BroomWade

AIR TECH MADE EASY

May 2018

www.broomwade.com

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KA7 PLUS
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BroomWade

FIXED & VARIABLE SPEED

SCREW COMPRESSORS

2.2 - 75kW

- Oil flooded
- Single stage rotary screw compressor
- Fixed and variable speed models
- Belt drive
- Star / Delta starting
- Pressure range 7.5 - 13 bar
- Electric motor 2.2kW to 75kW - IE3
- Modular design including receivers and dryers
- C-PRO 1.0 & C-MASTER
- Extended warranties available


BroomWade
flexiAIR
KSV55
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KBV22

SMART COMPRESSOR DESIGN

At a glance…

Nominal Pressure
8 - 13 bar g

Motor Power
2.2 - 7.5kW

Volume Flow
0.24 - 1.12 m³/min

KA - KA Plus

A series of technologically advanced compressors, resulting from an accurate research and development process

The result is an extremely quiet compressor, environmentally friendly thanks to a reduced power consumption and the use of easily recyclable materials.

Noise levels

Very low noise levels have been reached (61 - 67 dB(A)) thanks to optimised air and cooling, allowing the installation of the compressor at the point of use.

Start/Stop operation

The Start/Stop mode reduces the energy consumption as the compressor runs only when needed.

C-PRO 1.0 control unit (optional for KA 4 and 5, standard for KA 7 Plus)

The C-PRO 1.0 electronic controller provides the user with data on total hours of operation, operating temperature and additional information such as:

- Air filter replacement
- Oil filter replacement
- Separator filter replacement
- Oil change
- Regular maintenance advice
- Pressure setting adjustment can be easily adjusted via the controller

Air/Oil separation system

Increased reliability combined with reduced piping and connections is made possible by an integrated block acting as air-oil separation and filter. The effectiveness of filtering ensures extremely low levels of residual oil, equal to 3 ppm max. This block houses oil filter, oil separation filter, minimum pressure valve, safety valve, oil thermostat and check valve.

Suction valve

Improved fluid-mechanical efficiency is ensured by a new vertical design suction valve. Intake-air flows through a straight-line path, which guarantees lower load loss. ON / OFF operation and unloading is controlled via a solenoid valve. This valve concept has been specially designed to keep the number of components to a minimum, so as to ensure long-lasting durability and low maintenance requirements.

Transmission

The pre-tested belt transmission is installed with balanced cast iron pulleys and bevel bearing. Belts are of quality construction to ensure the utmost reliability. The belt tensioning system has been simplified thanks to a single adjustment screw, which guarantees easier control and replacement.

Standard equipment

- Star / Delta start (Premium versions)
- C-PRO 1.0 control unit (Premium versions)
- Overload relay
- Start / Stop control key with pressure switch (KA2-KA5)
- Start / Stop push-button. ON / OFF main switch (premium versions)
- IE 3 electric motors, insulation class: F
- Oil level monitoring, visual level indicator
- Transmission belt
- Oil thermostat
- Safety devices for:
  – Motor overheating
  – Compressor overheating, automatic stop at 110 °C
- Indicators of the operating conditions:
  – Pressure
  – Hour meter
- Enclosure with epoxy powder coating

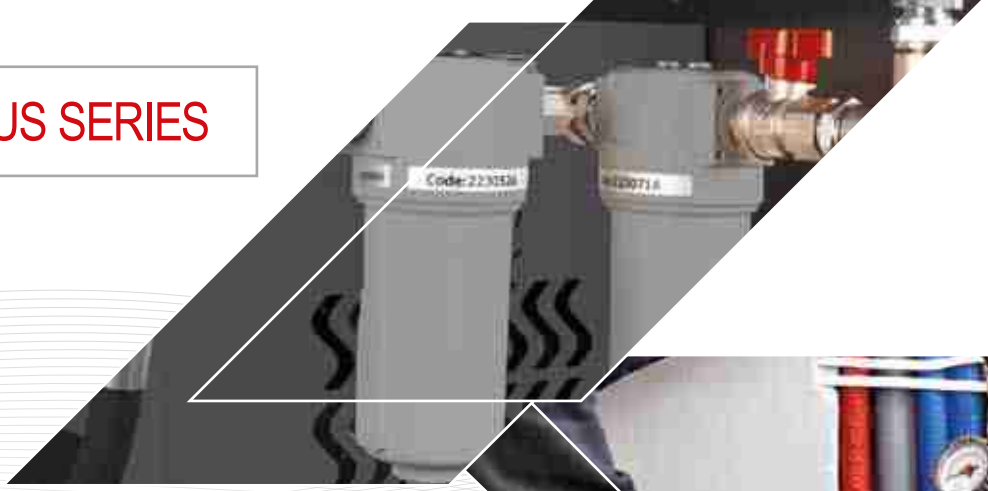
KA package compressors

with cooling cycle dryer, filters and tank

The KA package compressors can be easily and quickly installed in any environment.

Optional

A series of options are available to ensure a complete and integrated solution. The KA Package compressors can be fitted with a kit of filters complete with by-pass, which guarantee that air is treated before entering the plant, in turn reducing the creation of condensate in the network.



flexiDry

CT: Energy saving refrigeration dryers

With the introduction of CT, the new generation of energy-saving refrigeration dryers, our industry not only redeveloped its product offering for the compressed air treatment but also the concept of thermal storage operation, that led to the international success of the CT dryers. The new FlexiDry offers important advantages in terms of energy saving, reliability and operating costs as the CT dryer is able to adapt itself to the real needs of the compressed air system. The dryers regulation system controls the dryer operation, ensuring the most effective method of compressed air drying, in turn achieving high energy saving and excellent dew point stability in dynamic conditions.

- New high efficiency heat exchanger
- Highest energy savings
- Minimum pressure drops
- Lowest environmental impact
- Reduced carbon footprint
- Easy installation
- Easy serviceability
- Maximum reliability

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**

KA 2 – 5 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 5.5kW – IE3

KA SERIES CODE	TYPE	KA 2 CMP1026757B1	KA 3 CMP1026766B1	KA 4 CMP1026767B1	KA 5 CMP1026756B1
Maximum pressure	bar	10	10	10	10
Capacity at maximum pressure	m^3/min	0.24	0.36	0.53	0.67
Drive motor IP 55 / class F – IE3	kW	2.2	3	4	5.5
Operating voltage, 50 – 60Hz	380 – 400V	•	•	•	•
Noise level	dB(A)	61	61	62	66
Air cooled		•	•	•	•
Weight	kg	106	106	106	119
Dimensions [L x W x H]	mm	620 x 600 x 840	620 x 600 x 840	620 x 600 x 840	620 x 600 x 840
OUT BSP		1/2"	1/2"	1/2"	1/2"
COMPRESSOR MOUNTED ON 270 LT TANK					
Code		**CMP1026758B1**	**CMP1026759B1**	**CMP1026760B1**	**CMP1026761B1**
Weight	kg	191	191	191	204
Dimensions [L x W x H]	mm	1,540 x 600 x 1,400	1,540 x 600 x 1,400	1,540 x 600 x 1,400	1,540 x 600 x 1,400
COMPRESSOR MOUNTED ON 500 LT TANK					
Code		–	–	**CMP1026739B1**	**CMP1026740B1**
Weight	kg	–	–	251	264
Dimensions [L x W x H]	mm	–	–	1,950 x 680 x 1,520	1,950 x 680 x 1,520
PACKAGE VERSION, KA / CT / 270[1]					
Code		**CMP1026762BE2**	**CMP1026763BE2**	**CMP1026764BE2**	**CMP1026765BE2**
Weight	kg	213	213	220	231
Dimensions [L x W x H]	mm	1,540 x 600 x 1,400	1,540 x 600 x 1,400	1,540 x 600 x 1,400	1,540 x 600 x 1,400
PACKAGE VERSION, KA / CT / 500[1]					
Code		–	–	**CMP1026741BE2**	**CMP1026742BE2**
Weight	kg	–	–	280	291
Dimensions [L x W x H]	mm	–	–	1,950 x 680 x 1,520	1,950 x 680 x 1,520
PREMIUM VERSION (COMPLETE WITH C-PRO 1.0 ELECTRONIC CONTROLLER) COMPRESSOR BASE LOAD					
Code		–	–	**CMP1031244B1**	**CMP1031242B1**
COMPRESSOR MOUNTED ON 270 LT TANK					
Code		–	–	**CMP1034065B1**	**CMP1034068B1**
COMPRESSOR MOUNTED ON 500 LT TANK					
Code		–	–	**CMP1034066B1**	**CMP1034069B1**
PACKAGE VERSION, KA / CT / 270[1]					
Code		–	–	**CMP1034071BE2**	**CMP1034074BE2**
PACKAGE VERSION, KA / CT / 500[1]					
Code		–	–	**CMP1034072BE2**	**CMP1034075BE2**

OPTIONAL	
Alternative voltage, 230V / 50 – 60Hz[3]	
Alternative voltage, 230V / 50Hz 1 – phase	
Filter Kit with bypass for dryer CT[2] ***installed***	**CC1175671**
Filter Kit with bypass for dryer CT[2] ***installed***	**CC1175672**
Anti-corrosion % on net price	
SERVICE & PARTS	
Service Kit for every 4000h or 12 months	**CC1089649**
Service Kit for every 8000h or 24 months	**CC1089650**
ChampLUBE Screw Lubricant 5 Ltr	**CC1180019**

[1] Compressor mounted on tank with refrigeration cycle dryer (CT).
Dew point + 3° C with compressor air inlet temperature + 35° and per ISO 7183

[2] Kit includes PRE FILTER, COALESCENT FILTER and BY–PASS

[3] Only for KA 2–3 and KA 4–5 Premium

KA - KA PLUS SERIES

KA 7 Plus Series: Screw Compressors

Design: Oil flooded, Single stage rotary screw compressor, belt drive, star / delta starting
Pressure Range: 8 to 13 bar
Electric motor: 7.5kW – IE3

