



Compressed Air Technologies.
Built to Deliver Value.



CHAMPION

June 2025

ChampionAirtech.com

CHAMPION MANUFACTURING STANDARDS

With more than 55 years of screw compressor experience, Champion delivers crucial know-how and a passion for excellence. To provide quality processes and performance at the highest level possible, we focus on five main areas:

The Process: The manufacturing process for every compressor includes thirty quality checks before the testing procedure begins. All quality checks are based on customer expectations and requirements to ensure a perfect assembly process.

Performance Testing: All compressors pass through accurate performance test procedures to ensure assembly accuracy, meeting and exceeding compliance with ISO 1217 Flow Rate and IEC 60204 for electric equipment.

Traceability: All performance and critical component parameters are captured during the performance test and stored in a dedicated database. This information allows us to create compressor ID test reports that are always available for any customer requests – the database has delivered performance and critical components traceability since 2014.

Exceptional Attention to Detail: After testing, every compressor must pass a final inspection where dedicated operators clean, remove imperfections, and check against approved specifications.

Availability & Prompt Delivery: To keep production at the required levels, the Lonate Pozzolo plant operates a mixed-model compressor assembly line, with 600 sqm of warehousing dedicated exclusively to finished goods.

Champion is certified to ISO 9001, ISO 14001 and ISO 45001 to grant the European standard on Quality, Health and Safety SO process.

5 Year Extended Warranty

The Champion free-of-charge 5 year extended warranty* speaks volumes about the quality of our products and gives you total peace of mind. Our warranty and service plans provide the most cost-effective solution and quality results, while you focus on your core business and let us take care of your compressed air system. Helping to decrease unplanned downtime and costly production interruptions, our warranty and service plans keep your system performing at its peak and delivers total peace of mind.



You really can depend on Champion.

*See Terms & Conditions for full details.

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SCREW COMPRESSORS 2.2 - 132KW

- Oil flooded
- Single stage rotary screw compressor
- Fixed and variable speed models
- Star / Delta starting
- 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 as standard





At a glance...



Nominal Pressure
10 bar g



Motor Power
2.2 - 7.5kW



Volume Flow
0.18 - 0.9 m³/min



SMART COMPRESSOR DESIGN 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



Compact & Flexible

Reliable electric motor

IP55, F-class insulation, IE3 class

Safety devices for

- Motor over temperature
- Compressor over temperature
- Aired 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

flexiDry

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, unrivalled 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 CODE | TYPE | FM2 230V RSCCP020601 | FM2 RSCCP020602 | FM3 RSCCP020603 | FM4 RSCCP020604 | FM5 RSCCP020605 | FM6SDS RSCCP020608 |
|-----------------------------------|--------|-------------------------|--------------------|--------------------|--------------------|--------------------|-----------------------|
| Maximum pressure | bar | 10 | 10 | 10 | 10 | 10 | 10 |
| Capacity at maximum pressure | m³/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 | | 1/2" | 1/2" | 1/2" | 1/2" | 1/2" | 1/2" |

| STD. COMPRESSOR SDS | | | | | | | |
|---------------------|-------|---|---|---|-------------|-------------|---|
| 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 | | | | | | | |
|---------------------------------------|----|---|---|---|-------------------|-------------|-------------|
| 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 | | | | | | | |
|--------------------------------|----|-------------------|-------------|-------------|-------------|-------------|---|
| 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 | | | | | | | |
|--------------------------------------|----|---|---|---|-------------------|-------------|-------------|
| 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 | | | | | | | |
|--------------------------------|----|---|---|---|-------------------|-------------|---|
| 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 | | | | | | | |
|--------------------------------------|----|---|---|---|-------------------|-------------|-------------|
| 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 | |
|-------------------------------------|-----------|
| Service Kit FM2-6 2000 Hrs | CC1219905 |
| Service Kit FM2-6 4000 Hrs | CC1219906 |
| Service Kit FM2-4 8000 Hrs | CC1224708 |
| Service Kit FM5-6 8000 Hrs | CC1219907 |
| ChamLube Screw Lubricant 4 Ltr (x4) | CC1180019 |

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

* Service intervals are on calendar months or operating hours, whichever occurs first. Please see pages 88-98 for more details

At a glance...



Nominal Pressure
5 - 13 bar g



Motor Power
7 - 22kW



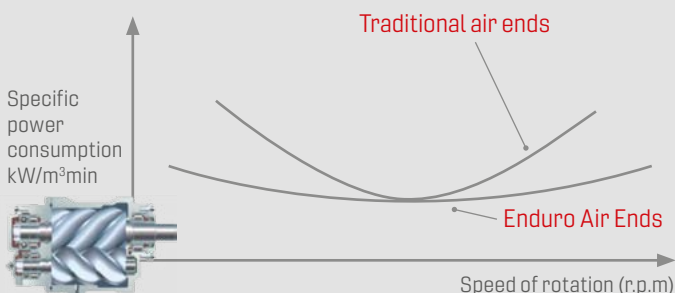
Volume Flow
0.45 - 3.50 m³/min



COMPACT & RELIABLE ROTARY SCREW COMPRESSORS - FM SERIES

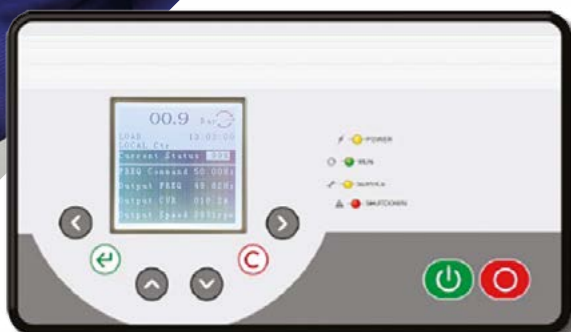
FM & FM RS Screw Compressors
up to 45°C ambient temperature

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



Premium Quality Airends

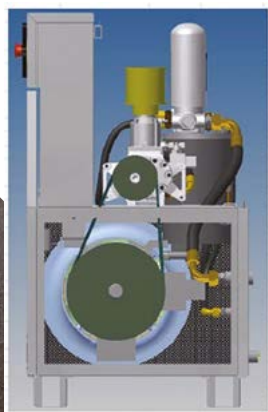
FM series feature high quality airends manufactured using state of the art manufacturing techniques. The airends are designed with focus on reliability and efficiency. The rotors are accurate and thoroughly checked and measured by a computerised control system. Enduro airends have a flat specific power 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



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.

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

Easy Installation at the point of use

Compact design with a footprint of 0,4 m² for Frame 1 and 0.5m² 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

NEW FM22+ "HIGH FLOW" FIXED & VARIABLE SPEED SCREW COMPRESSORS

At a glance...



Nominal Pressure
7, 8 & 10 bar



Motor Power
22kW



Volume Flow
3.40 - 3.79 m³/min

Improved
Flow Rate
(FAD) up to
10%!



The new addition FM22+ and FM22+RS models add up to a 10% increased flow rate (FAD) on top of what was already a high-performance Series.

These compact rotary screw compressors deliver fixed or variable speed operation with the best performance and reliability under the harshest conditions.

Fitted as standard with high-efficiency class 2 (IE3) motors and IP55 enclosures, they offer one of the

smallest footprints on the market today. Available as stand-alone, tank mounted (500 litres), or tank mounted with dryer, the flexible design of these compressors is further enhanced with multiple options available.

The flexible and innovative design also ensures easy, low-cost installation (and maintenance) at the point of use, with automatic belt tensioning delivering long belt life, less maintenance and significant noise reduction.

FM RS



= Energy savings and lower CO₂ emissions into the environment.

The variable speed compressor: One smart solution

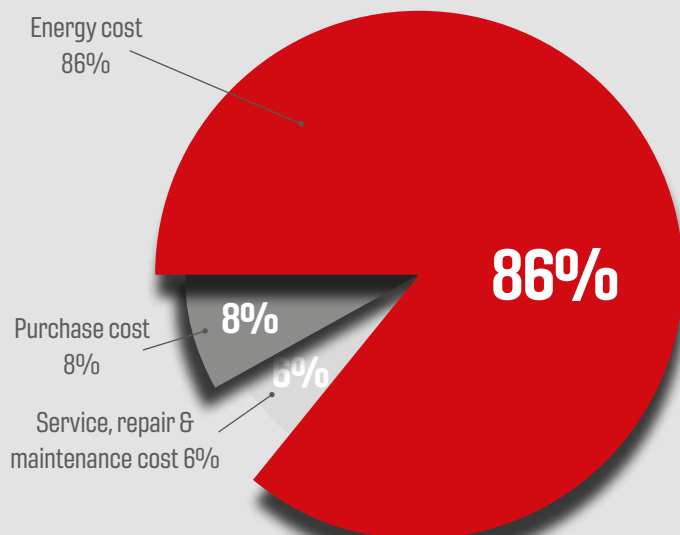
Variable speed compressors can efficiently and reliably handle the varying air demand found in most plant air systems. These compressors speed up and slow down to match air supply to air demand as it fluctuates. The right variable speed compressor in the right application delivers significant energy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



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 to 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.



FM-RS Series features Power Drive Systems that exceed the class **IES2 EN61800-9** requirements and assure high efficiency and high energy savings levels.



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.





ELITE SERIES

THE COMPLETE PACKAGE

At a glance...



Nominal Pressure
10 bar



Motor Power
7.5 & 11kW



Volume Flow
0.97 - 1.39 m³/min



The **Champion ELITE Series** is a true “plug & play” compressed air station providing clean, dry air from a complete package.

The **ELITE Series** includes a rotary screw compressor mounted onto a horizontal tank, refrigerated dryer, filtration pack, automatic condensate drain and an oil/water separator.

For total peace of mind, all essential components including a serviceable oil/water separator have been assembled into a single unit. Not only do you save on space and installation costs, but you don't need to worry about the responsible disposal of oil contaminated condensate either.

Available with either a 7.5kW or 11kW efficient IE3 motor and new C-Pro-2 electronic controller as standard, these rotary screw compressors packages offer a pressure rating of 10 bar on a 270 litre horizontal receiver. Both models are designed with a focus on reliability and efficiency and are built around the high quality air ends designed and manufactured in-house in Finland. Panels can be easily removed for access to all service parts ensuring ease of maintenance.

ELITE – “plug & play” simplicity from Champion.



CHR Series Refrigerated Dryer

- Optimised performance and efficient mode of management
- User-friendly electronic controller
- Separate power supply
- Simplicity in design and unrivalled reliability



Oil/Water Separator

- Environmental friendly disposal of condensate – complying with local environmental laws
- Multi-stage separation
- Exceptional performance and trouble free operation
- Fully serviceable



CHF Filter Package

- CHF Cyclonic Separator – water and liquid oil removal
- CHF Grade M Filter – particulate to 0.1 microns and oil aerosol to 0.03mg/m³
- CHF Grade S Filter – particulate to 0.01 microns and oil aerosol to 0.01mg/m³



Condensate Drains

- Reliable drain system
- Robust and designed for long life industrial applications
- Direct acting valve construction with large orifice
- Stainless steel moving parts offering an extended life guarantee

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 CODE | TYPE | FM7 | | | |
|---------------------------------------|--------|--------------|--------------|--------------|--------------|
| | | CC1184130 | CC1184131 | CC1183626 | CC1184132 |
| Maximum pressure | bar | 7 | 8 | 10 | 13 |
| Capacity at maximum pressure | m³/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 | | | | | |
|--------------------------------|----|---------------|---------------|---------------|---------------|
| Code | | RSCCP0725V4 | RSCCP0726V4 | RSCCP0727V4 | RSCCP0728V4 |
| Weight | kg | 340 | 340 | 340 | 340 |
| Dimensions (LxWxH) | mm | 1600x700x1600 | 1600x700x1600 | 1600x700x1600 | 1600x700x1600 |

| PACKAGE VERSION, FM / CT / 500 | | | | | |
|--------------------------------|----|---------------|---------------|---------------|---------------|
| 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 kW for 270 Litre Receiver | CC1219375 |
| Retro Filter Kit including By-Pass 7.5 kW for 500 Litre Receiver | CC1219376 |
| Factory Fitted Automatic Drain | CONFIG_F0_F2_DRAIN |
| AD2000 (internal separator vessel) | CONFIG_F0-F4_AD2000 |
| Factory Fitted Food Grade Oil | CONFIG_F1_FOODGRADE |

| SERVICE & PARTS | |
|--|-----------|
| Service Kits 2000 hrs FM07-11 Fixed & RS | CC1221491 |
| Service Kit FM07-11 4000 Hrs | CC1180671 |
| Service Kit FM07-11 8000 Hrs | CC1180677 |
| Champlube Screw Comp. Lubr. n.4 x 4 L | CC1180019 |

*Service intervals are on calendar months or operating hours, whichever occurs first. Please see pages 88-98 for more details.

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 CODE | TYPE | FM11 | | | |
|---------------------------------------|---------------------|--------------|--------------|--------------|--------------|
| | | 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 | | | | | |
|--------------------------------|----|---------------|---------------|---------------|---------------|
| Code | | RSCCP1125V4 | RSCCP1126V4 | RSCCP1127V4 | RSCCP1128V4 |
| Weight | kg | 354 | 354 | 354 | 354 |
| Dimensions (LxWxH) | mm | 1600x700x1600 | 1600x700x1600 | 1600x700x1600 | 1600x700x1600 |

| PACKAGE VERSION, FM / CT / 500 | | | | | |
|--------------------------------|----|---------------|---------------|---------------|---------------|
| 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 11 kW for 270 Litre Receiver | CC1220830 |
| Retro Filter Kit including By-Pass 11 kW for 500 Litre Receiver | CC1220831 |
| Factory Fitted Automatic Drain | CONFIG_F0_F2_DRAIN |
| AD2000 (internal separator vessel) | CONFIG_F0-F4_AD2000 |
| Factory Fitted Food Grade Oil | CONFIG_F1_FOODGRADE |

| SERVICE & PARTS | |
|--|-----------|
| Service Kits 2000 hrs FM07-11 Fixed & RS | CC1221491 |
| Service Kit FM07-11 4000 Hrs | CC1180671 |
| Service Kit FM07-11 8000 Hrs | CC1180677 |
| ChampLube Screw Comp. Lubr. n.4 x 4 L | CC1180019 |

* Service intervals are on calendar months or operating hours, whichever occurs first. Please see pages 88-98 for more details.

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 CODE | TYPE | FM7RS | | | |
|--|-----------------------|---------------|---------------|---------------|---------------|
| | | CC1184156 | CC1184157 | CC1184158 | CC1184159 |
| Maximum pressure | bar | 7 | 8 | 10 | 13 |
| Capacity at maximum pressure | m³/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 | | | | | |
| Code | | RSCCP0733V4 | RSCCP0734V4 | RSCCP0735V4 | RSCCP0736V4 |
| Weight | kg | 360 | 360 | 360 | 360 |
| Dimensions (LxWxH) | mm | 1600x700x1600 | 1600x700x1600 | 1600x700x1600 | 1600x700x1600 |
| PACKAGE VERSION, FM / CT / 500 | | | | | |
| 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 kW for 270 Litre Receiver | CC1219375 | | | | |
| Retro Filter Kit including By-Pass 7.5 kW for 500 Litre Receiver | CC1219376 | | | | |
| Factory Fitted Automatic Drain | CONFIG_F0_F2_DRAIN | | | | |
| AD2000 (internal separator vessel) | CONFIG_F0-F4_AD2000 | | | | |
| Factory Fitted Food Grade Oil | CONFIG_F1_FOODGRADE | | | | |
| SERVICE & PARTS | | | | | |
| Service Kits 2000 hrs FM07-11 Fixed & RS | CC1221491 | | | | |
| Service Kit FM07-11 (RS) 4000 Hrs | CC1180672 | | | | |
| Service Kit FM07-11 (RS) 8000 Hrs | CC1180678 | | | | |
| Champlube Screw Comp. Lubr. n.4 x 4 L | CC1180019 | | | | |

* Service intervals are on calendar months or operating hours, whichever occurs first. Please see pages 88-98 for more details.

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 CODE | TYPE | FM11RS | | | |
|---|-----------------------|---------------|---------------|---------------|---------------|
| | | 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 | | | | | |
| Code | | RSCCP1133V4 | RSCCP1134V4 | RSCCP1135V4 | RSCCP1136V4 |
| Weight | kg | 369 | 369 | 369 | 369 |
| Dimensions (LxWxH) | mm | 1600x700x1600 | 1600x700x1600 | 1600x700x1600 | 1600x700x1600 |
| PACKAGE VERSION, FM / CT / 500 | | | | | |
| 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 11 kW for 270 Litre Receiver | CC1220830 | | | | |
| Retro Filter Kit including By-Pass 11 kW for 500 Litre Receiver | CC1220831 | | | | |
| Factory Fitted Automatic Drain | CONFIG_F0_F2_DRAIN | | | | |
| AD2000 (internal separator vessel) | CONFIG_F0-F4_AD2000 | | | | |
| Factory Fitted Food Grade Oil | CONFIG_F1_FOODGRADE | | | | |
| SERVICE & PARTS | | | | | |
| Service Kits 2000 hrs FM07-11 Fixed & RS | CC1221491 | | | | |
| Service Kit FM07-11 (RS) 4000 Hrs | CC1180672 | | | | |
| Service Kit FM07-11 (RS) 8000 Hrs | CC1180678 | | | | |
| ChampLube Screw Comp. Lubr. n.4 x 4 L | CC1180019 | | | | |

* Service intervals are on calendar months or operating hours, whichever occurs first. Please see pages 88-98 for more details.

