadless start system
- Automatic discharge system for loadless start
- Belt Driven
- Specially designed fan type pulleys
- Easy tensioning of belt

Compressor block

- Cast iron cylinder with cooling fins and special aluminium alloy cylinder heads
- Specially designed high-speed stainless steel concentric valves
- Cast iron crankcases with high strength
- Dynamically-balanced cast steel crankshaft and counterweight
- Special alloy aluminium pistons and steel cast connecting rods
- Specially designed finger-type, high-capacity stainless steel suction-discharge valves
- Stainless steel suction-discharge valves, specially designed for high pressure strength

Safety systems

- Solenoid discharge valve for loadless start (on models over 4 kW)
- Pressure switch
- Check valve
- Belt pulley guard
- Relief valve
- Easy tensioning of belt

Other features

- CE Certified air tanks complying with SPVD (Simple Pressure Vessel Directive) and designed as per EN 286-1 standard
- Bearings with a long service life
- Air suction filter and silencer
- Impact lubrication system
- Starting panel (For 1.1 - 4 kW models)

Options

- Automatic Condensate Discharge
- Valve for the Air Tank
- Star delta motor starting panel (5.5-7.5 kW models)

Technical **data**

Belt Driven Cast Iron Compressors Lubricated Single & Three Phase

Design: Belt Drive, single and three phase
Pressure Range: 8 - 15 bar
Tank: 80 - 500 Litres
Capacity: 7.2 to 58.5 CFM

MODEL	PRESSURE		CAPACITY		MOTOR POWER		VOLT	GAS	DIMENSIONS	WEIGHT	TANK	CODE
	BAR	PSI	L/MIN	SCFM	KW	HP	V	PORT	W x L x H	KG	L	
CPI-80-FM15	8	115	205	7.2	1.1	1.5	230	1/2"	1202 x 426 x 894	93	80	**CC1197241**
CPI-80-FT15	8	115	205	7.2	1.1	1.5	400	1/2"	1202 x 426 x 894	93	80	**CC1197240**
CPI-80-FT2	8	115	327	11.5	1.5	2	400	1/2"	1202 x 426 x 914	106	80	**CC1197242**
CPI-80-FM2	8	115	327	11.5	1.5	2	230	1/2"	1202 x 426 x 914	106	80	**CC1197243**
CPI-200-FT3	8	115	410	14.5	2.2	3	400	1/2"	1531 x 450 x 1037	135	200	**CC1197284**
CPI-200-FM3	8	115	410	14.5	2.2	3	230	1/2"	1531 x 450 x 1037	135	200	**CC1197285**
CPI-250-FT55	8	115	607	21.4	4	5.5	400	1/2"	1830 x 466 x 1145	209	250	**CC1197286**
CPI-500-FT55	8	115	607	21.4	4	5.5	400	1/2"	1830 x 466 x 1145	209	500	**CC1197287**
CPI-500-FT75	8	115	1013	35.8	5.5	7.5	400	3/4"	1927 x 664 x 1291	308	500	**CC1197288**
CPI-500-FT10	8	115	1657	58.5	7.5	10	400	3/4"	1926 x 668 x 1413	390	500	**CC1197289**
CPI-200-FM2-12	12	175	205	7.2	1.5	2	230	1/2"	1532 x 450 x 983	145	200	**CC1197291**
CPI-200-FT2-12	12	175	205	7.2	1.5	2	400	1/2"	1532 x 450 x 983	145	200	**CC1197290**
CPI-250-FT55-15	15	215	507	17.9	4	5.5	400	3/4"	1832 x 474 x 1097	230	250	**CC1197292**
CPI-500-FT10-12	12	175	856	30.2	7.5	10	400	3/4"	1920 x 658 x 1298	374	500	**CC1197293**
CPI-500-FT10-15	15	215	828	29.2	7.5	10	400	3/4"	1925 x 669 x 1406	439	500	**CC1197294**

Base mounted cast iron compressors available on request.
12 & 15 bar models are 2-stage piston
CPI-80 models are portable (wheels & handle)

Star Delta Start standard on 10HP models
Star Delta Start optional on 5.5-7.5 kW models
Base Plate and bare pumps available

ROTARY VANE AIR COMPRESSORS

- Exceptional reliability
- 2 year standard warranty
- Sophisticated simple design
- High quality air
- No gears
- Low noise levels
- No belts
- Direct drive


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CE

ROTARY VANE AIR COMPRESSORS

At a glance…

Nominal Pressure
7 - 10 bar

Voltage
50 / 60Hz

Volume Flow
0.12 - 1.27 m^3/min

The right compressor for your business

Reliable by Design

Direct drive

No gears. No belts. Up to 100,000+ operating hours due to its simple integral design.

High quality air

Clean, dry and pulse free straight from the outlet means less downstream equipment required.

Slow speed

1450 – 2850 rpm speed operation results in low noise, low stresses and long life.

Common replacement parts

Quick, cost-effective servicing, with minimal downtime.

Guaranteed

2 years standard warranty is now available for total peace of mind on all Champion Vane models.

High quality starter

A high quality starter with a robust control circuit, including over-temperature protection.

Champion Vanes can be combined with membrane dryers and aftercooler kits. (Both solutions are offered as retrofit kits or factory fitted).

The membrane dryer kits integrate perfectly with Champion vanes to provide a compact and efficient air drying and filtration solution.
The Dryer kits include: Membrane dryer , after cooler, manual water drain, tap, 0.1 micron & 0.01 micron filters.

The after cooler kits are designed to efficiency cool the outlet air and to reduce moisture. The after cooler kits also include a manual drain tap.

Rotary Vane Air Compressors

Design: Open - fixed speed
Pressure Range: 7 - 10 bar
Electric motor: 1.1 - 7.5kW

CODE	MODEL	VOLTAGE	PHASE	COMPRESSED AIR OUTPUT		MAX. WORKING PRESSURE		MOTOR POWER	NOISE LEVEL	DIMENSIONS L x W x H	WEIGHT	AIR OUTLET SIZE
				[m^3/ min]	[CFM]	[bar (g)]	[psi (g)]	[kW]	[dB(A)]	[mm]	[kg]	
501PUTS10-4035D40C	CMPV01 Tripod	400V / 50Hz	3	0.12	4.2	10	145	1.1	62	700 x 270 x 470	41	3/8“ F-BSP
501PUTS10-2415D40C	CMPV01 Tripod	230V / 50Hz	1	0.12	4.2	10	145	1.1	62	700 x 270 x 470	41	3/8“ F-BSP
501PURS10-4035D40C	CMPV01 RM on a 75 Ltr Tank	400V / 50Hz	3	0.12	4.2	10	145	1.1	62	1,120 x 300 x 730	77	3/8“ F-BSP
501PURS10-2415D40C	CMPV01 RM on a 75 Ltr Tank	230V / 50Hz	1	0.12	4.2	10	145	1.1	62	1,120 x 300 x 730	77	3/8“ F-BSP
502PUTS10-4035D40C	CMPV02 Tripod	400V / 50Hz	3	0.23	8.1	10	145	2.2	69	700 x 270 x 470	41	3/8“ F-BSP
502PUTS10-2415D40C	CMPV02 Tripod	230V / 50Hz	1	0.23	8.1	10	145	2.2	69	700 x 270 x 470	41	3/8“ F-BSP
502PURS10-4035D40C	CMPV02 RM on a 75 Ltr Tank	400V / 50Hz	3	0.23	8.1	10	145	2.2	69	1,120 x 300 x 730	77	3/8“ F-BSP
502PURS10-2415D40C	CMPV02 RM on a 75 Ltr Tank	230V / 50Hz	1	0.23	8.1	10	145	2.2	69	1,120 x 300 x 730	77	3/8“ F-BSP
504PURS10-4035D20C	CMPV04 RM on a 200 Ltr Tank	400V / 50Hz	3	0.57	20.1	10	145	4	73	1,410 x 455 x 990	145	1/2“ F-BSP
HR05PR07-4035S10C	CMPR05 PR 07 SDS on a 200 Ltr Tank	400V / 50Hz	3	0.92	32.5	7	145	5.5	73	1332 x 568 x 1085	215	1/2“ F-BSP
HR05PR10-4035S10C	CMPR05 PR 10 SDS on a 200 Ltr Tank	400V / 50Hz	3	0.77	27	10	145	5.5	73	1332 x 568 x 1085	215	1/2“ F-BSP
HR07PR07-4035S10C	CMPR07 PR 07 SDS on a 200 Ltr Tank	400V / 50Hz	3	1.27	44.7	7	145	7.5	73	1332 x 568 x 1085	215	1/2“ F-BSP
HR07PR10-4035S10C	CMPR07 PR 10 SDS on a 200 Ltr Tank	400V / 50Hz	3	1.05	37	10	145	7.5	73	1332 x 568 x 1085	215	1/2“ F-BSP

AFTER COOLERS AND DRYERS FOR CHAMPION VANES	
CODE	**DESCRIPTION**
ACA-501BD-PC	Aftercooler & dryer kit for 501PURS
ACA-502BD-PC	Aftercooler & dryer kit for 502PURS
ACA-504BD-300C	Aftercooler & dryer kit for 504PURS
ACA-5-BC	Aftercooler kit for 501PURS/502PURS
ACA-504-WEGC	Aftercooler kit for 504PURS

SERVICE KITS	DESCRIPTION
C-AK0102	Annual Service Kit for CMPV01 / CMPV02
C-AK04	Annual Service Kit for CMPV04
C-OK0102	Maintenance kit for every 20000 hours or 5 years for CMPV01 / CMPV02
C-OK04	Maintenance kit for every 20000 hours or 5 years for CMPV04
CC1180033	ChampLube Vane lubricant 1 lt
CC1180033-BOX	ChampLube Vane lubricant 1 lt * Box of 20 x 1 Liter)
C-MK0507	Service Kit for every 2000h CMPR05 / CMPR07
C-SK0507	Service Kit for every 4000h CMPR05 / CMPR07
C-OK0507	Overhaul Service Kit CMPR05 / CMPR07

* for CMPV04 2 litres needed. * Service intervals are defined by calendar months or operating hours, whichever occurs first. In dirty ambient conditions service interval must be halved.

100% OIL-FREE GUARANTEED

PREMIUM OIL-FREE ROTARY SCROLL COMPRESSORS

- 100% oil-free design
- High reliability
- Continuous operation, 100% duty cycle
- Energy efficient
- Low vibration and sound levels
- Compact design
- Low maintenance due to less moving parts


OIL FREE
ISO CLASS: ZERO PLUS SILICONE FREE
OIL FREE
ISO CLASS: ZERO PLUS SILICONE FREE
CHAMPION
S04

COMPLETELY OIL LESS TECHNOLOGY

At a glance…

Nominal Pressure
8 - 10 bar g

Motor Power
4 - 15kW

Volume Flow
21.2 - 106 m³/hr

Cutting edge technology development

Committed to developing environmentally friendly solutions, we ensure that our customers meet the demands of climate change legislation - reducing their carbon footprints by cutting energy bills and simply operating more efficiently.

Contaminant free. Risk free. 100% Oil-free

Compressed air purity is crucial for many industry sectors, such as medical, research and biotechnology. The new S-Series of oil-free scroll compressors from Champion does not use any oil anywhere in the compressor and has been certified ISO 8573-1 Class 0 and silicone free, which represents the highest air quality level possible.

In addition to the fulfilment of legal requirements, the oil-free scroll technology reduces the costs of ownership by avoiding oil filter replacements, oil condensate treatment and energy to combat the pressure loss caused by filtration.

CLASS	CONCENTRATION TOTAL OIL (AEROSOL, LIQUID, VAPOUR) MG/M³
0	As specified by the equipment user or supplier and more stringent than class 1
1	≤ 0.01
2	≤ 0.1
3	≤ 1
4	≤ 5

Compressor configuration

Depending on the application requirements, the versatile S-Series from Champion is available in various kW sizes. The scroll compressor range starts with Simplex units at 4, 6 and 8 kW and the Duplex units with 7, 11 and 15 kW. The compressor design features a very clean, simple and serviceable layout.

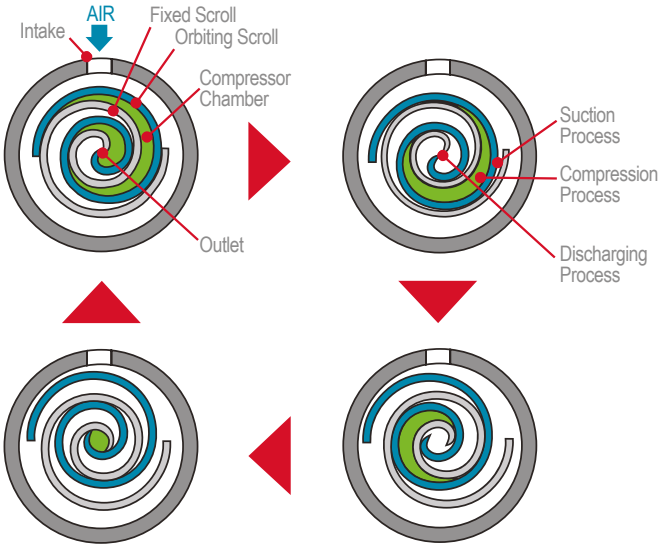
Industries with applications requiring oil-free air:

- **Transportation** - traditional and hybrid trucks, transit buses, school buses and trains
- **Medical/Healthcare** - instrument air and breathing air
- **Biotechnology** - laboratory equipment
- **Automotive** - painting
- **Food & Beverage**
- **Electronics**
- **Commercial Printing**
- **Drug Manufacture**

Innovative design

Scroll compression explained

- An orbiting (rotating) scroll and fixed scroll housing are mated to create the compression chambers
- The continual movement of the orbiting scroll moves atmospheric air from the intake toward the center, compressing the air into progressively smaller areas
- The compressed air is directed to the center discharge port of the compressor
- Discharge pressure is accomplished during multiple stages of compression, resulting in a continuous intake suction and discharge



S SERIES

Duplex

Champion S-Series

1. Automatic Condensate Drain
2. Rigid Framework
3. 5 Micron Inlet Filter
4. Fork Slots for Easy Handling
5. Unique Chambered Design - Maximised Cooling and Serviceability
6. Large Industrial Aftercoolers
7. Premium Efficient TEFC Motor
8. High Volume Cooling Fan
9. Low Noise Sound Enclosure
10. Internal Vibration Isolators

Controlling and monitoring

The S Series from Champion have Deluxe HMI controller as standard. DOL or Soft starter in all variants is available. The Deluxe HMI control from Champion has easy to use navigation and friendly graphics that deliver interactive and intuitive information at your fingertips.

With a built in integral webserver, via ModBus TCP Ethernet connection, these controllers provide visibility to the scroll compressor system from any computer or mobile device with internet connection.

Deluxe HMI

- 3.5" Full Color Touch Screen
- PLC Controlled
- Lead/Lag Control with Forced Alternation
- System Capacity and Operation Trending
- 26 Language Options
- 24V / DC Power Supply with Fusing
- System Run Time Meter
- Alarm/Fault Log
- System Discharge Pressure
- Pump Discharge Temperature
- System Maintenance Timers
- Integral Webserver
- Modbus TCP Interface over Ethernet

S4 – S8 Simplex Series: Oil free, Scroll compressors

Design: 100% oil free, scroll compressor, belt drive
Pressure Range: from 8 to 10 bar
Electric motor: from 3.7 to 7.5kW

S SERIES	TYPE	S4		S6		S8	
Maximum pressure	bar	8	10	8	10	8	10
Capacity [1]	m^3/h	23.8	19.6	34.5	26	53.4	41.2
Drive motor IP 55 / class F / IE3	kW	3.7		5.5		7.5	
Volt/Phase/Frequency	400/3/50	400/3/50		400/3/50		400/3/50	
Control voltage	24v	•		•		•	
Acoustic enclosure		•		•		•	
Air Cooled		•		•		•	
Deluxe HMI Controller		•		•		•	

DOL

CODE	CC1216332	CC1216333	CC1216334	CC1216335	CC1216336	CC1216337

Soft Start

CODE	CC1216279	CC1216280	CC1216281	CC1216282	CC1216283	CC1216324

[1] Data measured and stated in accordance with ISO 1217 Edition 4, Annex C & E at the following conditions: Air Intake Pressure 1 bar a / 14,5 psi; Air Intake Temperature 20° C / 68° F; Humidity 0 % (dry)

S7D – S15D Duplex Series: Oil free, Scroll compressors

Design: 100% oil free, scroll compressor, belt drive
Pressure Range: from 8 to 10 bar
Electric motor: from 7 to 15kW

S SERIES	TYPE	S7D		S11D		S15D	
Maximum pressure	bar	8	10	8	10	8	10
Capacity [1]	m^3/h	47.6	39.1	69	52	106.8	82.4
Drive motor IP 55 / class F / IE3	kW	7		11		15	
Volt/Phase/Frequency	400/3/50	400/3/50		400/3/50		400/3/50	
Control voltage	24v	•		•		•	
Acoustic enclosure		•		•		•	
Air Cooled		•		•		•	
Deluxe HMI Controller		•		•		•	

DOL

CODE	CC1216338	CC1216339	CC1216340	CC1216341	CC1216342	CC1216343

Soft Start

CODE	CC1216326	CC1216327	CC1216328	CC1216329	CC1216330	CC1216331

[1] Data measured and stated in accordance with ISO 1217 Edition 4, Annex C & E at the following conditions: Air Intake Pressure 1 bar a / 14,5 psi; Air Intake Temperature 20° C / 68° F; Humidity 0 % (dry)

SERVICE KITS	
CODE	DESCRIPTION
CONFIG_WS	Water Separator Factory Fitted
CONFIG_VOLT	Alternative Voltage 380/3/60
CC1219757	Air Filter (2 Simplex, 4 Duplex)
300SMB6029	Tip Seal Kit S4/S7D (1 Simplex, 2 Duplex)
300SIA6003	Service Kit S6/S11D* (1 Simplex, 2 Duplex)
301SIA6003	Service Kit S8/S15D* (1 Simplex, 2 Duplex)
CC1220854	Brush (2 Simplex, 4 Duplex)
300SMB6022	Grease 80 Grams (Refer to Manual)
300SMB6031	Grease Gun
CC1213688	Air End - Oil Less 3.7 & 5.5 (1 Simplex, 2 Duplex)
CC1213690	Air End - Oil Less 7.5 (1 Simplex, 2 Duplex)

* Service kits include tip seal, face seal & grease

Notes

OIL-FREE DENTAL COMPRESSORS

Reliabilty. Simplicity. Performance.

- 100% oil-free
- Many variants including open frame, silenced cabinet and membrane dryer
- High reliability
- Low noise levels
- High air quality


CHAMPION
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CHAMPION

THE DENTAL COMPRESSOR RANGE YOU CAN TRUST

At a glance…

Nominal Pressure
Up to 10 bar

Motor Power
0.8 - 15kW

Volume Flow
Flow @ 5 bar
78 – 1350 L/min

Dental Oil Free Compressors

When compressed air is used in the dental, health, cosmetics sectors or to operate machinery which cannot be contaminated by impurities, an oil-free Champion compressor is required.

Champion oil free compressors are available as open frame, silenced with or without on-board membrane dryer. Due to the high quality filtration and drying system Champion oil free compressors are complaint with HTM2022.

C-PRIME compressors benefit from heavy duty cycle use, silent running, superior design, high reliability, and articulated connecting rod system and brass internal cylinder surface. The entire PRIME range is equipped with hour-counter, thermic protection and amperometric protection. Versions equipped with membrane dryer (M) have a filtration system offering filtration to 0.01 micron, achieving a dew point value of -20°C, producing oil free hygienic air. In addition, the silenced cabinet versions (CS) are among the lowest noise level for this technology.

The comprehensive and innovative range of oil free piston compressors feature:

- Power range from 0.8 to 10 kWs
- Suitable for 1-20 dental chairs
- Silenced operation on cabinet versions
- Noise level of 53-78 dB(A)
- Receiver sizes from 24-270 litres
- Efficient and improved duty cycles
- Operating pressure up to 10 Bar
- Double filtration system to 0.01 microns
- Maintenance free membrane dryers to -20°C dew point

In addition, the special internal surface treatment prevents rust generation and air tank corrosion. The installation of a simple automatic drain system reduces the need of periodical ordinary maintenance.

The choice of dental compressor is critical for the correct operating standards of surgeries and laboratories. Actual and future compressed air demand are important questions when making the correct dental compressor choice. The Champion dental compressor range satisfies every need, both from the performance and the investment point of view.

Technical **data**

C-Prime Open Frame: Oil free, Dental compressors

Design: 100% oil-free, dental piston compressors
Pressure Range: up to 10 bar

CODE	MODEL	CHAIRS	FAD @ 5 BAR			MOTOR POWER			NOISE LEVEL	DIMENSIONS L x W x H	WEIGHT
			[CFM]	[L/ min]	[HP]	[kW]	[V]	[REC]	[dB(A)]	[mm]	[kg]
CC1189691	C-Prime 30-7 S	1	3.0	85	1	0.75	230	24	65	430 x 400 x 600	29
CC1189692	C-Prime 50-15 S	3	6.0	170	2	1.5	230	40	66	600 x 410 x 770	46
CC1189693	C-Prime 50-25 S	4	8.8	250	3	2.2	230	40	66	600 x 410 x 810	54
CC1189714	C-Prime 100-30 Tandem S	6	12.0	340	4	3	230	90	69	1100 x 600 x 810	97
CC1189715	C-Prime 100-50 Tandem S	8	17.6	500	6	4.4	400	90	69	1100 x 600 x 820	113
CC1189716	C-Prime 200-75 Tandem S	10	25.4	750	9	6.6	400	200	72	1550 x 1000 x 1030	173
CC1189717	C-Prime 270-100 Tandem S	15	31.6	900	13	10	400	270	75	1560 x 1000 x 1030	220
CC1189718	C-Prime 500-150 Tandem S	20	47.4	1350	20	15	400	500	78	1980 x 780 x 1050	330

Models can be configurated to 10 Bar maximum pressure offering on average 33% lower FAD @ 8 Bar

C-Prime Silenced Cabinet: Oil free, Dental compressors

Design: 100% oil-free, dental piston compressors
Pressure Range: up to 10 bar

CODE	MODEL	CHAIRS	FAD @ 5 BAR			MOTOR POWER			NOISE LEVEL	DIMENSIONS L x W x H	WEIGHT
			[CFM]	[L/ min]	[HP]	[kW]	[V]	[REC]	[dB(A)]	[mm]	[kg]
CC1189719	C-Prime 30-15 CS	2	5.9	170	2	1.5	230	40	53	490 x 720 x 890	94
CC1189720	C-Prime 50-25 CS	4	8.8	250	3	2.2	230	40	53	490 x 720 x 890	102
CC1189721	C-Prime 100-30 Tandem CS	6	11.8	340	4	5	230	90	56	1245 x 725 x 1020	210
CC1189722	C-Prime 100-50 Tandem CS	8	17.6	500	6	4.4	400	90	56	1245 x 725 x 1020	220

Models can be configurated to 10 Bar maximum pressure offering on average 33% lower FAD @ 8 Bar

DENTAL COMPRESSORS

C-Prime Open Frame with Membrane Dryer: Oil free, Dental compressors

Design: 100% oil-free, dental piston compressors
Pressure Range: up to 10 bar

CODE	MODEL	CHAIRS	FAD @ 5 BAR			MOTOR POWER			NOISE LEVEL	DIMENSIONS L x W x H	WEIGHT
			[CFM]	[L/ min]	[HP]	[kW]	[V]	[REC]	[dB(A)]	[mm]	[kg]
CC1189725	C-Prime 30-7 SM	1	2.8	78	1	0.75	230	24	65	500 x 470 x 600	36
CC1189726	C-Prime 50-15 SM	3	5.4	152	2	1.5	230	40	66	710 x 410 x 770	50
CC1189727	C-Prime 50-25 SM	4	7.9	225	3	2.2	230	40	66	710 x 410 x 810	58
CC1189728	C-Prime 100-30 Tandem SM	5	10.8	305	4	3	230	90	69	1100 x 630 x 810	102
CC1189729	C-Prime 100-50 Tandem SM	7	15.8	450	6	4.4	400	90	69	1100 x 630 x 820	118
CC1189730	C-Prime 200-75 Tandem SM	9	23.0	660	9	6.6	400	200	72	1450 x 820 x 900	183
CC1189731	C-Prime 270-100 Tandem SM	14	27.5	780	13	10	400	270	75	1560 x 1000 x 1030	240

Models can be configurated to 10 Bar maximum pressure offering on average 33% lower FAD @ 8 Bar

C-Prime Silenced Cabinet with Membrane Dryer: Oil free, Dental compressors

Design: 100% oil-free, dental piston compressors
Pressure Range: up to 10 bar

CODE	MODEL	CHAIRS	FAD @ 5 BAR			MOTOR POWER			NOISE LEVEL	DIMENSIONS L x W x H	WEIGHT
			[CFM]	[L/ min]	[HP]	[kW]	[V]	[REC]	[dB(A)]	[mm]	[kg]
CC1189732	C-Prime 30-15 CSM	2	5.4	152	2	1.5	230	40	53	490 x 720 x 890	98
CC1189733	C-Prime 50-25 CSM	4	7.9	225	3	2.2	230	40	53	490 x 720 x 890	106
CC1189744	C-Prime 100-30 Tandem CSM	5	10.8	305	4	3	230	90	56	1245 x 725 x 1020	215
CC1189745	C-Prime 100-50 Tandem CSM	7	15.8	450	6	4.4	400	90	56	1245 x 725 x 1020	225

Models can be configurated to 10 Bar maximum pressure offering on average 33% lower FAD @ 8 Bar

Notes

BREATHING AIR COMPRESSORS

Versatile. Reliable. Flexible.