KA SERIES	TYPE	KA 7 PLUS		
CODE		CMP1053384	CMP1053385	CMP1053386
Maximum pressure	bar	8	10	13
Capacity at maximum pressure	m^3/min	1.12	0.95	0.74
Drive motor IP 55 / class F - IE3	kW	7.5	7.5	7.5
Operating voltage, 50 – 60Hz	380 – 400V	•	•	•
Control voltage (premium version)	24V	•	•	•
C-PRO 1.0 electronic controller, load / unload		•	•	•
Noise level	dB(A)	67	67	67
Air cooled		•	•	•
After-cooler		•	•	•
Weight	kg	148	148	148
Dimensions [L x W x H]	mm	680 x 600 x 1,160	680 x 600 x 1,160	680 x 600 x 1,160
OUT BSP		3/4"	3/4"	3/4"
COMPRESSOR MOUNTED ON 270 LT TANK				
Code		**CMP1053387**	**CMP1053388**	**CMP1053389**
Weight	kg	233	233	233
Dimensions [L x W x H]	mm	1,540 x 600 x 1,560	1,540 x 600 x 1,560	1,540 x 600 x 1,560
COMPRESSOR MOUNTED ON 500 LT TANK				
Code		**CMP1053390**	**CMP1053391**	**CMP1053393**
Weight	kg	293	293	293
Dimensions [L x W x H]	mm	1,950 x 680 x 1,635	1,950 x 680 x 1,635	1,950 x 680 x 1,635
PACKAGE VERSION, KA / CT / 270[1]				
Code		**CMP1053394BE2**	**CMP1053395BE2**	**CMP1053396BE2**
Weight	kg	262	262	262
Dimensions [L x W x H]	mm	1,540 x 600 x 1,560	1,540 x 600 x 1,560	1,540 x 600 x 1,560
PACKAGE VERSION, KA / CT / 500[1]				
Code		**CMP1053397BE2**	**CMP1053398BE2**	**CMP1053399BE2**
Weight	kg	322	322	322
Dimensions [L x W x H]	mm	1,950 x 680 x 1,635	1,950 x 680 x 1,635	1,950 x 680 x 1,635

OPTIONAL		
Alternative voltage, 230V / 50 – 60Hz		
Filter Kit with bypass for dryer CT[2]	***installed***	**CC1175672**
Extended 5 year warranty		**CC1180791**
Anti-corrosion % on net price		
SERVICE & PARTS		
Service Kit for every 4000h or 12 months		**CC1125190**
Service Kit for every 8000h or 24 months		**CC1125192**
ChampLUBE Screw Lubricant 5 Ltr		**CC1180019**

Compressor mounted on tank with refrigeration cycle dryer (CT).
Dew point + 3° C with compressor air inlet temperature + 35° and per ISO 7183
[2] Kit includes PRE FILTER, COALESCENT FILTER and BY-PASS
* Service intervals are defined by calendar months or operating hours, whichever occurs first. In dirty ambient conditions service interval must be halved.

Notes

RELIABLITY AS A STANDARD

At a glance…

Nominal Pressure
7.5 - 13 bar g

Motor Power
11kW

Volume Flow
0.46 - 1.65 m^3/min

KSA Plus & KSV Screw Compressors up to 45ºC ambient temperature

The generously sized ventilation system ensures optimum cooling and achieves an outlet temperature of only 8-10°C above ambient

High efficiency airend

The airend has been designed with focus on reliability and efficiency. The rotors are accurately and thoroughly checked and measured by a computerised control system.

KSA & KSV 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

C-PRO 1.0 control unit

The C-PRO 1.0 electronic controller provides the user with data on total hours of operation, operating temperature and additional information such as:

- Air filter replacement
- Oil filter replacement
- Separator filter replacement
- Oil change
- Regular maintenance advice
- Pressure setting adjustment via the controller

Noise levels

Thanks to the innovative design the compressors feature low noise levels between 63-69 dB(A) and can be positioned at the point of use.

Suction valve

Improved fluid-mechanical efficiency is ensured by a new vertical design suction valve. Intake-air flows through a straight-line path, which guarantees lower load loss. ON / OFF operation and unloading is controlled via a solenoid valve. This valve concept has been specially designed to keep the number of components down to a minimum, so as to ensure long-lasting durability and low maintenance requirements.

Air/Oil separation

Increased reliability combined with reduced piping & connections is made possible by an integrated block acting as air / oil separator and filter. It is so efficient that it keeps residual oil down to extremely low levels (MAX 3ppm). Housed in this block are an oil filter, an air/oil separator filter, a minimum pressure valve and a safety valve.

Standard equipment

- Star / Delta start
- C-PRO 1.0 control unit
- Overload relay
- ON / OFF main switch
- IP55, IE 3 electric motors, insulation class: F
- Oil level monitoring, visual level indicator
- Transmission belt
- Oil thermostat
- Safety devices for:
  – Motor overheating
  – Compressor overheating, automatic stop at 110°C
- Indicators of the operating conditions:
  – Pressure
  – Hour meter
- Enclosure with epoxy powder coating

KSV flexiAIR

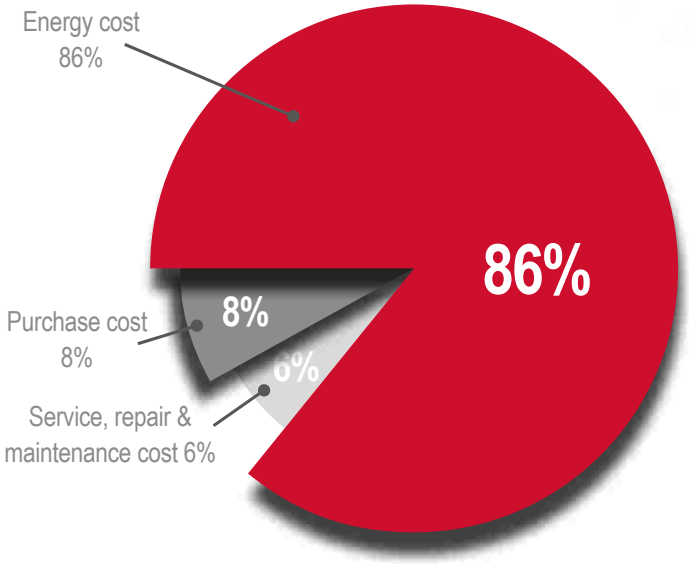
Variable Speed Technology

= Energy savings and lower CO_2 emissions into the environment.

The variable speed compressor: One smart solution

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

Cost of compressed air over 5 years



KSV flexiAIR Variable Speed Technology

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

The intelligent C-MASTER controller

Simplicity

The C-MASTER controller was designed to make the operators' interface with the variable speed drive transparent. 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.

Communication & Sequencing

The optional communication module allows the KSV Series units to talk to each other and other compressors to optimise system efficiency. This isn't just an hour balancing, ON / OFF sequencing scheme. Our controller allows the system to truly optimise efficiency because it knows the capabilities of other machines and orchestrates their operation.

Easy maintenance

These compressors are designed to ensure easy access to maintenance points. All 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.

Technical data

KSA 11 Plus Series: Screw Compressors

Design: Oil flooded, Single stage rotary screw compressor, belt drive, star / delta starting
Pressure Range: 8 to 13 bar
Electric motor: 11kW – IE3

KSA SERIES	TYPE	KSA 11		
CODE		CMP1091158N	CMP1091159N	CMP1091160N
Maximum pressure	bar	8	10	13
Capacity at maximum pressure	m^3/min	1.65	1.50	1.15
Drive motor IP 55 / class F - IE3	kW	11	11	11
Operating voltage, 50Hz	400V / 50Hz	•	•	•
Control voltage	24V	•	•	•
Noise level	dB(A)	66	66	66
Air cooled		•	•	•
After-cooler		•	•	•
C-PRO 1.0 electronic controller, load / unload		•	•	•
Weight	kg	243	243	243
Dimensions [L x W x H]	mm	960 x 740 x 1,090	960 x 740 x 1,090	960 x 740 x 1,090
OUT BSP		3/4"	3/4"	3/4"

KSA ON 500 LT TANK				
Code		**CMP1091220N**	**CMP1091221N**	**CMP1091222N**
Weight	kg	388	388	388
Dimensions [L x W x H]	mm	1,960 x 740 x 1,725	1,960 x 740 x 1,725	1,960 x 740 x 1,725

KSA / CT / 500[1]				
Code		**CMP1091265N**	**CMP1091266N**	**CMP1091267N**
Weight	kg	426	426	426
Dimensions [L x W x H]	mm	1,960 x 740 x 1,725	1,960 x 740 x 1,725	1,960 x 740 x 1,725

OPTIONAL	
Alternative voltage, 230V / 50 - 60Hz	
Alternative voltage, 380V / 60Hz [± 5%]	
Filter Kit for dryer CT ***installed***	**CC1149479**
Extended 5 year warranty	**CC1180791**
Anti-corrosion % on net price	
SERVICE & PARTS	
Service Kit for every 4000h or 12 months	**CC1089657**
Service Kit for every 8000h or 24 months	**CC1089658**
ChampLUBE Screw Lubricant 5 Ltr (2 x 5 litres needed)	**CC1180019 x 2**

[1] Compressor mounted on tank with refrigeration cycle dryer. Dew point + 3°C with compressor air inlet temperature + 35° and per ISO 7183

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

KSA PLUS FIXED SPEED, KSV VARIABLE SPEED

KSV 11 Series: Screw Compressors

Design: Oil flooded, Single stage rotary screw compressor, belt drive
Pressure Range: 5 to 13 bar
Electric motor: 11kW – IE3