Elite 7 & 11 Series: Rotary Screw Compressors

Design: Rotary screw compressor mounted onto a horizontal tank, refrigerated dryer, filtration pack, automatic condensate drain and an oil/water separator.

Pressure Range: 10 bar

Electric motor: 7.5 - 11kW - IE3



| ELITE SERIES CODE | TYPE | ELITE 7 RSCCP0741V4 | ELITE 11 RSCCP1141V4 |
|------------------------------|--------|------------------------|-------------------------|
| Receiver | litres | 270 | 270 |
| Drive Motor | kW | 7.5 | 11 |
| Voltage | V | 400/50 | 400/50 |
| Capacity at maximum pressure | m³/min | 0.97 | 1.39 |
| Maximum Pressure | bar | 10 | 10 |
| Noise Level | dB (A) | 70 | 70 |
| Connection | inches | 3/4" | 3/4" |
| Dimensions | mm | 1539 x 1535 x 787 | 1539 x 1535 x 787 |
| Weight | kg | 364 | 378 |

OPTIONAL

| | |
|------------------------------------|-----------------------|
| Alternative Voltage 230V/50-60 Hz | CONFIG_F0_F1_230_VOLT |
| Alternative Voltage 380/3/60 Hz | CONFIG_F0-F4_380_VOLT |
| AD2000 (internal separator vessel) | CONFIG_F0-F4_AD2000 |
| Factory Fitted Food Grade Oil | CONFIG_F1_FOODGRADE |

SERVICE & PARTS

| | |
|--|-----------|
| Service Kits 2000 hrs FM07-11 Fixed & RS | CC1221491 |
| Service Kit FM07-11 4000 Hrs | CC1180671 |
| Service Kit FM07-11 8000 Hrs | CC1180677 |
| Service Kits 2000/12 H/M Elite Range | CC1239925 |

* Service intervals are on calendar months or operating hours, whichever occurs first. Please see pages 88-98 for more details.

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 CODE | TYPE | FM15 | | | |
|---------------------------------------|--------|--------------|--------------|--------------|--------------|
| | | CC1184171 | CC1184172 | CC1184173 | CC1184264 |
| Maximum pressure | bar | 7 | 8 | 10 | 13 |
| Capacity at maximum pressure | m³/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

| Code | | RSCCP1517V4 | RSCCP1518V4 | RSCCP1519V4 | RSCCP1520V4 |
|--------------------|----|---------------|---------------|---------------|---------------|
| Weight | kg | 545 | 545 | 545 | 545 |
| Dimensions (LxWxH) | mm | 2000x850x1850 | 2000x850x1850 | 2000x850x1850 | 2000x850x1850 |

* Service intervals are on calendar months or operating hours, whichever occurs first. Please see pages 88-98 for more details.

FM 15 Series: Screw Compressors Continued

| 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 15-18 kW | CC1221356 |
| Factory Fitted Automatic Drain | CONFIG_F0_F2_DRAIN |
| Factory Fitted Food Grade Oil | CONFIG_F2_FOODGRADE |
| SERVICE & PARTS | |
| Service Kit FM15-22 Fixed & RS 2000 Hrs | CC1221492 |
| Service Kit FM15-22 4000 Hrs | CC1180685 |
| Service Kit FM15-22 8000 Hrs | CC1180689 |
| ChampLube Screw Comp. Lubr. n.4 x 4 L | CC1180019 |

* Service intervals are on calendar months or operating hours, whichever occurs first. Please see pages 88-98 for more details.

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 CODE | TYPE | FM18 | | | |
|---------------------------------------|--------|---------------|---------------|---------------|---------------|
| | | CC1184265 | CC1184266 | CC1184267 | CC1184268 |
| Maximum pressure | bar | 7 | 8 | 10 | 13 |
| Capacity at maximum pressure | m³/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 | | | | | |
| 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 15-18 kW | CC1221356 |
| Factory Fitted Automatic Drain | CONFIG_F0_F2_DRAIN |
| Factory Fitted Food Grade Oil | CONFIG_F2_FOODGRADE |
| SERVICE & PARTS | |
| Service Kit FM15-22 Fixed & RS 2000 Hrs | CC1221492 |
| Service Kit FM15-22 4000 Hrs | CC1180685 |
| Service Kit FM15-22 8000 Hrs | CC1180689 |
| ChampLube Screw Comp. Lubr. n.4 x 4 L | CC1180019 |

* Service intervals are on calendar months or operating hours, whichever occurs first. Please see pages 88-98 for more details.

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 CODE | TYPE | FM22 | | | |
|--|-----------------------|---------------|---------------|---------------|---------------|
| | | CC1184269 | CC1184270 | CC1184169 | CC1184271 |
| Maximum pressure | bar | 7 | 8 | 10 | 13 |
| Capacity at maximum pressure | m³/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 | RSCCP2210 | RSCCP2211 | RSCCP2212 |
| Weight | kg | 527 | 527 | 527 | 527 |
| Dimensions (LxWxH) | mm | 2000x800x1850 | 2000x800x1850 | 2000x800x1850 | 2000x800x1850 |
| PACKAGE VERSION, FM / CT / 500 | | | | | |
| 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 22 kW | CC1219448 | | | | |
| Factory Fitted Automatic Drain | CONFIG_F0_F2_DRAIN | | | | |
| Factory Fitted Food Grade Oil | CONFIG_F2_FOODGRADE | | | | |
| SERVICE & PARTS | | | | | |
| Service Kit FM15-22 Fixed & RS 2000 Hrs | CC1221492 | | | | |
| Service Kit FM15-22 4000 Hrs | CC1180685 | | | | |
| Service Kit FM15-22 8000 Hrs | CC1180689 | | | | |
| Champlube Screw Comp. Lubr. n.4 x 4 L | CC1180019 | | | | |

*Service intervals are on calendar months or operating hours, whichever occurs first. Please see pages 88-98 for more details.

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 CODE | TYPE | FM15RS | | | |
|---|-----------------------|---------------|---------------|---------------|---------------|
| | | 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 | | | | | |
| 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 15-18 kW | CC1221356 | | | | |
| Factory Fitted Automatic Drain | CONFIG_F0_F2_DRAIN | | | | |
| Factory Fitted Food Grade Oil | CONFIG_F2_FOODGRADE | | | | |
| SERVICE & PARTS | | | | | |
| Service Kit FM15-22 Fixed & RS 2000 Hrs | CC1221492 | | | | |
| Service Kit FM15-22 RS 4000 Hrs | CC1180686 | | | | |
| Service Kit FM15-22 RS 8000 Hrs | CC1180690 | | | | |
| ChampLube Screw Comp. Lubr. n.4 x 4 L | CC1180019 | | | | |

* Service intervals are on calendar months or operating hours, whichever occurs first. Please see pages 88-98 for more details.

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 CODE | TYPE | FM18RS | | | |
|---|-----------------------|---------------|---------------|---------------|---------------|
| | | CC1184277 | CC1184278 | CC1184279 | CC1184280 |
| Maximum pressure | bar | 7 | 8 | 10 | 13 |
| Capacity at maximum pressure | m³/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 | | | | | |
| 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 15-18 kW | CC1221356 | | | | |
| Factory Fitted Automatic Drain | CONFIG_F0_F2_DRAIN | | | | |
| Factory Fitted Food Grade Oil | CONFIG_F2_FOODGRADE | | | | |
| SERVICE & PARTS | | | | | |
| Service Kit FM15-22 Fixed & RS 2000 Hrs | CC1221492 | | | | |
| Service Kit FM15-22 RS 4000 Hrs | CC1180686 | | | | |
| Service Kit FM15-22 RS 8000 Hrs | CC1180690 | | | | |
| ChampLube Screw Comp. Lubr. n.4 x 4 L | CC1180019 | | | | |

*Service intervals are on calendar months or operating hours, whichever occurs first. Please see pages 88-98 for more details.

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 CODE | TYPE | FM22RS | | | |
|--|---------------------|--------------|--------------|--------------|--------------|
| | | 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 22 kW | CC1219448 |
| Factory Fitted Automatic Drain | CONFIG_F0_F2_DRAIN |
| Factory Fitted Food Grade Oil | CONFIG_F2_FOODGRADE |

| SERVICE & PARTS | |
|---|-----------|
| Service Kit FM15-22 Fixed & RS 2000 Hrs | CC1221492 |
| Service Kit FM15-22 RS 4000 Hrs | CC1180686 |
| Service Kit FM15-22 RS 8000 Hrs | CC1180690 |
| ChampLube Screw Comp. Lubr. n.4 x 4 L | CC1180019 |

* Service intervals are on calendar months or operating hours, whichever occurs first. Please see pages 88-98 for more details.

FM 22+ 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 22+ SERIES | TYPE | FM22+ | | | FM22+ RS | | |
|--|--------|---------------------|---------------|---------------|---------------|---------------|---------------|
| CODE | | CC1249505 | CC1249506 | CC1249507 | CC1249508 | CC1249509 | CC1249510 |
| Nominal pressure | bar | 7 | 8 | 10 | 7 | 8 | 10 |
| Capacity at working pressure | m³/min | 3.79 | 3.55 | 3.4 | 3.76 | 3.53 | 3.36 |
| Operating Voltage, 50Hz | V | 400 | 400 | 400 | 400 | 400 | 400 |
| Noise Level | db(A) | 74 | 74 | 74 | 71/74 | 71/74 | 71/74 |
| After-cooler | | . | . | . | . | . | . |
| Weight | kg | 367 | 367 | 367 | 395 | 395 | 395 |
| Dimensions (LxWxH) | mm | 787x698x1202 | 787x698x1202 | 787x698x1202 | 787x698x1202 | 787x698x1202 | 787x698x1202 |
| Outlet connection EN 10266 (DIN 2999) | | 1" | 1" | 1" | 1" | 1" | 1" |
| COMPRESSOR MOUNTED ON 500 LT TANK | | | | | | | |
| Code | | RSCCP2225V4 | RSCCP2226V4 | RSCCP2227V4 | RSCCP2228V4 | RSCCP2229V4 | RSCCP2230V4 |
| Weight | kg | 527 | 527 | 527 | 555 | 555 | 555 |
| Dimensions (LxWxH) | mm | 2000x800x1850 | 2000x800x1850 | 2000x800x1850 | 2000x800x1850 | 2000x800x1850 | 2000x800x1850 |
| PACKAGE VERSION, FM / CT / 500 LT TANK | | | | | | | |
| Code | | RSCCP2231V4 | RSCCP2232V4 | RSCCP2233V4 | RSCCP2234V4 | RSCCP2235V4 | RSCCP2236V4 |
| Weight | kg | 577 | 577 | 577 | 605 | 605 | 605 |
| Dimensions (LxWxH) | mm | 2000x800x1850 | 2000x800x1850 | 2000x800x1850 | 2000x800x1850 | 2000x800x1850 | 2000x800x1850 |
| OPTIONAL | | | | | | | |
| Factory Fitted Filter Kit including By-Pass 15-22 kW | | CONFIG_F2_FILT1 | | | | | |
| Retro Fit Filter Pack with By-Pass 22 kW | | CC1219448 | | | | | |
| Factory Fitted Automatic Drain | | CONFIG_F0_F2_DRAIN | | | | | |
| Factory Fitted Food Grade Oil | | CONFIG_F2_FOODGRADE | | | | | |
| SERVICE & PARTS FM 22+ | | | | | | | |
| Service Kit FM15-22 Fixed & RS 2000 Hrs | | CC1221492 | | | | | |
| Service Kit FM15-22 4000 Hrs | | CC1180685 | | | | | |
| Service Kit FM15-22 8000 Hrs | | CC1180689 | | | | | |
| ChampLube Screw Comp. Lubr. n.4 x 4L | | CC1180019 | | | | | |
| SERVICE & PARTS FM 22+ RS | | | | | | | |
| Service Kit FM15-22 Fixed & RS 2000 Hrs | | CC1221492 | | | | | |
| Service Kit FM15-22 RS 4000 Hrs | | CC1180686 | | | | | |
| Service Kit FM15-22 RS 8000 Hrs | | CC1180690 | | | | | |
| ChampLube Screw Comp. Lubr. n.4 x 4L | | CC1180019 | | | | | |

* Service intervals are on calendar months or operating hours, whichever occurs first. Please see pages 88-98 for more details.

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FM FIXED SPEED, FM RS VARIABLE SPEED

At a glance...



Nominal Pressure
5 - 13 bar g



Motor Power
30 - 75kW



Volume Flow
1.19 - 13.5 m³/min



NEW GENERATION HIGHLY EFFICIENT SCREW COMPRESSORS

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. 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.

Semi Integrated Version



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.



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

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 CO₂ 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



= Energy savings and lower CO₂ emissions into the environment.

The variable speed compressor: One smart solution

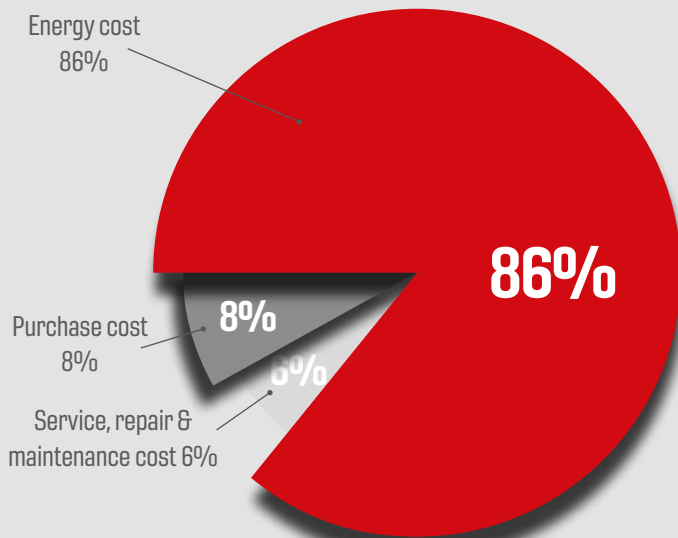
Variable speed compressors can efficiently and reliably handle the varying air demand found in most plant air systems. These compressors speed up and slow down to match air supply to air demand as it fluctuates. The right variable speed compressor in the right application delivers significant energy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



The intelligent C-PRO 2.0 controller

Simplicity

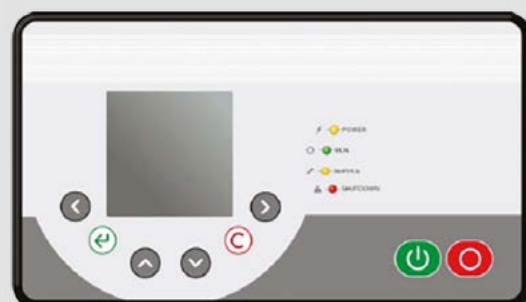
The C-PRO 2.0 controller was designed to make the operators' interface with the variable speed drive transparent. This new generation controller features extra functions for variable speed compressors like drive status display and flexible PID setting according the application. You don't need to be an 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.



FM-RS Series features Power Drive Systems that exceed the class **IES2 EN61800-9** requirements and assure high efficiency and high energy savings levels.



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



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 CODE | TYPE | FM 30 | | | FM 37 | | | FM 45 | | |
|------------------------------------|--------|--|-----------|-----------|-------------------|-----------|-----------|-------------------|-----------|-----------|
| | | 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 | m³/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 | | |
| Compressed 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 | ZS1216381 |
| AD2000 (internal separator vessel) | CONFIG_F0-F4_AD2000 |
| Factory Fitted Food Grade Oil 30-45 kW | CONFIG_F3_FOODGRADE |
| FM/FMRS 30-45 HRC - Factory Fitted ** | CONFIG_HRC_F3 |
| FM/FMRS 30-45 HRC - Retro Fit | CC1232558 |

SERVICE & PARTS

| | |
|---|-----------|
| Annual Service Kit FM30 (4000 Hrs) | CC1198084 |
| Advanced Service Kit FM30 (8000 Hrs) | CC1198090 |
| Annual Service Kit FM37-45 (4000 Hrs) | CC1198085 |
| Advanced Service Kit FM37-45 (8000 Hrs) | CC1198091 |
| ChampLube Screw Lubricant 20 Ltr | CC1180020 |

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

** Please note that this is the internal connection kit which enables to connect the compressor to the External CH-Airwatt Heat Recovery units.