- Quick charging times
- Safe operation
- Various drive motors
- Easy to use
- High reliability
- Including range of accessories


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RELIABLE BREATHING AIR COMPRESSORS

At a glance…

Nominal Pressure
232 - 330 bar

Motor Power
2.2 - 11kW

Volume Flow
80 - 600 L/min

The Range of Breathing Air Compressors

Champion offer a range of breathing air and technical gas compressors from the small portable CBA6 series with a flow rate of 100 l/min and a pressure of 300 bars to the more powerful models for large refilling centres such as the CBA36 with a flow rate of 600 l/min and a maximum pressure of 330 bar.

Compressors such as the CBA36 meet the needs of large refilling centres as it charges a 10 litre single-cylinder at 200 atmospheres in 3.3 minutes with noise levels as low as 75 dB(A). The range is compliant to EN 12021 CGA E.

Champion compressors are available with single and 3-phase electric motors as well as petrol or diesel engines. Additionally, Champion offer a series of important accessories, such as filling panels, transfer hoses, oxygen carbon dioxide and helium analysers, pressure reducers with safety valves and other useful accessories.

POWER RANGE:	2.2 to 11 kW
CAPACITY:	80 to 600 l/min
CHARGE TIME:	3 to 25 mins (based on charging a 10 litre cylinder)
PRESSURE:	232 to 330 bar
NOISE LEVEL:	70 to 101 dB(A)
VOLTAGE:	230 / 1 / 50 / 60, 400 / 3 / 50, 440 / 3 / 60

Technical **data**

Breathing Air: Compressors - Electric

Design: High pressure piston
Pressure Range: 232 - 330 barg

CODE	MODEL	VARIANT	TYPE	VOLT	[kW]	[HP]	[L/min]	[cfm]	[Bar]	CHARGE TIME	DIMENSIONS L x W x H [mm]	[dB(A)]	[kg]
CC1189900	CBA 6 EM DIN300B	Open	Electric	230/1/50	2.2	3	80	2.8	300	25min	650x350x390	91	39
CC1189900A	CBA 6 EM DIN232B	Open	Electric	230/1/50	2.2	3	80	2.8	232	25min	650x350x391	91	39
CC1189900AY	CBA 6 EM YOKE232B	Open	Electric	230/1/50	2.2	3	80	2.8	232	25min	650x350x392	91	39
CC1189901	CBA 6 ET DIN300B	Open	Electric	400/3/50	3	4	100	3.5	300	20min	650x350x390	95	39
CC1189901A	CBA 6 ET DIN232B	Open	Electric	400/3/50	3	4	100	3.5	232	20min	650x350x390	95	39
CC1189901AY	CBA 6 ET YOKE232B	Open	Electric	400/3/50	3	4	100	3.5	232	20min	650x350x390	95	39
CC1221268	CBA 13 ET SMART DIN300B	Open	Electric	400/3/50	4	5.5	235	8.3	300	8min 30sec	880x480x640	77	117
CC1221268A	CBA 13 ET SMART DIN232B	Open	Electric	400/3/50	4	5.5	235	8.3	232	8min 30sec	880x480x640	77	117
CC1221268AY	CBA 13 ET SMART YOKE232B	Open	Electric	400/3/50	4	5.5	235	8.3	232	8min 30sec	880x480x640	77	117
CC1221270	CBA 13 ET MARK 3 DIN300B	Cabinet	Electric	400/3/50	4	5.5	235	8.3	300	8min 30sec	920x610x880	75	153
CC1221270A	CBA 13 ET MARK 3 DIN232B	Cabinet	Electric	400/3/50	4	5.5	235	8.3	232	8min 30sec	920x610x880	75	153
CC1221270AY	CBA 13 ET MARK 3 YOKE232B	Cabinet	Electric	400/3/50	4	5.5	235	8.3	232	8min 30sec	920x610x880	75	153
CC1221273	CBA 16 ET SMART DIN300B	Open	Electric	400/3/50	5.5	7.5	315	11.1	300	6min 20sec	880x480x640	77	117
CC1221273A	CBA 16 ET SMART DIN232B	Open	Electric	400/3/50	5.5	7.5	315	11.1	232	6min 20sec	880x480x640	77	117
CC1221273AY	CBA 16 ET SMART YOKE232B	Open	Electric	400/3/50	5.5	7.5	315	11.1	232	6min 20sec	880x480x640	77	117
CC1221294	CBA 16 ET MARK 3 DIN300B	Cabinet	Electric	400/3/50	5.5	7.5	315	11.1	300	6min 20sec	920x610x880	75	163
CC1221294A	CBA 16 ET MARK 3 DIN232B	Cabinet	Electric	400/3/50	5.5	7.5	315	11.1	232	6min 20sec	920x610x880	75	163
CC1221294AY	CBA 16 ET MARK 3 YOKE232B	Cabinet	Electric	400/3/50	5.5	7.5	315	11.1	232	6min 20sec	920x610x880	75	163
CC1189906	CBA 22 OPEN DIN300B	Open	Electric	400/3/50	7.5	10	400	14.1	300	5min	790x1025x1545	76	415
CC1189906A	CBA 22 OPEN DIN232B	Open	Electric	400/3/50	7.5	10	400	14.1	232	5min	790x1025x1545	76	415
CC1189906AY	CBA 22 OPEN YOKE232B	Open	Electric	400/3/50	7.5	10	400	14.1	232	5min	790x1025x1545	76	415
CC1189907	CBA 22 SILENCED DIN300B	Cabinet	Electric	400/3/50	7.5	10	400	14.1	300	5min	800x1290x1740	70	420
CC1189907A	CBA 22 SILENCED DIN232B	Cabinet	Electric	400/3/50	7.5	10	400	14.1	232	5min	800x1290x1740	70	420
CC1189907AY	CBA 22 SILENCED YOKE232B	Cabinet	Electric	400/3/50	7.5	10	400	14.1	232	5min	800x1290x1740	70	420
CC1189908	CBA 30 OPEN DIN300B	Open	Electric	400/3/50	9.2	12.5	500	17.7	300	4min	790x1025x1545	76	415
CC1189908A	CBA 30 OPEN DIN232B	Open	Electric	400/3/50	9.2	12.5	500	17.7	232	4min	790x1025x1545	76	415
CC1189908AY	CBA 30 OPEN YOKE232B	Open	Electric	400/3/50	9.2	12.5	500	17.7	232	4min	790x1025x1545	76	415
CC1189909	CBA 30 SILENCED DIN300B	Cabinet	Electric	400/3/50	9.2	12.5	500	17.7	300	4min	800x1290x1740	70	420
CC1189909A	CBA 30 SILENCED DIN232B	Cabinet	Electric	400/3/50	9.2	12.5	500	18.7	232	4min	800x1290x1740	70	420
CC1189909AY	CBA 30 SILENCED YOKE232B	Cabinet	Electric	400/3/50	9.2	12.5	500	19.7	232	4min	800x1290x1740	70	420
CC1189910	CBA 36 OPEN DIN300B	Open	Electric	400/3/50	11	15	600	21.2	300	3min	790x1025x1545	76	415
CC1189910A	CBA 36 OPEN DIN232B	Open	Electric	400/3/50	11	15	600	21.2	232	3min	790x1025x1545	76	415
CC1189910AY	CBA 36 OPEN YOKE232B	Open	Electric	400/3/50	11	15	600	21.2	232	3min	790x1025x1545	76	415
CC1189911	CBA 36 SILENCED DIN300B	Cabinet	Electric	400/3/50	11	15	600	21.2	300	3min	800x1290x1740	70	420
CC1189911A	CBA 36 SILENCED DIN232B	Cabinet	Electric	400/3/50	11	15	600	21.2	232	3min	800x1290x1740	70	420
CC1189911AY	CBA 36 SILENCED YOKE232B	Cabinet	Electric	400/3/50	11	15	600	21.2	232	3min	800x1290x1740	70	420

BREATHING AIR COMPRESSORS

Breathing Air: Compressors - Engine

Design: High pressure piston
Pressure Range: 232 - 330 barg

CODE	MODEL	VARIANT	TYPE	VOLT	[kW]	[HP]	[L/min]	[cfm]	[Bar]	CHARGE TIME	DIMENSIONS L x W x H [mm]	[dB(A)]	[kg]
CC1189912	CBA 6 SH DIN300B	Open	Engine	Honda Petrol	4	5.5	100	3.5	300	20min	780x350x320	101	37
CC1189912A	CBA 6 SH DIN232B	Open	Engine	Honda Petrol	4	5.5	100	3.5	232	20min	780x350x320	101	37
CC1189912AY	CBA 6 SH YOKE232B	Open	Engine	Honda Petrol	4	5.5	100	3.5	232	20min	780x350x320	101	37
CC1221295	CBA ERGO 16 SH DIN300B	Open	Engine	Honda Petrol	6.3	8.4	315	11.1	300	8min 30sec	1130x540x640	96	135
CC1221295A	CBA ERGO 16 SH DIN232B	Open	Engine	Honda Petrol	6.3	8.4	315	11.1	232	8min 30sec	1130x540x640	96	135
CC1221295AY	CBA ERGO 16 SH YOKE232B232	Open	Engine	Honda Petrol	6.3	8.4	315	11.1	232	8min 30sec	1130x540x640	96	135
CC1221296	CBA ERGO 16 LOMBARDINI DIN300B	Open	Engine	Lombardini	6.6	9	315	11.1	300	6min 20sec	1130x540x640	96	135
CC1221296A	CBA ERGO 16 LOMBARDINI DIN232B	Open	Engine	Lombardini	6.6	9	315	11.1	232	6min 20sec	1130x540x640	96	135
CC1221296AY	CBA ERGO 16 LOMBARDINI YOKE232B	Open	Engine	Lombardini	6.6	9	315	11.1	232	6min 20sec	1130x540x640	96	135

Breathing Air: Accessories

CODE	MODEL
CC1189917	CBA 6 Auto Drain Timer
CC1189918	CBA 6 Auto Stop
CC1189919	Safety Valve 330 Bar
CC1189920	Safety Valve 300 Bar
CC1189921	Safety Valve 225 Bar
CC1189922	CBA 6 - Air Filter Cartridge
CC1189923	CBA 13-16 Intake Air Filter Cartridge
CC1189924	CBA 22-36 hyperfilter Filter Cartridge
CC1189925	CBA 22-36 + 13-18 Tropical Oil Filter Cartridge
CC1189926	Breathing Compressor Oil 1/2Lt
CC1189927	Breathing Compressor Oil 1Lt

AVAILABLE VERSIONS

SMART Basic
MARK 3 Autostop / Auto-drain / Oil level switch / Phase control / Cabin Thermo-switch
VOLTAGE 230 V - 50/60 Hz
400 V - 50 Hz
440 V - 60 Hz

Notes

ONE STEP AHEAD

PORTABLE SCREW COMPRESSORS

- Mobile compressed air solution
- Independent from power source
- Compact and lightweight
- Low emissions
- Easy to operate
- Energy efficient

Contact your sales manager or our sales team for our stand-alone brochure and price list for model CMP-P21 to CMP-P271TS


CHAMPION
CMP-P201TS-24
LOW
EMISSION
ZONE
CHAMPION
CMP-P31
LOW
EMISSION
ZONE
CHAMPION

DESIGNED FOR THE MOST DEMANDING CONDITIONS

Champion Portable Compressors

High-precision construction projects demand that the efficiency and reliability of compressors is of the highest calibre. Champion offers a wide range of portable compressors, with a reputation within the industry for just that – compressors that meet the requirements of numerous mobile compressed air applications.

The C-Series from Champion is constantly evolving and guarantees high energy efficiency, low emissions and many other innovations, which make daily operations and maintenance tasks much easier.

Engineering Excellence

Changing emission legislation is a key driver for development, but Champion's passionate engineering team also strive to achieve the best possible performance at the lowest operational costs. The C-Series of portable compressors fulfills the emission standards in accordance with the directive 97/68/EC. Additionally, the compressors are very compact and lightweight which is a preference for many customers.

The screw compression element is the most important component of the compressor. Therefore Champion keeps the design and manufacture in-house, using the latest CNC rotor grinding machinery, coupled with online laser technology. The resulting reliability and performance ensures that operating costs will remain low throughout the life of the compressor.

AirPlus

Tailored compressor solutions to fit your application.

Champion offers numerous options and accessories allowing customers to configure the compressor according to the specific requirements of the application. Besides various components for air treatment, integrated generators, bunded bottom boxes, toolboxes, hose reels and integrated oilers, etc. can all be factory fitted.

Champion Genuine Parts

Enjoy complete peace of mind.

Genuine Champion parts and lubricants ensure best performance and reliability is maintained.

- Minimum losses contributing to energy savings
- Long service life, even under harsh conditions
- High reliability

DESIGNED TO LAST

At a glance…

Operating Pressure
6 - 7 bar g

Motor Power
6.3 - 8.7 kW

Volume Flow
0.8 - 1.2 m³/min

Compressor

The Champion range of self-contained compressors uses lubricated screw air ends with high airflow. The progressive adjustment of the airflow constantly maintains an operating pressure between 7 and 8 bar, thus avoiding the use of a cumbersome air tank.

Protection

The “ROLL BAR” system fully protects the compressor and facilitates maintenance. The anti-vibration pads provide excellent stability and limit vibration.

Thermic engine

Our choice of HONDA petrol engines, known for their high reliability and excellent sound levels, guarantees the longevity of our compressors and a great ease of use. The engine speed is reduced automatically when the compressor is not stressed (control valve + pneumatic jack group).

Oil Separator

Our compressors are equipped with an improved cooling system. Temperature control guarantees optimum longevity.

Portable Compressors

CMP Series P6 - B9

Design: Engine Driven Rotary Screw
Pressure Range: 6 - 7 bar
Power Range: 9 - 13 HP
Mobile Fuel Tank: 5.3 - 6.1 Litres

MODEL	FLOW[1]			ADJUSTMENT PRESSURE[3]	HONDA PETROL ENGINE		ELECTRIC START-UP BATTERY INCLUDED	PROGRESSIVE ADJUSTMENT OF ENGINE SPEED	SOUND POWER LEVEL LwA[2]	MOBILE FUEL TANK	DIMENSIONS	WEIGHT	CODE
	L/M	CFM	m³/min	BAR	kW/HP	MODEL		RPM	dB(A)	LITRES	MM	KG	
CMP-P6R	800	28	0.8	6	6.3/9	GX 270	-	2500 - 3500	97	5.3	820x560x610	69	**CC1198063**
CMP-P6	800	28	0.8	7	6.3/9	GX 270	Yes	2500 - 3500	97	5.3	820x560x610	79	**CC1198074**
CMP-P7R	1200	42	1.2	7	8.7/13	GX 390	-	2400 - 3500	97	6.1	820x560x610	80	**CC1198075**
CMP-P7	1200	42	1.2	7	8.7/13	GX 390	Yes	2400 - 3500	97	6.1	820x560x610	90	**CC1198076**
CMP-P8R	800	28	0.8	6	6.3/9	GX 270	-	2500 - 3500	97	5.3	820x560x610	79	**CC1198077**
CMP-P8	800	28	0.8	7	6.3/9	GX 270	Yes	2500 - 3500	97	5.3	820x560x610	89	**CC1198078**
CMP-P9R	800	28	0.8	7	8.7/13	GX 390	-	2400 - 3500	97	6.1	820x560x610	100	**CC1198079**
CMP-P9	1200	42	1.2	7	8.7/13	GX 390	Yes	2400 - 3500	97	6.1	820x560x610	110	**CC1198080**
CMP-B8	800	28	0.8	7	6.3/9	GX 270	Yes	2500 - 3500	97	5.3	740x540x530	59	**CC1198081**
CMP-B9	1200	42	1.2	7	8.7/13	GX 390	Yes	2500 - 3500	97	6.1	740x540x530	65	**CC1198082**

[1] Flow according to CE standard 1217 Annex C. [2] Sound level according to EU 2000/14 Annexe 8. [3] Portable fuel tank with quick coupling marine safety category [4] Pressure of 9-12 bar available upon request
Option: Models P8-P9 - static version avaiable - kit consists of 4 AV mounts + 4 mounting plates for commercial vehicles

DESIGNED TO LAST

At a glance…

Operating Pressure
7 - 12 bar g

Motor Power
15.5kW

Volume Flow
1.0 - 1.4 m³/min

The CMP-Series is a powerful alternative to electrical tools

Small, compact and lightweight, at only 165kg weight with 1.4 m³/min at 7 bar. Perfect for a wide-range of repair and installation jobs.

Electric Start as Standard

Easy to start and flexible operation.

Honda GX 630V

Air cooled petrol engine.

Champion Genuine Parts

Enjoy complete peace of mind.

Genuine Champion parts and lubricants ensure best performance and reliability is maintained.

- Minimum losses contributing to energy savings
- Long service life, even under harsh conditions
- High reliability

Larger portables from CMP-P21 through to TurboScrew are available. Contact the Champion Sales Team for more information and brochure.

CMP SERIES	TYPE	CMP-P10	CMP-P12	CMP-P14
CODE		A60141201	A60141001	A60140701
ENGINE		HONDA GX630	HONDA GX630	HONDA GX630
MOTOR POWER	[KW]	15.5	15.5	15.5
OPERATING PRESSURE	[bar g]	12	10	7
	[psi g]	174	145	102
VOLUME FLOW	[m³/min]	1.4	1.8	1.8
	[cfm]	50	64	64
ENGINE SPEED OFF LOAD	[rpm]	2200 - 3550		
SOUND POWER LEVEL [1)]	[LwA]	97 (dB)		
VOLUME FLOW	[m³/min]	1.0	1.4	1.4
	[cfm]	35	50	50
ENGINE SPEED OFF LOAD/LOAD	[rpm]	2200 - 2900		
SOUND POWER LEVEL[1)]	[LwA]	93 (dB)		
AIR OUTLET SIZE		1" x 3/4"		
DIMENSIONS L X W X H	[mm]	890 x 635 x 670		
WEIGHT (WITHOUT FUEL)	[Kg]	150		

[1)] Legal Limiting values of EC directive acc to 2000/14/EC

SERVICE KITS	DESCRIPTIONS
CC1186378	600 hrs or 6 months compressor service kit C10-C14
CC1186379	Annual engine service kit C10-C14
SCUO2000-5GT3	Lubricant (pack of 3 x 5L)

Champion codes relates to power sound level (LwA) of 97 decibels. Clearly mark on your order if the lower noise level of 93 decibels is required

Champion Portable Compressor Range

CMP-P10-12 TO CMP-P14

At a glance…

Nominal Pressure
7 - 12 bar g

Engine Power
15.5 kW

Volume Flow
1.0 - 1.4 m³/min

CMP-P21 TO CMP-P31

At a glance…

Nominal Pressure
7 - 12 bar g

Engine Power
16.5 - 18.9 kW

Volume Flow
2.0 - 3.0 m³/min

CMP-P36-10 TO CMP-P51

At a glance…

Nominal Pressure
7 - 10 bar g

Engine Power
35 kW

Volume Flow
3.5 - 5.0 m³/min

CMP-P56-14 TO CMP-P77

At a glance…

Nominal Pressure
7 - 14 bar g

Engine Power
53.7 kW

Volume Flow
5.5 - 7.6 m³/min

CMP-P86-14 TO CMP-P141-9

At a glance…

Nominal Pressure
5 - 14 bar g

Engine Power
90 -105 kW

Volume Flow
8.6 - 13.3 m³/min

CMP-P201TS-24 TO CMP-P271TS-9

At a glance…

Nominal Pressure
9 - 24 bar g

Engine Power
180 - 224 kW

Volume Flow
20 - 27 m³/min

Performance Protection for Portable Compressors

When you buy a Champion C-Series portable compressor, peace of mind comes as standard now. The first of a kind Mobile 5 Warranty offers genuine performance protection for up to 5 years. The main compressor elements and controls[1] are covered at zero additional cost.

Having your compressor serviced by authorised personnel in accordance with Champion's maintenance schedules, ensures you enjoy comprehensive protection for up to 5 years (up to a maximum of 10,000 operating hours).

Mobile 5 from Champion – keeping your workforce working.

[1] Terms, conditions & exclusions apply.

COMPRESSED AIR TREATMENT

- Basic Principals
- Air Filters
- Cyclone Separators
- Refrigeration Dryers
- Adsorption Dryers
- Air Receiver Tanks
- Condensate Drains
- Oil / Water Separators
- Industrial Chillers
- EPL Piping System

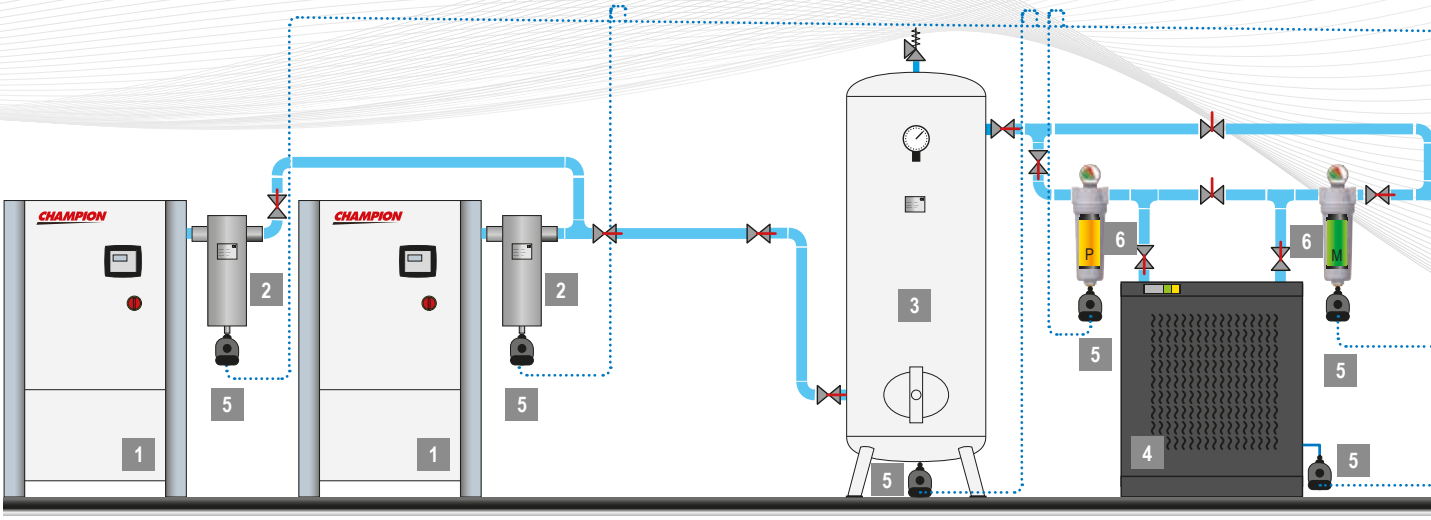
Compressed air quality classes according to ISO 8573-1:2010

CLASS	SOLID PARTICLES MAXIMUM NUMBER OF PARTICLES PER CUBIC METER AS A FUNCTION OF PARTICLE SIZE, D[2]			HUMIDITY AND LIQUID WATER PRESSURE DEW POINT		OIL CONCENTRATION OF TOTAL OIL[2] (LIQUID, AEROSOL AND VAPOUR)	
	[0.1 µm < d ≤ 0.5 µm]	[0.5 µm < d ≤ 1.0 µm]	[1.0 µm < d ≤ 5.0 µm]	[°C]	[°F]	[mg/m³]	[ppm / w / w]
0	As specified by the equipment user or supplier and more stringent than class[1]						
1	≤ 20,000	≤ 400	≤ 10	≤ -70	-94	≤ 0.01	≤ 0.008
2	≤ 400,000	≤ 6,000	≤ 100	≤ -40	-40	≤ 0.1	≤ 0.08
3	Not specified	≤ 90,000	≤ 1,000	≤ -20	-4	≤ 1	≤ 0.8
4	Not specified	Not specified	≤ 10,000	≤ +3	38	≤ 5	≤ 4
5	Not specified	Not specified	≤ 100,000	≤ +7	45	Not specified	Not specified
6				≤ ±10	50		

	MASS CONCENTRATION[2] - C_P [mg/m³]	LIQUID WATER CONTENT[2] - C_W [g/m³]		
6	$0 < C_p \leq 5$		Not specified	Not specified
7	$5 < C_p \leq 10$	$C_W \leq 0.5$	Not specified	Not specified
8	Not specified	$0.5 \leq C_W \leq 5$	Not specified	Not specified
9	Not specified		Not specified	Not specified
X	$C_p > 10$		> 5	> 4

[1] To qualify for a class designation, each size range and particle number within a class shall be met.
[2] At reference conditions: air temperature of 20° C, absolute air pressure of 100 kPa (1 bar), 0 relative water vapour pressure.

BASIC PRINCIPLES OF MOST TYPICAL COMPRESSED AIR APPLICATION



1. Compressor: The basic working principle of an air compressor is to compress atmospheric air, which is then used as per the requirements. In the process, atmospheric air is drawn in through an intake valve; more and more air is pulled inside a limited space mechanically by means of piston, impeller, or vane.

Since the amount of pulled atmospheric air is increased in the receiver or storage tank, volume is reduced and pressure is raised automatically. In simpler terms, free or atmospheric air is compressed after reducing its volume and at the same time, increasing its pressure.

Champion can provide many types of compressor to suit your needs.

2. Cyclone condensate separator: Cyclone condensate separators use centrifugal motion to force liquid water out of compressed air.

The spinning causes the condensate to join together on the centrifugal separators walls when the condensate gains enough mass it falls to the bottom of the separators bowl where it pools in the sump until it is flushed out of the system by the automatic float drain valve.

They are installed following aftercoolers to remove the condensed moisture.