SERIES KSV	TYPE	KSV 11		
CODE		CMP1091158V	CMP1091159V	CMP1091160V
Maximum pressure	bar	7.5	10	13
Capacity at maximum pressure	m^3/min	1.65	1.50	1.15
Drive motor IP 55 / class F - IE3	kW	11	11	11
Operating voltage, 50Hz	380 – 400 – 460V	•	•	•
Control voltage	24V	•	•	•
Noise level at 70% load	dB(A)	63	63	63
Air cooled		•	•	•
After-cooler		•	•	•
C-MASTER controller		•	•	•
Weight	kg	302	302	302
Dimensions [L x W x H]	mm	1,250 x 740 x 1,090	1,250 x 740 x 1,090	1,250 x 740 x 1,090
OUT BSP		3/4"	3/4"	3/4"

KSV ON 500 LT TANK				
Code		**CMP1091220V**	**CMP1091221V**	**CMP1091222V**
Weight	kg	447	447	447
Dimensions [L x W x H]	mm	1,960 x 740 x 1,725	1,960 x 740 x 1,725	1,960 x 740 x 1,725
KSV / CT / 500[1]				
Code		**CMP1091265V**	**CMP1091266V**	**CMP1091267V**
Weight	kg	486	486	486
Dimensions [L x W x H]	mm	1,960 x 740 x 1,725	1,960 x 740 x 1,725	1,960 x 740 x 1,725

OPTIONAL	
Filter Kit for KSA11 - CT[2] ***installed***	
Extended 5 year warranty	**CC1180791**
C-MASTER communication module kit	
Anti-corrosion % on net price	
SERVICE & PARTS	
Service Kit for every 4000h or 12 months	**CC1089657**
Service Kit for every 8000h or 24 months	**CC1089658**
ChampLUBE Screw Lubricant 5 Ltr (2 x 5 litres needed)	**CC1180019 x 2**

[1] Compressor mounted on tank with refrigeration cycle dryer. Dew point + 3°C with compressor air inlet temperature + 35° and per ISO 7183

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

Notes

KSB / KBV SCREW COMPRESSORS

At a glance…

Nominal Pressure
8 - 13 bar g

Motor Power
15 - 22kW

Volume Flow
0.85 - 3.33 m^3/min

BroomWade fixed and variable speed screw compressors are the right solution for the industrial needs of small and medium sized companies

The complete range is designed for continuous use even under harsh conditions, paying particular attention to modularity, performance, energy efficiency, low operating and maintenance costs, plus ease of installation and use.

More than just a financial investment, compressors are a key component in manufacturing processes and BroomWade delivers consistent, high quality, low cost air.

Up to 45°C ambient temperature

The generously sized ventilation system assures optimum cooling and achieves an outlet temperature of only 8-10°C above ambient.

The highly efficient and ultra-compact heat exchanger is able to operate effectively in ambient temperatures up to 45°C.

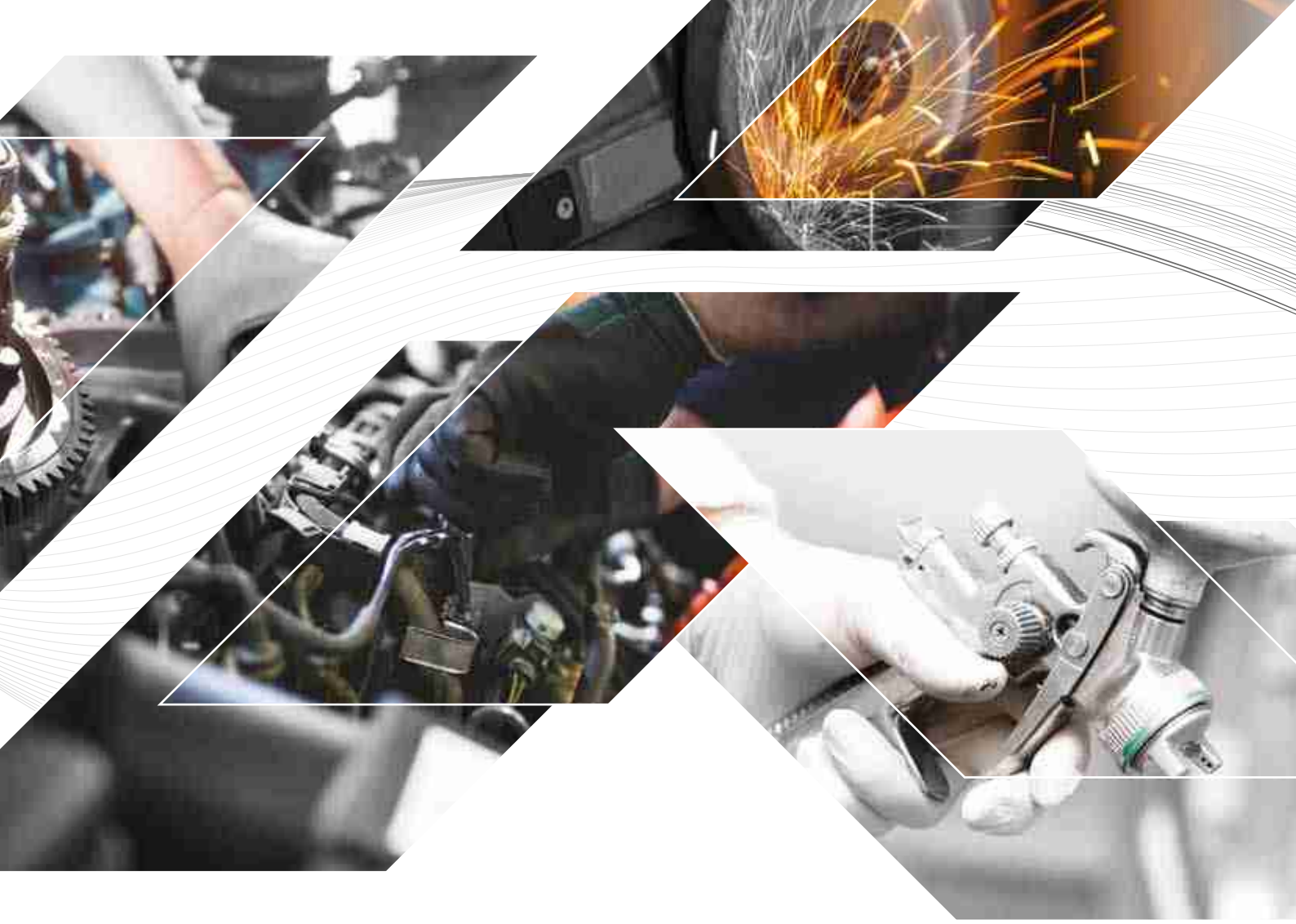
New integrated airend

- High efficiency
- Low rotation speed
- Low energy costs
- Oil separator, oil filter, by-pass thermostatic valve integrated in the airend unit
- Reduced number of hoses

KSB & KBV package compressors with dryer and tank

This configuration offers the ability to provide an integrated generation station along with a compressed air treatment.

- Easy to install
- Ready to use
- Small footprint



C-PRO 1.0 control unit

This electronic control unit is easy to use and allows the compressor to be fully managed. Controlled elements include the star-delta motor, the rotation direction, the ON / OFF operation with automatic discharge of pressure when the machine is stopped, all remote controls, all protection and warning alarms, in addition to a complete series of messages connected with ordinary maintenance.

Housing

The housing consists of a solid palletised base for easy handling and a structure made of fully removable panels for easy access. The panels are completely lined internally with closed-cell acoustic material.

Noise levels

Thanks to the innovative design the compressors feature low noise levels and can be positioned at the point of use.

Suction valve

Improved fluid-mechanical efficiency is ensured by a new vertical design suction valve. Intake-air flows through a straight-line path, which guarantees lower load loss. ON / OFF operation and unloading is controlled via a solenoid valve. This valve concept has been specially designed to keep the number of components to a minimum, ensuring long-lasting durability and low maintenance requirements.

Automatic belt tension

Automatic tensioner for long life of the belt, less maintenance and noise reduction.

Air/Oil separation

The air / oil separator and filter integrated in the airend unit ensure the oil carry over is kept to extremely low levels of max 3ppm.

KBV

flexiAIR Variable Speed Technology

= Energy savings and lower CO_2 emissions into the environment.

The result is an extremely quiet and environment friendly compressor with reduced power consumption.

FlexiAir the correct response to changing air demand

Electrical components

The KBV range incorporates market-leading electrical components including IP 55 electric motors (class F).

C-Master™ controller

Complete, simple and intuitive. Combined with our inverter, provides excellent energy savings.

Inverter

Generously sized and reliable - the result of our extensive experience.

The intelligent C-MASTER controller

Simplicity

The C-MASTER controller was designed to make the operators' interface with the variable speed drive transparent. 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.

Communication & Sequencing

The optional communication module allows the KSV Series units to talk to each other and other compressors to optimise system efficiency. This isn't just an hour balancing, on/off sequencing scheme. Our controller allows the system to truly optimise efficiency because it knows the capabilities of other machines and orchestrates their operation.