Please see pages 88-98 for more details

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 | m³/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 | | |
| Compressed 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 | ZS1216381 |
| AD2000 (internal separator vessel) | CONFIG_F0-F4_AD2000 |
| Factory Fitted Food Grade Oil 30-45 kW | CONFIG_F3_FOODGRADE |
| FM/FMRs 30-45 HRC - Factory Fitted ** | CONFIG_HRC_F3 |
| FM/FMRs 30-45 HRC - Retro Fit | CC1232558 |

SERVICE & PARTS

| | |
|--|-----------|
| Annual Service Kit FMRs30 (4000 Hrs) | CC1198086 |
| Advanced Service Kit FMRs30 (8000 Hrs) | CC1198092 |
| Major Service Kit FM30 RS | CC1198098 |
| Annual Service Kit FMRs37-45 (4000 Hrs) | CC1198087 |
| Advanced Service Kit FMRs37-45 (8000 Hrs) | CC1198093 |
| ChampLube Screw Lubricant 20 Ltr (x2) | CC1180020 |

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

** Please note that this is the internal connection kit which enables to connect the compressor to the External CH-Airwatt Heat Recovery units.

Please see pages 88-98 for more details

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 CODE | TYPE | FM55 | | | FM75 | | |
|------------------------------------|--------|----------------------------------|-----------|-----------|--------------------|-----------|-----------|
| | | CC1195745 | CC1195747 | CC1195748 | CC1195749 | CC1195750 | CC1195751 |
| Pressure Range | bar | 8 | 10 | 13 | 8 | 10 | 13 |
| Capacity at working pressure | m³/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 | | |
| Compressed 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 | ZS1216381 |
| AD2000 (internal separator vessel) | CONFIG_F0-F4_AD2000 |
| Factory Fitted Food Grade Oil 55-75 kW | CONFIG_F4_FOODGRADE |
| FM/FMRS 55-75 HRC - Factory Fitted ** | CONFIG_HRC_F4 |
| FM/FMRS 55-75 HRC - Retro Fit (needs Thermostatic element for fixed speed 8 and 10 bar) | CC1232559 |
| Thermostatic Element for Retro Fit HRC_F4 | A11175374 |

| SERVICE & PARTS | |
|--|-----------|
| Annual Service Kit FM55-75 (4000 Hrs) | CC1198088 |
| Advanced Service Kit FM55-75 (8000 Hrs) | CC1198094 |

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

** Please note that this is the internal connection kit which enables to connect the compressor to the External CH-Airwatt Heat Recovery units.

Please see pages 88-98 for more details

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 | m³/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 | |
| Compressed 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 | ZS1216381 | | |
| AD2000 (internal separator vessel) | CONFIG_F0-F4_AD2000 | | |
| Factory Fitted Food Grade Oil 55-75 kW | CONFIG_F4_FOODGRADE | | |
| FM/FMRS 55-75 HRC - Factory Fitted ** | CONFIG_HRC_F4 | | |
| FM/FMRS 55-75 HRC - Retro Fit | CC1232559 | | |
| SERVICE & PARTS | | | |
| Annual Service Kit FMRS55-75 (4000 Hrs) | CC1198089 | | |
| Advanced Service Kit FMRS55-75 (8000 Hrs) | CC1198095 | | |
| Major Service Kit FM55-FM75 RS | CC1198102 | | |
| ChampLube Screw Lubricant 20 Ltr (x2) (55-90kW) | CC1180020 | | |

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

** Please note that this is the internal connection kit which enables to connect the compressor to the External CH-Airwatt Heat Recovery units.

Please see pages 88-98 for more details

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. In the bottom-left corner, there is a light gray triangular shape, which appears to be a shadow or a design element. The rest of the page is empty and white.

At a glance...



Nominal Pressure
5 - 13 bar g



Motor Power
90 - 132kW



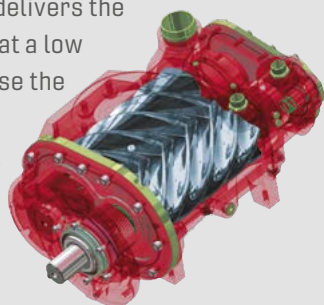
Volume Flow
5.26 - 24.79 m³/min



COMPRESSED AIR TECHNOLOGIES BUILT TO DELIVER VALUE

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 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

effiDRIVE

FM-RS Series features Power Drive Systems that exceed the class **IES2 EN61800-9** requirements and assure high efficiency and high energy savings levels.



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 | m³/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 | | |
| Compressed 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

Remote on-off

Filter Monitoring

Base Load Sequencing

Profibus

Potential free contact kit

SERVICE & PARTS

Service Kit for 4000h

Service Kit for 8000h

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

Heat recovery requires synthetic oil. Not included in the price of heat recovery. In case of order please add the price of heat recovery + synthetic oil. Food Grade oil is synthetic.

Please see pages 88-98 for more details.

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 | m³/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 | | |
| Compressed 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 | ZS1216381 |
| 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 |
| SERVICE & PARTS | |
| Service Kit for 4000h | SKFM90132-1-RS |
| Service Kit for 8000h | MKFM90132 |

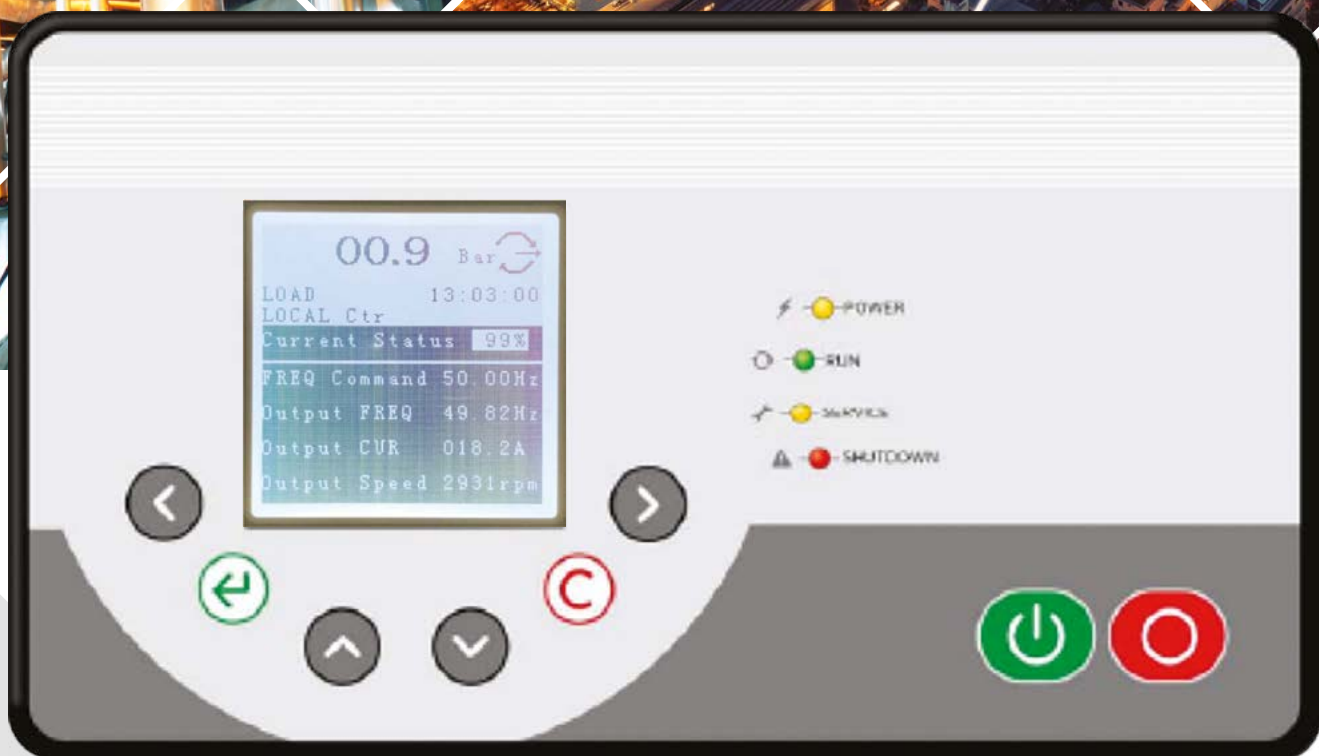
For 8000 Hrs Service both 4000 and 8000 Hrs kits must be purchased together.

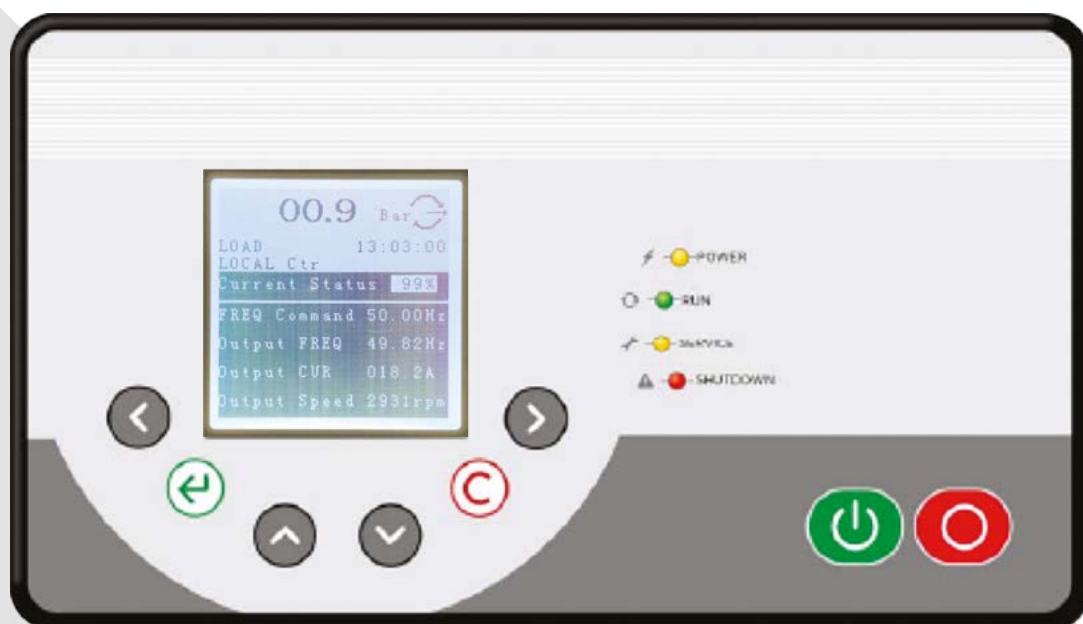
Heat recovery requires synthetic oil. Not included in the price of heat recovery. In case of order please add the price of heat recovery + synthetic oil. Food Grade oil is synthetic.

Please see pages 88-98 for more details.

SEQUENCE MULTIPLE COMPRESSORS

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





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

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. In the bottom-left corner, there is a light gray triangular shape that appears to be a shadow or a piece of tape, pointing towards the center of the page. The overall appearance is that of a clean, unused sheet of notebook paper.



Advanced Compressed Air
Energy Analyser

PROFESSIONAL AIR AUDITS

Get the best out of your
compressed air system and
reduce your environmental impact

With increasing energy costs a fact of life for business, and carbon and emissions levies and taxes a looming reality, the performance and efficiency of your compressed air systems have never been more important. Potential energy savings not only reduce the environmental impact of your business, they also return money to your bottom line.

Champion Air Audit - ultimately saving money and energy resources

Champion Audits provide complete air auditing services for compressed air systems:

- To achieve the lowest operating cost for the compressed air system and a fast return on any investment
- To improve manufacturing productivity

Accurate analysis AND solutions...

Champion Air Audits are performed to the highest standard!

- Delivering detailed reports and analysis of your compressed air system
- Identifying improvements in your compressed air system through system performance optimisation, leak reduction and practical air management processes



- ▼ Lower capital spending
- ▼ Lower your carbon footprint
- ▼ Save money and energy

Where are the savings made?

SUPPLY SIDE

10 to 20 % of the savings can be commonly found on the supply side of a compressed air system by identifying areas of identifying areas in:

| |
|-----------------------|
| Equipment |
| Technology |
| Controls |
| Monitoring |
| Equipment maintenance |
| Installation issues |

DEMAND SIDE

A further 20 to 30% of savings can be commonly found on the demand side of a compressed air system by identifying areas of improvement in:

| |
|----------------------|
| Compressed air leaks |
| Artificial demand |
| System dynamics |
| System design |
| Monitoring |



Delivering tangible efficiencies through innovative energy consumption monitoring

Champion's latest cloud-based software data logging solution

- Combining unique application expertise with proven hardware and software platforms to deliver the complete, value-adding analytics service

Champion airINSITE has the facility to measure:

- Amps • Volts • kW • Pressure • Pressure Dewpoint
- Temperature • Any 4-20 ma signal • Actual flow

Our airINSITE data loggers incorporate high quality sensors to collect and store information relating to a system's pressure, temperature, pressure dew point and flow rate. Our current and voltage loggers enable true power to be accurately measured, with power costs calculated using these figures. The latest software technology allows us to analyse, chart, graph and prepare professional audit reports. Simulation wizards allow us to show you cost savings by simulating the use of different compressor configurations, of both fixed and variable, against your existing compressor volume.

Making **cost savings** has never been so easy

Champion airINSITE: Unique Compressed Air Energy Auditing system

Design: Compressed air energy analyser
Champions latest cloud-based software data logging solution

| AIRINSITE COMPLETE CASE KITS | | |
|------------------------------|---|--------------|
| MODEL | DESCRIPTION | MATERIAL NO. |
| airINSITE | Base station & PSU | ZS1088920 |
| | Logger, 4–20mA – complete case kit | ZS1088921 |
| | Logger, moisture (dew point) – complete case kit | ZS1088922 |
| | Logger, flow – complete case kit | ZS1088923 |
| | Logger, temperature (PT1000) – complete case kit | ZS1088924 |
| | Logger, pressure (0 –16BAR) – complete case kit | ZS1088925 |
| | Logger, current & volts – complete case kit | ZS1088926 |
| | Accessory, logger carry case | ZS1106999 |
| | Logger, 0–60 bar – complete case kit | ZS1133091 |
| | Small logger, current & volts – complete case kit | ZS1160311 |

| MODEL | LEAK SIZE [MM] | LEAKAGES | | |
|-----------|-------------------|-------------------------------|---------------------|---------------------------|
| | | LEAK VOLUME @7.5 BAR L/MIN | ENERGY LOSS [kW] | ENERGY LOSS [EUR/YEAR] |
| Leakage 1 | 1 | 75 | 0.6 | 315.00 |
| Leakage 2 | 1.5 | 150 | 1.3 | 683.00 |
| Leakage 3 | 2 | 260 | 2 | 1,051.00 |
| Leakage 4 | 3 | 600 | 4.4 | 2,312.00 |
| Leakage 5 | 4 | 1100 | 8.8 | 4,625.00 |
| Leakage 6 | 5 | 1700 | 13.2 | 6,938.00 |

ROTARY VANE AIR COMPRESSORS 1.1 - 22KW

- Innovative rotary vane technology
- Industry leading reliability & versatility
- Fixed and variable speed models
- Small and compact base or receiver mounted and fully enclosed models
- Pressure range 6 - 10 bar
- Electric motor 1.1kW to 22kW
- Hydrovane Pro Electronic Controller
- Extended warranties available





At a glance...



Nominal Pressure
6 - 10 bar g



Motor Power
1.1 - 22kW



Volume Flow
0.12 - 3.60 m³/min



ROBUST AND RELIABLE – DESIGNED TO KEEP RUNNING AND RUNNING...

Built to Last - Expert Rotary Vane Technology

The Hydrovane range of air compressors utilises the innovative rotary vane principle to produce compressed air. This compressed air production method was first marketed in 1952 and is widely considered one of the most effective, simple technologies.

Reliability, reliability, reliability...!

Hydrovane compressors can last over 100,000 hours – equivalent to 8 hours of operation every working day for 40 years! By only utilising one significant moving part to compress air, Hydrovane compressors have fewer internal elements that can break down, drastically reducing downtime and maintenance costs. In addition, due to the slow rotating speed of the vane technology, stress on the internal equipment is reduced, dramatically increasing the life of the air end. These innovative features allow Hydrovane systems to act consistently and reliably at their best.

Low Noise

The low, non-disruptive noise levels of these compressors allow them to be sited close to the point of use. This enables them to operate seamlessly within your compressed air system without the need for complicated, costly pipework or compressor storage.

High Air Quality

Hydrovane compressors ensure good quality air due to their low operating temperatures. This, once again, is thanks to their slow rotational speed, which allows for good heat transfer. Low operating temperatures, coupled with Hydrovane's innovative, integral aftercooler, ensure the removal of water vapour. This reduces the risk of contamination and equipment damage whilst maximising air quality.

A Range of Vane Compressors – from stand-alone...

Open Style – Fixed Speed

These open fixed-speed solutions are small, compact solutions ideal for light industrial and workshop applications – for where compressed air outlets need be situated close to the point of use.