3. Pressure vessel: Pressure vessel plays very important role in compressed air system:

- Damping pulsations caused by reciprocating compressors
- Providing a location for free water and lubricant to settle from the compressed air stream
- Supplying peak demands from stored air without needing to run an extra compressor
- Reducing load/unload or start/stop cycle frequencies to help screw compressors run more efficiently and reduce motor starts
- Slowing system pressure changes to allow better compressor control and more stable system pressures

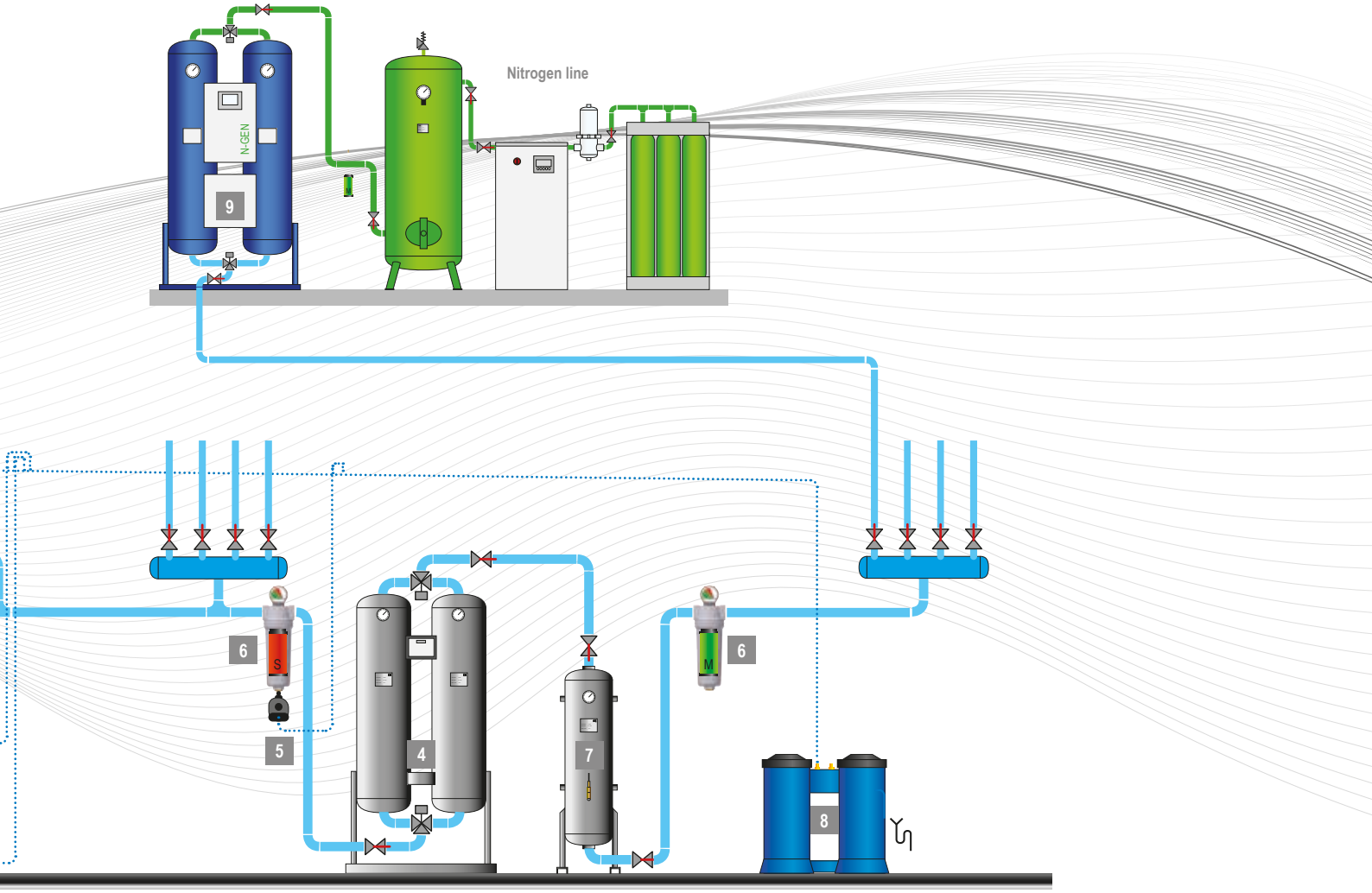
4. Compressed air dryer : Compressed air leaving the compressor aftercooler and moisture separator is normally warmer than the ambient air and fully saturated with moisture. As the air cools the moisture will condense in the compressed air lines. Excessive entrained moisture can result in undesired pipe corrosion and contamination at point of end use.

For this reason some sort of air dryer is normally required.

Some end use applications require very dry air, such as compressed air distribution systems where pipes are exposed to winter conditions. Drying the air to dew points below ambient conditions is necessary to prevent ice buildup.

Common types:

- Refrigerant
- Dessicant
- Membrane



5. Condensate drain: Drains are needed at all separators, filters, dryers and receivers in order to remove the liquid condensate from the compressed air system.

Failed drains can allow slugs of moisture to flow downstream that can overload the air dryer and foul end use equipment.

6. Filter: Compressed air filters are used for high efficient removal of solid particles, water, oil aerosols, hydrocarbons, odour and vapours from compressed air systems.

To meet the required compressed air quality appropriate filter element must be installed into filter housing.

7. Activated carbon tower: Activated carbon tower eliminates hydrocarbon vapours and odours from compressed air. Towers are filled with activated carbon adsorbent that adsorbs contaminants onto the surface of its internal pores. Activated carbon towers are used at applications where content of oil vapours needs to be reduced to minimum.

Activated carbon towers can be incorporated in existing compressed air systems significantly minimising the risks of contamination.

They are able to absorb oil carry-over (both liquid and vapour) to provide the plant with technically oil-free compressed air.

8. Oil/water separator: Local environmental laws and regulations state that condensate drained from compressed air systems cannot be returned to the sewage system due to the content of compressor lubricating oil. Water/oil separators are one of the most efective and economical solution. Multi-stage separation process using oleophilic filters and activated carbon, ensures exceptional performance and trouble free operation.

9. Nitrogen generator: The nitrogen generators extract the available nitrogen in the ambient air from the other gases by applying the Pressure Swing Adsorption (PSA) technology. During the PSA process compressed, cleaned ambient air is led to a molecular sieve bed, which allows the nitrogen to pass through as a product gas, but adsorbs other gases.

End user advice

- Replace inappropriate end use applications with efficient models (vortex nozzles, atomizers)
- Install a flow controller to lower plant pressure and reduce artificial demand caused by higher than required pressures
- Turn off air consuming equipment, using electric solenoids or manual shutoff valves
- Avoid operation of air tools without a load, as this consumes more air than a tool under load
- Replace worn tools, as they often require higher pressure and consume excess compressed air than tools in good shape
- Lubricate air tools as recommended by the manufacturer. Keep air used by all end uses free of condensate in order to maximize tool life and effectiveness
- Where possible and practical, group end use air equipment that has similar air requirements of pressure and air quality

CHF SERIES ALUMINUM COMPRESSED AIR FILTERS

Applications

- General industrial applications
- Automotive
- Electronics
- Food and beverage
- Chemical
- Petrochemical
- Plastics
- Paint

At a glance…

Operating Pressure
17 bar

Connections
3/8" - 3"

Flow Rate
18 - 18247 cfm

The reliability of compressed air filtration is paramount to the ongoing fight against problems caused through contamination entering the air system. Contamination in the form of dirt, oil and water can lead to:

- **Pipescale and corrosion within pressure vessels**
- **Damage to production equipment, air motors, air tools, valves and cylinders**
- **Premature and unplanned desiccant replacement for adsorption dryers**
- **Spoiled product**

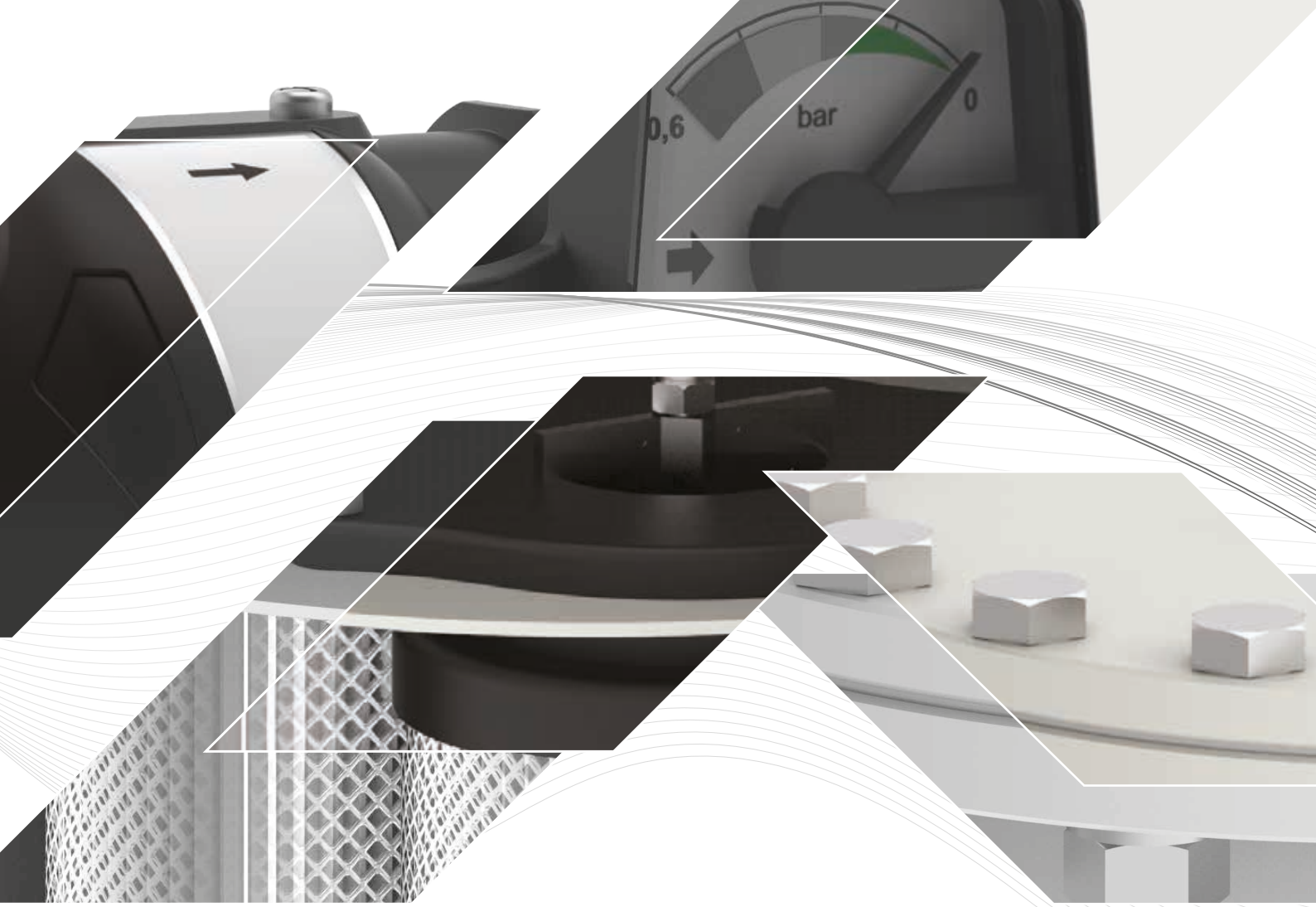
The Champion filtration range offers various products and grades of filtration to provide peace of mind whatever the air quality requirement. It has been designed with focus on reliability and efficiency.

Designed and Built for Exceptional Performance

The advanced compressed air filter range from Champion reduces contamination in your air stream to help protect your critical processes and valuable equipment. These filters are rigorously tested and engineered with superior components to provide years of reliable performance and consistently high-quality air.

The standard for high-quality air

The Champion filter range provides clean, high-quality air as defined by ISO 8573.1:2010 and are certified by a third party under ISO 12500-1.



Compressed Air Purification - The perfect choice!

Water Separation – The CHF Range of water separators

The CHF-range of water separators provide bulk condensed water and liquid oil removal and are used to protect coalescing filters against bulk liquid contamination.

0.5 – 200 m³/min*

18 – 7062 cfm*

Filtration – The CHF Range of compressed air filters

The CHF-range of filters efficiently removes water and oil aerosols, atmospheric dirt and solid particles, rust, pipescale and micro-organisms.

0.5 – 45 m³/min*

18 – 1600 cfm*

Compressed air contamination will ultimately lead to:

- **Inefficient production processes**
- **Spoiled, damaged or reworked products**
- **Reduced production efficiency**
- **Increased manufacturing costs**

Filtration – The CHF Range of flanged filters**

For larger flowrate or higher pressure applications the flanged filters are available in the standard four filtration grades.

48 – 516 m³/min*

1702 – 18247 cfm*

* Flow rate at 20° C, 7 bar

** On request

COMPRESSED AIR FILTERS

Superior Filtration Technology

- **A** **Patented dual indicator (optional accessory)** shows differential pressure drop and economical operating efficiency
- **B** **Patented smooth bore flow insert** directs air into the filter element, minimising turbulence and pressure losses
- **C** **All-aluminum, precision die cast body** suitable for 80°C and 17 bar g maximum working pressure applications
- **D** **Proprietary coating** applied to the inside and outside surfaces provides corrosion protection in harsh industrial environments
- **E** **Filter element with stainless steel mesh** withstands high differential pressure while minimizing flow restriction through the element
- **F** **Ergonomic bowl design with no-touch filter element** simplifies element replacement
- **G** **Time strip label** indicates when it's time to change the element (CHF Grade only)
- **H** **Reliable discharge** The M and S grade filters and water separators are equipped with internal float drain. The Particulate (R) and Activated Carbon (A) filters have manual drain
- **I** **Deep-pleated filter media** reduces air flow velocity to maximise filtration efficiency and minimise pressure losses
- **J** **High-efficiency drainage layer** improves liquid drainage properties and enhances chemical compatibility
- **K** **Simple visual alignment** of the filter head and bowl ensures accurate assembly of components and helps to improve safety

High efficiency bulk liquid removal

Water separators remove bulk liquids such as condensate, water and liquid oil from the air flow through directional and centrifugal separation. Installed before a coalescing filter the water separator can provide added protection against bulk liquid contamination enabling the filter to operate more efficiently.

The CHF Series water separator range from Champion can operate across various flow conditions and have been optimised to reduce differential pressure with very low maintenance.

Technical Data - Compressed Air Condensate Separators - CHF Series

SEPARATOR MODEL	CHAMPION PART NUMBER [CCN]	CONNECTION SIZE	FLOW RATE		MAX. PRESSURE		DIMENSIONS		WEIGHT
			[m³/min]	[cfm]	[bar]	[psi]	W [mm]	H [mm]	[kg]
CHF005W	**47700907001**	3/8"	0.50	18	17	250	76	175	0.6
CHF007W	**47700908001**	1/2"	0.66	23	17	250	76	175	0.6
CHF018W	**47700909001**	3/4"	1.8	64	17	250	98	230	1.2
CHF040W	**47700910001**	1"	4.0	141	17	250	129	268	2.2
CHF085W	**47700911001**	1 1/2"	8.5	300	17	250	129	268	2.1
CHF170W	**47700912001**	2"	17.0	600	17	250	170	467	5.1
CHF380W	**47700913001**	3"	38.0	1342	17	250	205	548	20

Technical Data - Compressed Air Filters CHF Series - Grade M

FILTER MODEL	PN	CONNECTION SIZE	FLOW RATE		MAX. PRESSURE		DIMENSIONS		WEIGHT	FILTER ELEMENT
			[m³/min]	[cfm]	[bar]	[psi]	W [mm]	H [mm]	[kg]	
CHF005M	**47698906001**	3/8"	0.5	18	17	250	76	225	0.55	**47699428001**
CHF007M	**47698907001**	1/2"	0.7	24	17	250	76	225	0.55	**47699432001**
CHF013M	**47698908001**	3/4"	1.3	44	17	250	98	280	1.07	**47699436001**
CHF018M	**47698909001**	3/4"	1.8	65	17	250	98	280	1.09	**47699440001**
CHF025M	**47698910001**	1"	2.5	88	17	250	129	319	2.06	**47699444001**
CHF032M	**47698911001**	1"	3.2	112	17	250	129	319	2.06	**47699448001**
CHF038M	**47698912001**	1"	3.8	135	17	250	129	319	2.06	**47699452001**
CHF067M	**47698913001**	1 1/2"	6.7	235	17	250	129	409	2.36	**47699456001**
CHF082M	**47698914001**	1 1/2"	8.2	288	17	250	129	409	2.36	**47699460001**
CHF100M	**47698915001**	2"	10	353	17	250	170	518	5.2	**47699464001**
CHF0133M	**47698916001**	2"	13.3	471	17	250	170	518	5.24	**47699468001**
CHF0167M	**47698917001**	2"	16.7	589	17	250	170	518	5.26	**47699472001**
CHF0200M	**47698918001**	3"	20	706	17	250	205	600	9.31	**47699476001**
CHF0260M	**47698919001**	3"	26	918	17	250	205	700	10.69	**47700081001**
CHF0305M	**47698920001**	3"	30.5	1077	17	250	205	700	10.69	**47700085001**
CHF0383M	**47698921001**	3"	38.3	1354	17	250	205	930	13.7	**47700089001**
CHF0450M	**47698922001**	3"	45	1589	17	250	205	930	13.7	**47700093001**

COMPRESSED AIR FILTERS

Technical Data - Compressed Air Filters CHF Series - Grade S

FILTER MODEL	PN	CONNECTION SIZE	FLOW RATE		MAX. PRESSURE		DIMENSIONS		WEIGHT	FILTER ELEMENT
			[m³/min]	[cfm]	[bar]	[psi]	W [mm]	H [mm]	[kg]	
CHF005S	**47698923001**	3/8"	0.5	18	17	250	76	225	0.55	**47699429001**
CHF007S	**47698924001**	1/2"	0.7	24	17	250	76	225	0.55	**47699433001**
CHF013S	**47698925001**	3/4"	1.3	44	17	250	98	280	1.07	**47699437001**
CHF018S	**47698926001**	3/4"	1.8	65	17	250	98	280	1.09	**47699441001**
CHF025S	**47698927001**	1"	2.5	88	17	250	129	319	2.06	**47699445001**
CHF032S	**47698928001**	1"	3.2	112	17	250	129	319	2.06	**47699449001**
CHF038S	**47698929001**	1"	3.8	135	17	250	129	319	2.06	**47699453001**
CHF067S	**47698930001**	1 1/2"	6.7	235	17	250	129	409	2.36	**47699457001**
CHF082S	**47698931001**	1 1/2"	8.2	288	17	250	129	409	2.36	**47699461001**
CHF100S	**47698932001**	2"	10	353	17	250	170	518	5.2	**47699465001**
CHF0133S	**47698933001**	2"	13.3	471	17	250	170	518	5.24	**47699469001**
CHF0167S	**47698934001**	2"	16.7	589	17	250	170	518	5.26	**47699473001**
CHF0200S	**47698935001**	3"	20	706	17	250	205	600	9.31	**47700078001**
CHF0260S	**47698936001**	3"	26	918	17	250	205	700	10.69	**47700082001**
CHF0305S	**47698937001**	3"	30.5	1077	17	250	205	700	10.69	**47700086001**
CHF0383S	**47698938001**	3"	38.3	1354	17	250	205	930	13.7	**47700090001**
CHF0450S	**47698939001**	3"	45	1589	17	250	205	930	13.7	**47700094001**

Technical Data - Compressed Air Filters CHF Series - Grade A

FILTER MODEL	PN	CONNECTION SIZE	FLOW RATE		MAX. PRESSURE		DIMENSIONS		WEIGHT	FILTER ELEMENT
			[m³/min]	[cfm]	[bar]	[psi]	W [mm]	H [mm]	[kg]	
CHF005A	**47698957001**	3/8"	0.5	18	17	250	76	225	0.55	**47699431001**
CHF007A	**47698958001**	1/2"	0.7	24	17	250	76	225	0.55	**47699435001**
CHF013A	**47698959001**	3/4"	1.3	44	17	250	98	280	1.07	**47699439001**
CHF018A	**47698960001**	3/4"	1.8	65	17	250	98	280	1.09	**47699443001**
CHF025A	**47698961001**	1"	2.5	88	17	250	129	319	2.06	**47699447001**
CHF032A	**47698962001**	1"	3.2	112	17	250	129	319	2.06	**47699451001**
CHF038A	**47698963001**	1"	3.8	135	17	250	129	319	2.06	**47699455001**
CHF067A	**47698964001**	1 1/2"	6.7	235	17	250	129	409	2.36	**47699459001**
CHF082A	**47698965001**	1 1/2"	8.2	288	17	250	129	409	2.36	**47699463001**
CHF100A	**47698966001**	2"	10	353	17	250	170	518	5.2	**47699467001**
CHF0133A	**47698967001**	2"	13.3	471	17	250	170	518	5.24	**47699471001**
CHF0167A	**47698968001**	2"	16.7	589	17	250	170	518	5.26	**47699475001**
CHF0200A	**47698969001**	3"	20	706	17	250	205	600	9.31	**47700080001**
CHF0260A	**47698970001**	3"	26	918	17	250	205	700	10.69	**47700084001**
CHF0305A	**47698971001**	3"	30.5	1077	17	250	205	700	10.69	**47700088001**
CHF0383A	**47698972001**	3"	38.3	1354	17	250	205	930	13.7	**47700092001**
CHF0450A	**47698973001**	3"	45	1589	17	250	205	930	13.7	**47700096001**

Technical Data - Compressed Air Filters CHF Series - Grade R

FILTER MODEL	PN	CONNECTION SIZE	FLOW RATE		MAX. PRESSURE		DIMENSIONS		WEIGHT	FILTER ELEMENT
			[m³/min]	[cfm]	[bar]	[psi]	W [mm]	H [mm]	[kg]	
CHF005R	**47698940001**	3/8"	0.5	18	17	250	76	225	0.55	**47699430001**
CHF007R	**47698941001**	1/2"	0.7	24	17	250	76	225	0.55	**47699434001**
CHF013R	**47698942001**	3/4"	1.3	44	17	250	98	280	1.07	**47699438001**
CHF018R	**47698943001**	3/4"	1.8	65	17	250	98	280	1.09	**47699442001**
CHF025R	**47698944001**	1"	2.5	88	17	250	129	319	2.06	**47699446001**
CHF032R	**47698945001**	1"	3.2	112	17	250	129	319	2.06	**47699450001**
CHF038R	**47698946001**	1"	3.8	135	17	250	129	319	2.06	**47699454001**
CHF067R	**47698947001**	1 1/2"	6.7	235	17	250	129	409	2.36	**47699458001**
CHF082R	**47698948001**	1 1/2"	8.2	288	17	250	129	409	2.36	**47699462001**
CHF100R	**47698949001**	2"	10	353	17	250	170	518	5.2	**47699466001**
CHF0133R	**47698950001**	2"	13.3	471	17	250	170	518	5.24	**47699470001**
CHF0167R	**47698951001**	2"	16.7	589	17	250	170	518	5.26	**47699474001**
CHF0200R	**47698952001**	3"	20	706	17	250	205	600	9.31	**47700079001**
CHF0260R	**47698953001**	3"	26	918	17	250	205	700	10.69	**47700083001**
CHF0305R	**47698954001**	3"	30.5	1077	17	250	205	700	10.69	**47700087001**
CHF0383R	**47698955001**	3"	38.3	1354	17	250	205	930	13.7	**47700091001**
CHF0450R	**47698956001**	3"	45	1589	17	250	205	930	13.7	**47700095001**

Grade M - General Purpose Protection

Particle removal down to 0.1 micron including coalesced liquid, water and oil, providing a maximum remaining oil aerosol content of 0.03 mg/m³ @ 21°C

Grade S - High Efficiency Oil Removal Filtration

Particle removal down to 0.01 micron including water and oil aerosols, providing a maximum remaining oil aerosol content of 0.01 mg/m³ @ 21°C
(Precede with Grade M filter)

Grade A - Activated Carbon Filtration

Oil vapor and hydrocarbon odor removal, providing a maximum remaining oil content of <0.003 mg/m³ (<0.003 ppm) @ 21°C (Precede with Grade S filter)

Grade R - General Purpose Dust Filtration

Dust particle removal down to 1 micron

Operating Limitations:

Max Operating Pressure	17.2 bar g	Max Recommended Operating Temp	50°C (Grade A)
Max Recommended Operating Temp	80°C (Grade M, S, R)	Min Recommended Operating Temp	1°C

LINE PRESSURE	bar g	1	2	3	5	7	9	11	13	15	17
CORRECTION FACTOR		0.38	0.53	0.65	0.85	1.00	1.13	1.25	1.36	1.46	1.56

To use correction factors, multiply the filter's capacity by the correction factor to get the new filter flow capacity at the non-standard operating pressure.
For example, a 190 m³/h filter operating at 11 bar has a correction factor of 1.25. 1.25 x 190 = 237.5 m³/h capacity at 11 bar.

CHR SERIES REFRIGERATION AIR DRYERS

Applications

- Compressed air systems

At a glance…

Operating Pressure
16/14 bar g

Inlet air temperature
35 °C (55° max)

Ambient temperature
25 °C (45° max)

The advanced design and innovative technology offered by CHR Series refrigeration dryers provides an optimised performance alongside a more efficient mode of management.

The electronic controller, complete with user-friendly interface, has been simplified to focus on the essential functions of operation and regulation, including the unique fan control (CHR6 – CHR167).

Simplicity in design, unrivalled reliability, and extraordinary value for money are the core strengths of this new family of units.

Standard voltage

- CHR6 – CHR36: 230V/1ph/50-60Hz
- CHR47 – CHR167: 230V/1ph/50Hz
- CHR217 – CHR350: 400V/3ph/50Hz

Available options

- Non-standard voltages
  CHR47 – CHR125 are available with 230V/1ph/60Hz
  CHR217 is available with 460V/3ph/60Hz
- All models are available with NPT connections

Main design features

Variable speed fan

The only one in the market to offer a complete control of the dew point through the variable speed fan controlled by the microprocessor. Thanks to this solution we've eliminated the hot gas bypass valve and the fan pressure switch, critical components for the defects of this type of machines.