Easy maintenance

These compressors are designed to ensure easy access to maintenance points. All 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 variable speed compressor: One smart solution

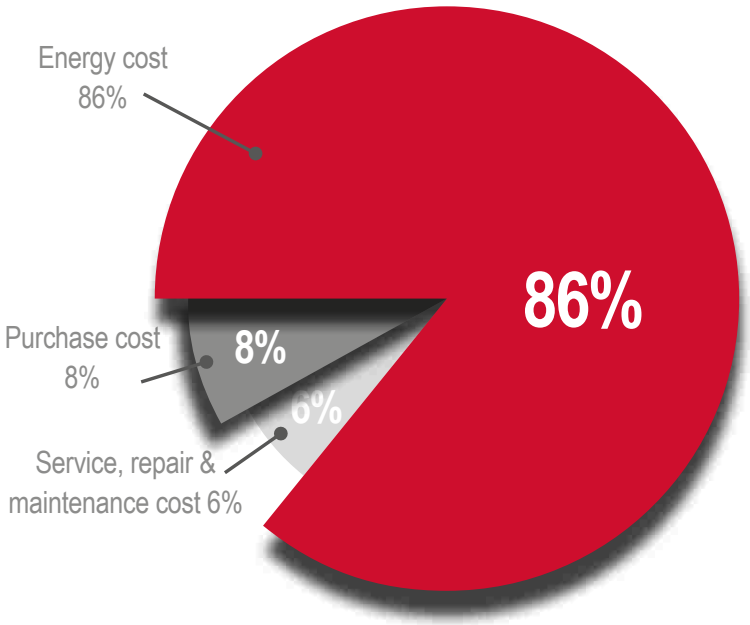
Variable speed compressors can efficiently and reliably handle the varying air demand found in most plant air systems. These compressors speed up and slow down to match air supply to air demand as it fluctuates. The right variable speed compressor in the right application delivers significant energy 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	4,495.00	5,990.00	7,490.00	8,985.00	10,483.00	11,980.00
18	5,540.00	7,390.00	9,235.00	11,080.00	12,930.00	14,775.00
22	6,590.00	8,785.00	10,980.00	13,180.00	15,375.00	17,570.00

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



KBV flexiAIR Variable Speed Technology

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

KSB 15 Series: Screw Compressors

Design: Oil flooded, Single stage rotary screw compressor, belt drive, star / delta starting

Pressure Range: 8 to 13 bar

Electric motor: 15kW - IE3

KSB SERIES	TYPE	KSB 15		
CODE		CMP1162259	CMP1162260	CMP1162261
Maximum pressure	bar	8	10	13
Capacity at maximum pressure	m^3/min	2.40	2.26	1.80
Drive motor IP 55 / class F - IE3	kW	15	15	15
Operating voltage, 50Hz	400V / 50Hz	•	•	•
Control voltage	24V	•	•	•
Noise level	dB(A)	72	72	72
Air cooled		•	•	•
After-cooler		•	•	•
C-PRO 1.0 electronic controller, load / unload		•	•	•
Weight	kg	335	335	335
Dimensions [L x W x H]	mm	859 x 689 x 1,210	859 x 689 x 1,210	859 x 689 x 1,210
OUT BSP		1"	1"	1"

KSB / CT / 500[1]				
Code		**CMP1162505**	**CMP1162506**	**CMP1162507**
Weight	kg	525	525	525
Dimensions [L x W x H]	mm	1,964 x 812 x 1,805	1,964 x 812 x 1,805	1,964 x 812 x 1,805

OPTIONAL		
Alternative voltage, 380V / 60Hz (± 5%)		
Filter Kit with bypass for dryer	***installed***	**CC1177647**
Oil heater kit		
Extended 5 year warranty		**CC1180791**
Anti-corrosion % on net price		
SERVICE & PARTS		
Service kit for every 4000h or 12 Months		**CC1178518**
Service kit for every 8000h or 24 months		**CC1180296**
ChampLUBE Screw Lubricant 5 Ltr (2 x 5 litres needed)		**CC1180019 x 2**

[1] Compressor mounted on tank with refrigeration cycle dryer. Dew point + 3°C with compressor air inlet temperature + 35° and per ISO 7183

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

KSB FIXED SPEED - KBV VARIABLE SPEED

KSB 18 – 22 Series: Screw Compressors

Design: Oil flooded, Single stage rotary screw compressor, belt drive, star / delta starting
Pressure Range: 8 to 13 bar
Electric motor: 18.5 to 22kW - IE3

KSB SERIES	TYPE	KSB 18			KSB 22		
CODE		CMP1162262	CMP1162263	CMP1162264	CMP1162265	CMP1162266	CMP1162267
Maximum pressure	bar	8	10	13	8	10	13
Capacity at maximum pressure	m^3/min	3.00	2.74	2.34	3.23	3.21	2.61
Drive motor IP 55 / class F - IE3	kW	18.5	18.5	18.5	22	22	22
Operating voltage, 50Hz	400V / 50Hz	•	•	•	•	•	•
Control voltage	24V	•	•	•	•	•	•
Noise level	dB(A)	73	73	73	74	74	74
Air cooled		•	•	•	•	•	•
After-cooler		•	•	•	•	•	•
C-PRO 1.0 electronic controller, load / unload		•	•	•	•	•	•
Weight	kg	361	361	361	367	367	367
Dimensions [L x W x H]	mm	859 x 689 x 1,210	859 x 689 x 1,210	859 x 689 x 1,210	859 x 689 x 1,210	859 x 689 x 1,210	859 x 689 x 1,210
OUT BSP		1"	1"	1"	1"	1"	1"

KSB / CT / 500[1]							
Code		**CMP1162508**	**CMP1162509**	**CMP1162510**	**CMP1162511**	**CMP1162512**	**CMP1162513**
Weight	kg	551	551	551	557	557	557
Dimensions [L x W x H]	mm	1,964 x 812 x 1,805	1,964 x 812 x 1,805	1,964 x 812 x 1,805	1,964 x 812 x 1,805	1,964 x 812 x 1,805	1,964 x 812 x 1,805

OPTIONAL	
Alternative voltage, 380V / 60Hz (± 5%)	
Filter Kit with bypass for dryer ***installed***	**CC1177647**
Oil heater kit	
Extended 5 year warranty	**CC1180791**
Anti-corrosion % on net price	
SERVICE & PARTS	
Service kit for every 4000h or 12 Months	**CC1178518**
Service kit for every 8000h or 24 months	**CC1180296**
ChampLUBE Screw Lubricant 5 Ltr (2 x 5 litres needed)	**CC1180019 x 2**

[1] Compressor mounted on tank with refrigeration cycle dryer. Dew point + 3°C with compressor air inlet temperature + 35° and per ISO 7183

KBV 15 Series: Variable Speed Screw Compressors

Design: Oil flooded, Single stage rotary screw compressor, belt drive, star / delta starting
Pressure Range: 5 to 13 bar
Electric motor: 15kW - IE3

KBV SERIES	TYPE	KBV 15		
CODE		CMP1162259V	CMP1162260V	CMP1162261V
Target pressure	bar	8	10	13
Capacity at target pressure	m^3/min	2.43	2.15	1.66
Drive motor IP 55 / class F - IE3	kW	15	15	15
Operating voltage, 50 – 60Hz	380 – 400 – 460V	•	•	•
Control voltage	24V	•	•	•
Noise level at 100% load	dB(A)	72	72	72
Air cooled		•	•	•
After-cooler		•	•	•
C-MASTER controller		•	•	•
Weight	kg	335	335	335
Dimensions [L x W x H]	mm	859 x 689 x 1,210	859 x 689 x 1,210	859 x 689 x 1,210
OUT BSP		1"	1"	1"

KBV / CT / 500[1]				
Code		CMP1162505V	CMP1162506V	CMP1162507V
Weight	kg	525	525	525
Dimensions [L x W x H]	mm	1,964 x 812 x 1,805	1,964 x 812 x 1,805	1,964 x 812 x 1,805

OPTIONAL		
Filter Kit with bypass for dryer[2]	***installed***	**CC1177647**
Oil heater kit		
C-MASTER communication module kit		
Extended 5 year warranty		**CC1180791**
Anti-corrosion % on net price		
SERVICE & PARTS		
Service kit for every 4000h or 12 months		**CC1178518**
Service kit for every 8000h or 24 months		**CC1180296**
ChampLUBE Screw Lubricant 5 Ltr (2 x 5 litres needed)		**CC1180019 x 2**

[1] Compressor mounted on tank with refrigeration cycle dryer. Dew point + 3°C with compressor air inlet temperature + 35° and per ISO 7183
[2] Kit includes PRE FILTER, COALESCENT FILTER and AUTOMATIC DRAIN
* Service intervals are by calendar months or operating hours, whichever occurs first. In dirty ambient conditions service interval must be halved.

KSB FIXED SPEED - KBV VARIABLE SPEED

KBV 18 – 22 Series: Variable Speed Screw Compressors

Design: Oil flooded, Single stage rotary screw compressor, belt drive
Pressure Range: 5 - 13 bar
Electric motor: 18 to 22kW - IE3

KBV SERIES	TYPE	KBV 18			KBV 22		
CODE		CMP1162262V	CMP1162263V	CMP1162264V	CMP1162265V	CMP1162266V	CMP1162267V
Target pressure	bar	8	10	13	8	10	13
Capacity at target pressure	m^3/min	2.78	2.60	2.18	3.22	3.08	2.61
Drive motor IP 55 / class F - IE3	kW	18	18	18	22	22	22
Operating voltage, 50 – 60Hz	380 – 400 – 460V	•	•	•	•	•	•
Control voltage	24V	•	•	•	•	•	•
Noise level at 100% load	dB(A)	73	73	73	74	74	74
Air cooled		•	•	•	•	•	•
After-cooler		•	•	•	•	•	•
C-MASTER controller		•	•	•	•	•	•
Weight	kg	361	361	361	367	367	367
Dimensions [L x W x H]	mm	859 x 689 x 1,210	859 x 689 x 1,210	859 x 689 x 1,210	859 x 689 x 1,210	859 x 689 x 1,210	859 x 689 x 1,210
OUT BSP		1"	1"	1"	1"	1"	1"

KBV / CT / 500[1]							
Code		CMP1162508V	CMP1162509V	CMP1162510V	CMP1162511V	CMP1162512V	CMP1162513V
Weight	kg	551	551	551	557	557	557
Dimensions [L x W x H]	mm	1,964 x 812 x 1,805	1,964 x 812 x 1,805	1,964 x 812 x 1,805	1,964 x 812 x 1,805	1,964 x 812 x 1,805	1,964 x 812 x 1,805

OPTIONAL		
Filter Kit with bypass for dryer[2]	***installed***	**CC1177647**
Oil heater kit		
C-MASTER communication module kit		
Extended 5 year warranty		**CC1180791**
Anti-corrosion % on net price		
SERVICE & PARTS		
Service kit for every 4000h or 12 months		**CC1178518**
Service kit for every 8000h or 24 months		**CC1180296**
ChampLUBE Screw Lubricant 5 Ltr (2 x 5 litres needed)		**CC1180019 x 2**

[1] Compressor mounted on tank with refrigeration cycle dryer. Dew point + 3°C with compressor air inlet temperature + 35° and per ISO 7183
[2] Kit includes PRE FILTER, COALESCENT FILTER and AUTOMATIC DRAIN
* Service intervals are defined by calendar months or operating hours, whichever occurs first. In dirty ambient conditions service interval must be halved.