1.1 - 7kW Models

Base or Receiver mounted

- 50 Hz
- 1.1 - 7 kW
- 10 bar
- 0.12 - 1.04 m³/min
- 4 - 37 cfm



Enclosed – Fixed and Regulated Speed (RS)

Taking components that have been developed specifically with energy-saving in mind, the designers and engineers have developed a rotary vane compressor for the twenty first century, with the highest levels of efficiency in mind. For the ultimate in energy saving technology, we offer our 7 to 22 kW machines with a Regulated Speed (RS) option. RS machines optimise energy efficiency when operated below full load capacity. This can deliver benefits of up to 50% energy savings compared to the equivalent standard fixed speed model.

4 - 22kW Models Fully Enclosed

- 50 Hz
- 4 - 22 kW
- 7 - 10 bar
- 0.5 - 3.5 m³/min
- 20 - 125 cfm



...to the Complete Compressed Air Solutions

Fully integrated packages promote a more cost-effective system. and include Hypac systems – fully equipped with integrated membrane or refrigerant dryers and receiver and filtration options. These innovative solutions can be delivered to you as a factory-built package or supplied as a kit for local assembly.

Hypac 4 - 22kW ERD - Fixed & Regulated Speed (RS) & 5 Series SE ATK 1.1 - 4kW Integrated Rotary Vane with Receiver, Dryer & Filters

You can save even further with our most comprehensive offering for optimum convenience. This solution is fully packaged with integrated receivers, refrigerant dryers and filtration, offering the best solution for your compressed air needs.

- Complete Package
- Integrated Refrigerant Dryer or Membrane Dryer
- Integrated Receiver
- Filter Pack
- 50 Hz
- 1.1 - 22 kW
- 6 - 10 bar
- 0.14 - 3.5 m³/min
- 4 - 125 cfm





Eliminating all Risks

Our 10 year warranty ensures up to 44,000 operating hours, up to 6 years on the compressor, and 10 years on the specially developed airend. With the warranty extension being free of charge, you can rest assured and enjoy total peace of mind. We've got you covered! 1) Protect your investment and minimise downtimes with the Industry 4.0 Solution iConn. HV11-22 models are equipped with our iConn Industry 4.0 solution as a standard.

1) 10 years/44,000 hours on the air end.
Whichever is the soonest. Subject to Terms & Conditions.

Save up to 21% on energy costs with regulated speed (RS) technology

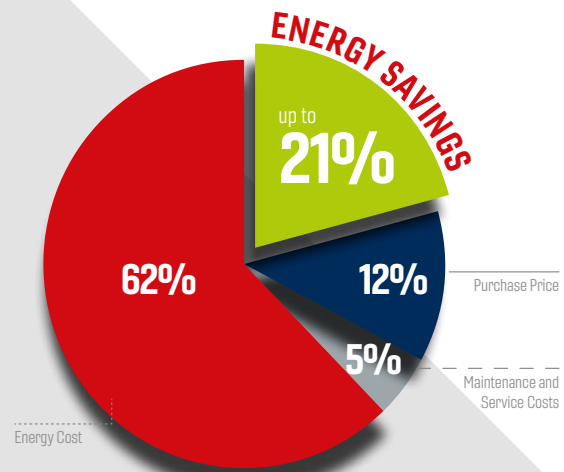
Regulated speed models can reliably and efficiently cope with varying air demand. By only using the energy it needs to create the compressed air it needs, a regulated speed Hydrovane compressor enables a reduced cost of ownership due to lowered energy costs.

Pro Electronic Controller at the heart of Performance

Fixed and regulated speed compressors in the 4 to 22 kW model range, are fitted with the Hydrovane Pro Electronic Controller as standard. With simple-to-use, efficient electronics, the intelligent control system helps protect your investment with unmatched operational monitoring and puts you in total control.



Hydrovane Regulated Speed Compressor



HV01 - HV04 - Open Frame

| CODE | MODEL | MOTOR POWER kW | VOLTAGE/ PHASE 50Hz | STARTER TYPE | CONFIGURATION | RECEIVER CAPACITY LITRES | COMPRESSED AIR OUTPUT M³/MIN | CFM | MAX. WORKING PRESSURE BAR [G] | PSI [G] | NOISE LEVEL DB[A] | DIMENSIONS [MM] | | | WEIGHT KG | AIR OUTLET SIZE | | |
|--------------------|-------|-------------------|---------------------------|-----------------|------------------|--------------------------------|------------------------------------|------|-------------------------------------|---------|-------------------------|--------------------|-----|-----|--------------|-----------------------|------|-----|
| 501PUBS10-2415D000 | HV01 | 1.1 | 240V 1Ph | DOL | Base Mounted | N/A | 0.12 | 4.2 | 10 | 145 | 62 | 673 | 313 | 366 | 40 | 3/8" F-BSP | | |
| 501PUBS10-4035D000 | | | 400V 3Ph | | | | | | | | | | | | | | | |
| 502PUBS10-2415D000 | HV02 | 2.2 | 240V 1Ph | | | | 0.23 | 8.1 | | | 69 | | | | | | | |
| 502PUBS10-4035D000 | | | 400V 3Ph | | | | | | | | | | | | | | | |
| 501PURS10-2415D600 | HV01 | 1.1 | 240V 1Ph | | Receiver Mounted | 100 | 0.12 | 4.2 | | | 62 | 966 | 386 | 784 | 75 | | | |
| 501PURS10-4035D600 | | | 400V 3Ph | | | | | | | | | | | | | | | |
| 502PURS10-2415D600 | HV02 | 2.2 | 240V 1Ph | | | | 0.23 | 8.1 | | | 69 | | | | | | | |
| 502PURS10-4035D600 | | | 400V 3Ph | | | | | | | | | | | | | | | |
| 504PURS10-4035D300 | HV04 | 4 | 400v 3Ph | | | | 200 | 0.57 | | | 20.1 | | | | | 73 | 1390 | 462 |

HR05PR - HR07PR - Open Frame

| CODE | MODEL | MOTOR POWER | VOLTAGE/ PHASE | STARTER TYPE | CONFIGURATION | RECEIVER CAPACITY | COMPRESSED AIR OUTPUT | | MAX. WORKING PRESSURE | | NOISE LEVEL | DIMENSIONS (MM) | | | WEIGHT | AIR OUTLET SIZE |
|-------------------|-----------|-------------|-------------------|--------------|------------------|-------------------|-----------------------|------|-----------------------|---------|-------------|-----------------|-----|------|--------|-----------------|
| | | kW | 50Hz | | | LITRES | M³/MIN | CFM | BAR (G) | PSI (G) | DB(A) | L | W | H | KG | |
| HR05PR07-4035S100 | HR05PR-07 | 5.5 | 400v 3Ph | SD | Receiver Mounted | 200 | 0.92 | 32.5 | 7 | 101 | 73 | 1332 | 760 | 1068 | 215 | 1/2" F-BSP |
| HR05PR10-4035S100 | HR05PR-10 | | | | | | 0.77 | 27 | 10 | 145 | | | | | | |
| HR07PR07-4035S100 | HR07PR-07 | 7.5 | | | | | 1.27 | 44.7 | 7 | 101 | | | | | | |
| HR07PR10-4035S100 | HR07PR-10 | | | | | | 1.05 | 37 | 10 | 145 | | | | | | |

HR04E - HR07E - Enclosed Fixed Speed

| CODE | MODEL | MOTOR POWER | VOLTAGE/ PHASE | STARTER TYPE | COMPRESSED AIR OUTPUT | | MAX. WORKING PRESSURE | | NOISE LEVEL | DIMENSIONS [MM] | | | WEIGHT | AIR OUTLET SIZE |
|------------------|----------|-------------|-------------------|--------------|-----------------------|-------|-----------------------|---------|-------------|-----------------|-----|------|--------|-----------------|
| | | KW | 50Hz | | M³/ MIN | CFM | BAR [G] | PSI [G] | | DB[A] | L | W | | |
| HR04E07-4035S200 | HR04E-07 | 4 | 400v 3Ph | SD | 0.69 | 24.2 | 7 | 101 | 67 | 680 | 630 | 1055 | 220 | G3/4' |
| HR04E10-4035S200 | HR04E-10 | | | | 0.57 | 20.13 | 10 | 145 | | | | | | |
| HR05E07-4035S200 | HR05E-07 | 5.5 | | | 0.92 | 32.52 | 7 | 101 | | | | | | |
| HR05E10-4035S200 | HR05E-10 | | | | 0.77 | 27.02 | 10 | 145 | | | | | | |
| HR07E07-4035S200 | HR07E-07 | 7.5 | | | 1.27 | 44.98 | 7 | 101 | 68 | | | | | |
| HR07E10-4035S200 | HR07E-10 | | | | 1.05 | 37 | 10 | 145 | | | | | | |

HR07E - Enclosed Regulated Speed

| CODE | MODEL | MOTOR POWER | VOLTAGE/ PHASE | STARTER TYPE | CONFIGURATION | COMPRESSED AIR OUTPUT | | MAX. WORKING PRESSURE | | NOISE LEVEL | DIMENSIONS [MM] | | | WEIGHT | AIR OUTLET SIZE |
|------------------|----------|-------------|-------------------|--------------|---------------|-----------------------|------|-----------------------|---------|-------------|-----------------|-----|------|--------|-----------------|
| | | kW | 50Hz | | | M³/ MIN | CFM | BAR [G] | PSI [G] | DB[A] | L | W | H | KG | |
| HR07E10-4035V200 | HR07E-RS | 7.5 | 400v 3Ph | VSD | Base | 0-1.27 | 0-45 | 6-10 | 87-145 | 68 | 680 | 630 | 1055 | 230 | G3/4' |

HV11 - HV22 - Enclosed Fixed Speed

| CODE | MODEL | MOTOR POWER | VOLTAGE/ PHASE | STARTER TYPE | COMPRESSED AIR OUTPUT | | MAX. WORKING PRESSURE | | NOISE LEVEL | DIMENSIONS [MM] | | | WEIGHT | AIR OUTLET SIZE | | | |
|-------------------|---------|-------------|----------------|--------------|-----------------------|-------|-----------------------|---------|-------------|-----------------|-----|------|--------|-----------------|------|----|------|
| | | kW | 50Hz | | M³/ MIN | CFM | BAR [G] | PSI [G] | | DB[A] | L | W | | | H | KG | |
| V11ACE08-4035S800 | HV11-08 | 11 | 400V 3Ph | SD | 1.63 | 57.6 | 8 | 116 | 69 | 680 | 630 | 1055 | 69 | Rp3/4' | | | |
| V11ACE10-4035S800 | HV11-10 | | | | 1.41 | 49.8 | 10 | 145 | | | | | | | | | |
| V15ACE08-4035S800 | HV15-08 | 15 | | | 2.21 | 78.1 | 8 | 116 | 70 | | | | 70 | | Rp1' | | |
| V15ACE10-4035S800 | HV15-10 | | | | 2.01 | 71 | 10 | 145 | | | | | | | | | |
| V18ACE08-4035S600 | HV18-08 | 18 | | | 2.88 | 101.7 | 8 | 116 | | | | | | 71 | | 71 | Rp1' |
| V18ACE10-4035S600 | HV18-10 | | | | 2.55 | 90.1 | 10 | 145 | | | | | | | | | |
| V22ACE08-4035S600 | HV22-08 | 22 | | | 3.6 | 127.1 | 8 | 116 | 71 | | | | 71 | | Rp1' | | |
| V22ACE10-4035S600 | HV22-10 | | | | 2.96 | 104.5 | 10 | 145 | | | | | | | | | |

HV11 - HV22 - Enclosed Regulated Speed

| CODE | MODEL | MOTOR POWER kW | VOLTAGE/ PHASE 50Hz | STARTER TYPE | CONFIGURATION | COMPRESSED AIR OUTPUT | | MAX. WORKING PRESSURE | | NOISE LEVEL DB[A] | DIMENSIONS [MM] | | | WEIGHT KG | AIR OUTLET SIZE |
|-------------------|--------|-------------------|---------------------------|-----------------|---------------|--------------------------|-------|--------------------------|---------|-------------------------|--------------------|-----|------|--------------|-----------------------|
| | | | | | | M³/ MIN | CFM | BAR [G] | PSI [G] | | L | W | H | | |
| V11ACE08-4035V900 | HV11RS | 11 | 400V 3Ph | VSD | Base | 0-1.74 | 0-62 | 6-10 | 87-145 | 69 | 680 | 630 | 1055 | 421 | Rp3/4' |
| V15ACE08-4035V900 | HV15RS | 15 | | | | 0-2.29 | 0-81 | 6-10 | 87-145 | 70 | | | | 434 | |
| V18ACE08-4035V700 | HV18RS | 18 | | | | 0-2.96 | 0-105 | 6-10 | 87-145 | 71 | | | | 542 | Rp1' |
| V22ACE08-4035V600 | HV22RS | 22 | | | | 0-3.53 | 0-125 | 6-10 | 87-145 | 71 | | | | 556 | |

Hypac Integrated Rotary Vane - Fixed Speed

| CODE | MODEL | MOTOR POWER kW | VOLTAGE/ PHASE 50Hz | STARTER TYPE | CONFIGURATION | RECEIVER CAPACITY LITRES | COMPRESSED AIR OUTPUT | | MAX. WORKING PRESSURE | | NOISE LEVEL | DIMENSIONS [MM] | | | WEIGHT | AIR OUTLET SIZE | |
|--------------------|-------------|----------------------|---------------------------|-----------------|---|--------------------------------|--------------------------|------|--------------------------|---------|----------------|--------------------|------|------|--------|-----------------------|----|
| | | | | | | | M³/ MIN | CFM | BAR [G] | PSI [G] | DB[A] | L | W | H | KG | | |
| HR04ERD07-4035S400 | HR04ERD-07 | 4 | 400V 3ph | SD | Integrated Refrigerant Dryer & Receiver | 260 | 0.68 | 24 | 7 | 101 | 67 | 1264 | 756 | 1675 | 400 | 3/4' BSP | |
| HR04ERD10-4035S400 | HR04ERD-10 | | | | | | 0.57 | 20 | 10 | 145 | | | | | | | |
| HR05ERD07-4035S400 | HR05ERD-07 | 5.5 | | | | | 0.92 | 33 | 7 | 101 | | | | | | | |
| HR05ERD10-4035S400 | HR05ERD-10 | | | | | | 0.77 | 27 | 10 | 145 | | | | | | | |
| HR07ERD07-4035S400 | HR07ERD-07 | 7.5 | | | | | 272 | 1.27 | 45 | 7 | 101 | | | | | | 68 |
| HR07ERD10-4035S400 | HR07ERD-10 | | | | | | | 1.05 | 37 | 10 | 145 | | | | | | |
| V11AERD08-4035SB00 | HV11AERD-08 | 11 | | | | 1.63 | | 58 | 8 | 116 | 69 | 1357 | 1187 | 1616 | 605 | | |
| V11AERD10-4035SB00 | HV11AERD-10 | | | | | 1.41 | | 50 | 10 | 145 | | | | | | | |
| V15AERD08-4035SB00 | HV15AERD-08 | 15 | | | | 2.21 | | 78 | 8 | 116 | 70 | | | | 710 | | |
| V15AERD10-4035SB00 | HV15AERD-10 | | | | | 2.01 | | 71 | 10 | 145 | | | | | | | |
| V18AERD08-4035S900 | HV18AERD-08 | 18 | | | | 2.88 | | 102 | 8 | 116 | | | | | | | |
| V18AERD10-4035S900 | HV18AERD-10 | | | | | 2.55 | | 90 | 10 | 145 | | | | | | | |
| V22AERD08-4035S900 | HV22AERD-08 | 22 | | | | 71 | | 3.6 | 127 | 8 | 116 | 740 | | | | | |
| V22AERD10-4035S900 | HV22AERD-10 | | | | | | | 2.96 | 105 | 10 | 145 | | | | | | |

Hypac Integrated Rotary Vane - Fixed Speed

| CODE | MODEL | MOTOR POWER kW | VOLTAGE/ PHASE 50Hz | STARTER TYPE | CONFIGURATION | RECEIVER CAPACITY LITRES | COMPRESSED AIR OUTPUT | | MAX. WORKING PRESSURE | | NOISE LEVEL DB[A] | DIMENSIONS [MM] | | | WEIGHT KG | AIR OUTLET SIZE |
|--------------------|-------------|-------------------|---------------------------|-----------------|---|--------------------------------|--------------------------|-------|--------------------------|---------|-------------------------|--------------------|------|------|--------------|-----------------------|
| | | | | | | | M³/ MIN | CFM | BAR [G] | PSI [G] | | L | W | H | | |
| HR07ERD10-4035V400 | HR07ERD-RS | 7.5 | 400V 3ph | VSD | Integrated Refrigerant Dryer & Receiver | 260 | 0-1.27 | 0-45 | 6-10 | 87-145 | 68 | 1264 | 756 | 1675 | 410 | 3/4' BSP |
| V11AERD08-4035VC00 | HV11AERD-RS | 11 | | | | 272 | 0-1.74 | 0-62 | 6-10 | 87-145 | 69 | 1357 | 1187 | 1616 | 620 | G3/4' |
| V15AERD08-4035VC00 | HV15AERD-RS | 15 | | | | | 0-2.29 | 0-81 | 6-10 | 87-145 | 70 | | | 1617 | 634 | |
| V18AERD08-4035VA00 | HV18AERD-RS | 18 | | | | | 0-2.96 | 0-105 | 6-10 | 87-145 | 71 | | | 1618 | 722 | |
| V22AERD08-4035V900 | HV22AERD-RS | 22 | | | | | 0-3.53 | 0-125 | 6-10 | 87-145 | 71 | | | 1619 | 760 | |

After Coolers and Dryers for Vanes

| CODE | MODEL |
|---------------|-------------------------------------|
| ATK-501BD-500 | Aftercooler & dryer kit for 501PURS |
| ATK-502BD-500 | Aftercooler & dryer kit for 502PURS |
| ATK-504BD-500 | Aftercooler & dryer kit for 504PURS |
| ATK-5-500 | Aftercooler kit for 501PURS/502PURS |
| ATK-504-500 | Aftercooler kit for 504PURS |

Notes

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. In the bottom-left corner, there is a gray triangular shape that appears to be a shadow or a piece of tape, pointing towards the center of the page. The overall appearance is that of a clean, unused sheet of notebook paper.