Multi-function control panel

It offers a wide range of parameters and alarms such as: high temperature, low temperature (antifreeze), probe failure, alarm history, etc.

New heat exchangers

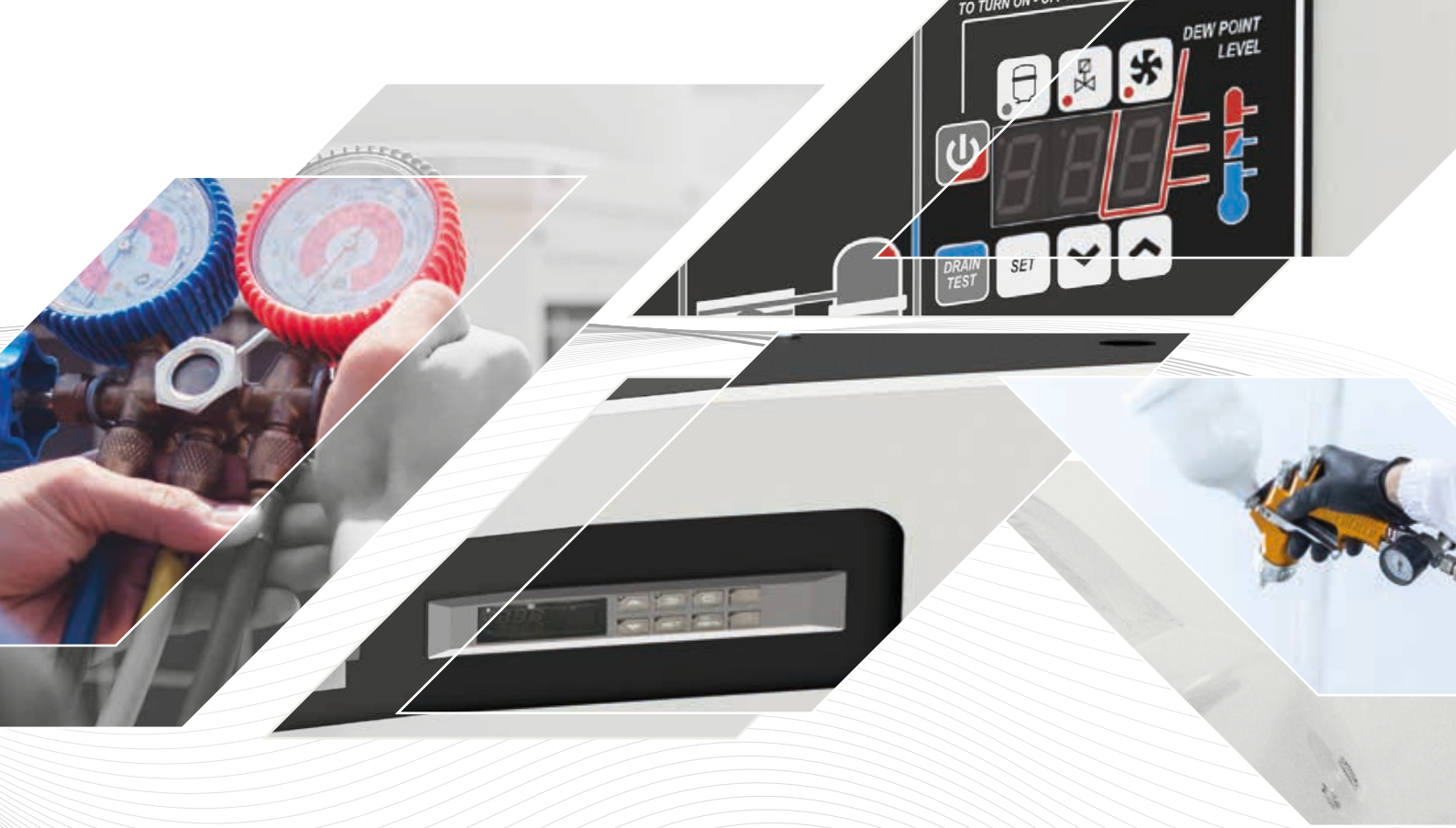
Completely designed in our laboratories to guarantee the desired level of performances with the lowest pressure drop.

Energy saving and antifreeze mode

The compressor stops in case of low load and ambient temperature below 15 °C.

Compact and simple design

Sheet metal panels and internal components designed in order to reduce costs during assembly, maintaining the high quality guaranteed by Champion.



For higher capacities up to 45 m³/min (2,700 m³/h) please contact the Champion Sales Team

DRYER	PN	AIR FLOW		ABSORBED POWER	POWER SUPPLY	MAX PRESSURE	AIR CONNECTIONS	REFRIGERANT	DIMENSIONS		
		[m³/h]	[m³/min]	[kW]	[V/PH/HZ]	[bar g]	[BSP]		W [mm]	D [mm]	H [mm]
CHR6	**47703069001**	36	0.60	0.12	230/1/50-60	16	3/8"	R513A	305	360	408
CHR9	**47703070001**	54	0.90	0.17	230/1/50-60	16	1/2"	R513A	325	430	445
CHR12	**47703071001**	72	1.20	0.17	230/1/50-60	16	1/2"	R513A	325	430	445
CHR18	**47703072001**	108	1.80	0.29	230/1/50-60	16	1/2"	R513A	325	430	445
CHR24	**47703073001**	144	2.40	0.41	230/1/50-60	16	3/4"	R513A	395	486	565
CHR30	**47703074001**	180	3.00	0.47	230/1/50-60	16	3/4"	R513A	395	486	565
CHR36	**47703075001**	216	3.60	0.61	230/1/50-60	16	3/4"	R513A	395	486	565
CHR47	**47703076001**	280	4.67	0.6	230/1/50	16	1"	R407C	485	595	614
CHR57	**47703077001**	340	5.67	0.6	230/1/50	16	1"	R407C	485	595	614
CHR83	**47703078001**	500	8.33	0.9	230/1/50	16	1-1/2"	R407C	500	660	970
CHR102	**47703079001**	610	10.17	0.9	230/1/50	16	1-1/2"	R407C	500	660	970
CHR125	**47703080001**	750	12.50	1.23	230/1/50	14	2"	R407C	520	800	1195
CHR167	**47703081001**	1000	16.67	1.43	230/1/50	14	2-1/2"	R407C	520	835	1195
CHR217	**47703082001**	1300	21.67	2.14	400/3/50	14	2-1/2"	R407C	520	835	1230
CHR333	**47703083001**	2000	33.33	2.78	400/3/50	14	3"	R407C	806	1012	1539
CHR417	**47703084001**	2500	41.67	3.54	400/3/50	14	3"	R407C	806	1012	1539
CHR500	**47716993001**	3540	59.00	6.29	400/3/50	13	DN125	R407C	1500	1500	1555
CHR700	**47716994001**	4956	82.60	7.29	400/3/50	13	DN125	R407C	1500	1500	1555
CHR800	**47716995001**	5664	94.40	9.52	400/3/50	13	DN150	R407C	1500	1500	1555
CHR900	**47716996001**	6372	106.20	9.52	400/3/50	13	DN150	R407C	1500	1500	1555

Timer drain as standard, electronic no loss drain option on request on Models CHR6 - CHR217. Integrated zero loss drain as standard on Models CHR333 and CHR417.

CORRECTION FACTOR FOR WORKING PRESSURE														
OPERATING PRESSURE [bar]	3	4	5	6	7	8	9	10	11	12	13	14	15	16
CORRECTION FACTOR FC1	0.70	0.78	0.85	0.93	1.00	1.06	1.11	1.15	1.18	1.20	1.22	1.24	1.25	1.26

CORRECTION FACTOR FOR INLET AIR TEMPERATURE CHANGES						
TEMPERATURE [°C]	30	35	40	45	50	55
CORRECTION FACTOR FC2	1.20	1.00	0.85	0.71	0.58	0.49

CORRECTION FACTOR FOR AMBIENT TEMPERATURE CHANGES						
TEMPERATURE [°C]	25	30	35	40	42	45
CORRECTION FACTOR FC3	1.00	0.96	0.92	0.88	0.85	0.80

Calculation for correct Dryer Air flow = Nominal Dryer Air Flow x FC1 x FC2 x FC3

MODULAR DESICCANT DRYERS

Applications

- Automotive
- Food and beverage
- Pharmaceutical
- Chemical
- Oil & Gas

At a glance…

Operating Pressure
14 bar

Flow Rate
0.08 - 5.00 m³/min

Pressure Dew Points
-40°C (-25°C / -70°C)

A-Series modular compressed air dryers - a dedicated solution for every application

By combining the proven benefits of desiccant drying with modern design, Champion provides an extremely compact and reliable system to dry and clean compressed air efficiently.
At the heart of any compressed air treatment solution is the dryer, its purpose, to remove water vapour, stop condensation, corrosion and in the case of adsorption dryers, inhibit the growth of micro-organisms.
The Champion A-Series of heatless regenerative desiccant dryers have proven to be the ideal solution for many thousands of compressed air users worldwide in a wide variety of industries.

Advantages at a glance:

- Robust and reliable industry-proven design
- Suitable for all industries and applications - some desiccant dryer regeneration methods prevent their use in certain industries/applications
- Lower capital investment and reduced complexity compared to other dryer regeneration methods
- Lower maintenance costs in comparison to other dryer regeneration methods
- No heat, heaters, or heat-related issues

High air quality, low cost of ownership

Features are your benefits

High Air Quality:
Delivers ISO Class 2 or Class 1 pressure dew point air for critical applications; high efficiency pre and post-filters provide constant high air quality, protecting downstream air from contamination.

Superior Reliability:
Proven electronic control performance indicators, extruded aluminium with anodisation and epoxy painting, and NEMA 3/IP54 Protection (also suitable for outdoor installation) make desiccant dryers durable and high-strength.

Total Cost of Investment:
Reduced cost of ownership with point of use design to treat only the required air, conservative pressure drop 0.2 Barg, and purge reduction on compressed air demand (on/off-load).

Ease of Use:
User-friendly electronic interface with alarm indicators available for models 40 and above.

Serviceability:
Modular dryers feature an optimised design for simplified maintenance and preventative maintenance alerts (models 40 and above).

Compact & Flexible Solution:
Space-saving design for optimised installation with air inlet and outlet in the back of unit and connection piping can come from right or left. Model up to 0.42 m³/min can be wall-mounted or installed horizontally

Performance Improvement:
Extended rated pressure range from 4 to 14 Barg and increased airflow range coverage up to 300 m³/h. Guaranteed class 2 (-40°C) and optionally class 1 (-70°C) pressure dew point.

Longer Cycle Life:
Modular dryers have a longer cyle time, 10 minutes, than most competitors (4 to 8 minutes maximum).

CHA1M -40°C to AX50M -40°C Series

TYPE	PART NO	CAPACITY			MAX PRESSURE		PRESSURE DEW POINT	AIR IN/OUT CONNEC-TION	POWER SUPPLY	DIMENSIONS [MM]			WEIGHT	DESICCANT PER TOWER
		[m³/min]	[m³/h]	[SCFM]	[bar g]	[psig]	[°C]	[BSP (in)]	[V/Ph/Hz]	[W]	[D]	[H]	[kg]	[kg]
CHA1 -40°C	47700856001	0.08	5	3	14	203	-40	3/8"	230/1/50-60	238	212	423	11	0.7
CHA3 -40°C	47700857001	0.25	15	9	14	203	-40	3/8"	230/1/50-60	238	212	823	18	2.2
CHA4 -40°C	47700858001	0.42	25	15	14	203	-40	3/8"	230/1/50-60	238	212	1073	27	3.0
CHA7 -40°C	47700859001	0.67	40	24	14	203	-40	3/4"	230/1/50-60	475	405	968	44	6.4
CHA9 -40°C	47700860001	0.92	55	32	14	203	-40	3/4"	230/1/50-60	475	405	1118	50	8.4
CHA12 -40°C	47700861001	1.17	70	41	14	203	-40	3/4"	230/1/50-60	475	405	1318	60	10.9
CHA17 -40°C	47700862001	1.67	100	59	14	203	-40	1"	230/1/50-60	475	405	1673	73	15.4
CHA25 -40°C	47700863001	2.50	150	88	14	203	-40	1"	230/1/50-60	475	405	1873	90	18.0
CHA33 -40°C	47700864001	3.33	200	118	14	203	-40	1 1/2"	230/1/50-60	536	495	1705	177	30.8
CHA42 -40°C	47700865001	4.17	250	147	14	203	-40	1 1/2"	230/1/50-60	536	495	1905	180	35.9
CHA50 -40°C	47700866001	5.00	300	177	14	203	-40	1 1/2"	230/1/50-60	536	495	1905	188	35.9

CHA7 -40°C DS to AX50M -40°C DS Series

TYPE	PART NO	CAPACITY			MAX PRESSURE		PRESSURE DEW POINT	AIR IN/OUT CONNEC-TION	POWER SUPPLY	DIMENSIONS [MM]			WEIGHT	DESICCANT PER TOWER
		[m³/min]	[m³/h]	[SCFM]	[bar g]	[psig]	[°C]	[BSP (in)]	[V/Ph/Hz]	[W]	[D]	[H]	[kg]	[kg]
CHA7 -40°C ES	47700867001	0.67	40	24	14	203	-40	3/4"	230/1/50-60	475	405	968	44	6.4
CHA9 -40°C ES	47700868001	0.92	55	32	14	203	-40	3/4"	230/1/50-60	475	405	1118	50	8.4
CHA12 -40°C ES	47700869001	1.17	70	41	14	203	-40	3/4"	230/1/50-60	475	405	1318	60	10.9
CHA17 -40°C ES	47700870001	1.67	100	59	14	203	-40	1"	230/1/50-60	475	405	1673	73	15.4
CHA25 -40°C ES	47700871001	2.50	150	88	14	203	-40	1"	230/1/50-60	475	405	1873	90	18.0
CHA33 -40°C ES	47700872001	3.33	200	118	14	203	-40	1 1/2"	230/1/50-60	536	495	1705	177	30.8
CHA42 -40°C ES	47700873001	4.17	250	147	14	203	-40	1 1/2"	230/1/50-60	536	495	1905	180	35.9
CHA50 -40°C ES	47700874001	5.00	300	177	14	203	-40	1 1/2"	230/1/50-60	536	495	1905	188	35.9

CHA7 -70°C to CHA50M -70°C Series

TYPE	PART NO	CAPACITY			MAX PRESSURE		PRESSURE DEW POINT	AIR IN/OUT CONNEC-TION	POWER SUPPLY	DIMENSIONS [MM]			WEIGHT	DESICCANT PER TOWER
		[m³/min]	[m³/h]	[SCFM]	[bar g]	[psig]	[°C]	[BSP (in)]	[V/Ph/Hz]	[W]	[D]	[H]	[kg]	[kg]
CHA7 -70°C	47700875001	0.53	32	19	14	203	-70	3/4"	230/1/50-60	475	405	968	44	6.4
CHA9 -70°C	47700876001	0.73	44	26	14	203	-70	3/4"	230/1/50-60	475	405	1118	50	8.4
CHA12 -70°C	47700877001	0.93	56	33	14	203	-70	3/4"	230/1/50-60	475	405	1318	60	10.9
CHA17 -70°C	47700878001	1.33	80	47	14	203	-70	1"	230/1/50-60	475	405	1673	73	15.4
CHA25 -70°C	47700879001	2.00	120	71	14	203	-70	1"	230/1/50-60	475	405	1873	90	18.0
CHA33 -70°C	47700880001	2.67	160	94	14	203	-70	1 1/2"	230/1/50-60	536	495	1705	177	30.8
CHA42 -70°C	47700881001	3.33	200	118	14	203	-70	1 1/2"	230/1/50-60	536	495	1905	180	35.9
CHA50 -70°C	47700882001	4.00	240	142	14	203	-70	1 1/2"	230/1/50-60	536	495	1905	188	35.9

CORRECTION FACTORS

		INLET AIR PRESSURE										
	bar g	4	5	6	7	8	9	10	11	12	13	14
INLET AIR TEMPERATURE	35°C	0.63	0.75	0.88	1.00	1.14	1.25	1.37	1.49	1.64	1.75	1.89
	40°C	0.55	0.66	0.77	0.88	1.00	1.00	1.20	1.32	1.43	1.54	1.64
	45°C	0.45	0.54	0.63	0.72	0.81	0.90	1.00	1.08	1.18	1.27	1.35
	50°C	0.32	0.39	0.45	0.52	0.58	0.65	0.71	0.78	0.85	0.91	0.97

		INLET AIR PRESSURE										
	psi g	58	73	87	102	116	131	145	160	174	189	203
INLET AIR TEMPERATURE	95°F	0.63	0.75	0.88	1.00	1.14	1.25	1.37	1.49	1.64	1.75	1.89
	104°F	0.55	0.66	0.77	0.88	1.00	1.00	1.20	1.32	1.43	1.54	1.64
	113°F	0.45	0.54	0.63	0.72	0.81	0.90	1.00	1.08	1.18	1.27	1.35
	122°F	0.32	0.39	0.45	0.52	0.58	0.65	0.71	0.78	0.85	0.91	0.97

Prefilters and Postfilter are supplied as standard on Modular Dryers.

Prefilter

Particle removal down to 0.01 micron

- Including water and oil aerosols
- Maximum remaining oil aerosol content of 0.01 mg/m³ @ 21°C

Postfilter

Particle removal down to 0.1 micron

- Including coalesced liquid, water and oil
- Maximum remaining oil aerosol content of 0.03 mg/m³ @ 21°C

TWIN TOWER HEATLESS DESICCANT DRYERS

At a glance…

Capacity
400 - 8500 m³/hr

Weight
285 - 4400 kg

Connection Size
1½ - 3"

Applications

- Air bearings
- Instrument Air
- Sand blasting
- Air gauging
- Spray painting
- Chemical Process - Oxydation, Ammonia Production
- Conveying, powder products
- Fluidics, sensors
- Food & beverages, direct air contact
- Micro-electronics manufacture
- Clean room processing air - blanketing
- Food & beverage - packaging, forming
- Photographic film processing

Premium in-house air treatment manufacturing

A modern production system and process demands increasing levels of air quality, and compressed air operators need to ensure that the downstream equipment also delivers on it 100%.

The new downstream portfolio manufactured by Champion utilising the latest technology provides an energy efficient solution at the lowest life cycle costs. The same quality, performance, and efficiency standards delivered by the compressors can now be enjoyed from the air treatment range.

Investment in our manufacturing site, in addition to the support teams, ensures that compressed air operators don't need to worry about the quality of their compressed air – quality that is key to ensuring maximum production efficiency and investment protection.

TYPE	PART NO	CONNECTION SIZE	CAPACITY		WEIGHT	DIMENSIONS		
		[inch]	[m³/hr]	[m³/hr]	[kg]	LENGTH	WIDTH	HEIGHT
CHT67F	**47726991001**	1 ½"	400	340	285	2160	825	530
CHT83F	**47726992001**	1 ½"	500	425	400	2380	796	550
CHT125F	**47726993001**	2"	750	637.5	520	2117	970	620
CHT150F	**47726994001**	2"	900	765	700	2305	970	620
CHT67FS	**47727056001**	1 ½"	400	340	285	2160	825	530
CHT83FS	**47727057001**	1 ½"	500	425	400	2380	796	550
CHT125FS	**47727058001**	2"	750	637.5	520	2117	970	620
CHT150FS	**47727059001**	2"	900	765	700	2305	970	620
CHT67F-70	**47727069001**	1 ½"	400	340	285	2160	825	530
CHT83F-70	**47727070001**	1 ½"	500	425	400	2380	796	550
CHT125F-70	**47727071001**	2"	750	637.5	520	2117	970	620
CHT150F-70	**47727072001**	2"	900	765	700	2305	970	620

CHT67F to CHT150F is standard at -40°C PDP, CHT67FS to CHT150FS is standard at -40°C PDP with Energy Management System, CHT67F-70 to CHT150F-70 is at -70°C PDP

CHM-DRY SERIES
MEMBRANE DRYERS

At a glance…

Operating Pressure
12 bar

Flow Rate
0.05 - 3 m³/min

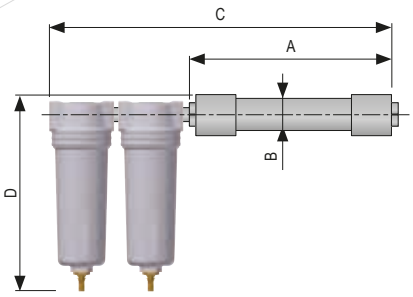
Pipe Size
¼ - 1"

Operating Temp. Range
1.5 - 60°C

Applications

- Automotive painting
- Industrial "Point-Of-Use" drying
- Low dew point instrument air
- Pneumatics
- Medical air
- Analytical Equipment
- Pressurising electrical cabinets

CHM-DRY membrane air dryers have been developed for high efficient removal of water vapours from compressed air.



TYPE	PART NO	PIPE SIZE	OPERATING PRESSURE	FLOW RATE *		DIMENSIONS			
		[inch]	[bar]	[m³/min]	[cfm]	A [mm]	B [mm]	C [mm]	D [mm]
CHM-DRY 3	**CC1189577**	¼	12	0.05	1.8	224	43.7	325	175
CHM-DRY 6	**CC1189578**	¼	12	0.1	3.5	325	43.7	453	175
CHM-DRY 9	**CC1189579**	¼	12	0.15	5.3	427	43.7	555	175
CHM-DRY 12	**CC1189580**	¼	12	0.2	7.1	503	43.7	611	175
CHM-DRY 18	**CC1189581**	½	12	0.3	10.6	312	61	476	208
CHM-DRY 24	**CC1189582**	½	12	0.4	14.1	376	61	540	208
CHM-DRY 32	**CC1189583**	½	12	0.6	21.2	465	61	661	208
CHM-DRY 44	**CC1189584**	½	12	0.8	28.3	592	61	788	208
CHM-DRY 63	**CC1189585**	½	12	1.05	37.1	411	89	607	208
CHM-DRY 90	**CC1189586**	½	12	1.5	53	551	89	755	284
CHM-DRY 123	**CC1189587**	½	12	2.05	72.4	551	89	577	284
CHM-DRY 180	**CC1189588**	½	12	3	106.6	607	114	1,805	290

* At 7 bar, inlet dew point 35 °C, outlet dew point 15 °C.

Prices includes complete kit.

OPERATING PRESSURE - CORRECTION FACTORS - C									
OPERATING PRESSURE [bar]	4	5	6	7	8	9	10	11	12
OPERATING PRESSURE [psi]	58	72	87	100	115	130	145	160	174
CORRECTION FACTOR	0.41	0.56	0.76	1	1.22	1.48	1.76	1.86	2.22

CHACA SERIES
AIR COOLED AFTERCOOLERS

At a glance…

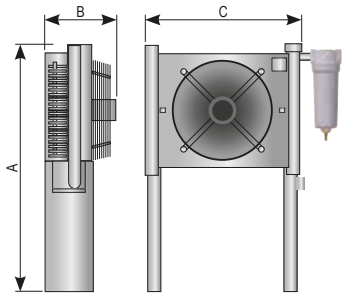
Operating Pressure
7 - 15 bar

Flow Rate
1.1 - 75 m³/min

Operating Temp. Range
25 - 120°C

Pipe Size
1 - 2½"

Air cooled aftercoolers series CHACA have been designed to reduce compressed air temperature and water vapour dew point in compressed air system. A high efficiency axial fan forces ambient air over the heat exchangers copper tubes supported by aluminium fins, which provides the necessary cooling effect. The compressed air is cooled down to approximately 10°C above ambient temperature. CHACA aftercoolers ensures the maximum performance and protection of all equipment, such as refrigeration dryers, adsorption dryers and filters, positioned downstream of this unit.



TYPE	PART NO	FLOW RATE		PIPE SIZE	POWER SUPPLY	FAN	DIMENSIONS			WEIGHT
		[m³/min]	[cfm]		[ph/V/Hz]	[ø mm/ W]	A [mm]	B [mm]	C [mm]	[kg]
CHACA 3	**ON REQUEST**	1.1	39	G 1"	1/230/50	ø250-45W	850	300	715	19
CHACA 7	**ON REQUEST**	2.1	74	G 1"	1/230/50	ø250-45W	850	300	715	20
CHACA 10	**ON REQUEST**	3.7	131	G 1 1/2"	3/400/50	ø350-110W	990	310	845	27
CHACA 18	**ON REQUEST**	4.9	173	G 1 1/2"	3/400/50	ø400-130W	990	310	845	29
CHACA 30	**ON REQUEST**	6.5	230	G 2"	3/400/50	ø500-750W	1175	440	980	44
CHACA 47	**ON REQUEST**	8.7	307	G 2"	3/400/50	ø500-750W	1175	440	980	48
CHACA 70	**ON REQUEST**	12.9	456	G 2"	3/400/50	ø600-370W	1325	490	1130	61
CHACA 94	**ON REQUEST**	16.5	583	G 2 1/2"	3/400/50	ø600-370W	1325	490	1130	66
CHACA 150	**ON REQUEST**	21	742	DN100	3/400/50	ø800-1470W	1800	660	1590	127
CHACA 175	**ON REQUEST**	26	918	DN100	3/400/50	ø800-1470W	1800	660	1590	143
CHACA 240	**ON REQUEST**	31.5	1112	DN100	3/400/50	ø800-1470W	1800	790	1560	148
CHACA 300	**ON REQUEST**	42	1483	DN100	3/400/50	ø800-1470W	2000	795	1740	166
CHACA 450	**ON REQUEST**	51.5	1819	DN125	3/400/50	2 x ø800-1470W	2090	830	1850	212
CHACA 600	**ON REQUEST**	75	2649	DN125	3/400/50	2 x ø800-1470W	2300	850	2010	315

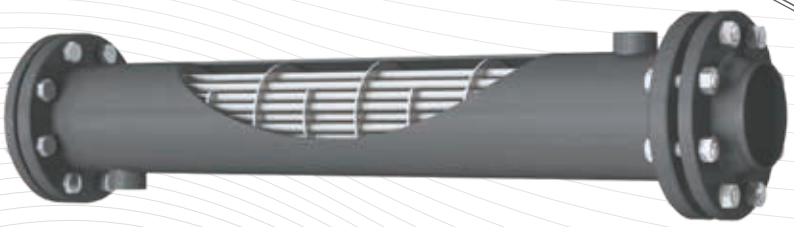
CHACW SERIES
WATER COOLED AFTERCOOLERS

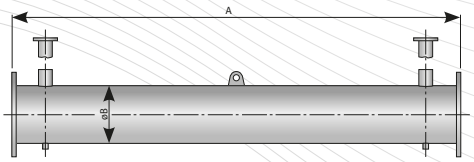
At a glance…

Operating Pressure
0 - 16 bar

Flow Rate
2.2 - 759.5 m³/min

Operating Temp. Range
1.5 - 200°C





Applications

- Automotive
- Electronics
- Food & Beverage
- Chemical
- Petrochemical
- Plastics
- Paint
- General industrial application

Water-cooled aftercoolers series CHACW have been designed, to reduce compressed air temperature thus water vapour content in compressed air system. Hot compressed air/gas passes through the tubes. Cooling water passes around the tubes in counter flow. CHACW aftercooler ensures the maximum performance and protection of all equipment, such as refrigeration dryers, adsorption dryers and filters, positioned downstream of this unit.