Notes

EFFICIENT SCREW COMPRESSORS

At a glance…

Nominal Pressure
5 - 13 bar g

Motor Power
30 - 45kW

Volume Flow
0.71 - 7.01 m^3/min

Premium efficiency airend

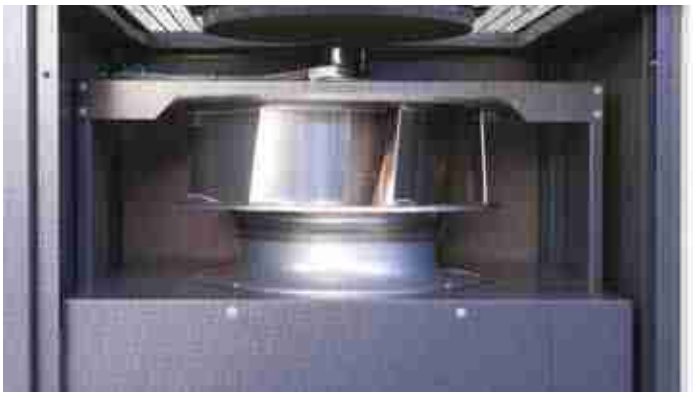
This compressor range includes a high efficiency premium quality airend ensuring highest reliability.

C-PRO 1.0

This electronic control unit is easy to use and allows the compressor to be fully managed. Controlled elements include, the star-delta motor, the rotation direction, the ON / OFF operation with automatic discharge of pressure when the machine is stopped, all remote controls, all protection and warning alarms, in addition to a complete series of messages connected with ordinary maintenance.

High efficiency cooling system

Thanks to the optimum cooling system, the compressor can work in high ambient temperatures of up to 45°C.



Low maintenance costs

The panel structure provides easy access from all sides. All the components such as - air cartridge, oil cartridge, air/oil separator, belts, oil fill and drain can be reached from a single side.

Low noise design

Due to the low noise levels the compressors can be installed at the point of use.

Belt transmission with automatic tensioning system

Equipped with POLY-V belt with automatic tensioning system, high flexibility, minimum diameter, suitable for high speed and providing 20,000 working hours - noiseless and maintenance free.

Valid for KSA 37-45 and KSV 30-45

flexiAIR
Variable Speed Technology

= Energy savings and lower CO_2 emissions into the environment.

The result is an extremely quiet and environment friendly compressor with reduced power consumption.

FlexiAir the correct response to changing air demand

Electrical components

The KBV range incorporates market-leading electrical components including IP 55 electric motors (class F).

C-MASTER controller

Complete, simple and intuitive. Combined with our inverter, provides excellent energy savings.

Inverter

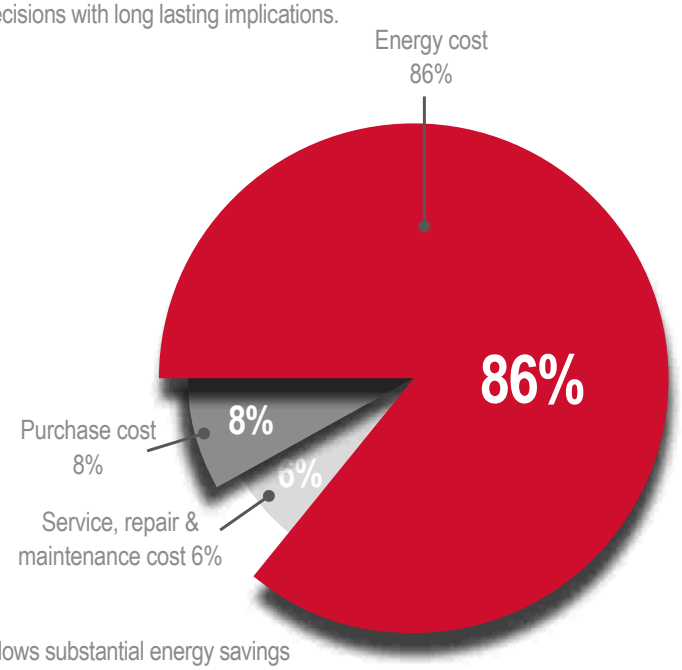
Generously sized and reliable - the result of our extensive experience.

Suction valve

Improved fluid-mechanical efficiency is ensured by a new vertical design suction valve. Intake air flows through a straight-line path, which guarantees lower load loss. ON / OFF operation and unloading is controlled via a solenoid valve. This valve concept has been specially designed to keep the number of components down to a minimum, so as to ensure long-lasting durability and low maintenance requirements.

The right solution saves you money

Compressed air is not free and has a big impact on plant productivity. The wrong air system is costly - in the form of excessive energy, repair and maintenance costs, downtime, poor compressed air quality, unacceptable noise levels and more. System design and compressor choice are important decisions with long lasting implications.



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

The **C-MASTER** controller orchestrating your compressed air system

Simplicity

The C-MASTER Controller was designed to make the operators' interface with the variable speed drive transparent. You don't need to be an expert on variable speed drives to operate our 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.

Communication & sequencing

The optional communication module allows the KSV Series units to talk to each other and other compressors to optimise system efficiency. This isn't just an hour balancing, ON / OFF sequencing scheme. Our controller allows the system to truly optimise efficiency because it knows the capabilities of other machines and orchestrates their operation.

Advanced display

The controller has a four line display with menus and tactile buttons for easy navigation. Two lines display operating information such as pressure, temperature, operating hours, etc. while the other two lines display advisory messages, shutdown messages and service contact information.

Valid for KSV models only

Maintenance is as easy as ever

Fast and easy service

These compressors are designed to ensure easy access to maintenance points. All 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.

Service network

Our large network of approved BroomWade dealers is always at your service to ensure the smooth running of your compressor and ensure the swift supply of replacement parts for different system needs.

Aftersales service

BroomWade offers a full range of aftersales services to fulfil all customer requirements. Using original and genuine parts will ensure customers save time and money over the life of the compressor.

Technical data

KSA 30 – 37 Series: Screw Compressors, Fixed Speed

Design: Oil flooded, Single stage rotary screw compressor, belt drive, star / delta starting
Pressure Range: 7.5 to 13 bar
Electric motor: 30 to 37kW - IE3

KSA SERIES	TYPE	KSA 30			KSA 37		
CODE		CMP1110088	CMP1110089	CMP1110090	CMP1110091	CMP1110092	CMP1110093
Maximum pressure	bar	7.5	10	13	7.5	10	13
Capacity at maximum pressure	m^3/min	5.00	4.19	3.43	6.35	5.65	4.71
Drive motor IP 55 / class F - IE3	kW	30	30	30	37	37	37
Operating voltage, 50Hz	400V / 50Hz	•	•	•	•	•	•
Control voltage	24V	•	•	•	•	•	•
Noise level	dB(A)	71	71	71	68	68	68
Air cooled		•	•	•	•	•	•
After-cooler		•	•	•	•	•	•
C-PRO 1.0 electronic controller	load / unload	•	•	•	•	•	•
Weight	kg	640	640	640	784	784	784
Dimensions [L x W x H]	mm	1,150 x 1,150 x 1,610	1,150 x 1,150 x 1,610	1,150 x 1,150 x 1,610	1,150 x 1,150 x 1,610	1,150 x 1,150 x 1,610	1,150 x 1,150 x 1,610
OUT BSP		1"	1"	1"	1 1/4"	1 1/4"	1 1/4"

KSA 45 Series: Screw Compressors, Fixed Speed

Design: Oil flooded, Single stage rotary screw compressor, belt drive, star / delta starting
Pressure Range: 7.5 to 13 bar
Electric motor: 45kW - IE3

KSA SERIES	TYPE	KSA 45		
CODE		CMP1110094	CMP1110095	CMP1110096
Maximum pressure	bar	7.5	10	13
Capacity at maximum pressure	m^3/min	7.01	6.10	5.20
Drive motor IP 55 / class F - IE3	kW	45	45	45
Operating voltage, 50Hz	400V / 50Hz	•	•	•
Control voltage	24V	•	•	•
Noise level	dB(A)	72	72	72
Air cooled		•	•	•
After-cooler		•	•	•
C-PRO 1.0 electronic controller	load / unload	•	•	•
Weight	kg	800	800	800
Dimensions [L x W x H]	mm	1,150 x 1,150 x 1,610	1,150 x 1,150 x 1,610	1,150 x 1,150 x 1,610
OUT BSP		1 1/4"	1 1/4"	1 1/4"

OPTIONAL	
Altern. voltage, 380V / 60Hz [±5%]	
Extended 5 year warranty	**CC1180793**
Anti-corrosion % on net price	
SERVICE & PARTS	
Service Kit for every 4000h or 12 months for KSA 30	**CC1121434**
Service Kit for every 8000h or 24 months for KSA 30	**CC1121435**
Service Kit for every 4000h or 12 months for KSA 37 - 45	**CC1121437**
Service Kit for every 8000h or 24 months for KSA 37 - 45	**CC1121438**
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.