ONE STEP AHEAD PORTABLE SCREW COMPRESSORS

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





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.

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, bundled 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...



Nominal 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 oil mist separator that guarantees excellent air quality.

Cooling

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 | | kW/HP | MODEL | | | | | 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 Annex 8. ³⁾ Pressure of 9-12 bar available upon request
Option: Models P8-P9 - static version available - 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
15.5 kW



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



| 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 |
| SCU02000-5GT3 | 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

[illegible]

COMPRESSED AIR TREATMENT

- Basic Principals
- Air Filters
- Refrigeration Dryers
- Adsorption Dryers
- Air Receiver Tanks
- Condensate Drains
- Oil / Water Separators





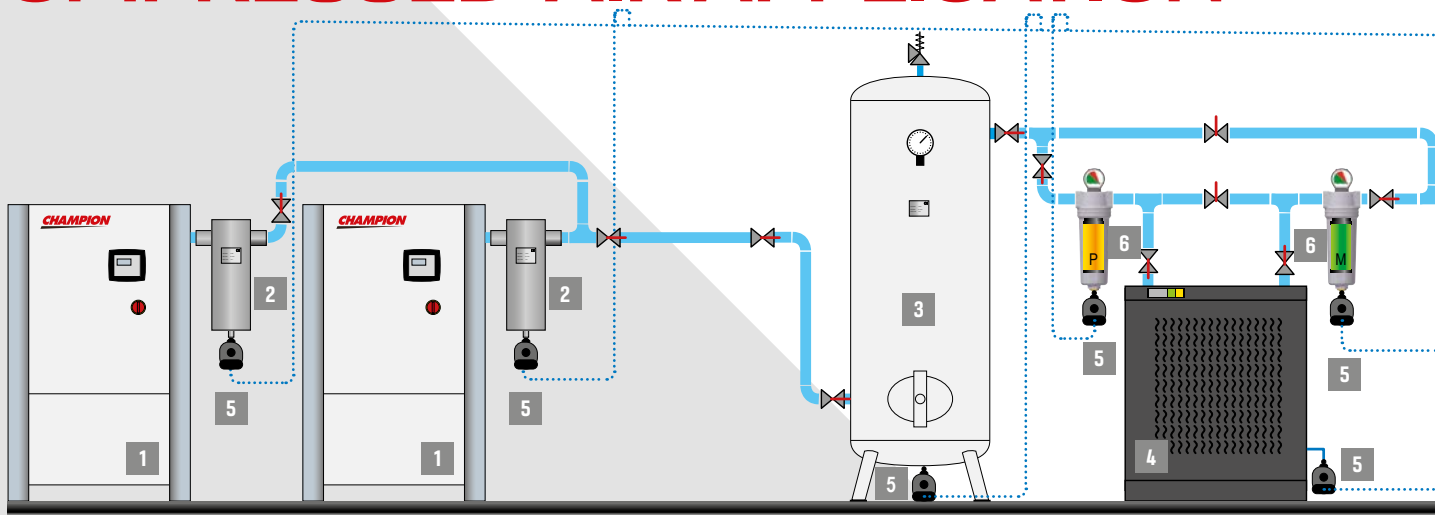
Compressed air quality classes according to ISO 8573-1:2010

| CLASS | SOLID PARTICLES | | | HUMIDITY AND LIQUID WATER | | OIL | |
|-------|--|-----------------------|-----------------------|--|------|--|---------------|
| | MAXIMUM NUMBER OF PARTICLES PER CUBIC METER AS A FUNCTION OF PARTICLE SIZE, D ²¹ | | | PRESSURE DEW POINT | | CONCENTRATION OF TOTAL OIL ²¹ (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/m ³] | [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 ²¹ - C _p [mg/m ³] | | | LIQUID WATER CONTENT ²¹ - C _w [g/m ³] | | | |
| 6 | 0 < C _p ≤ 5 | | | | | Not specified | Not specified |
| 7 | 5 < C _p ≤ 10 | | | C _w ≤ 0.5 | | Not specified | Not specified |
| 8 | Not specified | | | 0.5 ≤ C _w ≤ 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.

²¹⁾ 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.

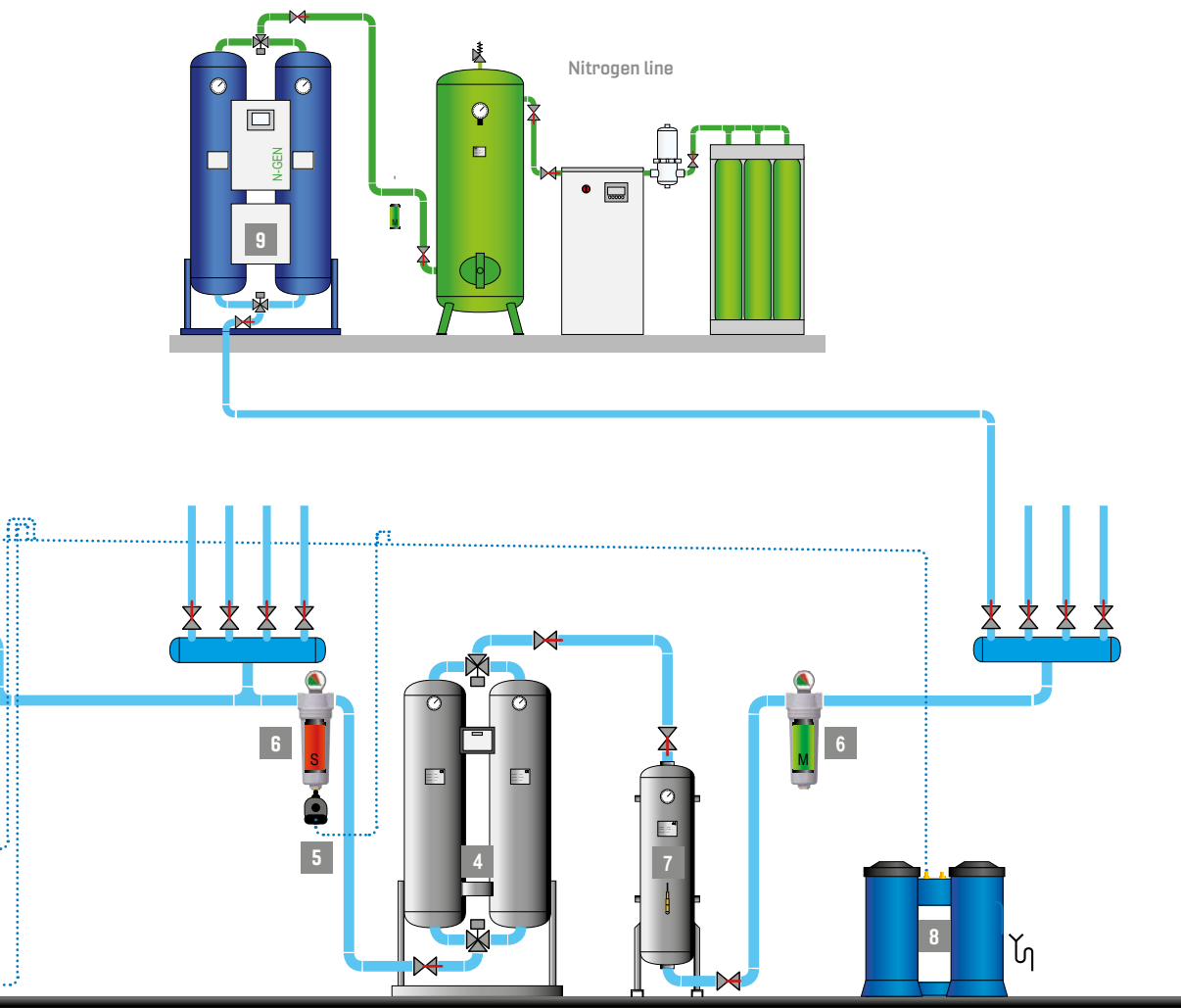
3. Pressure vessel: Pressure vessel plays very important role in compressed air system:

- 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 effective 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 maximise tool life and effectiveness
- Where possible and practical, group end use air equipment that has similar air requirements of pressure and air quality

At a glance...



Nominal Pressure
17 bar



Connections
3/8" - 3"



Volume Flow
18 - 18247 cfm

ALUMINUM COMPRESSED AIR FILTERS CHF SERIES

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.

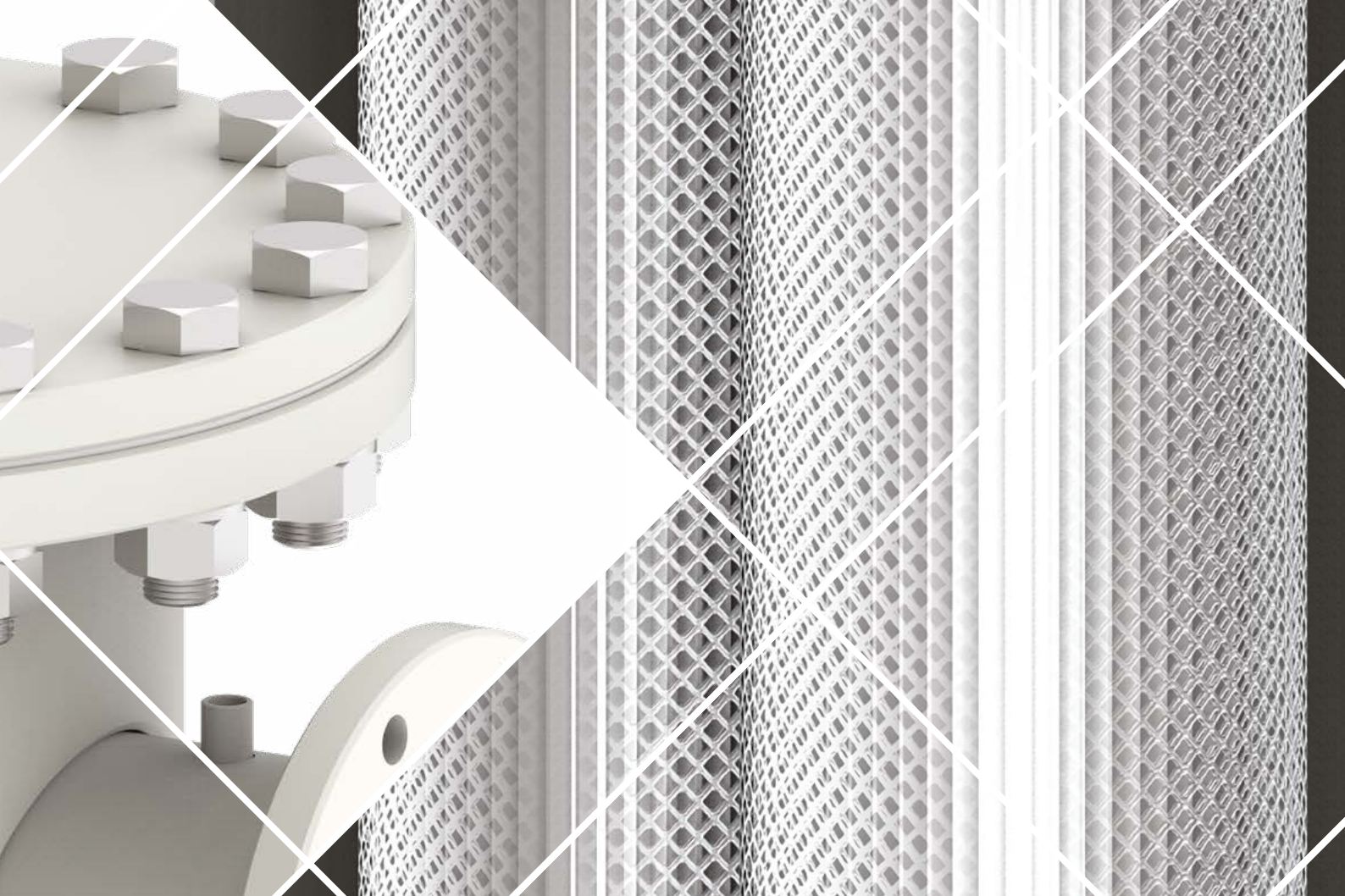
The standard for high-quality air

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.

Applications

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





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*



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 contamination will ultimately lead to:

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

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 [MM] | | WEIGHT kg |
|-----------------|--------------------------------|--------------------|-----------|------|---------------|-----|-----------------|-----|--------------|
| | | | m³/min | cfm | bar | psi | W | H | |
| 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 |

Compressed Air Filters CHF Series - Grade M

| FILTER MODEL | CHAMPION PART NUMBER CCN | CONNECTION SIZE | FLOW RATE | | MAX. PRESSURE | | DIMENSIONS [MM] | | WEIGHT kg |
|--------------|--------------------------------|--------------------|-----------|------|---------------|-----|-----------------|-----|--------------|
| | | | m³/min | cfm | bar | psi | W | H | |
| CHF005LM | 47698906001 | 3/8" | 0.5 | 18 | 17 | 250 | 76 | 225 | 0.55 |
| CHF007LM | 47698907001 | 1/2" | 0.7 | 24 | 17 | 250 | 76 | 225 | 0.55 |
| CHF013LM | 47698908001 | 3/4" | 1.3 | 44 | 17 | 250 | 98 | 280 | 1.07 |
| CHF018LM | 47698909001 | 3/4" | 1.8 | 65 | 17 | 250 | 98 | 280 | 1.09 |
| CHF025LM | 47698910001 | 1" | 2.5 | 88 | 17 | 250 | 129 | 319 | 2.06 |
| CHF032LM | 47698911001 | 1" | 3.2 | 112 | 17 | 250 | 129 | 319 | 2.06 |
| CHF038LM | 47698912001 | 1" | 3.8 | 135 | 17 | 250 | 129 | 319 | 2.06 |
| CHF067LM | 47698913001 | 1 1/2" | 6.7 | 235 | 17 | 250 | 129 | 409 | 2.36 |
| CHF082LM | 47698914001 | 1 1/2" | 8.2 | 288 | 17 | 250 | 129 | 409 | 2.36 |
| CHF100LM | 47698915001 | 2" | 10 | 353 | 17 | 250 | 170 | 518 | 5.2 |
| CHF0133LM | 47698916001 | 2" | 13.3 | 471 | 17 | 250 | 170 | 518 | 5.24 |
| CHF0167LM | 47698917001 | 2" | 16.7 | 589 | 17 | 250 | 170 | 518 | 5.26 |
| CHF0200LM | 47698918001 | 3" | 20 | 706 | 17 | 250 | 205 | 600 | 9.31 |
| CHF0260LM | 47698919001 | 3" | 26 | 918 | 17 | 250 | 205 | 700 | 10.69 |
| CHF0305LM | 47698920001 | 3" | 30.5 | 1077 | 17 | 250 | 205 | 700 | 10.69 |
| CHF0383LM | 47698921001 | 3" | 38.3 | 1354 | 17 | 250 | 205 | 930 | 13.7 |
| CHF0450LM | 47698922001 | 3" | 45 | 1589 | 17 | 250 | 205 | 930 | 13.7 |