TYPE	PART NO	CONNECTIONS		OPERATING PRESSURE	FLOW RATE		DIMENSIONS	
		[Air]	[Water]	[bar]	[m³/min]	[cfm]	A [mm]	B [mm]
CHACW 10	**ON REQUEST**	DN50	DN20	0 - 16	2.2	78	806	60.3
CHACW 18	**ON REQUEST**	DN50	DN20	0 - 16	3.92	138	816	60.3
CHACW 30	**ON REQUEST**	DN50	DN20	0 - 16	6.12	216	816	60.3
CHACW 47	**ON REQUEST**	DN50	DN20	0 - 16	11.02	389	870	60.3
CHACW 70	**ON REQUEST**	DN50	DN20	0 - 16	15.92	562	870	60.3
CHACW 94	**ON REQUEST**	DN80	DN20	0 - 16	22.05	779	1500	88.9
CHACW 150	**ON REQUEST**	DN80	DN20	0 - 16	36.75	1298	1510	88.9
CHACW 200	**ON REQUEST**	DN100	DN40	0 - 16	44.17	1560	1500	114.3
CHACW 240	**ON REQUEST**	DN125	DN32	0 - 16	51.45	1817	1300	139.7
CHACW 300	**ON REQUEST**	DN125	DN32	0 - 16	66.15	2336	1300	139.7
CHACW 375	**ON REQUEST**	DN150	DN65	0 - 16	86.67	3060	1300	168.3
CHACW 450	**ON REQUEST**	DN200	DN50	0 - 16	117.6	4153	1300	219
CHACW 600	**ON REQUEST**	DN200	DN65	0 - 16	149.45	5278	1300	219
CHACW 900	**ON REQUEST**	DN250	DN80	0 - 10	183.75	6489	1300	273
CHACW 1200	**ON REQUEST**	DN300	DN80	0 - 10	269.5	9517	1300	323.9
CHACW 1500	**ON REQUEST**	DN400	DN100	0 - 10	367.5	12978	1300	406
CHACW 1800	**ON REQUEST**	DN400	DN150	0 - 10	441	15574	1300	406
CHACW 2500	**ON REQUEST**	DN450	DN200	0 - 10	563.5	19900	1300	457
CHACW 3000	**ON REQUEST**	DN500	DN200	0 - 10	759.5	26821	1300	508

QUALITY CLASS - SOLIDS (ISO 8573-1)	-
QUALITY CLASS - WATER (ISO 8573-1)	-
QUALITY CLASS - OIL (ISO 8573-1)	0/1
PRESSURE DROP - NEW ELEMENT-DRY [MBAR/PSI]	20/0.29
FILTER MEDIA	Activated Carbon
RESIDUAL OIL VAPOUR CONTENT (NOMINAL) [MG/M³]	<0.003

ACTIVATED CARBON TOWER
CH-TAC SERIES

At a glance…

Operating Pressure
16 bar

Flow Rate
0.1 - 108.33 m^3/min

Operating Temp. Range
1.5 - 45°C

Pipe Size
⅜ - 2"

Applications

- Automotive
- Electronics
- Food and beverage
- Chemical
- Petrochemical
- Plastics
- Paint
- General industrial application

CH-TAC activated carbon towers have been developed for separating oil vapours from compressed air (dry type separation).

CH-TAC is made from high quality carbon steel. CH-TACm series is made from aluminium. Flow distributors ensure uniform distribution of air flow through activated carbon bed. Oil vapours as well as some other hydrocarbons are separated due to adsorption process.

Super fine coalescing filter is required upstream TAC and 1µm dust filter is recommended downstream to intercept activated carbon dust. High pressure version is available on request.

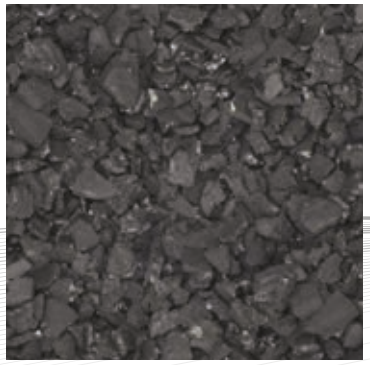
Stainless steel version available on request.

High pressure version is available on request.

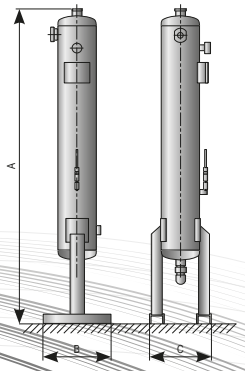
QUALITY CLASS - SOLIDS (ISO 8573-1)	-
QUALITY CLASS - WATER (ISO 8573-1)	-
QUALITY CLASS - OILS (ISO 8573-1)	0/1
PRESSURE DROP - NEW ELEMENT-DRY [MBAR / PSI]	20 / 0.29
FILTER MEDIA	act. carbon
RESIDUAL OIL VAPOUR CONTENT (NOMINAL) [MG/M³]	<0.003

TACm

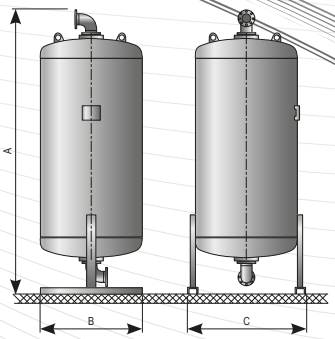
TAC



TAC



TAC F



TAC SERIES

TYPE	PART NO	PIPE SIZE	OPERATING PRESSURE	FLOW RATE AT 7 BAR(G), 20 °C		DIMENSIONS			WEIGHT
			[bar]	[m³/min]	[cfm]	A [mm]	B [mm]	C [mm]	[kg]
CH-TACm 6	**CC1189549**	3/8”	16	0.1	3.5	404	188	100	3.5
CH-TACm 12	**CC1189550**	3/8”	16	0.2	7.0	638	188	100	5.3
CH-TACm 23	**CC1189551**	3/8”	16	0.4	14.1	1106	188	100	6.5
CH-TACm 35	**CC1189552**	3/8”	16	0.6	21.1	1574	188	100	12
CH-TACm 56	**CC1189553**	1/2”	16	1	35.3	1106	270	148	15
CH-TACm 70	**CC1189554**	1/2”	16	1.25	44.1	1340	270	148	18
CH-TACm 105	**CC1189555**	1/2”	16	1.75	61.8	1808	270	148	22
CH-TAC 110	**CC1189556**	1”	16	1.83	86	1522	350	252	45
CH-TAC 150	**CC1189557**	1”	16	2.5	117	1766	350	252	52
CH-TAC 200	**CC1189558**	1”	16	3.33	157	1532	400	303	71
CH-TAC 250	**CC1189559**	1”	16	4.33	204	1784	400	303	83
CH-TAC 300	**CC1189560**	1 1/2”	16	5.33	251	1551	450	357	97
CH-TAC 400	**CC1189561**	1 1/2”	16	6.83	321	1798	450	357	114
CH-TAC 600	**CC1189562**	1 1/2”	16	9.83	462	1893	650	424	160
CH-TAC 800	**CC1189563**	2”	16	12.83	603	1877	650	468	201
CH-TAC 1000	**CC1189564**	2”	16	16.67	784	1961	650	506	242
CH-TAC 1200	**CC1189565**	DN50	16	20	936	2170	550	550	280
CH-TAC 1500	**CC1189566**	DN65	16	25	1170	2210	620	620	355
CH-TAC 2000	**CC1189567**	DN65	16	33.33	1560	2330	700	700	420
CH-TAC 2500	**CC1189568**	DN80	16	41.67	1950	2260	760	760	510
CH-TAC 3000	**CC1189569**	DN80	16	50	2340	2400	800	800	595
CH-TAC 3750	**CC1189570**	DN100	16	62.5	2925	2490	920	920	745
CH-TAC 5000	**CC1189571**	DN100	16	83.33	3900	2600	1050	1050	960
CH-TAC 6500	**CC1189572**	DN125	16	108.33	5070	2730	1150	1150	1300

TAC Service Kits

TYPE	PART NO
CH-TACm 6	**CC1189474**
CH-TACm 12	**CC1189475**
CH-TACm 23	**CC1189476**
CH-TACm 35	**CC1189477**
CH-TACm 56	**CC1189478**
CH-TACm 70	**CC1189479**
CH-TACm 105	**CC1189480**
CH-TAC 110	**CC1189481**
CH-TAC 150	**CC1189482**
CH-TAC 200	**CC1189483**
CH-TAC 250	**CC1189484**
CH-TAC 300	**CC1189485**
CH-TAC 400	**CC1189486**
CH-TAC 600	**CC1189487**
CH-TAC 800	**CC1189488**
CH-TAC 1000	**CC1189489**
CH-TAC 1200	**CC1189490**
CH-TAC 1500	**CC1189491**
CH-TAC 2000	**CC1189492**
CH-TAC 2500	**CC1189493**
CH-TAC 3000	**CC1189494**
CH-TAC 3750	**CC1189495**
CH-TAC 5000	**CC1189496**
CH-TAC 6500	**CC1189497**

CORRECTION FACTORS															
OPERATING PRESSURE [BAR]	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
OPERATING PRESSURE [PSI]	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232
CORRECTION FACTOR	0.38	0.5	0.63	0.75	0.88	1	1.13	1.25	1.38	1.50	1.63	1.75	1.88	2.0	2.13

CORRECTION FACTORS						
OPERATING TEMPERATURE [°C]	20	25	30	35	40	45
CORRECTION FACTOR	1	0.98	0.97	0.92	0.86	0.75

Replace activated carbon every 12 months or sooner if required. Check residual oil content with oil indicator monthly.

CH-PP SERIES
PAINTING AIR FILTRATION

At a glance…

Operating Pressure
16 bar

Flow Rate
0.1 - 108.33 m³/min

Operating Temp. Range
1.5 - 65°C

Pipe Size
½"

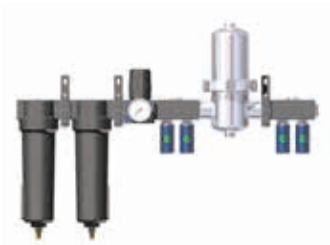
Applications

- Chemical
- Petrochemical
- Paint
- General industrial applications
- Breathing air

CH-PP pro paint system is specifically designed for purifying compressed air from solid, liquid and partially gaseous components. Protecting air equipment in addition to providing clean air for worker health protection. PP pro paint system is easy for wall mount.

Available modular combinations:

1. Comp. air for lower quality demands (down to 15 µm)
2. Comp. air for basic quality demands (down to 0,1 µm)
3. Comp. air for high quality demands (down to 0,01 µm)
4. Technical absolutely clean air (down to 0,1 µm, activated carbon)
5. Technical and breathable air
6. Compressed air for highest demands (all in one unit)



TYPE	PART NO	PIPE SIZE	FLOW RATE AT 7 BAR(G), 20 °C		DIMENSIONS			SEPARATOR CKL-PP	MICROFILTER M 0,1MM	MICROFILTER S 0,01MM	ACTIVE CARBON A	STERILE FILTER WITH ACTIVE CARBON SFA	ADSORPTION DRYER A-DRY 105	PRESSURE REGULATOR	QUICK COUPLING NO.
		[inch]	[m^3/min]	[cfm]	A [mm]	B [mm]	C [mm]								
CH-PP-107	**CC1189591**	1/2"	1.3	46	270	135	276	✓						✓	2
CH-PP-110	**CC1189592**	1/2"	2	71	270	135	345	✓						✓	2
CH-PP-207	**CC1189593**	1/2"	1.3	46	380	135	276	✓	✓					✓	2
CH-PP-210	**CC1189594**	1/2"	2	71	380	135	345	✓	✓					✓	2
CH-PP-307	**CC1189595**	1/2"	1.3	46	490	135	276	✓	✓	✓				✓	2
CH-PP-310	**CC1189596**	1/2"	2	71	490	135	345	✓	✓	✓				✓	2
CH-PP-407	**CC1189597**	1/2"	1.3	46	580	135	276		✓	✓	✓			✓	4
CH-PP-410	**CC1189598**	1/2"	2	71	580	135	345		✓	✓	✓			✓	4
CH-PP-507	**CC1189599**	1/2"	1.3	46	612	135	370		✓	✓		✓		✓	4
CH-PP-510	**CC1189600**	1/2"	2	71	612	135	440		✓	✓		✓		✓	4
CH-PP-607	**CC1189601**	1/2"	1.3	46	1150	335	917		✓	✓		✓	✓	✓	4
CH-PP-610	**CC1189602**	1/2"	2	71	1150	335	917		✓	✓		✓	✓	✓	4

CORRECTION FACTORS															
OPERATING PRESSURE [bar]	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
OPERATING PRESSURE [psi]	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232
CORRECTION FACTOR	0,38	0,50	0,63	0,75	0,88	1	1,13	1,25	1,38	1,50	1,63	1,75	1,88	2,00	2,13

0.1 MICRON MICROFILTER	FILTER ELEMENT TYPE	PART NO
	Filter Cartridge F007M	**223182**
	Filter Cartridge F010M	**223183**

0.1 MICRON FINEFILTER	FILTER ELEMENT TYPE	PART NO
	Filter Cartridge F007S	**223192**
	Filter Cartridge F010S	**223193**

0.1 MICRON A ACTIVATED CARBON	FILTER ELEMENT TYPE	PART NO
	Filter Cartridge F007A	**223212**
	Filter Cartridge F010A	**223213**

CKL-PP SEPARATOR	FILTER ELEMENT TYPE	PART NO
	Filter Cartridge F007-CKL-PP	**CC1189457**
	Filter Cartridge F010-CKL-PP	**CC1189458**

CHB-AIR
BREATHING AIR FILTER

At a glance…

Operating Pressure
16 bar

Flow Rate
1.3 - 13 m^3/min

Operating Temp. Range
1.5 - 45°C

Pipe Size
½ - 1½"

Applications

- Breathing air

CHB-AIR point of use filter set has been specifically developed for high efficient preparation of top quality breathing air. On request CHB-AIR filter set can be supplied with wall mounting brackets, pressure regulator and quick couplings.

WARNING!
Breathing air filter set CHB-AIR is not declared as CO_2 and CO removal filter. Despite that CHB-AIR comprises filter element which can reduce CO content.

TYPE	PART NO	PIPE SIZE	FLOW RATE AT 7 BAR(G), 20 °C		DIMENSIONS				WEIGHT	FILTER ELEMENT TYPE
		[inch]	[m³/min]	[cfm]	A [mm]	B [mm]	C [mm]	D [mm]	[kg]	
CHB-AIR 76	**CC1189704**	1/2"	1.3	46	187	88	20	60	1.41	F007 M/H2/A2
CHB-AIR 106	**CC1189705**	3/4"	2	70	257	88	20	80	1.8	F010 M/H2/A2
CHB-AIR 186	**CC1189706**	1"	3.3	116	263	125	32	100	4.71	F018 M/H2/A2
CHB-AIR 306	**CC1189707**	1"	5.58	197	363	125	32	120	6.6	F030 M/H2/A2
CHB-AIR 476	**CC1189708**	1 1/2"	8.5	300	461	125	32	140	8.4	F047 M/H2/A2
CHB-AIR 706	**CC1189709**	1 1/2"	13	459	640	125	32	160	11.7	F070 M/H2/A2

CORRECTION FACTORS															
OPERATING PRESSURE [bar]	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
OPERATING PRESSURE [psi]	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232
CORRECTION FACTOR	0,38	0,50	0,63	0,75	0,88	1	1,13	1,25	1,38	1,50	1,63	1,75	1,88	2,00	2,13

Prices are for complete set.

- Set includes 3 filter housings, 3 filter elements, 2 AOK16B condensate drains, 1 MCD drain and 1 PDI 16 di%erential pressure indicator.

FM	FILTER ELEMENT TYPE	PART NO
	Filter Cartridge F007M	**223182**
	Filter Cartridge F010M	**223183**
	Filter Cartridge F018M	**223184**
	Filter Cartridge F030M	**223185**
	Filter Cartridge F047M	**223186**
	Filter Cartridge F070M	**223187**

FH²	FILTER ELEMENT TYPE	PART NO
	Filter Cartridge F007H2	**CC1189441**
	Filter Cartridge F010H2	**CC1189442**
	Filter Cartridge F018H2	**CC1189443**
	Filter Cartridge F030H2	**CC1189454**
	Filter Cartridge F047H2	**CC1189455**
	Filter Cartridge F070H2	**CC1189456**

FA²	FILTER ELEMENT TYPE	PART NO
	Filter Cartridge F007A2	**CC1189354**
	Filter Cartridge F010A2	**CC1189434**
	Filter Cartridge F018A2	**CC1189435**
	Filter Cartridge F030A2	**CC1189437**
	Filter Cartridge F047A2	**CC1189438**
	Filter Cartridge F070A2	**CC1189439**

CHB-AIR PLUS
BREATHING AIR FILTER

At a glance…

Operating Pressure
16 bar

Flow Rate
1.3 - 13 m^3/min

Operating Temp. Range
1.5 - 45°C

Pipe Size
½"

Applications

- Breathing air

CHB-AIR PLUS system has been specifically designed for applications where high quality breathing air and monitoring of breathing air supply are needed. CHB-AIR PLUS is a combination of our CHB-AIR PLUS 0106 breathing air filter set combined with gas concentration analysers, fitted with pressure regulator and quick couplings, all packed in a compact and robust casing.

Gas concentration analysers constantly monitor CO, CO_2 and O_2 concentrations and trigger an alarm if concentrations exceed the EN12021 and BS4275:1997 standard compliant values. In this way CHB-AIR PLUS can safely provide high quality breathing air for up to 5 people[1].

Small dimensions and low weight enable the use of CHB-AIR PLUS in many applications as it can be transported and set up with ease.

Advantages

- High quality breathing air for up to 5 people
- Air quality monitoring (EN 12021, BS 4275:1997)
- Compact & light weight

TYPE	PART NO	PIPE SIZE	FLOW RATE AT 7 BAR(G), 20 °C		DIMENSIONS			WEIGHT	FILTER ELEMENT TYPE
		[inch]	[m³/min]	[cfm]	A [mm]	B [mm]	C [mm]	[kg]	
CHB-AIR PLUS	**CC1189710**	1/2"	2	71	508	460	160	12	

CORRECTION FACTORS															
OPERATING PRESSURE [bar]	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
OPERATING PRESSURE [psi]	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232
CORRECTION FACTOR	0,38	0,50	0,63	0,75	0,88	1	1,13	1,25	1,38	1,50	1,63	1,75	1,88	2,00	2,13

Prices are for complete set.

FM	FILTER ELEMENT TYPE	PART NO
	Filter Cartridge F007M	**223182**

FH²	FILTER ELEMENT TYPE	PART NO
	Filter Cartridge F007H2	**CC1189441**

FA²	FILTER ELEMENT TYPE	PART NO
	Filter Cartridge F007A2	**CC1189354**

CH-AIRWATT SERIES
HEAT RECOVERY UNITS

At a glance…

Operating Pressure
1 - 16 bar

Flow Rate
1.3 - 13 m³/min

Operating Temp. Range
5 - 120°C

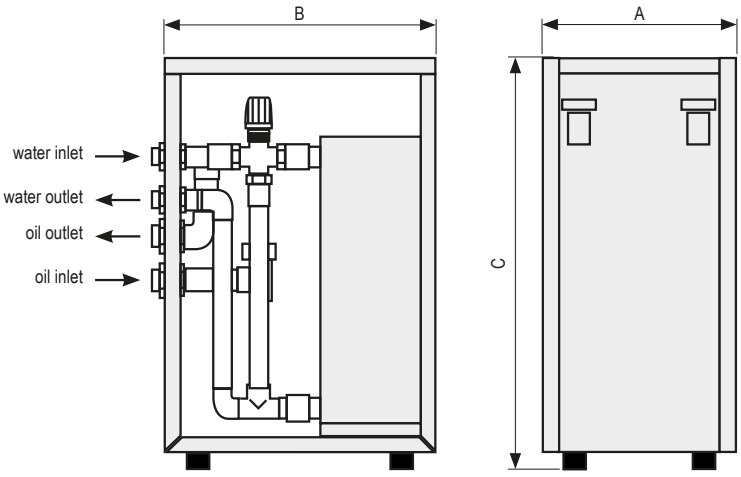
Ambient Air Temp. Range
5 - 45°C

Applications

- Heat recovery in oil lubricated rotary screw compressors

External heat recovery unit - CH-AIRWATT is designed to efficiently exploit the waste heat, generated during compression of air in rotary screw compressors.

Sometimes this represents more than 70% of energy consumed by the rotary screw compressor for the operation. This heat can then be used to heat domestic water or for heating, at almost no additional costs. This does not only help save money, but is also environmentally friendly. Unit has two separate piping systems with counter flow. Energy exchange from compressor to sanitary water occurs in plate heat exchanger, where compressor oil and sanitary water meets. Unit is controlled by thermostatic valve, which prevents compressor system getting to cold and damaging compressor.



OPERATING PRESSURE (OIL)	1 - 16 bar
MAXIMUM WATER PRESSURE	10 bar
OPERATING TEMPERATURE	5°C - 120°C
MAX. OUTLET WATER TEMPERATURE	70°C
PRESSURE DROP (OIL)	~ 100 mbar
AMBIENT TEMPERATURE	5°C - 45°C
WATER TEMPERATURE INDICATOR	Analog mechanical

TYPE	PART NO	MOTOR POWER [kW]	HEAT CAPACITY [kW]	OIL CONNECTION [G]	WATER CONNECTION [G]	DIMENSIONS A [mm]	B [mm]	C [mm]	WEIGHT [kg]
CH-AIRWATT 22	**CC1189573**	15 - 22	12 - 17.6	1 1/4"	1"	360	500	760	33
CH-AIRWATT 37	**CC1189574**	26 - 37	20.8 - 29.6	1 1/4"	1"	360	500	760	35
CH-AIRWATT 75	**CC1189575**	45 - 75	36 - 60	1 1/4"	1"	360	500	760	42
CH-AIRWATT 100	**CC1189576**	90 - 132	72 - 100	2"	2"	450	600	860	58

VERTICAL AIR RECEIVERS

At a glance…

Operating Pressure
11 - 16 bar

Capacity
100 - 10000l

Air receivers are an important part of the compressed air system, evening out peaks and troughs in air demand, minimising pulsations from piston compressors and protecting your air compressor from over frequent load/ unload or start stop cycles.

VERTICAL TANKS[1]	CODE	DIRECTIVE	SIZE [litre]	PRESSURE [bar]	AIR OUTLET [inch]
TANK 100L-11	CC1214969K	2014/29/EU	100	11	3/4
TANK 150L-11	CC1214973K	2014/29/EU	150	11	1
TANK 200L-11	CC1215044K	2014/29/EU	200	11	1
TANK 200L-11	CC1215045K	2014/29/EU	200	11	2
TANK 270L-11	220662K	2014/29/EU	270	11	1
TANK 270L-11	CC1215046K	2014/29/EU	270	11	2
TANK 500L-11	220663K	2014/29/EU	500	11	1
TANK 500L-11	CC1215047K	2014/29/EU	500	11	2
TANK 720L-11	220713K	2014/29/EU	720	11	1
TANK 720L-11	CC1215048K	2014/29/EU	720	11	2
TANK 900L-11	CC1120428K	2014/29/EU	900	11	1.5
TANK 900L-11	CC1215049K	2014/29/EU	900	11	2
TANK 1000L-12	220664K	2014/68/UE (PED)	1000	12	2
TANK 1500L-12	CC1120429K	2014/68/UE (PED)	1500	12	2
TANK 2000L-12	220665CK	2014/68/UE (PED)	2000	12	2
TANK 2000L-12	CC1215050K	2014/68/UE (PED)	2000	12	3
TANK 3000L-12	220668CK	2014/68/UE (PED)	3000	12	2
TANK 3000L-12	CC1215051K	2014/68/UE (PED)	3000	12	3
TANK 100L-16	CC1215052K	2014/29/EU	100	16	3/4
TANK 150L-16	CC1215055K	2014/29/EU	150	16	1
TANK 200L-15	CC1215056K	2014/29/EU	200	15	1
TANK 270L-16	CC1215057K	2014/29/EU	270	16	1
TANK 500L-16	CC1215058K	2014/29/EU	500	16	1
TANK 1000L-16	CC1215059K	2014/68/UE (PED)	1000	16	2
TANK 1500L-16	CC1215060K	2014/68/UE (PED)	1500	16	2
TANK 2000L-16	CC1109207K	2014/68/UE (PED)	2000	16	2
TANK 3000L-16	CC1215061K	2014/68/UE (PED)	3000	16	2
TANK 5000L-8	CC1215062K	2014/68/UE (PED)	5000	8	3
TANK 8000L-8	CC1215063K	2014/68/UE (PED)	8000	8	3
TANK 10000L-8	CC1215064K	2014/68/UE (PED)	10000	8	3
TANK 5000L-12	CC1215065K	2014/68/UE (PED)	5000	12	3
TANK 8000L-12	CC1215066K	2014/68/UE (PED)	8000	12	3
TANK 10000L-12	CC1215067K	2014/68/UE (PED)	10000	12	3

[1] Including paint, support legs, pressure gauge, safety valve and inlet and outlet nozzles.