KSA FIXED SPEED - KSV VARIABLE SPEED SERIES

KSV 30 – 37 Series: Variable Speed Screw Compressors

Design: Oil flooded, Single stage rotary screw compressor, belt drive
Pressure Range: 5 - 13 bar
Electric motor: 30 to 37kW - IE3

KSV SERIES CODE	TYPE	KSV 30			KSV 37		
		CMP1110088V	CMP1110089V	CMP1110090V	CMP1110091V	CMP1110092V	CMP1110093V
Maximum pressure	bar	7.5	10	13	7.5	10	13
Capacity at maximum pressure	m^3/min	5.09	4.48	3.76	5.91	5.01	4.26
Drive motor IP 55 / class F - IE3	kW	30	30	30	37	37	37
Operating voltage, 50Hz	400V / 50Hz	•	•	•	•	•	•
Control voltage	24V	•	•	•	•	•	•
Noise level at 100% load	dB(A)	63	63	63	66	66	66
Air cooled		•	•	•	•	•	•
C-Master controller		•	•	•	•	•	•
Weight	kg	760	760	760	820	820	820
Dimensions [L x W x H]	mm	1,150 x 1,150 x 1,610	1,150 x 1,150 x 1,610	1,150 x 1,150 x 1,610	1,150 x 1,150 x 1,610	1,150 x 1,150 x 1,610	1,150 x 1,150 x 1,610
OUT BSP		1"	1"	1"	1 1/4"	1 1/4"	1 1/4"

KSV 45 Series: Variable Speed Screw Compressors

Design: Oil flooded, Single stage rotary screw compressor, belt drive
Pressure Range: 5 - 13 bar
Electric motor: 45kW - IE3

KSV SERIES CODE	TYPE	KSV 45		
		CMP1110094V	CMP1110095V	CMP1110096V
Maximum pressure	bar	7.5	10	13
Capacity at maximum pressure	m^3/min	6.89	6.29	5.24
Drive motor IP 55 / class F - IE3	kW	45	45	45
Operating voltage, 50Hz	400V / 50Hz	•	•	•
Control voltage	24V	•	•	•
Noise level at 100% load	dB(A)	73	73	73
Air cooled		•	•	•
C-Master controller		•	•	•
Weight	kg	836	836	836
Dimensions [L x W x H]	mm	1,150 x 1,150 x 1,610	1,150 x 1,150 x 1,610	1,150 x 1,150 x 1,610
OUT BSP		1 1/4"	1 1/4"	1 1/4"

OPTIONAL	
Altern. voltage, 380V / 60Hz [± 5%]	
C-Master communication module kit	
Extended 5 year warranty	**CC1180793**
Anti-corrosion % on net price	
SERVICE & PARTS	
Service Kit for every 4000h or 12 months for KSV 30	**CC1121434**
Service Kit for every 8000h or 24 months for KSV 30	**CC1121435**
Service Kit for every 4000h or 12 months for KSV 37 - 45	**CC1121437**
Service Kit for every 8000h or 24 months for KSV 37 - 45	**CC1121438**
ChampLUBE Screw Lubricant 20 Ltr	**CC1180020**

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

Notes

KSA / KSV SCREW COMPRESSORS

At a glance…

Nominal Pressure
7.5 - 10.5 bar g

Motor Power
55 - 75kW

Volume Flow
3.12 - 13.8 m^3/min

The New Generation

Industries across the globe rely on BroomWade rotary screw compressors for the supply of high quality compressed air

The KSA / KSV 55-75 Series air compressor range incorporates the best of BroomWade technology, design and quality, to deliver reliable, economical and efficient performance in a completely new package.

High efficiency air end

KSA / KSV Series screw compression elements are manufactured in-house using the latest CNC rotor grinding machinery, coupled with on-line laser technology, in order to maintain precise manufacturing tolerances.

BroomWade's commitment to quality ensures KSA / KSV Series compressors offer the highest levels of reliability and performance with low operating costs throughout the compressor's life.

Maximum durability

We maximise service life and durability by eliminating elastomer and thermoplastic pipe and tube in system pressure lines, replacing them with corrosion resistant stainless steel tubing and passive zinc coated carbon steel piping. For ease of maintenance we complete the connection with viton sealed, grooved couplings and self-sealing high pressure compression fittings.

Optimised drive concept

With direct or gear drive coupling, the belt free drive KSA / KSV 55-75 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 enitre KSA / KSV 55-75 Series screw compressor range, reducing not only your power consumption but also your CO_2 emissions.

KSV flexiAIR
Variable Speed Technology

Variable speed technology allows substantial energy savings of at least 25% of the energy cost

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	16,500.00	22,000.00	27,500.00	33,000.00	38,500.00	44,000.00
75	22,500.00	30,000.00	37,500.00	45,000.00	52,500.00	60,000.00

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

Heavy duty inlet filter

Dirt and dust that enter the compressor can adversely impact lubricant and machine life. An inlet filter with an efficiency rating of 99% is standard equipment on the KSA / KSV Series compressor range.

C-MASTER controller

The control system ensures reliable operation and protects your investment by continuously monitoring the operational parameters, essential to reducing your running costs.

The controller also has the capability to have programmable inputs and outputs, control additional equipment, as well as providing the following features with clear readable instructions.

- Smart energy cost calculation
- Clear text indicator display
- Multiple languages
- Microprocessor controller
- Pressure, temperature & runtime display
- High temperature, high pressure & reverse-phase protection function
- Filter and oil change reminder
- Low 24V / DC control voltage.
- Intelligent protection in extreme environments
- Safe operation protection
- Multiple pressure/temperature input points
- Integrated sequence control (up to 8 compressors)
- RS-232 series communications for local monitoring
- Optional RS-485 ethernet communications for remote monitoring via Airbus485™ or Modbus RTU

Designed for serviceability

Maintenance personnel welcome the KSA / KSV 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.

KSA / KSV 55 - 75 SERIES

KSA 55 – 75 Series: Screw Compressors, Fixed Speed

Design: Oil flooded, Single stage rotary screw compressor, direct drive, star / delta starting
Pressure Range: 7.5 to 10.5 bar
Electric motor: 55 to 75kW - IE3

KSA SERIES	TYPE	KSA 55		KSA 75	
CODE		CMP1165281	CMP1165282	CMP1165283	CMP1165284
Maximum pressure	bar	7.5	10.5	7.5	10.5
Capacity at maximum pressure	m^3/min	10.7	9.5	13.8	12.3
Drive motor IP 55 / class F - IE3	kW	55	55	75	75
Operating voltage, 50Hz	400V / 50Hz	•	•	•	•
Control voltage	24V	•	•	•	•
Noise level	dB(A)	72	72	74	74
Air cooled		•	•	•	•
Electronic controller C-Master	load / unload	•	•	•	•
Weight	kg	1,400	1,400	1,450	1,450
Dimensions [L x W x H]	mm	2,100 x 1,300 x 1,580	2,100 x 1,300 x 1,580	2,100 x 1,300 x 1,580	2,100 x 1,300 x 1,580
OUT BSP		2"	2"	2"	2"

KSV 55 – 75 Series: Variable Speed Screw Compressors

Design: Oil flooded, Single stage rotary screw compressor, direct drive
Pressure Range: 5 to 10.5 bar
Electric motor: 55 to 75kW - IE3

KSV SERIES	TYPE	KSV 55		KSV 75	
CODE		CMP1164878		CMP1164879	
Maximum pressure	bar	7	10	7	10
Capacity at maximum pressure	m^3/min	10.7	9.0	13.8	12.1
Drive motor IP 55 / class F - IE3	kW	55	55	75	75
Operating voltage, 50 Hz	400V / 50Hz	•	•	•	•
Control voltage	24V	•	•	•	•
Noise level at 100% load	dB(A)	73	73	75	75
Air cooled		•	•	•	•
After-cooler		•	•	•	•
C-Master electronic controller		•	•	•	•
Weight	kg	1,500	1,500	1,570	1,570
Dimensions [L x W x H]	mm	2,100 x 1,300 x 1,580	2,100 x 1,300 x 1,580	2,100 x 1,300 x 1,580	2,100 x 1,300 x 1,580
OUT BSP		2"	2"	2"	2"

OPTIONAL	
Altern. voltages 380V / 60Hz	
C-Master Communication Module Kit	
Extended 5 year warranty	**CC1180793**
SERVICE & PARTS	
Service Kit for every 4000h or 12 months for KSA 55-77	**CC1154033**
Service Kit for every 8000h or 24 months for KSA 55-75	**CC1154034**
Service Kit for every 4000h or 12 months for KSV 55-75	**CC1154035**
Service Kit for every 8000h or 24 months for KSV 55-77	**CC1154036**
ChampLUBE Screw Lubricant 20 Ltr (2 X 20 Litres needed)	**CC1180020 x 2**

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

Notes

PISTON COMPRESSORS

0.75 - 7.5 kW

- Coaxial version, single phase
- Belt driven, with canopy version
- Belt driven, three phase
- Pressure range 8 - 12 bar
- Electric motor 0.75kW - 7.5kW
- Voltage 230V & 400V


BroomWade
SILTEK S 500-75
BroomWade
BroomWade
LTA 500-75
BroomWade
BroomWade

RELIABLE, STRONG SUITABLE FOR PROFESSIONAL USES

At a glance…

Nominal Pressure
8 - 10 bar g

Motor Power
0.75 - 7.5kW

Volume Flow
0.105 - 1.070 m^3/min
3.7 - 38.8 cfm

Noise Level
61 - 80 dB(A)

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

This range of piston compressors includes:

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

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

Other important characteristics that distinguish this range of compressors are:

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

The series of piston compressors includes a vast range of solutions:

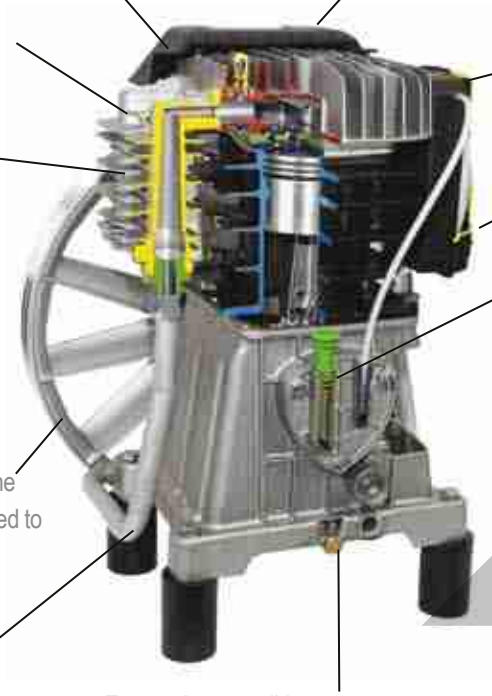
SUNNY: Compressors from 1.5 to 7.5kW on tank and silent version. This range includes models for non-heavy duty use.