Compressed Air Filters CHF Series - Grade S

| FILTER MODEL | CHAMPION PART NUMBER CCN | CONNECTION SIZE | FLOW RATE | | MAX. PRESSURE | | DIMENSIONS [MM] | | WEIGHT |
|--------------|--------------------------------|--------------------|---------------------|------|---------------|-----|-----------------|-----|--------|
| | | | m ³ /min | cfm | bar | psi | W | H | |
| CHF005LS | 47698923001 | 3/8" | 0.5 | 18 | 17 | 250 | 76 | 225 | 0.55 |
| CHF007LS | 47698924001 | 1/2" | 0.7 | 24 | 17 | 250 | 76 | 225 | 0.55 |
| CHF013LS | 47698925001 | 3/4" | 1.3 | 44 | 17 | 250 | 98 | 280 | 1.07 |
| CHF018LS | 47698926001 | 3/4" | 1.8 | 65 | 17 | 250 | 98 | 280 | 1.09 |
| CHF025LS | 47698927001 | 1" | 2.5 | 88 | 17 | 250 | 129 | 319 | 2.06 |
| CHF032LS | 47698928001 | 1" | 3.2 | 112 | 17 | 250 | 129 | 319 | 2.06 |
| CHF038LS | 47698929001 | 1" | 3.8 | 135 | 17 | 250 | 129 | 319 | 2.06 |
| CHF067LS | 47698930001 | 1 1/2" | 6.7 | 235 | 17 | 250 | 129 | 409 | 2.36 |
| CHF082LS | 47698931001 | 1 1/2" | 8.2 | 288 | 17 | 250 | 129 | 409 | 2.36 |
| CHF100LS | 47698932001 | 2" | 10 | 353 | 17 | 250 | 170 | 518 | 5.2 |
| CHF0133LS | 47698933001 | 2" | 13.3 | 471 | 17 | 250 | 170 | 518 | 5.24 |
| CHF0167LS | 47698934001 | 2" | 16.7 | 589 | 17 | 250 | 170 | 518 | 5.26 |
| CHF0200LS | 47698935001 | 3" | 20 | 706 | 17 | 250 | 205 | 600 | 9.31 |
| CHF0260LS | 47698936001 | 3" | 26 | 918 | 17 | 250 | 205 | 700 | 10.69 |
| CHF0305LS | 47698937001 | 3" | 30.5 | 1077 | 17 | 250 | 205 | 700 | 10.69 |
| CHF0383LS | 47698938001 | 3" | 38.3 | 1354 | 17 | 250 | 205 | 930 | 13.7 |
| CHF0450LS | 47698939001 | 3" | 45 | 1589 | 17 | 250 | 205 | 930 | 13.7 |

Compressed Air Filters CHF Series - Grade A

| FILTER MODEL | CHAMPION PART NUMBER CCN | CONNECTION SIZE | FLOW RATE | | MAX. PRESSURE | | DIMENSIONS [MM] | | WEIGHT |
|--------------|--------------------------------|--------------------|---------------------|------|---------------|-----|-----------------|-----|--------|
| | | | m ³ /min | cfm | bar | psi | W | H | |
| CHF005LA | 47698957001 | 3/8" | 0.5 | 18 | 17 | 250 | 76 | 225 | 0.55 |
| CHF007LA | 47698958001 | 1/2" | 0.7 | 24 | 17 | 250 | 76 | 225 | 0.55 |
| CHF013LA | 47698959001 | 3/4" | 1.3 | 44 | 17 | 250 | 98 | 280 | 1.07 |
| CHF018LA | 47698960001 | 3/4" | 1.8 | 65 | 17 | 250 | 98 | 280 | 1.09 |
| CHF025LA | 47698961001 | 1" | 2.5 | 88 | 17 | 250 | 129 | 319 | 2.06 |
| CHF032LA | 47698962001 | 1" | 3.2 | 112 | 17 | 250 | 129 | 319 | 2.06 |
| CHF038LA | 47698963001 | 1" | 3.8 | 135 | 17 | 250 | 129 | 319 | 2.06 |
| CHF067LA | 47698964001 | 1 1/2" | 6.7 | 235 | 17 | 250 | 129 | 409 | 2.36 |
| CHF082LA | 47698965001 | 1 1/2" | 8.2 | 288 | 17 | 250 | 129 | 409 | 2.36 |
| CHF100LA | 47698966001 | 2" | 10 | 353 | 17 | 250 | 170 | 518 | 5.2 |
| CHF0133LA | 47698967001 | 2" | 13.3 | 471 | 17 | 250 | 170 | 518 | 5.24 |
| CHF0167LA | 47698968001 | 2" | 16.7 | 589 | 17 | 250 | 170 | 518 | 5.26 |
| CHF0200LA | 47698969001 | 3" | 20 | 706 | 17 | 250 | 205 | 600 | 9.31 |
| CHF0260LA | 47698970001 | 3" | 26 | 918 | 17 | 250 | 205 | 700 | 10.69 |
| CHF0305LA | 47698971001 | 3" | 30.5 | 1077 | 17 | 250 | 205 | 700 | 10.69 |
| CHF0383LA | 47698972001 | 3" | 38.3 | 1354 | 17 | 250 | 205 | 930 | 13.7 |
| CHF0450LA | 47698973001 | 3" | 45 | 1589 | 17 | 250 | 205 | 930 | 13.7 |



Compressed Air Filters CHF Series - Grade R

| FILTER MODEL | CHAMPION PART NUMBER CCN | CONNECTION SIZE | FLOW RATE | | MAX. PRESSURE | | DIMENSIONS [MM] | | WEIGHT kg |
|--------------|--------------------------------|--------------------|---------------------|------|---------------|-----|-----------------|-----|--------------|
| | | | m ³ /min | cfm | bar | psi | W | H | |
| CHF005LR | 47698940001 | 3/8" | 0.5 | 18 | 17 | 250 | 76 | 225 | 0.55 |
| CHF007LR | 47698941001 | 1/2" | 0.7 | 24 | 17 | 250 | 76 | 225 | 0.55 |
| CHF013LR | 47698942001 | 3/4" | 1.3 | 44 | 17 | 250 | 98 | 280 | 1.07 |
| CHF018LR | 47698943001 | 3/4" | 1.8 | 65 | 17 | 250 | 98 | 280 | 1.09 |
| CHF025LR | 47698944001 | 1" | 2.5 | 88 | 17 | 250 | 129 | 319 | 2.06 |
| CHF032LR | 47698945001 | 1" | 3.2 | 112 | 17 | 250 | 129 | 319 | 2.06 |
| CHF038LR | 47698946001 | 1" | 3.8 | 135 | 17 | 250 | 129 | 319 | 2.06 |
| CHF067LR | 47698947001 | 1 1/2" | 6.7 | 235 | 17 | 250 | 129 | 409 | 2.36 |
| CHF082LR | 47698948001 | 1 1/2" | 8.2 | 288 | 17 | 250 | 129 | 409 | 2.36 |
| CHF100LR | 47698949001 | 2" | 10 | 353 | 17 | 250 | 170 | 518 | 5.2 |
| CHF0133LR | 47698950001 | 2" | 13.3 | 471 | 17 | 250 | 170 | 518 | 5.24 |
| CHF0167LR | 47698951001 | 2" | 16.7 | 589 | 17 | 250 | 170 | 518 | 5.26 |
| CHF0200LR | 47698952001 | 3" | 20 | 706 | 17 | 250 | 205 | 600 | 9.31 |
| CHF0260LR | 47698953001 | 3" | 26 | 918 | 17 | 250 | 205 | 700 | 10.69 |
| CHF0305LR | 47698954001 | 3" | 30.5 | 1077 | 17 | 250 | 205 | 700 | 10.69 |
| CHF0383LR | 47698955001 | 3" | 38.3 | 1354 | 17 | 250 | 205 | 930 | 13.7 |
| CHF0450LR | 47698956001 | 3" | 45 | 1589 | 17 | 250 | 205 | 930 | 13.7 |

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)

Operating Limitations:

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

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

Max Recommended Operating Temp 50°C (Grade A)
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.



Technical data

Compressed Air Filter Elements CHF Series - Grade M

| FILTER MODEL | FILTER ELEMENT |
|--------------|----------------|
| CHF005LM | 47699428001 |
| CHF007LM | 47699432001 |
| CHF013LM | 47699436001 |
| CHF018LM | 47699440001 |
| CHF025LM | 47699444001 |
| CHF032LM | 47699448001 |
| CHF038LM | 47699452001 |
| CHF067LM | 47699456001 |
| CHF082LM | 47699460001 |
| CHF100LM | 47699464001 |
| CHF0133LM | 47699468001 |
| CHF0167LM | 47699472001 |
| CHF0200LM | 47699476001 |
| CHF0260LM | 47700081001 |
| CHF0305LM | 47700085001 |
| CHF0383LM | 47700089001 |
| CHF0450LM | 47700093001 |

Compressed Air Filter Elements CHF Series - Grade A

| FILTER MODEL | FILTER ELEMENT |
|--------------|----------------|
| CHF005LA | 47699431001 |
| CHF007LA | 47699435001 |
| CHF013LA | 47699439001 |
| CHF018LA | 47699443001 |
| CHF025LA | 47699447001 |
| CHF032LA | 47699451001 |
| CHF038LA | 47699455001 |
| CHF067LA | 47699459001 |
| CHF082LA | 47699463001 |
| CHF100LA | 47699467001 |
| CHF0133LA | 47699471001 |
| CHF0167LA | 47699475001 |
| CHF0200LA | 47700080001 |
| CHF0260LA | 47700084001 |
| CHF0305LA | 47700088001 |
| CHF0383LA | 47700092001 |
| CHF0450LA | 47700096001 |

Compressed Air Filter Elements CHF Series - Grade S

| FILTER MODEL | FILTER ELEMENT |
|--------------|----------------|
| CHF005LS | 47699429001 |
| CHF007LS | 47699433001 |
| CHF013LS | 47699437001 |
| CHF018LS | 47699441001 |
| CHF025LS | 47699445001 |
| CHF032LS | 47699449001 |
| CHF038LS | 47699453001 |
| CHF067LS | 47699457001 |
| CHF082LS | 47699461001 |
| CHF100LS | 47699465001 |
| CHF0133LS | 47699469001 |
| CHF0167LS | 47699473001 |
| CHF0200LS | 47700078001 |
| CHF0260LS | 47700082001 |
| CHF0305LS | 47700086001 |
| CHF0383LS | 47700090001 |
| CHF0450LS | 47700094001 |

Compressed Air Filter Elements CHF Series - Grade R

| FILTER MODEL | FILTER ELEMENT |
|--------------|----------------|
| CHF005LR | 47699430001 |
| CHF007LR | 47699434001 |
| CHF013LR | 47699438001 |
| CHF018LR | 47699442001 |
| CHF025LR | 47699446001 |
| CHF032LR | 47699450001 |
| CHF038LR | 47699454001 |
| CHF067LR | 47699458001 |
| CHF082LR | 47699462001 |
| CHF100LR | 47699466001 |
| CHF0133LR | 47699470001 |
| CHF0167LR | 47699474001 |
| CHF0200LR | 47700079001 |
| CHF0260LR | 47700083001 |
| CHF0305LR | 47700087001 |
| CHF0383LR | 47700091001 |
| CHF0450LR | 47700095001 |

Notes

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. In the bottom-left corner, there is a light gray triangular shape, which appears to be a shadow or a piece of tape. The rest of the page is empty and white.

At a glance...



Operating Pressure
14/16 bar



Ambient temperature
25°C (45° max)



Inlet air temperature
35°C (55° max)

Applications

- Compressed air systems



REFRIGERATION AIR DRYERS CHF SERIES

The advanced design and innovative technology offered by CHF 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 | PART NO | AIR FLOW CLASS 5 | | ABSORBED POWER kW | POWER SUPPLY V/PH/Hz | MAX PRESSURE bar g | AIR CONNECTIONS BSP | REFRIGERANT | DIMENSIONS [MM] | | |
|--------|-------------|---------------------|--------|-------------------------|----------------------------|--------------------------|---------------------------|-------------|-----------------|-----|------|
| | | m³/h | m³/min | | | | | | W | D | H |
| 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 |

| DRYER | PART NO | AIR FLOW CLASS 4 | | ABSORBED POWER kW | POWER SUPPLY V/PH/Hz | MAX PRESSURE bar g | AIR CONNECTIONS BSP | REFRIGERANT | DIMENSIONS [MM] | | |
|-------------|-------------|---------------------|--------|-------------------------|-------------------------|--------------------------|---------------------------|-------------|-----------------|------|------|
| | | m³/h | m³/min | | | | | | W | D | H |
| CHR216 - SD | 47888722001 | 1300 | 21.67 | 2.17 | 400/3/50 | 14 | 3" | R513A | 806 | 1012 | 1539 |
| CHR250 - SD | 47888723001 | 1500 | 25.00 | 2.51 | 400/3/50 | 14 | 3" | R513A | 806 | 1012 | 1539 |
| CHR300 - SD | 47850307001 | 1800 | 30.00 | 3.01 | 400/3/50 | 14 | 3" | R513A | 806 | 1012 | 1539 |
| CHR375 - SD | 47850308001 | 2250 | 37.50 | 3.65 | 400/3/50 | 14 | 3" | R513A | 806 | 1012 | 1539 |
| CHR433 - SD | 47850309001 | 2600 | 43.33 | 4.22 | 400/3/50 | 14 | 3" | R513A | 806 | 1012 | 1539 |
| CHR533 - SD | 47850310001 | 3200 | 53.33 | 6.31 | 400/3/50 | 14 | DN150 PN16 | R513A | 880 | 1819 | 1796 |
| CHR700 - SD | 47850311001 | 4200 | 70.00 | 5.96 | 400/3/50 | 14 | DN150 PN16 | R513A | 880 | 1819 | 1796 |
| CHR800 - SD | 47850312001 | 4800 | 80.00 | 6.81 | 400/3/50 | 14 | DN150 PN16 | R513A | 880 | 1819 | 1796 |
| CHR900 - SD | 47850313001 | 5400 | 90.00 | 10.9 | 400/3/50 | 13 | DN150 PN16 | R513A | 1510 | 1500 | 1555 |

| DRYER | PART NO | AIR FLOW | | ABSORBED POWER kW | POWER SUPPLY V/PH/Hz | MAX PRESSURE bar g | AIR CONNECTIONS BSP | REFRIGERANT | DIMENSIONS [MM] | | |
|--------------|-------------|----------|--------|-------------------------|-------------------------|--------------------------|---------------------------|-------------|-----------------|-----|------|
| | | m³/h | m³/min | | | | | | W | D | H |
| CHR6 - NLD | 47703438001 | 36 | 0.60 | 0.12 | 230/1/50-60 | 16 | 3/8" | R513A | 305 | 360 | 408 |
| CHR9 - NLD | 47703439001 | 54 | 0.90 | 0.17 | 230/1/50-60 | 16 | 1/2" | R513A | 325 | 430 | 445 |
| CHR12 - NLD | 47703440001 | 72 | 1.20 | 0.17 | 230/1/50-60 | 16 | 1/2" | R513A | 325 | 430 | 445 |
| CHR18 - NLD | 47703441001 | 108 | 1.80 | 0.29 | 230/1/50-60 | 16 | 1/2" | R513A | 325 | 430 | 445 |
| CHR24 - NLD | 47703442001 | 144 | 2.40 | 0.41 | 230/1/50-60 | 16 | 3/4" | R513A | 395 | 486 | 565 |
| CHR30 - NLD | 47703443001 | 180 | 3.00 | 0.47 | 230/1/50-60 | 16 | 3/4" | R513A | 395 | 486 | 565 |
| CHR36 - NLD | 47703444001 | 216 | 3.60 | 0.61 | 230/1/50-60 | 16 | 3/4" | R513A | 395 | 486 | 565 |
| CHR47 - NLD | 47703445001 | 280 | 4.67 | 0.6 | 230/1/50 | 16 | 1" | R407C | 485 | 595 | 614 |
| CHR57 - NLD | 47703446001 | 340 | 5.67 | 0.6 | 230/1/50 | 16 | 1" | R407C | 485 | 595 | 614 |
| CHR83 - NLD | 47703447001 | 500 | 8.33 | 0.9 | 230/1/50 | 16 | 1-1/2" | R407C | 500 | 660 | 970 |
| CHR102 - NLD | 47703448001 | 610 | 10.17 | 0.9 | 230/1/50 | 16 | 1-1/2" | R407C | 500 | 660 | 970 |
| CHR125 - NLD | 47703449001 | 750 | 12.50 | 1.23 | 230/1/50 | 14 | 2" | R407C | 520 | 800 | 1195 |
| CHR167 - NLD | 47703450001 | 1000 | 16.67 | 1.43 | 230/1/50 | 14 | 2-1/2" | R407C | 520 | 835 | 1195 |
| CHR217 - NLD | 47703451001 | 1300 | 21.67 | 2.14 | 400/3/50 | 14 | 2-1/2" | R407C | 520 | 835 | 1230 |

Timer drain as standard, electronic No Loss Drain (NLD) option on request on Models CHR6 - CHR217. Integrated Smart Drain (SD) as standard on Models CHR216 - CHR900.

| CORRECTION FACTORS FOR OPERATING PRESSURE | | | | | | | | | | | | | |
|--|------|------|------|------|------|--|----------------------|------|------|------|------|------|------|
| OPERATING PRESSURE [bar] | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | |
| CORRECTION FACTOR K1 | 0.70 | 0.78 | 0.85 | 0.93 | 1.00 | 1.06 | 1.11 | 1.15 | 1.18 | 1.20 | 1.22 | | |
| CORRECTION FACTORS FOR INLET AIR TEMPERATURE CHANGES | | | | | | CORRECTION FACTORS FOR AMBIENT CHANGES | | | | | | | |
| TEMPERATURE [°C] | 30 | 35 | 40 | 45 | 50 | 55 | TEMPERATURE [°C] | 25 | 30 | 35 | 40 | 42 | 45 |
| CORRECTION FACTOR K2 | 1.20 | 1.00 | 0.85 | 0.71 | 0.58 | 0.49 | CORRECTION FACTOR K3 | 1.00 | 0.96 | 0.92 | 0.88 | 0.85 | 0.80 |

At a glance...