GALVANISED VERTICAL AIR RECEIVERS

At a glance…

Operating Pressure
11 - 16 bar

Capacity
100 - 3000l

Air receivers are an important part of the compressed air system, evening out peaks and troughs in air demand, minimising pulsations from piston compressors and protecting your air compressor from over frequent load/unload or start stop cycles.

VERTICAL TANKS[1]	CODE	DIRECTIVE	SIZE [litre]	PRESSURE [bar]	AIR OUTLET [inch]
TANK 100L-11	CC1215039K	2014/29/EU	100	11	3/4
TANK 150L-11	CC1215040K	2014/29/EU	150	11	1
TANK 200L-11	CC1215041K	2014/29/EU	200	11	1
TANK 270L-11	CC1215042K	2014/29/EU	270	11	1
TANK 500L-11	CC1080281K	2014/29/EU	500	11	1
TANK 720L-11	CC1215043K	2014/29/EU	720	11	1
TANK 900L-11	CC1215094K	2014/29/EU	900	11	1 1/2
TANK 900L-11	CC1215095K	2014/29/EU	900	11	2
TANK 1000L-12	CC1103058K	2014/68/UE (PED)	1000	12	2
TANK 1500L-12	CC1215096K	2014/68/UE (PED)	1500	12	2
TANK 2000L-12	CC1103060K	2014/68/UE (PED)	2000	12	2
TANK 2000L-12	CC1215097K	2014/68/UE (PED)	2000	12	3
TANK 3000L-12	CC1215098K	2014/68/UE (PED)	3000	12	2
TANK 3000L-12	CC1215099K	2014/68/UE (PED)	3000	12	3
TANK 100L-16	CC1215100K	2014/29/EU	100	16	3/4
TANK 150L-16	CC1215101K	2014/29/EU	150	16	1
TANK 200L-15	CC1215102K	2014/29/EU	200	15	1
TANK 270L-16	CC1215103K	2014/29/EU	270	16	1
TANK 500L-16	CC1190548K	2014/29/EU	500	16	1
TANK 1000L-16	CC1190550K	2014/68/UE (PED)	1000	16	2
TANK 1500L-16	CC1215104K	2014/68/UE (PED)	1500	16	2
TANK 2000L-16	CC1215105K	2014/68/UE (PED)	2000	16	2
TANK 3000L-16	CC1215106K	2014/68/UE (PED)	3000	16	2

[1] Including paint, support legs, pressure gauge, safety valve and inlet and outlet nozzles.

Notes

CONDENSATE DRAINS

IED SERIES
ELECTRONIC CONDENSATE DRAINS

TECHNICAL DATA	IED	
VOLTAGE	230 VAC	115 VAC
FREQUENCY	50-60 Hz	50-60 Hz
INTERNAL FUSE	5 x 20 1A T	
POWER	10 VA	
OPERATING PRESSURE RANGE	0-16 bar [0-232 psi]	
DRAIN CAPACITY [AT 7 bar/101 PSI]	8 l/h at 7 bar [0,005 cfm at 101 psi]	
OPERATING TEMPERATURE RANGE	1.5-65 °C [35-149°F]	
INLET CONNECTION	G 1/2" parallel thread	
PROTECTION CLASS	IP54	
MASS [kg]	0.3	
OPERATING TEMPERATURE RANGE	1.5 to 65°C	
DIMENSIONS [L x B x H]	61 x 60 x 161 mm	
SERVICE NETWORK CONNECTION	-	-
ALARM OUTPUT	-	-
PART NUMBER	**CC1182025**	

EMD SERIES
ELECTRONIC CONDENSATE DRAINS

TECHNICAL DATA	EMD12 230 V
SERVICE NETWORK CONNECTION	-
ALARM OUTPUT	-
VOLTAGE	230 VAC, 50-60 Hz
INTERNAL FUSE	5 x 20 1A T
POWER	10 VA
OPERATING PRESS. RANGE	0-16 bar [0-232 psi]
DRAIN CAPACITY [AT 7 bar/101 PSI]	12 l/h [0.007cfm]
OPERATING TEMP. RANGE	1.5-65°C [35-149°F]
INLET CONNECTION	G 1/2"
OUTLET CONNECTION	Push connection for tube ø8
PROTECTION CLASS	IP54
MASS [kg]	0.55
DIMENSIONS A x B x C [mm]	133 x 76 x 147
PART NUMBER	**CC1112242**

ECD-B SERIES
ELECTRONIC CONDENSATE DRAINS

TECHNICAL DATA		ECD 15B	ECD 40B	ECD 90B	ECD 150B
VOLTAGE	115 VAC	115 V ± 10 %	115 V ± 10 %	115 V ± 10 %	115 V ± 10 %
	230 VAC	230 V ± 10 %	230 V ± 10 %	230 V ± 10 %	230 V ± 10 %
POWER	115 VAC	24 VA	24 VA	24 VA	24 VA
	230 VAC	24 VA	24 VA	24 VA	24 VA
FREQUENCY		50-60 Hz			
OPERATING PRESSURE		0-16 bar (0 - 232 psi)			
DRAIN CAPACITY [AT 7 bar/101 PSI]		15 l/h	40 l/h	90 l/h	150 l/h
OPERATING TEMPERATURE RANGE		1.5 - 65 °C (35-149 °F)			
INLET CONNECTION		R 1/2"	R 1/2"	R 1/2"	R 1/2"
OUTLET CONNECTION		R 1/8"	R 1/8"	R 1/8"	R 1/8"
POWER INTERFACE		3 x 0.75 mm^2	3 x 0.75 mm^2	3 x 0.75 mm^2	3 x 0.75 mm^2
PROTECTION CLASS		IP54	IP54	IP54	IP54
MASS [kg]		0.9	0.9	1.05	1.15
DIMENSIONS A x B x C [mm]		120 x 82 x 125	120 x 82 x 125	120 x 82 x 135	120 x 82 x 150
PART NUMBER		**CC1150763**	**CC1164401**	**CC1183827**	**CC1183828**

SAC 160 SERIES
TIME CONTROLLED CONDENSATE DRAINS

TECHNICAL DATA	SAC 160		SAC 160 cr	
SUPPLY VOLTAGE	115V	230V	115V	230V
OPERATING TEMP. RANGE	1.5 - 65 °C [35-149 °F]		1.5 - 65 °C [35-149 °F]	
OPERATING PRESSURE	16 bar [232 psi]		16 bar [232 psi]	
PROTECTION CLASS	IP65		IP65	
COIL POWER	18VA (holding), 36 VA (inrush)		18VA (holding), 36 VA (inrush)	
MASS [cable + valve]	0.35 kg		0.35 kg	
TIME ON	0.5 s - 10 s		0.5 s - 10 s	
TIME OFF	0.5 min - 45 min		0.5 min - 45 min	
DRAIN CAPACITY [AT 7 bar]	95 l/h		95 l/h	
FLOW RATE Kvs	2.4 l/min		3.4 l/min	
INLET CONNECTION	R 1/2"		R 1/2"	
OUTLET CONNECTION	R 1/4"		R 1/4"	
DIMENSIONS L x B x H [mm]	77 x 79 x 93	87.5 x 90.5 x 123	77 x 79 x 93	87.5 x 90.5 x 123
MEDIUM	Air, water, oil		Agressive fluids	
OPTION STRAINER	Yes		No	
PART NUMBER	**CC1032411**		**CC1183829**	

SAC 120
AUTOMATED CONDENSATE DRAINS

TECHNICAL DATA	
OPERATING TEMP. RANGE	1.5 - 65 °C [35-149 °F]
OPERATING PRESSURE	20 bar [290 psi]
MASS	0.6 kg
DISCHARGE CAPACITY [AT 7 bar/101 PSI]	167 l/h
INLET CONNECTION	G 1/2" (NPT option)
OUTLET CONNECTION	G 1/2" (NPT option)
DIMENSIONS A x B x C	135 x 110 x 130 mm
MEDIUM	Condensate (air, water, oil)
PART NUMBER	**222394**

Recommendations

Install ball valve between pressure vessel and inlet connection. Install strainer element between pressure vessel and inlet connection. Install nipple with venting tube to avoid generation of air bubbles. Nipple is screwed on inlet connection.

SAC 70
AUTOMATED CONDENSATE DRAIN

TECHNICAL DATA	
OPERATING TEMP. RANGE	1.5 - 65 °C [35-149 °F]
OPERATING PRESSURE	0 - 16 bar [0 - 232 psi]
MASS	0.04 kg
CONNECTION	G 1/2"
OUTLET CONNECTION	ø8
DIMENSIONS H x D	90 x ø38.5 mm
MEDIUM	Condensate (air, water, oil)
PART NUMBER	**223120**

MCD
MANUAL CONDENSATE DRAIN

TECHNICAL DATA		
OPERATING TEMP. RANGE		1.5 - 65 °C [35-149 °F]
OPERATING PRESSURE		0-20 bar [290 psi]
MASS		0.06 kg
CONNECTION		G 1/2"
DIMENSIONS	H	38.2 mm
	E	24.0 mm
MEDIUM		Condensate [air, water, oil]
MATERIAL		Brass
PART NUMBER		**CC1183830**

CH SERIES
OIL /WATER SEPARATORS

At a glance…

Capacity
2.5 - 60 m³/min

Outlet Connection
½" - ¾"

Inlet Connection
½" - 2 x ¾"

Unrivalled performance and efficiency

Environmental regulations strictly prohibit the discharge of oily wastes and chemicals, including the condensate drained from a compressed air system. This mixture of oil and water is classified as hazardous industrial waste, and the discharge of untreated compressor condensate into foul sewers is prohibited.

Compressor condensate must be either collected or treated before disposal using an oil water separator. Oil water separators remove lubricants from compressed air condensate ensuring environmentally friendly disposal. Considering that compressor condensate consists of approximately 95% water, it makes financial sense to separate the oil from the condensate before disposing of waste. Untreated condensate disposal is costly as it is charged by volume.

Every end-user that operates a compressed air system should have a condensate waste management program in place, not only to abide by laws and regulations but also to practice environmental and ecological responsibility. Champion oil water separators are a reliable, efficient, cost-effective, and environmentally friendly solution for on-site discharge of condensate from air compressors.

Modular design for enhanced performance

Modern industrial working environments present a host of challenges for effective and long-lasting oil water separation including ambient humidity and extreme temperatures, different coolant types, excessive operating hours, equipment age, compressor loading and residual oil.

To meet these challenges, Champion separators offer different sizes to match the customers needs. They feature adsorption media that withdraws and permanently adsorbs the lubricants.

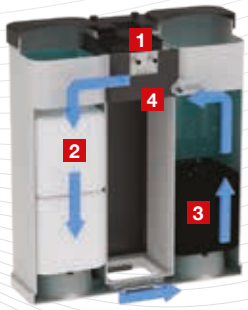
Features are your benefits
Pre-filter removes contaminants
No fouling and clogging

Meets compressor flow requirements
Up to 60 m³/min

Complies with environmental regulations
Minimised fluid disposal costs

Streamlined design
Reliable operation with reduced maintenance

How it works



1. Oily water flows through the diffuser
2. First chamber, multiple Polypropylene media captures oil
3. Second chamber, Carbon media further removes oil
4. Clean water exits separator

The responsible choice

By minimising the cost associated with the disposal of fluids, and keeping them out of the environment, Champion oil water separators help you to stay compliant with environmental regulations and avoid costly fines. The separator is also designed to operate with minimal maintenance or downtime, resulting in no mess or overflow.

Champion separators provide condensate discharge levels < 10 ppm at standard conditions.

Guaranteed adsorption of a variety of coolants

Polypropylene and carbon media are effective on a big variety of polyalphaolefins lubricants and mineral oils available in the market.

Multiple sizing options

Champion oil water separators come in 10 standard sizes, handling air flow from 2.5 to 60 m^3/min. The media is designed to last up to 6 months at 8,000 hours/year of operation and up to 12 months at 4,000 hours/year. Each model has standardised, modular media bags.

TECHNICAL DATA	
OPERATING TEMP.RANGE	2 - 50°C
OPERATING MEDIA	Condensate (water - oil; Non aggressive)
	Not suitable for stabile condensate emulsion and polyglycol
DESIGN CONDITIONS	4 ppm Oil Carryover from compressor, 75% compressor loading, 20°C ambient and 70% RH
RESIDUAL OIL CONTENT	<15 ppm
SERVICE INTERVALS	When first of the following parameters appears: > 3 - 6 months if 8000 operating hours of compressor > 6 - 12 months if 4000 operating hours of compressor > when prefilter has oil built up

MODEL	CODE	CAPACITY	DIMENSIONS			WEIGHT
		[M^3/MIN]	[mm]	[mm]	[mm]	[kg]
CHS25	**47716459001**	2.5	590	200	245	6.5
CHS35	**47716460001**	3.5	590	200	245	7
CHS50	**47716461001**	5	645	510	170	9.5
CHS100	**47716462001**	10	830	700	206	17.5
CHS150	**47716463001**	15	830	700	206	20
CHS200	**47716464001**	20	830	700	206	22.5
CHS300	**47716465001**	30	1050	950	350	44.5
CHS400	**47716466001**	40	1050	950	350	50
CHS500	**47716467001**	50	1240	1065	410	65
CCHS600	**47716468001**	60	1240	1065	410	78

INDUSTRIAL CHILLERS

At a glance…

Cooling Capacity
0.8 - 365 kW

Contact the Champion Sales Team for more information, prices and brochure.

Champion can now offer a range of chillers and coolers including Water Chillers, Oil Chillers, Liquid Coolers and Air to Water Coolers

The Range

Water Chillers

CHW 09 - 3652

Cooling Capacity 1.1 - 365 kW

Especially designed for welders, inductors, food-packaging machinery, laser cutters, tooling machines, die-casting processes, molding and extruding processes of plastic materials, aerodynamic pumps and wine-making industry.

Low Temperature Water Chillers

CHG 08-1260

Cooling Capacity 0,8 - 126 kW

The low temperature liquid water chillers were designed to meet the needs of the chemical and food industries, to process and preserve products at temperatures near or below 0°C and are finding new industrial uses every day.

Liquid Coolers

CHA 99 - 150

Cooling Capacity: 1,3 - 150kW

Ideal for systems where an intermediate stage between the refrigerant circuit and the user one is necessary, equipped with pump and tank.

Air to Water Coolers

CHR 08 - 174

Cooling Capacity 0,8 - 174 kW

Air water liquid coolers, equipped with pump and tank, are suitable for cooling welders and spot welders, spindle and for all industrial applications that require liquid cooling at a temperature not lower than ambient one. Utilising forced air from the fan it is able to supply the outlet water at 5°C higher then the ambient temperature

Oil Chillers

CHO 29 - 149

Cooling Capacity: 2,9 - 14,9 kW

The CHO series line is entirely dedicated to the sector of remote control machinery or those with hydraulic cooling. These machines constitute the best solution for the cooling of precision tooling machinery in a simple and prompt way.

EPL PIPING SYSTEM

EPL: The efficient alternative to traditional piping

The easy-to-install leak-free Champion EPL (Easy Pipe Line) system is your alternative to costly, labor-intensive steel pipe distribution systems for air, inert gas and vacuum lines. It leverages more than a century of Champion compressed air experience for streamlined installation, uncompromised reliable performance, effortless maintenance, flexibility for future needs, and maximum energy efficiency at the lowest total cost.

Modular design for enhanced performance

Modern industrial working environments present a host of challenges for effective and long-lasting oil water separation including ambient humidity and extreme temperatures, different coolant types, excessive operating hours, equipment age, compressor loading and residual oil.

To meet these challenges, Champion separators offer different sizes to match the customers needs. They feature adsorption media that withdraws and permanently adsorbs the lubricants.

Contact the Champion Sales Team for more information, prices and brochure.

Easier installation

- No special tools needed and specialised labor required
- Easy, safe installation with minimal downtime
- Patented quick-fit locking system provides fast installation and long-term operation
- Up to 60% less assembly time required than traditional piping
- 15% less assembly time required than alternative competitive modular piping systems
- EPL is compatible with existing piping systems and equipment
- Fully tested and certified to 97/23/EC and ASME B31.3 standards

Lower total cost

- Low initial investment
- Fully customizable and great configuration flexibility
- Low energy waste system, due to leak-free and low pressure drop design
- Less maintenance – up to 40% less labor and material costs than steel piping systems
- Corrosion-resistant to prevent contaminants and pressure losses
- Reusable parts for easy updates and modifications
- 10-year warranty protects your investment

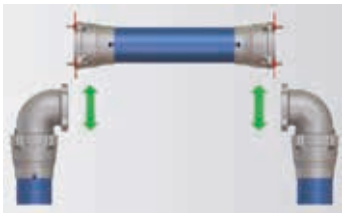
No special tools, such as labor-intensive pipe-threading equipment, are required for the EPL system.

EPL: Simple to install

With a modular design and easy-to-assemble components, the EPL piping system empowers you to easily plan and adapt your distribution piping network to the needs of your production environment.

Intuitive, easy to assemble. No special tools or qualified personnel are required to assemble leak-free EPL systems.

Seamless maintenance. Patented by Champion, the innovative fitting design simplifies piping system assembly and disassembly, minimising downtime.



Tailored to your needs. An extensive variety of connectors, including those specifi cally developed for all Champion compressor and dryers ensure easy transition from current or competitive piping systems.

Standardised pipe length. Pipes are supplied in 5m lengths, eliminating special transportation arrangements to improve delivery times.

Versatile configuration. A wide variety of components and accessories combined with ease-of-assembly enables swift implementation with minimal downtime.

Preassembled productivity. Fully preassembled, readyto- use fittings reduce installation time and number of components to order and stock.

Reconfigurable. Reusable connectors minimise incremental expenses when adapting or expanding existing piping to changing requirements.

Computer-aided design. The advanced EPL soft ware tool makes it easier to develop and create your ideal leak-free air distribution system.

Personal support. Dedicated Champion sales personnel will ensure your questions are addressed before, during and aft er the system is installed.

Notes

Notes

SERVICE & SPARE PARTS

- Standard & Extended Warranty
- Service schedule
- Spare part kits


CHAMPION
FM7RS
CHAMPION
CHAMPION
FM6
CHAMPION
CHAMPION
FM30RS
CHAMPION
CHAMPION

WARRANTY DURATION AND OPTIONS

• Warranty overview by model - range

MODEL - RANGE	WARRANTY DURATION	EXTENDED WARRANTY AVAILABLE
FM 2-6 Series Screw Compressors	24 Months[1]	✗
FM07 - FM132 Series Screw Compressors	24 Months[1]	✓
Champion Vane Compressors CMPV01-V04	12 Months[1]	✗
Champion Piston Compressors (C-Series)	12 Months[1]	✓ (see 2.4)
Champion Dental Compressors	12 Months[1]	✗
Champion Breathing Air Compressors	12 Months[1]	✗
Champion S Series Scroll Compressors	12 Months[1]	✗
Champion Dryers (CHA-DRY, CHB DRY, CHX DRY, CHR)	24 Months[1]	✓
Champion Nitrogen Generators CHNP03-400	24 Months[1]	✓
Champion Filters, Water Separators & Accessories	12 Months	✗
Replacement Spare Parts	12 Months	✗

[1] - The complete machine will have a warranty period of as mentioned above from date of commissioning or an additional 6 months from date of despatch ex Champion which ever is the soonest.
Champion recommends that only genuine Champion or approved parts be used, and that service be carried out by a authorised Champion trained service engineer.

• Replacement spare parts

The warranty period for replacement parts excluding air ends, motors and consumable spare parts shall be 12 months ex Champion The extent of this will be replacement part only.

Champion will not warrant adjacent components to the replacement part

Any defective spare part found prior to installation should be processed directly with the Champion parts department, not as a warranty claim.

• Extended warranty

CODE	DESCRIPTION
CC1180791	Extended Warranty 5 years for screw compressors 7.5 - 22 kW
CC1180793	Extended Warranty for screw compressors 30 - 132 kW
CC1180791	Extended Warranty for dryers

Champion offer an Extended Warranty programme on selected models. Additional fees and terms & conditions apply.
Please refer to the terms and conditions of the Extended Warranty Programmes.
Extended warranty prices are nett each, no extra discount can be applied.
For more information please see document : "Standard Warranty / Extended Warranty Terms & Conditions"

FM2 - FM6 SERVICE SCHEDULE

			DAILY[2]	EVERY 500 HOURS [1]	EVERY 2000 HOURS OR 12 MONTHS[1]	EVERY 4000 HOURS OR 12 MONTHS[1]	EVERY 8000 HOURS OR 24 MONTHS[1]	EVERY 12000 HOURS OR 48 MONTHS[1]	EVERY 16000 HOURS OR 48MONTHS[1]
SERVICE A	C-Pro Controller	Check fault indicator lights and alarms	•	•	•	•	•	•	•
	Condensate Drain and Strainer	Check autom. condensate discharger	•	•	•	•	•	•	•
	Air Tank	Discharge oil separator condensate	•	•	•	•	•	•	•
	Oil System	Check oil level	•	•	•	•	•	•	•
SERVICE C	Oil System	Check oil leaks			•	•	•	•	•
	General	Clean inside compressor			•	•	•	•	•
	Air Filter	Clean air filter			•	•	•	•	•
	Drive Belts	Check belt tension			•	•	•	•	•
	Electrical Wiring	Check connections and condition			•	•	•	•	•
	Relief Valve	Check operation of pressure relief valve			•	•	•	•	•
	Aftercooler/Oil Cooler	Clean cooler externally			•	•	•	•	•
	Oil System	Clean oil return line			•	•	•	•	•
	Oil Filter	Renew oil filter element			•	•	•	•	•
	Air Filter	Renew air filter element			•	•	•	•	•
D	Separator Filter	Replace oil separator cartridges				•	•	•	•
	Oil System	Renew oil (ChampLUBE)				•	•	•	•
SERVICE E	Valves	Refurbish Manifold					•		•
	Valves	Replace MPV element					•		•
	Probes	Replace temperature probe					•		•
	Valves	Replace inlet Valve					•		•
ADDITIONAL	Drive Belts	Replace the belts and check drive pulleys, replace if worn out						•	
	Probes	Replace Pressure Sensor							•
	Air End	Replace shaft seal kit							•
	Oil Hoses	Replace oil hoses							•
	Drive Motor	Check and retighten main motor cables							•
	Air End	Replace Air End	Predictive - only when required						

1 Whichever occurs soonest

2 Normally undertaken by end user through visual check

Inspection of the pressure vessel in accordance with local guidelines

Where the compressor is part of an integrated unit, please refer to the separate dryer manual for any dryer related service tasks. Receiver certification beyond the initial period is the customers responsibility.

Please refer to the Operators handbook if there are specific local service requirements relevant to the territory you are in e.g. Oil and Filter change intervals which may be different to those shown above.

Service intervals will be shorter depending on the ambient operating conditions (heat, humidity, dirt etc.), effecting Lubricants, filters, separators etc.

FM7 - FM22 SERVICE SCHEDULE

			DAILY[2]	WEEKLY[2]	EVERY 4000 HOURS OR 12 MONTHS[1]	EVERY 8000 HOURS OR 24 MONTHS[1]	EVERY 20000 HOURS OR 60 MONTHS[1]	EVERY 24000 HOURS OR 72 MONTHS[1]
SERVICE A	Controller	Note and record sump pressure	•	•	•	•	•	•
	Controller	Note and record discharge pressure	•	•	•	•	•	•
	Controller	Note and record discharge temperature	•	•	•	•	•	•
	Enclosure Filters	Check condition, clean if required	•	•	•	•	•	•
	Scavenge oil system	Check operation	•	•	•	•	•	•
SERVICE B	Controller	Check fault history		•	•	•	•	•
	Controller	Check for any service requirements		•	•	•	•	•
	Oil System	Check oil level and top up if required		•	•	•	•	•
	Aftercooler/Oil Cooler	Check condition, clean if required		•	•	•	•	•
SERVICE C	Oil Filter	Renew oil filter element			•	•	•	•
	Air Filter	Renew air filter element			•	•	•	•
	Oil System	Renew oil (ChampLUBE)			•	•	•	•
	Dryer Cooling Air Inlet Filter[3]	Renew cooling air inlet filter			•	•	•	•
	Control System	Check operation			•	•	•	•
	Blowdown System	Check operation			•	•	•	•
	Electrical Wiring	Check connections and condition			•	•	•	•
	Controller	Check connections and plugs			•	•	•	•
	Separator Filter	Renew separator filter			•	•	•	•
	Oil Scavenge System	Clean and check operation			•	•	•	•
	Relief Valve	Functionally test			•	•	•	•
	Drive Belts[3]	Check condition of belts and renew if required			•	•	•	•
SERVICE D	Minimum Pressure Valve	Renew minimum pressure valve					•	•
	Intake Valve	Overhaul intake valve				•	•	•
	Emergency Stop Button	Test emergency stop button				•	•	•
	VSD Drive/Starter	Check condition of contacts and renew if required				•	•	•
ADDITIONAL	Air End	Renew air end shaft seal						•
	Shaft Seal Oil Return Tube	Renew shaft seal oil return tube						•
	Oil Hoses	Check condition and renew if required					•	•
	Control Solenoids	Renew control solenoids					•	•
	Drive Belts	Renew drive belts					•	•
	Drive Motor Bearings	Renew drive motor bearings						•
	Drive Motor AVM's	Check drive motor Anti Vibration Mounts						•
	Air End Discharge Temperature Sensor	Renew temperature sensor						•
	Oil Bypass Element	Renew oil bypass element						•
	Air End AVM's	Check air end Anti Vibration Mounts						•
	Air End	Renew Air End	Predictive - only when required					

[1] Whichever occurs soonest

[2] Normally undertaken by end user through visual check

[3] If applicable

Inspection of the pressure vessel in accordance with local guidelines

Where the compressor is part of an integrated unit, please refer to the separate dryer manual for any dryer related service tasks. Receiver certification beyond the initial period is the customers responsibility.