POLAR: Compressors from 1.5 to 7.5kW on tank and silent version. This range satisfies the needs of the most demanding end users and differing applications and industries.

BroomWade: The technical reference

- Cast iron cylinders
- Equipped with pressure regulator
- Motors equipped with thermal protection
- Versions with direct or star/delta start
- Compressor self-ventilated by a fan keyed onto the drive shaft
- Efficient air filter
- Low working temperature for better durability
- Low noise level
- Filled with CLS2000 synthetic oil which improves performances and overall reliability

BroomWade: The reliability of authentic pistons



All our compressors are equipped with authentic high-quality pistons for a longer working life and better performance.

Oil free: A small model for particular uses, guarantees air free from impurities. Made entirely of die-cast aluminum with valves in special stainless steel.

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

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

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

Principal characteristics:

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

Technical data

Direct Drive Piston Compressors
Single Phase Oil Free

Design: Direct drive, single phase
Pressure Range: 8 - 10 bar
Electric motor: 1.1 to 2.2kW
Voltage: 230V / 50Hz

MODEL	SERIES	START	VOLTAGE	m^3/min	CFM	STAGE	PISTON	HP	kW	RPM	BAR	TANK	dB(A)	DIMENSIONS [L x W x H]	KG	CODE	KIT NO.
OF-6-15	Polar	DOL	230	0.160	5.66	1	1	1.5	1.1	2450	8	6	68	330 x 117 x 450	10	**CC1141995**	1
VS-20-25	Polar	DOL	230	0.240	8.49	1	1	2.5	1.8	1420	10	20	70	520 x 430 x 790	45	**CC1142154**	6
F-50-3	Polar	DOL	230	0.320	11.31	1	2	3	2.2	2500	8	50	70	800 x 420 x 700	25	**CC1142157**	7

Direct Drive Piston Compressors
Single Phase Lubricated

Design: Direct drive, single phase
Pressure Range: 8 - 10 bar
Electric motor: 1.1 to 2.2kW
Voltage: 230V / 50Hz

MODEL	SERIES	START	VOLTAGE	m^3/min	CFM	STAGE	PISTON	HP	kW	RPM	BAR	TANK	dB(A)	DIMENSIONS [L x W x H]	KG	CODE	KIT NO.
G-24-15	Polar	DOL	230	0.161	5.7	1	1	1.5	1.1	2850	8	24	68	610 x 320 x 590	18	**CC1182621**	1
G-50-15	Polar	DOL	230	0.161	5.7	1	1	1.5	1.1	2850	8	50	68	800 x 420 x 700	22	**CC1182622**	1
G-24-2	Polar	DOL	230	0.140	4.95	1	1	2	1.5	2850	8	24	80	610 x 310 x 580	24	**CC1142145**	2
G-50-2	Polar	DOL	230	0.140	4.95	1	1	2	1.5	2850	8	50	80	770 x 430 x 660	32	**CC1142155**	2
G-50-25	Polar	DOL	230	0.250	8.84	1	1	2.5	1.8	2850	8	50	76	940 x 320 x 700	49	**CC1142156**	3
V-20-25	Polar	DOL	230	0.290	10.25	1	2	2.5	1.8	1420	10	20	72	520 x 430 x 790	45	**CC1142153**	4
V-50-25	Polar	DOL	230	0.290	10.25	1	2	2.5	1.8	1420	10	50	77	1,070 x 320 x 780	60	**CC1142160**	5
V-20-3	Polar	DOL	230	0.421	14.85	1	2	3	2.2	2850	10	20	77	520 x 430 x 790	45	**CC1142146**	8
V-50-3	Polar	DOL	230	0.421	14.85	1	2	3	2.2	2850	10	50	77	1,070 x 320 x 780	62	**CC1142159**	8

Belt Driven Single Stage Piston Compressors
Single & Three Phase Phase Lubricated

Design: Belt driven version, single & three phase
Pressure Range: 10 bar
Electric motor: 1.5 to 4.4kW
Voltage: 230 - 400V / 50Hz

MODEL	SERIES	START	VOLTAGE	m^3/ min	CFM	STAGE	PISTON	HP	kW	RPM	BAR	TANK	dB(A)	DIMENSIONS [L x W x H]	KG	CODE	KIT NO.
MA-50-2	Sunny	DOL	230	0.290	10.25	1	2	2	1.5	1240	10	50	72	1,010 x 360 x 730	50	**CC1142272**	9
MA-100-2	Sunny	DOL	230	0.290	10.25	1	2	2	1.5	1240	10	100	72	1,100 x 400 x 830	80	**CC1142169**	9
MA-150-2	Sunny	DOL	230	0.290	10.25	1	2	2	1.5	1240	10	150	72	1,360 x 540 x 1,060	85	**CC1142231**	9
MAS-50-3	Sunny	DOL	230	0.350	12.37	1	2	3	2.2	1500	10	50	73	1,010 x 360 x 730	50	**CC1182681**	12
MA-50-3	Polar	DOL	230	0.350	12.37	1	2	3	2.2	1300	10	50	74	1,010 x 360 x 730	50	**CC1142164**	10
MA-90-3	Polar	DOL	230	0.370	13.08	1	2	3	2.2	1000	10	90	78	1,000 x 400 x 830	85	**CC1142165**	11
MAS-100-3	Sunny	DOL	230	0.350	12.37	1	2	3	2.2	1500	10	100	73	1,100 x 400 x 830	80	**CC1182682**	12
MA-100-3	Polar	DOL	230	0.350	12.37	1	2	3	2.2	1300	10	100	74	1,100 x 400 x 830	80	**CC1142170**	10
MAS-150-3	Sunny	DOL	230	0.350	12.37	1	2	3	2.2	1500	10	150	73	1,360 x 540 x 1,060	90	**CC1182683**	12
MA-150-3	Polar	DOL	230	0.350	12.37	1	2	3	2.2	1300	10	150	74	1,360 x 540 x 1,060	90	**CC1142171**	10
MAC-150-3	Polar	DOL	230	0.351	12.4	1	1	3	2.2	1500	10	150	74	1,360 x 540 x 1,020	90	**CC1182623**	10
MAB-150-3	Polar	DOL	230	0.351	12.4	1	1	3	2.2	1500	10	150	72	1,360 x 540 x 1,021	91	**CC182664**	10
MAS-200-3	Sunny	DOL	230	0.350	12.37	1	2	3	2.2	1500	10	200	73	1,460 x 640 x 1,140	98	**CC1142712**	12
MA-200-3	Polar	DOL	230	0.350	12.37	1	2	3	2.2	1300	10	200	74	1,460 x 640 x 1,140	102	**CC1142176**	10
MA-270-3	Sunny	DOL	230	0.350	12.37	1	2	3	2.2	1300	10	270	74	1,600 x 560 x 1,040	175	**CC1142232**	10
TAS-200-3	Sunny	DOL	400	0.350	12.37	1	2	3	2.2	1500	10	200	73	1,460 x 640 x 1,140	98	**CC1142713**	12
TA-200-3	Polar	DOL	400	0.350	12.37	1	2	3	2.2	1300	10	200	74	1,460 x 640 x 1,140	102	**CC1142177**	10
TA-200-6	Polar	DOL	230	0.646	22.8	1	1	3+3	2.2+2.2	1500	10	200	74	1,460 x 640 x 1,140	131	**CC1182675**	10(x2)

Belt Driven Piston Compressors
Three Phase Lubricated

Design: Belt driven version, three phase
Pressure Range: 10 to 15 bar
Electric motor: 3 to 7.5kW
Voltage: 400V / 50Hz