Operating Pressure
14 bar



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



Flow Rate
0.08 - 5.00 m³/min

MODULAR DESICCANT DRYERS

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.



Applications

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

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. Models from 40 to 300 m³/h are equipped with the new touchscreen controller.

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 cycle time, 10 minutes, than most competitors (4 to 8 minutes maximum).

CHA1M -40°C to CHA50M -40°C Series

| TYPE | PART NO | CAPACITY | | | MAX PRESSURE | | PRESSURE DEW POINT °C | AIR IN/OUT CONNECTION BSP (in) | POWER SUPPLY V/Ph/Hz | DIMENSIONS [MM] | | | WEIGHT kg | DESICCANT PER TOWER kg |
|-------------|-------------|----------|------|------|--------------|------|-----------------------|--------------------------------|----------------------|-----------------|-----|------|-----------|------------------------|
| | | m³/min | m³/h | SCFM | bar g | psig | | | | W | D | H | | |
| 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 CHA50M -40°C ES Series

| TYPE | PART NO | CAPACITY | | | MAX PRESSURE | | PRESSURE DEW POINT °C | AIR IN/OUT CONNECTION BSP (in) | POWER SUPPLY V/Ph/Hz | DIMENSIONS [MM] | | | WEIGHT kg | DESICCANT PER TOWER kg |
|----------------|-------------|----------|------|------|--------------|------|-----------------------|--------------------------------|----------------------|-----------------|-----|------|-----------|------------------------|
| | | m³/min | m³/h | SCFM | bar g | psig | | | | W | D | H | | |
| 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 °C | AIR IN/OUT CONNECTION BSP (in) | POWER SUPPLY V/Ph/Hz | DIMENSIONS [MM] | | | WEIGHT kg | DESICCANT PER TOWER kg |
|-------------|-------------|----------|------|------|--------------|------|-----------------------|--------------------------------|----------------------|-----------------|-----|------|-----------|------------------------|
| | | m³/min | m³/h | SCFM | bar g | psig | | | | W | D | H | | |
| 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 TEMPERATURE | | INLET AIR PRESSURE | | | | | | | | | | | |
|--------------------------|--|--------------------|------|------|------|------|------|------|------|------|------|------|------|
| | | bar g | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | | 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 TEMPERATURE | | INLET AIR PRESSURE | | | | | | | | | | | |
|--------------------------|--|--------------------|------|------|------|------|------|------|------|------|------|------|------|
| | | psi g | 58 | 73 | 87 | 102 | 116 | 131 | 145 | 160 | 174 | 189 | 203 |
| | | 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

HEATLESS DESICCANT DRYERS

At a glance...



Capacity
400 - 8500 m³/hr



Weight
285 - 4400 kg



Connection Size
1½ - 3"

TWIN TOWER HEATLESS DESICCANT DRYERS

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 | m ³ /hr | m ³ /hr | | LENGTH | WIDTH | HEIGHT |
| CHT67F | 47726991001 | 1½" | 400 | 340 | 285 | 2160 | 825 | 530 |
| CHT83F | 47726992001 | 1½" | 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 | 1½" | 400 | 340 | 285 | 2160 | 825 | 530 |
| CHT83FS | 47727057001 | 1½" | 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 | 1½" | 400 | 340 | 285 | 2160 | 825 | 530 |
| CHT83F-70 | 47727070001 | 1½" | 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

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. In the bottom-left corner, there is a light gray triangular shape, which appears to be a shadow or a design element. The rest of the page is completely blank and white.

AIRCOOLED AFTERCOOLERS

At a glance...



Operating Pressure
1 - 16 bar



Flow Rate
1.1 - 75 m³/min



Operating Temp. Range
25°C -120°C



Pipe Size
1 - 2 1/2"

AIR COOLED AFTERCOOLERS CHRA SERIES

Air cooled aftercoolers series CHRA 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. CHRA 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 | | AIR | | FAN W | OPERATING PRESSURE bar | DIMENSIONS [MM] | | WEIGHT kg |
|-------|-------------|-----------|------|--------|--------|----------|------------------------------|-----------------|--------|--------------|
| | | m³/min | m³/h | IN | OUT | | | LENGTH | HEIGHT | |
| RA10 | CC1246362 | 1 | 60 | 1" | 1" | 20 | 1 - 16 | 600 | 955 | 19 |
| RA20 | CC1246504 | 2 | 120 | 1" | 1" | 20 | 1 - 16 | 600 | 955 | 20 |
| RA30 | CC1246505 | 3 | 180 | 1 1/2" | 1 1/2" | 115 | 1 - 16 | 820 | 1145 | 29 |
| RA40 | CC1246506 | 4 | 240 | 1 1/2" | 1 1/2" | 135 | 1 - 16 | 1030 | 1145 | 32 |
| RA65 | CC1227381 | 6.5 | 390 | 2" | 1 1/2" | 690 | 1 - 16 | 970 | 1365 | 51 |
| RA80 | CC1246392 | 8 | 480 | 2" | 1 1/2" | 690 | 1 - 16 | 965 | 1405 | 53 |
| RA120 | CC1227462 | 12 | 720 | 2" | 2" | 760 | 1 - 16 | 1000 | 1555 | 97 |
| RA160 | CC1246393 | 16 | 960 | 2 1/2" | 2 1/2" | 760 | 1 - 16 | 1205 | 1765 | 120 |
| RA200 | CC1246514 | 20 | 1200 | 3" | 2 1/2" | 660 | 1 - 16 | 1410 | 2120 | 240 |
| RA250 | CC1218222 | 25 | 1500 | 3" | 3" | 660 | 1 - 16 | 1410 | 2120 | 250 |
| RA300 | CC1246515 | 30 | 1800 | DN100 | DN100 | 660 | 1 - 16 | 2095 | 2060 | 280 |
| RA400 | CC1246516 | 40 | 2400 | DN100 | DN100 | 2 x 760 | 1 - 16 | 2415 | 2050 | 300 |
| RA500 | CC1246517 | 50 | 3000 | DN125 | DN125 | 2 x 1300 | 1 - 12 | 3245 | 2000 | 310 |
| RA650 | CC1246518 | 65 | 3900 | DN125 | DN125 | 2 x 1300 | 1 - 12 | 3245 | 2000 | 390 |
| RA750 | 47831947001 | 75 | 4500 | DN150 | DN150 | 2 x 1300 | 1 - 12 | 3325 | 2150 | 390 |

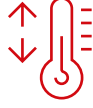
At a glance...



Operating Pressure
1 - 12 bar g

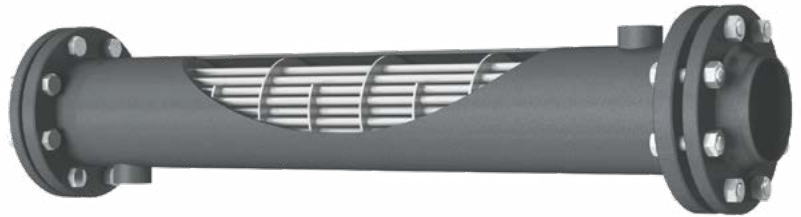


Flow Rate
2.2 - 759.5 m³/min



Operating Temp. Range
1.5°C - 200°C

WATER COOLED AFTERCOOLERS CHA SERIES



Applications

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

Water-cooled aftercoolers series CHA 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. CHA 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 | AIR | | OPERATING PRESSURE bar | FLOW RATE | | DIMENSIONS [MM] | |
|-------|-----------|--------|--------|---------------------------|---------------------|------|-----------------|-----|
| | | IN | OUT | | m ³ /min | cfm | A | B |
| A30 | CC1246520 | 1 1/2" | 1 1/2" | 1 - 12 | 3 | 106 | 850 | 385 |
| A60 | CC1246521 | 2 1/2" | 1 1/2" | 1 - 12 | 6 | 212 | 1060 | 385 |
| A80 | CC1246523 | 2 1/2" | 1 1/2" | 1 - 12 | 8 | 282 | 1300 | 385 |
| A140 | CC1246524 | DN100 | DN100 | 1 - 12 | 14 | 494 | 1300 | 702 |
| A250 | CC1240647 | DN100 | DN100 | 1 - 12 | 25 | 882 | 1300 | 702 |
| A400 | CC1246525 | DN150 | DN125 | 1 - 12 | 40 | 1412 | 1300 | 702 |
| A500 | CC1246526 | DN175 | DN125 | 1 - 12 | 50 | 1765 | 1300 | 770 |
| A800 | CC1246527 | DN250 | DN150 | 1 - 12 | 80 | 2824 | 1300 | 845 |
| A1100 | CC1246528 | DN250 | DN150 | 1 - 12 | 110 | 3882 | 1300 | 845 |
| A1500 | CC1246529 | DN300 | DN200 | 1 - 12 | 150 | 5294 | 1300 | 925 |
| A1800 | CC1246530 | DN350 | DN200 | 1 - 12 | 180 | 6353 | 1300 | 925 |
| A2100 | CC1246531 | DN400 | DN200 | 1 - 12 | 210 | 7412 | 1500 | 925 |

At a glance...



Operating Pressure
1 - 16 bar



Operating Temp. Range
25°C - 120°C



Pipe Size
1 - 2 1/2"



Flow Rate
1.1 - 75 m³/min

ACTIVATED CARBON TOWER CH-FT SERIES

Applications

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

The activated carbon tower eliminates oil vapour and hydrocarbon odours from your operations. Available in two configurations: – aluminum extrusion and fabricated tank are easy to maintain. In critical applications like food and pharmaceutical production where oil content ISO8573-1 Class 1 air or better is crucial, this carbon adsorption technology helps achieve the highest quality “technically oil-free air”.

Extruded aluminum units are up to model CHFT58L and are lightweight (CHFT5L can be wall-mounted). As per the tank configuration, they can be used in compressed air systems or at the point of use. Rightsizing units with corrective factors ensures consistent outlet air quality over 12 months of continuous operations.

This activated carbon tower is a cost-effective, adaptable solution to your oil-free compressed air requirements from the experts at Champion. Deliver Class 0 Air when installed with upstream and downstream filters to intercept activated carbon dust.

- Virtually Oil Free Air: ISO8573-1 Class 0: 0.003 mg/m³ oil content when used with inline filters
- Can be used with Oil Free and Contact Cooled Compressors
- Easy to replace lose high quality Activated Carbon Molecular Sieve
- Long service interval - media replacement every 12 months





CH-FT Activated Carbon Tower

| MODEL | CODE | GAS | BAR | M ³ /MIN | CFM | A | B | C | KG |
|----------|-------------|--------|-----|---------------------|---------|------|-----|-----|-----|
| CHFT5L | 47745977001 | 1/2" | 14 | 0.5 | 17.66 | 749 | 212 | 143 | 8 |
| CHFT12L | 47745978001 | 3/4" | 14 | 1.25 | 44.14 | 890 | 267 | 255 | 20 |
| CHFT18L | 47745979001 | 1" | 14 | 1.83 | 64.63 | 1090 | 267 | 255 | 24 |
| CHFT25L | 47745980001 | 1" | 14 | 2.5 | 88.29 | 1440 | 267 | 255 | 32 |
| CHFT30L | 47745981001 | 1" | 14 | 3 | 105.94 | 1640 | 267 | 255 | 35 |
| CHFT58L | 47745982001 | 1 1/2" | 14 | 5.83 | 205.88 | 1660 | 447 | 255 | 70 |
| CHFT100L | 47745983001 | 2" | 15 | 10 | 353.15 | 2113 | 391 | N/A | 115 |
| CHFT166L | 47745984001 | 2" | 15 | 16.67 | 588.70 | 2148 | 436 | N/A | 245 |
| CHFT260L | 47745985001 | 3" | 15 | 26 | 918.18 | 2463 | 483 | N/A | 222 |
| CHFT383L | 47745986001 | 3" | 15 | 38.33 | 1353.61 | 2693 | 595 | N/A | 379 |
| CHFT466L | 47745987001 | DN100 | 13 | 46.67 | 1648.14 | 2879 | 721 | N/A | 456 |
| CHFT950L | 47745988001 | DN150 | 13 | 95 | 3354.90 | 3455 | 855 | N/A | 900 |

CH-FT Activated Carbon Tower Service Kits

| MODEL | CODE |
|-----------------------|-------------|
| Kit CHFT5L Champion | 47752199001 |
| Kit CHFT12L Champion | 47752200001 |
| Kit CHFT18L Champion | 47752201001 |
| Kit CHFT25L Champion | 47752202001 |
| Kit CHFT30L Champion | 47752203001 |
| Kit CHFT58L Champion | 47752204001 |
| Kit CHFT100L Champion | 47752205001 |
| Kit CHFT166L Champion | 47752206001 |
| Kit CHFT260L Champion | 47752207001 |
| Kit CHFT383L Champion | 47752208001 |
| Kit CHFT466L Champion | 47752209001 |
| Kit CHFT950L Champion | 47752210001 |

CORRECTION FACTORS

| °C/BARG | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|
| 25°C | 0.63 | 0.75 | 0.88 | 1.00 | 1.00 | 1.00 | 1.00 | 1.14 | 1.14 | 1.14 | 1.25 | 1.25 |
| 30°C | 0.63 | 0.75 | 0.88 | 1.00 | 1.00 | 1.00 | 1.00 | 1.14 | 1.14 | 1.14 | 1.25 | 1.25 |
| 35°C | 0.63 | 0.75 | 0.88 | 1.00 | 1.00 | 1.00 | 1.00 | 1.14 | 1.14 | 1.14 | 1.25 | 1.25 |
| 40°C | 0.63 | 0.66 | 0.77 | 0.88 | 0.88 | 0.88 | 0.88 | 1 | 1 | 1 | 1.11 | 1.11 |
| 45°C | 0.63 | 0.54 | 0.63 | 0.72 | 0.72 | 0.72 | 0.72 | 0.81 | 0.81 | 0.81 | 0.9 | 0.9 |
| 50°C | 0.63 | 0.39 | 0.45 | 0.52 | 0.52 | 0.52 | 0.52 | 0.58 | 0.58 | 0.58 | 0.65 | 0.65 |

Notes

[illegible]

VERTICAL AIR RECEIVERS

At a glance...



Operating Pressure
11 - 16 bar



Capacity
100 - 10000l

VERTICAL AIR RECEIVERS

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 | PRESSURE | AIR OUTLET |
|------------------------------|------------|------------------|-------|----------|------------|
| | | | litre | bar | 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 | CC1229498K | 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 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.

CONDENSATE DRAINS

At a glance...



Operating Pressure
0 - 80 bar



Environmental Protection
IP54, IP65

CONDENSATE DRAINS

Champion drains can be applied in both oil-lubricated and oil-free compressor applications. Champion products carry globally recognised approvals, and each product is 100% tested before dispatch.

Champion drains are robust and designed for long life industrial applications.

The Champion direct-acting valve construction with a large orifice has proven to be the most reliable option for condensate draining applications, avoiding potential blockages. In addition, we apply stainless steel moving parts that offer an extended life guarantee and are less sensitive to aggressive particles found in the condensate.

Champion valves are constructed from robust brass or stainless steel, ensuring no damage occurs during transportation, installation, functional operation and subsequent maintenance throughout the drain's working life.

Drains are also installed outdoors. IP65 (NEMA4) insulation protection is, therefore, a minimum requirement. High-grade coil insulation protects the copper wire from overheating, and top brand PCB components are applied to our electronic modules.

Servicing Champion drains is quick and easy. Their service-friendly design ensures short maintenance intervals.

Based on their high and low-temperature operation characteristics, FPM seals have been specifically selected and used in all Champion CHTDC, CHTDV and CHCNL drains. In addition, FPM seals are chosen as this material has proven to be the best choice for compressed air condensate draining applications.