Please refer to the Operators handbook if there are specific local service requirements relevant to the territory you are in e.g. Oil and Filter change intervals which may be different to those shown above.

Service intervals will be shorter depending on the ambient operating conditions (heat, humidity, dirt etc.), effecting Lubricants, filters, separators etc.

FM30 - 132 SERVICE SCHEDULE

			DAILY[2]	WEEKLY[2]	EVERY 4000 HOURS OR 12 MONTHS[1]	EVERY 8000 HOURS OR 24 MONTHS[1]	EVERY 20000 HOURS OR 60 MONTHS[1]	EVERY 24000 HOURS OR 72 MONTHS[1]
SERVICE A	Controller	Note and record sump pressure	•	•	•	•	•	•
	Controller	Note and record discharge pressure	•	•	•	•	•	•
	Controller	Note and record discharge temperature	•	•	•	•	•	•
	Enclosure Filters	Check condition, clean if required	•	•	•	•	•	•
	Scavenge oil system	Check operation	•	•	•	•	•	•
SERVICE B	Controller	Check fault history		•	•	•	•	•
	Controller	Check for any service requirements		•	•	•	•	•
	Oil System	Check oil level and top up if required		•	•	•	•	•
	Aftercooler/Oil Cooler	Check condition, clean if required		•	•	•	•	•
SERVICE C	Oil Filter	Renew oil filter element			•	•	•	•
	Air Filter	Renew air filter element			•	•	•	•
	Oil System	Renew oil (Mineral or Foodgrade)			•	•	•	•
	Oil System[5]	Renew oil (Synthetic) AEON9000				•	•	•
	Dryer Cooling Air Inlet Filter[3]	Renew cooling air inlet filter			•	•	•	•
	Control System	Check operation			•	•	•	•
	Blowdown System	Check operation			•	•	•	•
	Electrical Wiring	Check connections and condition			•	•	•	•
	Controller	Check connections and plugs			•	•	•	•
	Inlet Water Strainer[4]	Check condition, clean if required			•	•	•	•
	Separator Filter	Renew separator filter			•	•	•	•
	Pipe work	Replace Victaulic Couplings			•	•	•	•
	Oil Scavenge System	Clean and check operation			•	•	•	•
	Relief Valve	Functionally test			•	•	•	•
SERVICE D	Oil Scavenge System	Renew oil scavenge tubing				•		•
	Minimum Pressure Valve	Renew minimum pressure valve				•		•
	Intake Valve	Overhaul intake valve				•		•
	Emergency Stop Button	Test emergency stop button				•		•
	Motor Drive Coupling Insert	Check condition and renew if required				•		•
	VSD Drive/Starter	Check condition of contacts and renew if required				•		•
ADDITIONAL	Air End	Renew air end shaft seal						•
	Shaft Seal Oil Return Tube	Renew shaft seal oil return tube						•
	Oil Hoses	Check condition and renew if required					•	•
	Control Solenoids	Renew control solenoids					•	•
	Drive Belts[3]	Renew drive belts					•	•
	Drive Motor Bearings	Renew drive motor bearings						•
	Drive Motor AVM's	Check drive motor Anti Vibration Mounts						•
	Air End Discharge Temperature Sensor	Renew temperature sensor						•
	Oil Bypass Element	Renew oil bypass element						•
	Air End AVM's	Check air end Anti Vibration Mounts						•
	Air End	Renew Air End	Predictive - only when required					

[1] Whichever occurs soonest

[2] Normally undertaken by end user through visual check

[3] If applicable

Inspection of the pressure vessel in accordance with local guidelines

Where the compressor is part of an integrated unit, please refer to the separate dryer manual for any dryer related service tasks. Receiver certification beyond the initial period is the customers responsibility.

Please refer to the Operators handbook if there are specific local service requirements relevant to the territory you are in e.g. Oil and Filter change intervals which may be different to those shown above.

Service intervals could be shorter depending on the ambient operating conditions (heat, humidity, dirt etc.), effecting Lubricants, filters, separators etc. Service intervals could be shorter depending on the ambient operating conditions (heat, humidity, dirt etc.), effecting Lubricants, filters, separators etc.

VANE CMPV01-04 KW SERVICE SCHEDULE

		DAILY[2]	WEEKLY[2]	EVERY 2000 HOURS OR 12 MONTHS[1]	EVERY 4000 HOURS	EVERY 24000 HOURS
SERVICE A	Site-Adequate ventilation	•	•	•	•	•
	Site-Ambient temperature within limit	•	•	•	•	•
	Site-dust free ambient	•	•	•	•	•
	Check oil level at filler plug/sight glass	•	•	•	•	•
SERVICE B	Check for air leaks		•	•	•	•
	Check for oil leaks		•	•	•	•
	Check air intake filter/clean if necessary		•	•	•	•
	Check oil temperature		•	•	•	•
	Check RSU temperature		•	•	•	•
	Clean any external dirt from compressor		•	•	•	•
	Clean any external dirt from motor		•	•	•	•
SERVICE D	Change Separator cartridge			•	•	•
	Change 2000 hour oil			•	•	•
	Change air intake filter			•	•	•
	Check/Torque electrical connections			•	•	•
	Check power on load			•	•	•
	Check power off load			•	•	•
	Check servo pressure Off load			•	•	•
	Check motor gland/cables secure			•	•	•
	Check motor for damage			•	•	•
	Check motor / starter for loose connections			•	•	•
	Check motor cables and earth			•	•	•
	Check motor for vibration			•	•	•
	Check oil seal for leakage			•	•	•
EXTRA	Grease motor bearings				•	•
	Check starter contactors				•	•
OVERHAUL SERVICE	Change unloader valve seals					•
	Change MPV seals					•
	Change vacuum valve seals					•
	Change thermal motor					•
	Change drive media/key					•
	Change oil seal					•
	Change pressure gauge					•
	Change motor bearings					•
	Full Air End Inspection (internal)					•
	Clean servo filter					•
	Check correct drive rotation					•
	Check motor insulation resistance					•

[1] Whichever occurs soonest

[2] Normally undertaken by end user through visual check

Inspection of the pressure vessel in accordance with local guidelines

Please refer to the Operators handbook if there are specific local service requirements relevant to the territory you are in e.g. Oil and Filter change intervals which may be different to those shown above.

Service intervals could be shorter depending on the ambient operating conditions (heat, humidity, dirt etc.), effecting Lubricants, filters, separators etc. Service intervals could be shorter depending on the ambient operating conditions (heat, humidity, dirt etc.), effecting Lubricants, filters, separators etc.

SCROLL S04 & S07D UNITS SERVICE SCHEDULE

		DAILY[2]	EVERY 500 HOURS OR 2 MONTHS[1]	EVERY 2000 HOURS OR 6 MONTHS[1]	EVERY 5000 HOURS OR 12 MONTHS[1] 10 Bar	EVERY 10000 HOURS OR 24 MONTHS[1] 8 Bar		
Complete Scroll Air End	Inspect for excessive noise and vibration	•						
Complete Scroll	Check for air Leaks	•						
Intake Air Filter	Clean and inspect		•					
V-Belts	Inspect and adjust V-Belts		•					
Intake Air Filter	Replace intake air filter			•	•	•		
Cooling	Inspect and clean cooler			•	•	•		
Sirocco Fan	Clean & inspect			•	•	•		
Airend Fin	Clean & inspect				•	•		
Scroll Bearings	Re-grease the bearing				•	•		
Tip Seals & Face Seals	Replace the seals				•	•		

[1] Maintenance time intervals are based on operating hours or calendar date, whichever occurs first.
If the compressor is operating at full pressure and is constantly running, reduce the service intervals by 25%

[2] Performed by the end user

Inspection of the pressure vessel in accordance with local guidelines

SCROLL S06, S08, S11D, S15D UNITS SERVICE SCHEDULE

		DAILY[2]	EVERY 500 HOURS OR 2 MONTHS[1]	EVERY 2000 HOURS OR 12 MONTHS[1]	EVERY 5000 HOURS OR 24 MONTHS[1] 10 Bar	EVERY 10000 HOURS OR 48 MONTHS[1]	EVERY 20000 HOURS OR 8 YEARS[1] 8 Bar	EVERY 15000 HOURS OR 6 YEARS[1] 10 Bar
Complete Scroll	Inspect for excessive noise and vibration	•						
Complete Scroll	Check for air leaks	•						
Intake Air Filter	Clean and inspect		•					
V-Beltss	Inspect and adjust V-Belts		•					
Intake Air Filter	Replace intake air filter			•	•	•		
Cooling	Inspect and clean cooler			•	•	•		
Cooling Fan & Scroll Fin	Clean & inspect			•	•	•		
Scroll Bearings	Re-grease the bearing				•	•		
Tip Seals & Face Seals	Replace the seals				•	•		
Brushes (7.5 Kw only)	Replace the Drum				•	•		
Scroll Airend	Replace the scroll airend						•	•

[1] Maintenance time intervals are based on operating hours or calendar date, whichever occurs first.
If the compressor is operating at full pressure and is constantly running, reduce the service intervals by 25%
For operating conditions where ambient temperature is higher than 77°F or 25°C the maintenance intervals are greatly reduced, please refer to the manual for more information

[2] Performed by the end user

Inspection of the pressure vessel in accordance with local guidelines

PORTABLES CMP SERIES SERVICE SCHEDULE

			EACH START UP	FIRST 20 HOURS OF OPERATION	EVERY 100 HOURS OR 6 MONTHS[1]	EVERY 300 HOURS OR 12 MONTHS[1]	EVERY 24 MONTHS[1]
	Compressor	Check safety valve	•	•	•	•	•
	Compressor	Check retaining bolts & nuts (adjust if necessary)		•	•	•	•
	Compressor	Check & clean oil filter		•	•	•	•
	Compressor	Check & clean air filter			•	•	•
	Compressor	Clean oil cooler			•	•	•
	Compressor	Check the 2 belts tension (adjust if necessary)			•	•	•
	Compressor	Drain & replace compressor oil		•	•	•	•
	Compressor	Replace separator cartridge				•	•
	Compressor	Replace air filter				•	•
	Compressor	Replace belts					•
	Engine	Drain & replace engine oil		•	•	•	•
	Engine	Replace engine oil filter			•	•	•
	Engine	Replace engine oil filler gasket				•	•
	Engine	Replace engine air filter				•	•
	Engine	Replace engine fuel filter				•	•
	Engine	Replace engine spark plugs				•	•

[1] Maintenance time intervals are based on operating hours or calendar date, whichever occurs first.

Recommended oils -

The engine oil (2 liter) is included in the service kits. Champion only recommends this oil.

The compressor oil that is recommended is SCUO2000-5GT. Please ask your distributor for further information.

Fuel:- Use automotive gasoline (unleaded)

OIL LUBRICATED PISTON COMPRESSOR SERVICE SCHEDULE

C-Base, C-Line, C-Advanced, C-Pro, C-Engine series

	EVERY 50 HOURS	FEVERY 100 HOURS	WEEKLY	FULL MAINTENANCE/ SERVICE	
Clean suction filter element	•	•			
Change oil in oil pump		•			
Drain condensate tank			•	•	
Check oil level - top up if required			•	•	
Replace filter element				•	

SILENT PISTON COMPRESSOR SERVICE SCHEDULE

CS3, CS4, CS6, CS10, CS15 range

	EVERY 100 HOURS	FEVERY 500 HOURS	WEEKLY	MONTHLY	YEARLY
Drain condensate tank			•	•	•
Drain condensate - pressure switch			•	•	•
Clean suction filter element			•	•	•
Check oil level - top up if required	•				
Change oil in oil pump		•			
Replace filter element					•

C-SILENCED REFRIGERATION DRYER SERVICE SCHEDULE

	DAILY[2]	WEEKLY	EVERY 4 MONTHS	EVERY 12 MONTHS	
Controller	•				
Controller	•				
Condensate drain		•	•	•	
Fins			•	•	
Electrical			•	•	
Refrigerant				•	
Drain				•	
Filtration				•	

COMPRESSOR SERVICE KITS

SERVICE KITS OIL LUBRICATED SCREW COMPRESSORS

		EVERY 2000 HOURS OR 12 MONTHS[1]	EVERY 4000 HOURS OR 12 MONTHS[1]	EVERY 8000 HOURS OR 24 MONTHS[1]	EVERY 16000 HOURS OR 48 MONTHS[1]	Overhaul kit Every 5 years or 20,000 hours	
FM2-FM6	Fixed Speed	CC1219905	CC1219906	CC1219907	CC1219908 + CC1219907		
FM7-11	Fixed Speed	CC1221491	CC1180671	CC1180677		CC1180682	+ 4K Kit
FM7RS-11RS	Regulated Speed	CC1221491	CC1180672	CC1180678		CC1180682	+ 4K Kit
FM15-22	Fixed Speed	CC1221492	CC1180685	CC1180689		CC1180695	+ 4K Kit
FM15RS-22RS	Regulated Speed	CC1221492	CC1180686	CC1180690		CC1180695	+ 4K Kit
FM30	Fixed Speed		CC1198084	CC1198090		CC1198096	+ 4K Kit
FM30RS	Regulated Speed		CC1198086	CC1198092		CC1198098	+ 4K Kit
FM37-45	Fixed Speed		CC1180685	CC1198091		CC1198097	+ 4K Kit
FM37RS-45RS	Regulated Speed		CC1198087	CC1198093		CC1198099	+ 4K Kit
FM55-75	Fixed Speed		CC1198088	CC1198094		CC1198100	+ 4K Kit
FM55RS-75RS	Regulated Speed		CC1198089	CC1198095		CC1198102	+ 4K Kit
FM90-132	Fixed Speed		SKFM90132-1	MKFM90132			
FM90RS-132RS	Regulated Speed		SKFM90132-1-RS	MKFM90132			

Only the following lubricants are allowed to be used to comply with Champion 5 Years Extended Warranty:
• Mineral lubricant ChampLUBE CC1180019 (4 x 4 L) - CC1180020 (20L)

SERVICE KITS OIL LUBRICATED SCREW COMPRESSORS (Legacy)

		EVERY 2000 HOURS OR 12 MONTHS[1]	EVERY 4000 HOURS OR 12 MONTHS[1]	EVERY 8000 HOURS OR 24 MONTHS[1]
KA2-KA5		CC1089648	CC1089649	CC1089650
KA7+		CC1089652	CC1125190	CC1125192
KSA - KSV30			CC1121434	CC1121435
KSA - KSV 37-45			CC1121437	CC1121438
KSA 55 - 75	Fixed Speed		CC1154033	CC1154034
KSV 55 - 75	Regulated Speed		CC1154035	CC1154036
KSA11			CC1089657	CC1089658
KBV KSB 15 - 22			CC1178518	CC1180296
KSA90			CC1154033	CC1154034
KSV90			CC1154035	CC1154036

Only the following lubricants are allowed to be used to comply with Champion 5 Years Extended Warranty:
• Mineral lubricant ChampLUBE CC1180019 (4 x 4 L) - CC1180020 (20L)

SERVICE KITS OIL LUBRICATED VANE COMPRESSORS

		EVERY 2000 HOURS OR 12 MONTHS[1]	EVERY 24000 HOURS
CMPV01, CMPV02	Fixed Speed	C-AK0102	C-OK0102
CMPV04	Fixed Speed	C-AK04	C-OK04

Only the following lubricants are allowed to be used: Mineral lubricant ChampLUBE Vane Lubricant CC1180033 (1L)

[1] Maintenance time intervals are based on operating hours or calendar date, whichever occurs first.

Champion will not accept any responsibility for changes made to service kit numbers, prior to updating this document.

For belts, hoses, shaft seal kits and all other repair spare parts please consult the relevant parts lists

SERVICE KITS PORTABLE SCREW COMPRESSORS

	AIR END KIT EVERY 300 HOURS OR 12 MONTHS[1]	ENGINE KIT EVERY 300 HOURS OR 12 MONTHS[1]
CMP-P10, CMP-P12, CMP-P18	CC1186378	CC1186379

Only the following lubricants are allowed to be used: Mineral lubricant SCUO2000-5GT

[1] Maintenance time intervals are based on operating hours or calendar date, whichever occurs first.

Champion will not accept any responsibility for changes made to service kit numbers, prior to updating this document.

For belts and all other repair spare parts please consult the relevant parts lists

SERVICE KITS OIL FREE SCROLL COMPRESSORS

		S04, S06, S08	S07D, S11D, S15D
300SMB1445	Air Filter (4kW x 1, 6 & 8kW x 2)	x 1	x 2
300SMB6029	Tip seal kit 2 & 4kW	x 1	x 2
300SMB6022	Grease 80 grams	Refer to manual for quantites	
302SIA6003	Kit 6kW Bushing & spring	x 1	x 2
300SIA6003	Kit 6kW Service kit (includes tip seal, face seal & grease)	x 1	x 2
301SIA6003	Kit 7kW Service kit (includes tip seal, face seal & grease)	x 1	x 2
300SMB6031	Grease gun		

SERVICE KITS PISTON COMPRESSORS

C-Base, C-Line, C-Advanced, C-Pro, C-Engine series

MODEL RANGES	GASKET KIT	VALVE PLATE KIT	INTAKE FILTER	NRV
CA3 ; CL3 ; CS3	CC55886980	CC91894881	CC55875132	CC55894513
CA4 ; CP4 ; CS4	CC92060037	CC97155576	CC55875132	CC55894513
CA5 ; CL5	CC55893648	CC55893622	CC55898936	CC55894521
CA6; CP6 ; CS6	CC97241376	CC97159594	CC55898936	CC55894521
CA10 ; CL10 ; CP10 ; CS10	CC55893655	CC55894133	CC55898936	CC55894521
CA15 ; CP15 ; CS15	CC55894224	CC55894141	CC55898936	CC55894521
CA28 ; CL28 ; CP28	CC97251615	CC91894881	CC55875140	CC97160634
CB-100-CM2 CB-24-CM2 CB-3-CF2 CB-50-CM2	CC55899108	CC55899090	CC55899132	CC97160634
CB-100-CM3 CB-24-WB3 CB-50-CM3 CB-50V-CM3	CC55899405	CC55899090	CC55899132	CC55904375
CB-100-CM25 CB-24-CM25 CB-50-CM25		CC55899090	CC55890079	CC97160634
CB6			CC55890087	

Only the following lubricants are allowed to be used

- SAE40 - Viscosity 100

CHAMPION CHR6 - CHR417 REFRIGERATION DRYER SERVICE SCHEDULE

			DAILY	WEEKLY	MONTHLY	EVERY 12 MONTHS OR 2000 HOURS	EVERY 24 MONTHS OR 4000 HOURS
	Dryer	Verify the temperature on the control panel display is acceptable	•	•	•	•	•
	Condensate Drain	Visually check if the condensate is drained regularly	•	•	•	•	•
	Dryer	Clean the filter mesh of the condensate drain system		•	•	•	•
	Dryer	Clean condenser fins.			•	•	•
	Dryer	Check electrical absorption			•	•	•
	Filter	Check the conditions of the filters installed, replace elements as needed			•	•	•
	Dryer	Check if flexible tube used for condensate drainage is damaged and replace if necessary				•	•
	Dryer	Check if all connecting pipes are properly thightened and fixed				•	•
	Filter	Depressurise the dryer. Replace pre- and post-filter elements.				•	•
	Dryer	Replace the fan pressure switch					•

CHAMPION CT3-220 REFRIGERATION DRYER SERVICE SCHEDULE

			DAILY	WEEKLY	EVERY 12 MONTHS	EVERY 24 MONTHS
	Controller	Verify the temperature on the control panel display is acceptable	•			
	Controller	Visually check if the condensate is drained regularly	•			
	Condensate drain	Clean the filter mesh of the condensate drain system		•	•	•
	Fins	Clean condenser fins.			•	•
	Electrical	Check electrical absorption			•	•
	Refrigerant	Check refrigerant leaks				•
	Drain	Depressurise the dryer. Replace electronic drainer service unit				•
	Filtration	Depressurise the dryer. Replace pre- and post-filter elements				•

SERVICE PARTS CT DRYERS

	KIT PART NUMBER		
	CC2210BEK057	Service unit for electronic drainer	CT3-CT105
	CC2210BEK058	Service unit for electronic drainer	CT130-CT220
	See filter guide for the correct filter elements		

ADSORPTION AIR DRYERS CHAMPION CHA-DRY SERVICE SCHEDULE

			DAILY[2]	EVERY 2000 HOURS OR 3 MONTHS[1]	EVERY 8000 HOURS OR 12 MONTHS[1]	EVERY 16000 HOURS OR 24 MONTHS[1]	EVERY 56000 HOURS OR 48 MONTHS[1]
	Dryer	Check POWER ON indicator is illuminated	•				
	Dryer	Check STATUS / FAULT indicators located on the controller.	•				
	Dryer	Check for air leaks	•				
	Dryer	Check the condition of electrical supply cables and conduits.		•	•	•	•
	Dryer	Check for cyclic operation.			•	•	•
	Filtration	Check Drain operation		•	•	•	•
A	Dryer	Replace active exhaust silencers Recommended Service A			†	†	†
B	Filtration	Replace the inlet and outlet air filters and service drains. Recommended Service B			†	†	†
D	Dryer	Replace valves Recommended Service C				†	†
E	Dryer	Replace the Desiccant. Recommended Service E					†

[1] Maintenance time intervals are based on operating hours or calendar date, whichever occurs first. • Performed by the operator † Essential maintenance - Service personnel only

KITS FOR CHA-DRY 6 - 200

	KIT PART NUMBER		
A	CC1182876	1 year silencer replacement kit 06-36	2 x purge exhaust silencer
	CC1182877	1 year silencer replacement kid 75-105	2 x purge exhaust silencer
	CC1182878	1 year silencer replacement kid 150-200	2 x purge exhaust silencer
D	CC1182832	2 year replacement kit 06	4 x replacement control valves
	CC1182835	2 year replacement kit 12	2 x replacement non-return valves
	CC1182818	2 year replacement kit 24	4 x sealing O-ring
	CC1182820	2 year replacement kit 36	2 x nozzle
			2 x purge exhaust silencer
	CC1182821	2 year replacement kit 60	4 x replacement control valves
	CC1182822	2 year replacement kit 75	2 x replacement non-return valves
	CC1182823	2 year replacement kit 105	4 x sealing O-ring
			2 x nozzle
			2 x purge exhaust silencer
	CC1182854	2 year replacement kit 150	4 x replacement control valves
	CC1182855	2 year replacement kit 200	4 x replacement non-return valves
			4 x sealing O-ring
			2 x nozzle
			2 x purge exhaust silencer
E	CC1182857	KIT Service CHA-DRY 06/48	1 x 2 year replacement kit 06-36
		48 months replacement kit	2 x tower tubes including molecular sieve for A-DRY 06
	CC1182858	KIT Service CHA-DRY 12/48	1 x 2 year replacement kit 06-36
		48 months replacement kit	2 x tower tubes including molecular sieve for A-DRY 12
	CC1182859	KIT Service CHA-DRY 24/48	1 x 2 year replacement kit 06-36
		48 months replacement kit	2 x tower tubes including molecular sieve for A-DRY 24
	CC1182860	KIT Service CHA-DRY 36/48	1 x 2 year replacement kit 06-36
		48 months replacement kit	2 x tower tubes including molecular sieve for A-DRY 32
	CC1182861	KIT Service CHA-DRY 60/48	1 x 2 year replacement kit 60-105
		48 months replacement kit	2 x tower tubes including molecular sieve for A-DRY 60
	CC1182862	KIT Service CHA-DRY 75/48	1 x 2 year replacement kit 60-105
		48 months replacement kit	2 x tower tubes including molecular sieve for A-DRY 75
	CC1182863	KIT Service CHA-DRY 105/48	1 x 2 year replacement kit 60-105
		48 months replacement kit	2 x tower tubes including molecular sieve for A-DRY 105
	CC1182874	KIT Service CHA-DRY 150/48	1 x 2 year replacement kit 150-200
		48 months replacement kit	2 x tower tubes including molecular sieve for A-DRY 150
	CC1182875	KIT Service CHA-DRY 200/48	1 x 2 year replacement kit 150-200
		48 months replacement kit	2 x tower tubes including molecular sieve for A-DRY 200

ADSORPTION AIR DRYERS CHAMPION CHB-DRY SERVICE SCHEDULE

			DAILY[2]	EVERY 2000 HOURS OR 3 MONTHS[1]	EVERY 8000 HOURS OR 12 MONTHS[1]	EVERY 16000 HOURS OR 24 MONTHS[1]	EVERY 56000 HOURS OR 48 MONTHS[1]
	Dryer	Check POWER ON indicator is illuminated	•				
	Dryer	Check STATUS / FAULT indicators located on the controller.	•				
	Dryer	Check for air leaks	•				
	Dryer	Check the condition of electrical supply cables and conduits.		•	•	•	•
	Dryer	Check for cyclic operation			•	•	•
	Filtration	Check Drain operation		•	•	•	•
A	Dryer	Replace active exhaust silencers Recommended Service A			†	†	†
B	Filtration	Replace the inlet and outlet air filters and service drains. Recommended Service B			†	†	†
D	Dryer	Replace valves Recommended Service C				†	†
E	Dryer	Replace the Desiccant. Recommended Service E					†
	Dryer	Clean/Replace Strainers					†
	Dryer	Calibrate Dew-point sensor (optional)			†		