CHTDV & CHTDC Electronic Timer-Controller Condensate Drains

| TECHNICAL DATA | CHTDV 230V 1/4" | CHTDV 115V 1/4" | CHTDV 230V 1/2" | CHTDV 115V 1/2" | CHTDV 230V 3/8" | CHTDV 115V 3/8" | CHTDC 230V 16bar 1/2" | CHTDC 115V 16bar 1/2" | |
|---------------------|-------------------------------|--------------------------|--------------------|--------------------|--------------------|--------------------|--------------------------|--------------------------|------|
| | SUPPLY VOLTAGE | 230V | 115V | 230V | 115V | 230V | 115Vã | 230V | 115V |
| | OPERATING TEMP. RANGE | 1 - 55°C (34 - 131°F) | | | | | | | |
| | OPERATING PRESSURE | 0 - 16 bar (0 - 232 psi) | | | | | | | |
| | PROTECTION CLASS | IP65 (NEMA4) | | | | | | | |
| | COIL POWER | 10 W | 13 W | 10 W | 13 W | 10 W | 13 W | 10 W | 13 W |
| | MASS | | | 0.4 kg | | | | 0.6 kg | |
| | TIME ON | 0.5 - 10 s | | | | | | | |
| | TIME OFF | 0.5 - 45 m | | | | | | | |
| | INLET CONNECTION | 1/4" | | 1/2" | | 3/8" | | 1/4" & 1/2" | |
| | OUTLET CONNECTION | 1/4" | | 1/2" | | 3/8" | | 1/2" | |
| | FLOW RATE KVS | 7 m³/h | | | | | | | |
| | DIMENSIONS LXBXH[MM] | 50x89x114 mm | | | | | | 94x89x127 mm | |
| MEDIUM | Condensate (air, water & oil) | | | | | | | | |
| INTEGRAL STRAINER | No | | | | | | Yes | | |
| INTEGRAL BALL VALVE | No | | | | | | Yes | | |
| PART NUMBER | 47803936001 | 47803935001 | 47774991001 | 47774993001 | 47774990001 | 47774992001 | 47775260001 | 47775262001 | |



CHCNL 10 & 100 Electronic Zero Air Loss Drain with Alarm

| TECHNICAL DATA | CHCNL10 230V | CHCNL10 115V | CHCNL10 230V ALARM | CHCNL10 115V ALARM | CHCNL100 230V | CHCNL100 115V |
|---------------------------------|-------------------------|--------------|-----------------------|-----------------------|---------------|---------------|
| SUPPLY VOLTAGE | 230V | 115V | 230V | 115V | 230V | 115V |
| FREQUENCY | 50-60 Hz | | | | | |
| OPERATING PRESSURE | 16bar (232psi) | | | | | |
| DRAIN CAPACITY (@16BAR/232 PSI) | 45 l/h | | | | 665 l/h | |
| OPERATING TEMP. RANGE | 1 - 50 °C (34 - 122 °F) | | | | | |
| INLET CONNECTION | 1/2" | | | | | |
| OUTLET CONNECTION | 1/4" | | | | | |
| ALARM FUNCTION | No | | Yes N/O | | | |
| INLET STRAINER | Yes | | | | | |
| PROTECTION CLASS | IP65 (NEMA4) | | | | | |
| MASS | 0.5 kg | | | | 1.5 kg | |
| DIMENSIONS (LXBXH) | 123x74x92 mm | | | | 179x114x87 mm | |
| PART NUMBER | 47775257001 | 47775258001 | 47775263001 | 47775264001 | 47775259001 | 47775261001 |

CONDENSATE DRAINS

IED Series Electronic Condensate Drains



TECHNICAL DATA

| | |
|-----------------------------------|---------------------------------------|
| VOLTAGE | 230 VAC |
| FREQUENCY | 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 |

IED

| | |
|---------------------------------------|----------|
| 230 VAC | 115 VAC |
| 50-60 Hz | 50-60 Hz |
| 5 x 20 1A T | |
| 10 VA | |
| 0-16 bar [0-232 psi] | |
| 8 l/h at 7 bar [0,005 cfm at 101 psi] | |
| 1.5-65 °C [35-149°F] | |
| G 1/2" parallel thread | |
| IP54 | |
| 0.3 | |
| 1.5 to 65°C | |
| 61 x 60 x 161 mm | |
| - | - |
| - | - |
| CC1182025 | |

EMD Series Electronic Condensate Drains



TECHNICAL DATA

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 |

EMD12

230 V

| |
|-----------------------------|
| - |
| - |
| 230 VAC, 50-60 Hz |
| 5 x 20 1A T |
| 10 VA |
| 0-16 bar [0-232 psi] |
| 12 l/h [0.007cfm] |
| 1.5-65°C [35-149°F] |
| G 1/2" |
| Push connection for tube ø8 |
| IP54 |
| 0.55 |
| 133 x 76 x 147 |
| CC1112242 |

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 | 38.2 mm |
| | 24.0 mm |
| MEDIUM | Condensate [air, water, oil] |
| MATERIAL | Brass |
| PART NUMBER | CC1183830 |

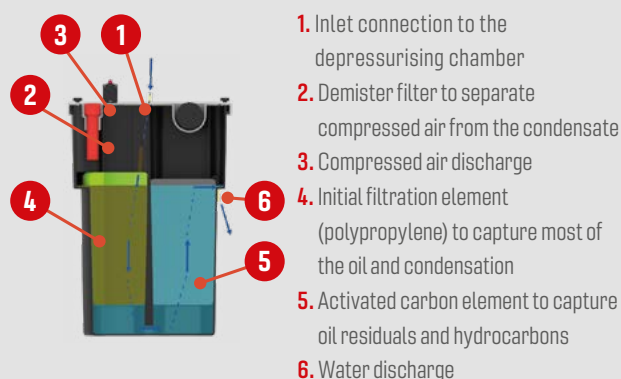
OIL/WATER SEPARATORS CHSEP

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.

Oil-water separator | Principle of operation

Puro Flow - 2 to 4.5 m³/min



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

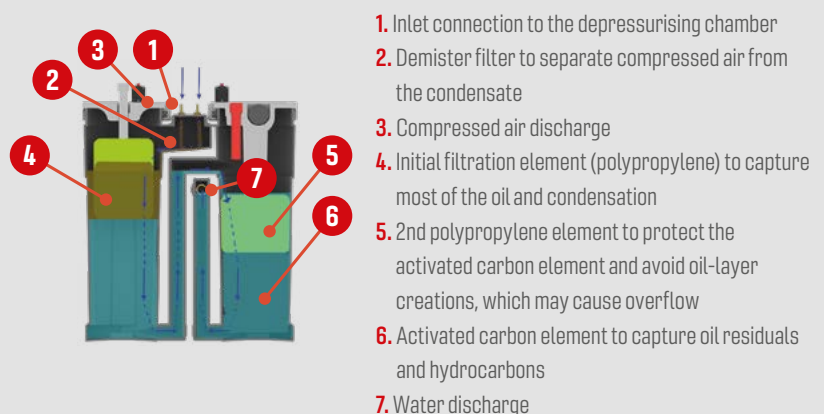
Complies with environmental regulations

Minimised fluid disposal costs

Streamlined design

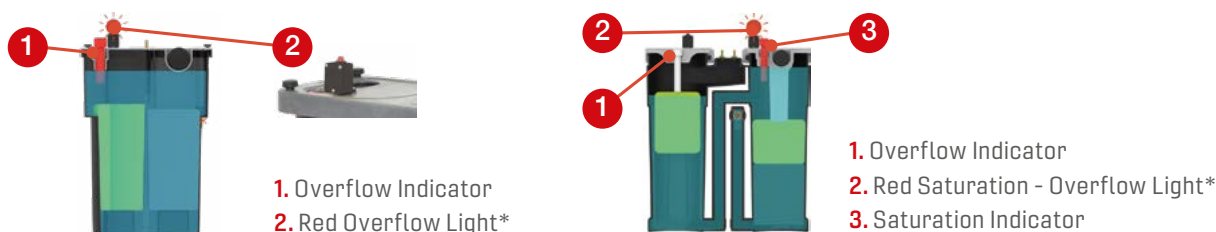
Reliable operation with reduced maintenance

Sepremium Flow - 10 to 60 m³/min





Oil-water separator - Indicators



*Sealed with batteries. No risk of contact with any liquid.

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 < 5 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. Compatible also with polyglycol coolants, with a dedicated model and code (not displayed in the list below).

Multiple sizing options

Champion oil water separators come in 6 sizes, from 2 to 60 m³/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 | 1 - 50°C |
| OPERATING MEDIA | Condensate (water - oil; Non aggressive) |
| DESIGN CONDITIONS | Suitable for mineral lubricants, synthetic lubricants and stable emulsions. For polyglycol coolants, contact us for a dedicated code and quotation. |
| RESIDUAL OIL CONTENT | 4 ppm Oil Carryover from compressor, 75% compressor loading, 20°C ambient and 70% RH |
| SERVICE INTERVALS | <5 ppm 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 > according to lifetime indicator / overflow indicator |

| MODEL | CONNECTIONS INLET BSP | CONNECTIONS OUTLET BSP | FAD M ³ /MIN | LENGTH MM | HEIGHT MM | DEPTH MM | WEIGHT KG | MATERIAL NO. |
|-------------|--------------------------|---------------------------|----------------------------|--------------|--------------|-------------|--------------|--------------|
| CHSEP020 | 1/2" | 1/2" | 2 | 270 | 249 | 240 | 4.1 | 47810927001 |
| CHSEP020 WB | 1/2" | 1/2" | 2 | 270 | 249 | 240 | 4.1 | 47811383001 |
| CHSEP045 | 1/2" | 1/2" | 5 | 392 | 569 | 191 | 8 | 47882806001 |
| CHSEP100 | 1/2" | 1" | 10 | 670 | 750 | 260 | 17 | 47882808001 |
| CHSEP200 | 1/2" | 1" | 20 | 800 | 900 | 320 | 28 | 47882810001 |
| CHSEP300 | 1/2" | 1" | 30 | 990 | 900 | 400 | 42 | 47882812001 |
| CHSEP600 | 1/2" | 1" | 60 | 1,160 | 1,040 | 490 | 74 | 47887502001 |

Polyglycol version also available. Contact us for more info.

SERVICE & SPARE PARTS

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





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]} | X |
| FM07 - FM132 Series Screw Compressors | 24 Months ^{1]} | ✓ |
| Hydrovane | 12 Months ^{1]} | ✓ ^{2]} |
| Champion Dryers (CHA, CHT, CHR) | 24 Months ^{1]} | ✓ ^{2]} |
| Champion Portable Compressors | 12 Months ^{1]} | X |
| Champion Filters, Water Separators & Accessories | 12 Months ^{1]} | X |
| Replacement Spare Parts | 12 Months | X |

^{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 an authorised Champion trained service engineer.

^{2]} Available on condition that dryers are equipped with Champion pre/post filtration and installed along with a screw compressor with 5-Year Extended Warranty.

• 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

Champion offer an Extended Warranty programme on selected models.

Please refer to the terms and conditions of the Extended Warranty Programmes.

For more information please see document: "Standard Warranty / Extended Warranty Terms & Conditions" available on Repsnet.

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 48 MONTHS 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 2000 HOURS OR 12 MONTHS ¹ | 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.

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-22+RS | 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)

** For 10 bar version; for other versions see in Repsnet

PORTABLES CMP SERIES SERVICE SCHEDULE

| | | EACH STARTUP | 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 SCU02000-5GT. Please ask your distributor for further information.

Fuel:- Use automotive gasoline (unleaded)

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-P14 | CC1186378 | CC1186379 |

Only the following lubricants are allowed to be used:
Mineral lubricant SCU02000-5GT

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

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 tightened and fixed | | | | • | • |
| Filter | Depressurise the dryer. Replace pre- and post-filter elements. | | | | • | • |
| Dryer | Replace the fan pressure switch | | | | | • |

ADSORPTION AIR DRYERS CHA1-CHA50 (DS) SERVICE SCHEDULE

| | DAILY | EVERY 12 MONTHS | EVERY 36 MONTHS |
|---|-------|-----------------|-----------------|
| Check and record inlet pressure, temperature and flow. | • | • | • |
| Check tower pressure gauge readings are within operating tolerance CHA9-CHA50 only | • | • | • |
| Check dryer operation for proper cycling, depressurization and re-pressurization. | • | • | • |
| Check that the prefilter drain is operating properly and that there is no condensate discharged from purge mufflers | • | • | • |
| Verify that pressure in purging tower is 3psig (0.2barg) or less. If higher, muffler replacement is recommended. | • | • | • |
| Check the dryer digital controller for alarms (9-50 only) | • | • | • |
| Verify that prefilter and afterfilter differential pressure is within operating limits. Replace elements and/or cartridges as required. | • | • | • |
| Check desiccant and replace if necessary. | | • | • |
| Inspect and clean pilot air control solenoid valves, check valves and flow valves. Rebuild and / or replace as required. | | • | • |
| Replace drains on prefilter and afterfilter. | | • | • |
| Test electrical components, replace as necessary. | | • | • |
| Check and replace mufflers | | • | • |
| Check for loose electrical wiring connections and tighten as required. | | • | • |
| Inspect pneumatic valves and replace angle valve bonnets if not functioning properly (Preventive). | | | • |
| Check and replace shuttle valve assembly | | | • |
| Replace control air solenoid valve (Preventive). | | | • |
| Replace desiccant. | | | • |

KITS FOR CHA1 - CHA50

| MODEL | YEARLY KIT | EVERY 3 YEARS | DESSICANT AA EVERY 3 YEARS | | DESSICANT MS EVERY 3 YEARS | |
|-------------|-------------|---------------|----------------------------|---------|----------------------------|---------|
| CHA1 -40°C | 47712097001 | 47712097001 | 47713689001 | 1.4 kg | | |
| CHA3 -40°C | 47712097001 | 47712097001 | 47713689001 | 4.3 kg | | |
| CHA4 -40°C | 47712101001 | 47712097001 | 47713689001 | 6 kg | | |
| CHA7 -40°C | 47711969001 | 47712102001 | 47713689001 | 12.8 kg | | |
| CHA9 -40°C | 47712106001 | 47712102001 | 47713689001 | 16.7 kg | | |
| CHA12 -40°C | 47712106001 | 47712102001 | 47713689001 | 21.8kg | | |
| CHA17 -40°C | 47712116001 | 47712117001 | 47713689001 | 30.8 kg | | |
| CHA25 -40°C | 47712116001 | 47712117001 | 47713689001 | 35.9 kg | | |
| CHA33 -40°C | 47712126001 | 47712127001 | 47713689001 | 61.6 kg | | |
| CHA42 -40°C | 47712131001 | 47712127001 | 47713689001 | 71.8 kg | | |
| CHA50 -40°C | 47712131001 | 47712127001 | 47713689001 | 71.8 kg | | |
| CHA7 -70°C | 47711969001 | 47712102001 | 47713689001 | 8.6 kg | 47713690001 | 4.3 kg |
| CHA9 -70°C | 47712106001 | 47712102001 | 47713689001 | 11.1 kg | 47713690001 | 5.6 kg |
| CHA12 -70°C | 47712106001 | 47712102001 | 47713689001 | 14.5 kg | 47713690001 | 7.3 kg |
| CHA17 -70°C | 47712116001 | 47712117001 | 47713689001 | 20.5 kg | 47713690001 | 10.3 kg |
| CHA25 -70°C | 47712116001 | 47712117001 | 47713689001 | 23.9 kg | 47713690001 | 12 kg |
| CHA33 -70°C | 47712126001 | 47712127001 | 47713689001 | 41 kg | 47713690001 | 20.5 kg |
| CHA42 -70°C | 47712131001 | 47712127001 | 47713689001 | 47.9 kg | 47713690001 | 23.9 kg |
| CHA50 -70°C | 47712131001 | 47712127001 | 47713689001 | 47.9 kg | 47713690001 | 23.9 kg |

CH-FT ACTIVATED CARBON TOWER SERVICE KITS

| MODEL | CODE |
|-----------------------|-------------|
| Kit CHFT5L Champion | 47752199001 |
| Kit CHFT12L Champion | 47752200001 |
| Kit CHFT18L Champion | 47752201001 |
| Kit CHFT25L Champion | 47752202001 |
| Kit CHFT30L Champion | 47752203001 |
| Kit CHFT58L Champion | 47752204001 |
| Kit CHFT100L Champion | 47752205001 |
| Kit CHFT166L Champion | 47752206001 |
| Kit CHFT260L Champion | 47752207001 |
| Kit CHFT383L Champion | 47752208001 |
| Kit CHFT466L Champion | 47752209001 |
| Kit CHFT950L Champion | 47752210001 |

OWS OIL WATER SEPARATOR SERVICE KITS

| MODEL | MATERIAL NUMBER |
|-----------------------|-----------------|
| Service Pack CHSEP020 | 47822488001 |
| Service Pack CHSEP045 | 47882838001 |
| Service Pack CHSEP100 | 47882840001 |
| Service Pack CHSEP200 | 47882842001 |
| Service Pack CHSEP300 | 47882844001 |
| Service Pack CHSEP600 | 47887504001 |

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 |

SALES CONDITIONS & PRICES

Prices are valid for orders received on or after 1st June 2025

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

- Vane
 - EXW Redditch, UK
- Spares Parts
 - EXW Lonate, Italy/
Tongeren, Belgium
- 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.

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