[1] Maintenance time intervals are based on operating hours or calendar date, whichever occurs first. • Performed by the operator † Essential maintenance - Service personnel only

KITS FOR CHB-DRY 110 - 1000

	KIT PART NUMBER		
A	CC1182775	Silencer kit CHB-DRY 110-250	Silencer service kit for B-DRY 110/150/200/250
	CC1182776	Silencer kit CHB-DRY 300-600	Silencer service kit for B-DRY 300/400/600
	CC1182777	Silencer kit CHB-DRY 800-1000	Silencer service kit for B-DRY 800/1000
D	CC1182893	KIT SERVIS CHB-DRY 110-250/24	Control valves replacement components
		24 months replacement kit	
	CC1182894	KIT SERVIS CHB-DRY 300-600/24	Check valves replacement components
		24 months replacement kit	Silencer service kit
	CC1182895	KIT SERVIS CHB-DRY 800-1000/24	Check valves replacement components
		24 months replacement kit	Silencer service kit
E	CC1182746	KIT SERVIS CHB-DRY 110/48	Control valves replacement components
		48 months replacement kit	Check valves replacement components Silencer service kit
	CC1182747	KIT SERVIS CHB-DRY 150/48	Control valves replacement components
		48 months replacement kit	Check valves replacement components Silencer service kit
	CC1182748	KIT SERVIS CHB-DRY 200/48	Control valves replacement components
		48 months replacement kit	Check valves replacement components Silencer service kit
	CC1182749	KIT SERVIS CHB-DRY 250/48	Control valves replacement components
		48 months replacement kit	Check valves replacement components Silencer service kit
	CC1182750	KIT SERVIS CHB-DRY 300/48	Control valves replacement components
		48 months replacement kit	Check valves replacement components Silencer service kit
	CC1182751	KIT SERVIS CHB-DRY 400/48	Control valves replacement components
		48 months replacement kit	Check valves replacement components Silencer service kit
	CC1182752	KIT SERVIS CHB-DRY 600/48	Control valves replacement components
		48 months replacement kit	Check valves replacement components Silencer service kit
	CC1182753	KIT SERVIS CHB-DRY 800/48	Control valves replacement components
		48 months replacement kit	Check valves replacement components Silencer service kit
	CC1182774	KIT SERVIS CHB-DRY 1000/48	Control valves replacement components
		48 months replacement kit	Check valves replacement components Silencer service kit

ADSORPTION AIR DRYERS CHAMPION CHX-DRY SERVICE SCHEDULE

			DAILY[2]	EVERY 2000 HOURS OR 3 MONTHS[1]	EVERY 8000 HOURS OR 12 MONTHS[1]	EVERY 16000 HOURS OR 24 MONTHS[1]	EVERY 56000 HOURS OR 48 MONTHS[1]
	Dryer	Check POWER ON indicator is illuminated	•				
	Dryer	Check STATUS / FAULT indicators located on the controller.	•				
	Dryer	Check for air leaks	•				
	Dryer	Check the condition of electrical supply cables and conduits.		•	•	•	•
	Dryer	Check for cyclic operation.			•	•	•
	Filtration	Check Drain operation		•	•	•	•
A	Dryer	Replace active exhaust silencers Recommended Service A			†	†	†
B	Filtration	Replace the inlet and outlet air filters and service drains. Recommended Service B			†	†	†
D	Dryer	Replace valves Recommended Service C				†	†
E	Dryer	Replace the Desiccant. Recommended Service E					†
	Dryer	Clean/Replace Strainers					†
	Dryer	Calibrate Dew-point sensor (optional)			†		

[1] Maintenance time intervals are based on operating hours or calendar date, whichever occurs first. • Performed by the operator † Essential maintenance - Service personnel only

KITS FOR CHX-DRY 350 - 1050

	KIT PART NUMBER		
A	CC1182891	Silencer CHX-DRY 300-1050	Silencer service X-DRY 300-1050
D	CC1182879	KIT Service CHX-DRY 300/24	Control and check valves replacement components
		24 months replacement kit	Silencer service kit
	CC1182880	KIT Service CHX-DRY 450/24	Control and check valves replacement components
		24 months replacement kit	Silencer service kit
	CC1182881	KIT Service CHX-DRY 600/24	Control and check valves replacement components
		24 months replacement kit	Silencer service kit
	CC1182882	KIT Service CHX-DRY 750/24	Control and check valves replacement components
		24 months replacement kit	Silencer service kit
	CC1182883	KIT Service CHX-DRY 900/24	Control and check valves replacement components
		24 months replacement kit	Silencer service kit
	CC1182884	KIT Service CHX-DRY 1050/24	Control and check valves replacement components
		24 months replacement kit	Silencer service kit
E	CC1182885	KIT Service CHX-DRY 300/48	Control and check valves replacement components
		48 months replacement kit	Silencer service kit Adsorbent
	CC1182886	KIT Service CHX-DRY 450/48	Control and check valves replacement components
		48 months replacement kit	Silencer service kit Adsorbent
	CC1182887	KIT Service CHX-DRY 600/48	Control and check valves replacement components
		48 months replacement kit	Silencer service kit Adsorbent
	CC1182888	KIT Service CHX-DRY 750/48	Control and check valves replacement components
		48 months replacement kit	Silencer service kit Adsorbent
	CC1182889	KIT Service CHX-DRY 900/48	Control and check valves replacement components
	CC1182890	48 months replacement kit	Silencer service kit Adsorbent
		KIT Service CHX-DRY 1050/48	Control and check valves replacement components
		48 months replacement kit	Silencer service kit Adsorbent

KITS FOR CH-TAC ACTIVATED CARBON TOWERS

KIT PART NUMBER		
CH-TACm 6	CC1189474	Service Kit CH-TACm 6
CH-TACm 12	CC1189475	Service Kit CH-TACm 12
CH-TACm 23	CC1189476	Service Kit CH-TACm 23
CH-TACm 35	CC1189477	Service Kit CH-TACm 35
CH-TACm 56	CC1189478	Service Kit CH-TACm 56
CH-TACm 70	CC1189479	Service Kit CH-TACm 70
CH-TACm 105	CC1189480	Service Kit CH-TACm 105
CH-TAC 110	CC1189481	Service Kit CH-TAC 110
CH-TAC 150	CC1189482	Service Kit CH-TAC 150
CH-TAC 200	CC1189483	Service Kit CH-TAC 200
CH-TAC 250	CC1189484	Service Kit CH-TAC 250
CH-TAC 300	CC1189485	Service Kit CH-TAC 300
CH-TAC 400	CC1189486	Service Kit CH-TAC 400
CH-TAC 600	CC1189487	Service Kit CH-TAC 600
CH-TAC 800	CC1189488	Service Kit CH-TAC 800
CH-TAC 1000	CC1189489	Service Kit CH-TAC 1000
CH-TAC 1200	CC1189490	Service Kit CH-TAC 1200
CH-TAC 1500	CC1189491	Service Kit CH-TAC 1500
CH-TAC 2000	CC1189492	Service Kit CH-TAC 2000
CH-TAC 2500	CC1189493	Service Kit CH-TAC 2500
CH-TAC 3000	CC1189494	Service Kit CH-TAC 3000
CH-TAC 3750	CC1189495	Service Kit CH-TAC 3750
CH-TAC 5000	CC1189496	Service Kit CH-TAC 5000
CH-TAC 6500	CC1189497	Service Kit CH-TAC 6500

FILTER GUIDE

FILTER TYPE	M^3/MIN	SIZE	FILTER ID NO	FILTER ELEMENT	ELEMENT NO
CHF005LM	0.5	3/8"	47698906001	CHE005LM	47699428001
CHF005LS	0.5	3/8"	47698923001	CHE005LS	47699429001
CHF005LR	0.5	3/8"	47698940001	CHE005LR	47699430001
CHF005LA	0.5	3/8"	47698957001	CHE005LA	47699431001
CHF007LM	0.7	1/2"	47698907001	CHE007LM	47699432001
CHF007LS	0.7	1/2"	47698924001	CHE007LS	47699433001
CHF007LR	0.7	1/2"	47698941001	CHE007LR	47699434001
CHF007LA	0.7	1/2"	47698958001	CHE007LA	47699435001
CHF0013LM	1.3	3/4"	47698908001	CHE0013LM	47699436001
CHF0013LS	1.3	3/4"	47698925001	CHE0013LS	47699437001
CHF0013LR	1.3	3/4"	47698942001	CHE0013LR	47699438001
CHF0013LA	1.3	3/4"	47698959001	CHE0013LA	47699439001
CHF0018LM	1.8	3/4"	47698909001	CHE0018LM	47699440001
CHF0018LS	1.8	3/4"	47698926001	CHE0018LS	47699441001
CHF0018LR	1.8	3/4"	47698943001	CHE0018LR	47699442001
CHF0018LA	1.8	3/4"	47698960001	CHE0018LA	47699443001
CHF0025LM	2.5	1"	47698910001	CHE0025LM	47699444001
CHF0025LS	2.5	1"	47698927001	CHE0025LS	47699445001
CHF0025LR	2.5	1"	47698944001	CHE0025LR	47699446001
CHF0025LA	2.5	1"	47698961001	CHE0025LA	47699447001
CHF0032LM	3.2	1"	47698911001	CHE0032LM	47699448001
CHF0032LS	3.2	1"	47698928001	CHE0032LS	47699449001
CHF0032LR	3.2	1"	47698945001	CHE0032LR	47699450001
CHF0032LA	3.2	1"	47698962001	CHE0032LA	47699451001
CHF0038LM	3.8	1"	47698912001	CHE0038LM	47699452001
CHF0038LS	3.8	1"	47698929001	CHE0038LS	47699453001
CHF0038LR	3.8	1"	47698946001	CHE0038LR	47699454001
CHF0038LA	3.8	1"	47698963001	CHE0038LA	47699455001
CHF0067LM	6.7	1 1/2"	47698913001	CHE0067LM	47699456001
CHF0067LS	6.7	1 1/2"	47698930001	CHE0067LS	47699457001
CHF0067LR	6.7	1 1/2"	47698947001	CHE0067LR	47699458001
CHF0067LA	6.7	1 1/2"	47698964001	CHE0067LA	47699459001
CHF0082LM	8.2	1 1/2"	47698914001	CHE0082LM	47699460001
CHF0082LS	8.2	1 1/2"	47698931001	CHE0082LS	47699461001
CHF0082LR	8.2	1 1/2"	47698948001	CHE0082LR	47699462001
CHF0082LA	8.2	1 1/2"	47698965001	CHE0082LA	47699463001
CHF0100LM	10.0	2"	47698915001	CHE0100LM	47699464001
CHF0100LS	10.0	2"	47698932001	CHE0100LS	47699465001
CHF0100LR	10.0	2"	47698949001	CHE0100LR	47699466001
CHF0100LA	10.0	2"	47698966001	CHE0100LA	47699467001
CHF0133LM	13.3	2"	47698916001	CHE0133LM	47699468001
CHF0133LS	13.3	2"	47698933001	CHE0133LS	47699469001
CHF0133LR	13.3	2"	47698950001	CHE0133LR	47699470001
CHF0133LA	13.3	2"	47698967001	CHE0133LA	47699471001
CHF0167LM	16.7	2"	47698917001	CHE0167LM	47699472001
CHF0167LS	16.7	2"	47698934001	CHE0167LS	47699473001
CHF0167LR	16.7	2"	47698951001	CHE0167LR	47699474001
CHF0167LA	16.7	2"	47698968001	CHE0167LA	47699475001
CHF0200LM	20.0	3"	47698918001	CHE0200LM	47699476001
CHF0200LS	20.0	3"	47698935001	CHE0200LS	47700078001
CHF0200LR	20.0	3"	47698952001	CHE0200LR	47700079001
CHF0200LA	20.0	3"	47698969001	CHE0200LA	47700080001
CHF0260LM	26.0	3"	47698919001	CHE0260LM	47700081001
CHF0260LS	26.0	3"	47698936001	CHE0260LS	47700082001
CHF0260LR	26.0	3"	47698953001	CHE0260LR	47700083001
CHF0260LA	26.0	3"	47698970001	CHE0260LA	47700084001
CHF0305LM	30.5	3"	47698920001	CHE0305LM	47700085001
CHF0305LS	30.5	3"	47698937001	CHE0305LS	47700086001
CHF0305LR	30.5	3"	47698954001	CHE0305LR	47700087001
CHF0305LA	30.5	3"	47698971001	CHE0305LA	47700088001
CHF0038LM	38.3	3"	47698921001	CHE0038LM	47700089001
CHF0038LS	38.3	3"	47698938001	CHE0038LS	47700090001
CHF0038LR	38.3	3"	47698955001	CHE0038LR	47700091001
CHF0038LA	38.3	3"	47698972001	CHE0038LA	47700092001
CHF0450LM	45.0	3"	47698922001	CHE0450LM	47700093001
CHF0450LS	45.0	3"	47698939001	CHE0450LS	47700094001
CHF0450LR	45.0	3"	47698956001	CHE0450LR	47700095001
CHF0450LA	45.0	3"	47698973001	CHE0450LA	47700096001

FILTER ELEMENTS MUST BE REPLACED AT LEAST EVERY 12 MONTHS

FILTER GUIDE

FILTER TYPE	M^3/MIN	SIZE	FILTER ID NO	FILTER ELEMENT	ELEMENT NO
CERAMIC PRE-FILTERS 3 MICRON					
F 005 P	1	3/8"	223051A	Filter Cartridge F005P	223171
F 007 P	1.3	1/2"	223052A	Filter Cartridge F007P	223172
F 010 P	2	3/4"	223053A	Filter Cartridge F010P	223173
F 018 P	3.3	1 "	223054A	Filter Cartridge F018P	223174
F 030 P	5.5	1 "	223055A	Filter Cartridge F030P	223175
F 047 P	8.5	1 1/2"	223056A	Filter Cartridge F047P	223176
F 070 P	13	1 1/2"	223057A	Filter Cartridge F070P	223177
F 094 P	16.6	2"	223058A	Filter Cartridge F094P	223178
F 150 P	25	2"	223059A	Filter Cartridge F150P	223179
F 200 P	36	3"	CC1182427	Filter Cartridge F200P	CC1183012
F 240 P	46	3"	223060A	Filter Cartridge F240P	223180
COALESCENT FILTERS 0.1 MICRON					
F 005 R	1	3/8"	CC1185088	Filter Cartridge F005R	CC1185073
F 007 R	1.3	1/2"	CC1185089	Filter Cartridge F007R	CC1185074
F 010 R	2	3/4"	CC1185090	Filter Cartridge F010R	CC1185075
F 018 R	3.3	1 "	CC1185091	Filter Cartridge F018R	CC1185076
F 030 R	5.5	1 "	CC1185092	Filter Cartridge F030R	CC1185077
F 047 R	8.5	1 1/2"	CC1185093	Filter Cartridge F047R	CC1185078
F 070 R	13	1 1/2"	CC1185094	Filter Cartridge F070R	CC1185079
F 094 R	16.6	2"	CC1185095	Filter Cartridge F094R	CC1185080
F 150 R	25	2"	CC1185096	Filter Cartridge F150R	CC1185081
F 200 R	36	3"	CC1185097	Filter Cartridge F200R	CC1185082
F 240 R	46	3"	CC1185098	Filter Cartridge F240R	CC1185083
COALESCENT FILTERS 0.1 MICRON					
F 005 M	1	3/8"	223061A	Filter Cartridge F005M	223181
F 007 M	1.3	1/2"	223062A	Filter Cartridge F007M	223182
F 010 M	2	3/4"	223063A	Filter Cartridge F010M	223183
F 018 M	3.3	1"	223065A	Filter Cartridge F018M	223184
F 030 M	5.5	1"	223066A	Filter Cartridge F030M	223185
F 047 M	8.5	1 1/2"	223067A	Filter Cartridge F047M	223186
F 070 M	13	1 1/2"	223068A	Filter Cartridge F070M	223187
F 094 M	16.6	2"	223069A	Filter Cartridge F094M	223188
F 150 M	25	2"	223081A	Filter Cartridge F150M	223189
F 200 M	36	3"	CC1182428	Filter Cartridge F200M	CC1183034
F 240 M	46	3"	223064A	Filter Cartridge F240M	223190
COALESCENT FILTERS 0.01 MICRON					
F 005 S	1	3/8"	223070A	Filter Cartridge F005S	223191
F 007 S	1.3	1/2"	223071A	Filter Cartridge F007S	223192
F 010 S	2	3/4"	223072A	Filter Cartridge F010S	223193
F 018 S	3.3	1"	223073A	Filter Cartridge F018S	223194
F 030 S	5.5	1"	223074A	Filter Cartridge F030S	223195
F 047 S	8.5	1 1/2"	223075A	Filter Cartridge F047S	223196
F 070 S	13	1 1/2"	223076A	Filter Cartridge F070S	223197
F 094 S	16.6	2"	223077A	Filter Cartridge F094S	223198
F 150 S	25	2"	223078A	Filter Cartridge F150S	223199
F 200 S	36	2 1/2"	CC1182429	Filter Cartridge F200S	CC1183035
F 240 S	46	3"	223079A	Filter Cartridge F240S	223200
ACTIVATED CARBON FILTERS 0.005 MICRON					
F 005 A	1	3/8"	223090A	Filter Cartridge F005A	223211
F 007 A	1.3	1/2"	223091A	Filter Cartridge F007A	223212
F 010 A	2	3/4"	223092A	Filter Cartridge F010A	223213
F 018 A	3.3	1"	223093A	Filter Cartridge F018A	223214
F 030 A	5.5	1"	223094A	Filter Cartridge F030A	223215
F 047 A	8.5	1 1/2"	223095A	Filter Cartridge F047A	223216
F 070 A	13	1 1/2"	223096A	Filter Cartridge F070A	223217
F 094 A	16.6	2"	223097A	Filter Cartridge F094A	223218
F 150 A	25	2"	223098A	Filter Cartridge F150A	223219
F 200 A	36	3"	CC1182430	Filter Cartridge F200A	CC1183036
F 240 A	46	3"	223099A	Filter Cartridge F240A	223220

FILTER ELEMENTS MUST BE REPLACED AT LEAST EVERY 12 MONTHS

FILTER GUIDE

FILTER TYPE	M^3/MIN	SIZE	FILTER ID NO	FILTER ELEMENT	ELEMENT NO
CONDENSATION SEPARATING FILTERS					
F 005 W	1	3/8"	CC1177720	Filter Cartridge F 005W	CC1188141
F 007 W	1.3	1/2"	CC1177721	Filter Cartridge F 007W	CC1188142
F 010 W	2	3/4"	223101A	Filter Cartridge F 010W	CC1183037
F 030 W	3.3	1"	223102A	Filter Cartridge F 030W	CC1183038
F 070 W	8.5	1 1/2"	223103A	Filter Cartridge F 070W	CC1183039
F 094 W	16.6	2"	CC1181853	Filter Cartridge F 094W	CC1183040
F 150 W	25	2"	223104A	Filter Cartridge F 150W	CC1183041
F 200 W	36	2 1/2"	CC1182432	Filter Cartridge F 200W	CC1183042
CH-MDRY MEMBRANE FILTERS					
CHM-DRY 3	0.05	1/4"	CC1189577	Membrane CHM-DRY 3	CC1189462
CHM-DRY 6	0.1	1/4"	CC1189578	Membrane CHM-DRY 6	CC1189463
CHM-DRY 9	0.15	1/4"	CC1189579	Membrane CHM-DRY 9	CC1189464
CHM-DRY 12	0.2	1/4"	CC1189580	Membrane CHM-DRY 12	CC1189465
CHM-DRY 18	0.3	1/2"	CC1189581	Membrane CHM-DRY 18	CC1189466
CHM-DRY 24	0.4	1/2"	CC1189582	Membrane CHM-DRY 24	CC1189467
CHM-DRY 32	0.6	1/2"	CC1189583	Membrane CHM-DRY 32	CC1189468
CHM-DRY 44	0.8	1/2"	CC1189584	Membrane CHM-DRY 44	CC1189469
CHM-DRY 63	1.05	1/2"	CC1189585	Membrane CHM-DRY 63	CC1189470
CHM-DRY 90	1.5	1/2"	CC1189586	Membrane CHM-DRY 90	CC1189471
CHM-DRY 123	2.05	1/2"	CC1189587	Membrane CHM-DRY 123	CC1189472
CHM-DRY 180	3	1/2"	CC1189588	Membrane CHM-DRY 180	CC1189473

CHB-AIR BREATING AIR FILTRATON SYSTEMS

FILTER TYPE	ELEMENT TYPE (FM)	ELEMENT NO	ELEMENT TYPE (F-H2M)	ELEMENT NO	ELEMENT TYPE (F-A2)	ELEMENT NO
CHB-AIR 76	Filter Cartridge F007M	223182	Filter Cartridge F007H2	CC1189441	Filter Cartridge F007A2	CC1189354
CHB-AIR 106	Filter Cartridge F010M	223183	Filter Cartridge F010H2	CC1189442	Filter Cartridge F010A2	CC1189434
CHB-AIR 186	Filter Cartridge F018M	223184	Filter Cartridge F018H2	CC1189443	Filter Cartridge F018A2	CC1189435
CHB-AIR 306	Filter Cartridge F030M	223185	Filter Cartridge F030H2	CC1189454	Filter Cartridge F030A2	CC1189437
CHB-AIR 476	Filter Cartridge F047M	223186	Filter Cartridge F047H2	CC1189455	Filter Cartridge F047A2	CC1189438
CHB-AIR 706	Filter Cartridge F070M	223187	Filter Cartridge F070H2	CC1189456	Filter Cartridge F070A2	CC1189439

CHB-AIR PLUS PORTABLE BREATING AIR FILTRATON SYSTEMS

FILTER TYPE	ELEMENT TYPE (FM)	ELEMENT NO	ELEMENT TYPE (F-H2M)	ELEMENT NO	ELEMENT TYPE (F-A2)	ELEMENT NO
CHB-AIR plus	Filter Cartridge F007M	223182	Filter Cartridge F007H2	CC1189441	Filter Cartridge F007A2	CC1189354

CH-PP SERIES PAINTING AIR FILTRATION SYSTEMS

FILTER TYPE	ELEMENT TYPE (FM)	ELEMENT NO	ELEMENT TYPE (F-S)	ELEMENT NO	ELEMENT TYPE (F-A)	ELEMENT NO	ELEMENT TYPE (CKL-PP)	ELEMENT NO
CH-PP-107							Filter Cartridge F007-CKL-PP	CC1189457
CH-PP-110							Filter Cartridge F010-CKL-PP	CC1189458
CH-PP-207	Filter Cartridge F007M	223182					Filter Cartridge F007-CKL-PP	CC1189457
CH-PP-210	Filter Cartridge F010M	223183					Filter Cartridge F010-CKL-PP	CC1189458
CH-PP-307	Filter Cartridge F007M	223182	Filter Cartridge F007S	223192			Filter Cartridge F007-CKL-PP	CC1189457
CH-PP-310	Filter Cartridge F010M	223183	Filter Cartridge F010S	223193			Filter Cartridge F010-CKL-PP	CC1189458
CH-PP-407	Filter Cartridge F007M	223182	Filter Cartridge F007S	223192	Filter Cartridge F007A	223212		
CH-PP-410	Filter Cartridge F010M	223183	Filter Cartridge F010S	223193	Filter Cartridge F010A	223213		
CH-PP-507	Filter Cartridge F007M	223182	Filter Cartridge F007S	223192				
CH-PP-510	Filter Cartridge F010M	223183	Filter Cartridge F010S	223193				
CH-PP-607	Filter Cartridge F007M	223182	Filter Cartridge F007S	223192				
CH-PP-610	Filter Cartridge F010M	223183	Filter Cartridge F010S	223193				

FILTER ELEMENTS MUST BE REPLACED AT LEAST EVERY 12 MONTHS

SERVICE KITS FOR LEGACY PRODUCTS

MODEL	BASIC	STANDARD	ADVANCED
KA2-KA5	CC1089648	CC1089649	CC1089650
KA6	CC1089648	CC1125182	CC1125184
KA7 Plus	CC1089652	CC1125190	CC1125192
KSA11-KSA15	CC1089656	CC1089657	CC1089658
KSA18-KSA22	CC1089661	CC1089662	CC1089663
KSA30	CC1090691	CC1121434	CC1121435
KSA37	-	CC1121437	CC1121438
KSA55-KSA75	CC1154032	CC1154033	CC1154034
KS97	CC1090695	CC1090696	CC1090697
KSV11-KSV15	CC1089656	CC1089657	CC1089658
KSV18-KSV22	CC1089661	CC1089662	CC1089663
KSV30	CC1090691	CC1121434	CC1121435
KSV37-KSV45	-	CC1121437	CC1121438
KSV55-KSV75	CC1154032	CC1154035	CC1154036
KSB15-KSB22	-	CC1178518	CC1180296
KBV15-KBV22	-	CC1178518	CC1180296
KSA90	-	CC1154033	CC1154034
KSV90	-	CC1154035	CC1154036

SALES CONDITIONS & PRICES

Prices are valid for orders received on or after 1st April 2021

Prices shown are in the currency indicated ex-works (Incoterms 2000) Lonate Pozzolo, Italy with the following exceptions:

- Vane & Portable Compressors - EXW Redditch, UK
- Spares Parts – EXW Ghent, Belgium
- Portables from CMP-P21 upwards and FM90-132 – EXW Simmern Germany

In the case of a discrepancy in price, the Champion system is the system of record containing the correct price.

Individual quotations and orders are subject to the standard terms and conditions.

The products contained within the price list are manufactured in compliance with EU directives and other national standards.

Champion reserve the right to make changes to the design and execution and accept no liability for errors or misprints.

Champion reserves the right to modify these prices at any time providing 30 days written notification.

Technical details in price book are for reference only and subject to change. For full technical details and in case of discrepancy the technical data sheets contain the correct information.

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