MODEL	SERIES	START	VOLTAGE	m^3/ min	CFM	STAGE	PISTON	HP	kW	RPM	BAR	TANK	dB(A)	DIMENSIONS [L x W x H]	KG	CODE	KIT NO.
TA-90-4	Polar	DOL	400	0.520	18.38	1	2	4	3	1300	10	90	78	1,000 x 400 x 830	85	**CC1142167**	13
TA-200-4	Polar	DOL	400	0.520	18.38	1	2	4	3	1300	10	200	78	1,460 x 640 x 1,140	115	**CC1142178**	13
TA-270-4	Sunny	DOL	400	0.410	14.49	1	2	4	3	1500	10	270	74	1,600 x 560 x 1,040	175	**CC1142233**	10
TVG-270-4	Polar	DOL	400	0.470	16.61	2	2	4	3	1000	14	270V	74	670 x 670 x 1,850	125	**CC1142192**	14
TA-90-55	Polar	DOL	400	0.650	22.97	1	2	5.5	4	1000	10	90	74	1,000 x 400 x 830	90	**CC1142168**	15
TA-150-55	Polar	DOL	400	0.590	20.85	2	2	5.5	4	1250	10	150	75	1,360 x 540 x 1,110	100	**CC1142172**	14
TAS-270-55	Sunny	DOL	400	0.590	20.85	2	2	5.5	4	1480	10	270	76	1,600 x 560 x 1,040	175	**CC1142234**	16
TA-270-55	Polar	DOL	400	0.590	20.85	2	2	5.5	4	1250	10	270	75	1,600 x 560 x 1,040	175	**CC1142179**	14
TA-500-55	Sunny	DOL	400	0.590	20.85	2	2	5.5	4	1250	10	500	75	1,970 x 590 x 1,280	205	**CC1142237**	14
LTA-500-55	Polar	DOL	400	0.641	22.62	2	2	5.5	4	1000	10	500	74	1,050 x 460 x 660	250	**CC1142194**	15
TVB-270-55	Polar	DOL	400	0.590	20.85	2	2	5.5	4	1250	10	270V	75	670 x 670 x 1,850	120	**CC1142189**	14
TVS-270-55	Polar	DOL	400	0.650	22.97	1	2	5.5	4	1000	10	270V	74	670 x 670 x 1,850	155	**CC1142190**	15
TVG-270-55	Polar	DOL	400	0.511	18.03	1	2	5.5	4	780	15	270V	74	670 x 670 x 1,850	160	**CC1142193**	15
TA-150-75	Polar	DOL	400	0.841	29.69	2	2	7.5	5.5	1280	10	150	76	1,360 x 540 x 1,110	105	**CC1142174**	18
TA-270-75	Polar	DOL	400	0.841	29.69	2	2	7.5	5.5	1280	10	270	76	1,600 x 560 x 1,040	180	**CC1142180**	18
STA-270-75	Polar	SDS	400	0.841	29.69	2	2	7.5	5.5	1280	10	270	76	1,600 x 560 x 1,040	180	**CC1142181**	18
TAS-500-75	Sunny	DOL	400	0.631	22.27	2	2	7.5	5.5	1335	10	500	75	1,970 x 590 x 1,280	253	**CC1142238**	19
STA-500-75	Polar	SDS	400	0.841	29.69	2	2	7.5	5.5	1280	10	500	76	1,970 x 590 x 1,280	260	**CC1142186**	18
TA-500-75	Polar	DOL	400	0.841	29.69	2	2	7.5	5.5	1280	10	500	76	1,970 x 590 x 1,280	253	**CC1142185**	18
TAR-500-75	Sunny	DOL	400	0.631	22.27	2	2	7.5	5.5	1335	10	500	75	1,970 x 590 x 1,280	253	**CC1142239**	19
LSA-500-75	Polar	SDS	400	0.781	27.57	2	2	7.5	5.5	920	10	500	77	1,050 x 460 x 660	275	**CC1142196**	17
LTA-500-75	Polar	DOL	400	0.781	27.57	2	2	7.5	5.5	920	10	500	77	1,050 x 460 x 660	275	**CC1142195**	17
TVB-270-75	Polar	DOL	400	0.841	29.69	2	2	7.5	5.5	1280	10	270V	76	670 x 670 x 1,850	160	**CC1142191**	18
TA-270-10	Polar	DOL	400	0.921	32.51	2	2	10	7.5	1100	10	270	78	1,600 x 560 x 1,040	185	**CC1142182**	17
STA-270-10	Polar	SDS	400	0.921	32.51	2	2	10	7.5	1100	10	270	78	1,600 x 560 x 1,040	185	**CC1142183**	17
TA-500-10	Polar	DOL	400	0.921	32.51	2	2	10	7.5	1100	10	500	78	1,970 x 590 x 1,280	260	**CC1142187**	17
LSA-500-10	Polar	SDS	400	1.051	37.11	2	2	10	7.5	1080	10	500	77	1,050 x 460 x 660	270	**CC1142197**	20
STA-500-10	Polar	SDS	400	0.921	32.51	2	2	10	7.5	1100	10	500	78	1,970 x 590 x 1,280	270	**CC1142188**	17

Silenced Piston Compressors
Direct Drive Single Phase Oil Free

Design: Direct drive version, single phase
Pressure Range: 8 bar
Electric motor: 0.75 to 1.1kW
Voltage: 230V / 50Hz

MODEL	SERIES	START	VOLTAGE	m^3/ min	CFM	STAGE	PISTON	HP	kW	RPM	BAR	TANK	dB(A)	DIMENSIONS [L x W x H]	KG	CODE	KIT NO.
SOF-6-1	Sunny	DOL	230	0.105	3.7	1	1	1	0.75	1450	8	6	61	430 x 210 x 430	18	**CC1182620**	21
SOFB-6-15	Sunny	DOL	230	0.193	6.8	1	1	1.5	1.1	2850	8	6	65	600 x 270 x 570	20	**CC1182676**	23

Silenced Piston Compressors
Belt Driven Single Phase Lubricated

Design: Belt driven version, single phase
Pressure Range: 10 bar
Electric motor: 1.8 to 2.2kW
Voltage: 230V / 50Hz

MODEL	SERIES	START	VOLTAGE	m^3/ min	CFM	STAGE	PISTON	HP	kW	RPM	BAR	TANK	dB(A)	DIMENSIONS [L x W x H]	KG	CODE	KIT NO.
SIL-24-25	Sunny	DOL	230	0.250	8.84	1	1	2.5	1.8	2850	10	24	64	940 x 850 x 490	87	**CC1142198**	4
S-50-25	Polar	DOL	230	0.297	10.5	1	1	2.5	1.8	1450	10	50	66	1,010 x 520 x 1,000	75	**CC1182679**	4
S-90-25	Polar	DOL	230	0.297	10.5	1	1	2.5	1.8	1450	10	90	66	1,030 x 520 x 1,020	87	**CC1182680**	4
S-90-3	Polar	DOL	230	0.351	12.4	1	1	3	2.2	1500	10	90	70	1,000 x 500 x 1,065	95	**CC1182678**	10
S-200-3	Polar	DOL	230	0.396	14	1	1	3	2.2	1210	10	200	68	1,539 x 599 x 1,167	175	**CC1182677**	13

Silenced Piston Compressors
Belt Driven Three Phase Lubricated

Design: Belt driven version, three phase
Pressure Range: 10 to 12 bar
Electric motor: 3 to 7.5kW
Voltage: 400V / 50Hz

MODEL	SERIES	START	VOLTAGE	m^3/ min	CFM	STAGE	PISTON	HP	kW	RPM	BAR	TANK	dB(A)	DIMENSIONS [L x W x H]	KG	CODE	KIT NO.
S-270-4	Polar	DOL	400	0.530	18.73	2	2	4	3	1115	10	270	68	1,440 x 592 x 1,100	190	**CC1142217**	14
S-55	Polar	DOL	400	0.590	20.85	2	2	5.5	4	1250	10	-	69	837 x 592 x 735	160	**CC1142199**	14
S-55-12	Polar	DOL	400	0.541	19.09	2	2	5.5	4	1130	12	-	69	837 x 592 x 735	170	**CC1142200**	14
S-500-55	Polar	DOL	400	0.590	20.85	2	2	5.5	4	1250	10	500	69	1,440 x 592 x 1,220	280	**CC1142221**	14
S-75	Polar	DOL	400	0.781	27.57	2	2	7.5	5.5	980	10	-	66	837 x 592 x 735	187	**CC1142202**	17
STS-75	Polar	SDS	400	0.781	27.57	2	2	7.5	5.5	980	10	-	66	837 x 592 x 735	190	**CC1142204**	17
S-75-12	Polar	DOL	400	0.680	24.03	2	2	7.5	5.5	800	12	-	66	837 x 592 x 735	170	**CC1142203**	17
STS-75-12	Polar	SDS	400	0.680	24.03	2	2	7.5	5.5	800	12	-	66	837 x 592 x 735	190	**CC1142205**	17
S-500-75	Polar	DOL	400	0.781	27.57	2	2	7.5	5.5	980	10	500	66	1,440 x 592 x 1,220	298	**CC1142223**	17
STS-500-75	Polar	SDS	400	0.781	27.57	2	2	7.5	5.5	980	10	500	66	1,440 x 592 x 1,220	298	**CC1142225**	17
S-10	Polar	DOL	400	1.060	37.45	2	2	10	7.5	1100	10	-	68	837 x 592 x 735	190	**CC1142206**	17
S-10-12	Polar	DOL	400	0.851	30.04	2	2	10	7.5	800	12	-	68	837 x 592 x 735	190	**CC1142208**	17
STS-10	Polar	SDS	400	1.060	37.45	2	2	10	7.5	1100	10	-	68	837 x 592 x 735	190	**CC1142215**	17
STS-10-12	Polar	SDS	400	1.051	37.11	2	2	10	7.5	800	12	-	69	837 x 592 x 735	190	**CC1142216**	17
S-500-10	Polar	DOL	400	0.921	32.51	2	2	10	7.5	1100	10	500	68	1,440 x 592 x 1,220	298	**CC1142227**	17
STS-500-10	Polar	SDS	400	0.921	32.51	2	2	10	7.5	1100	10	500	68	1,440 x 592 x 1,220	298	**CC1142229**	17

Silenced Piston Compressors + Refrigeratred Dryer
Belt Driven Three Phase Lubricated

Design: Belt driven version, three phase
Pressure Range: 10 bar
Electric motor: 3 to 7.5kW
Voltage: 400V / 50Hz

MODEL	SERIES	START	VOLTAGE	m^3/ min	CFM	STAGE	PISTON	HP	kW	RPM	BAR	TANK	dB(A)	DIMENSIONS [L x W x H]	KG	CODE	KIT NO.
SD-270-4	Polar	DOL	400	0.530	18.73	2	2	4	3	1115	10	270	68	1,440 x 592 x 1,100	215	**CC1142220**	14
SD-500-55	Polar	DOL	400	0.590	20.85	2	2	5.5	4	1250	10	500	69	1,440 x 592 x 1,220	305	**CC1142222**	14
SD-500-75	Polar	DOL	400	0.781	27.57	2	2	7.5	5.5	980	10	500	66	1,440 x 592 x 1,220	322	**CC1142224**	17
STSD-500-75	Polar	SDS	400	0.781	27.57	2	2	7.5	5.5	980	10	500	66	1,440 x 592 x 1,220	322	**CC1142226**	17
SD-500-10	Polar	DOL	400	0.921	32.51	2	2	10	7.5	1100	10	500	68	1,440 x 592 x 1,220	322	**CC1142228**	17
STSD-500-10	Polar	SDS	400	0.921	32.51	2	2	10	7.5	1100	10	500	68	1,440 x 592 x 1,220	322	**CC1142230**	17

Engine Driven Piston Compressors
Belt Driven Lubricated

Design: Belt driven version, with petrol or diesel engine
Pressure Range: 10 bar

MODEL	SERIES	FUEL	ENGINE	m^3/min	CFM	STAGE	PISTON	HP	kW	RPM	BAR	TANK	dB(A)	DIMENSIONS [L x W x H]	KG	CODE	KIT NO.
PA-25-5	Polar	Petrol	GP 160	0.275	9.7	1	1	5	-	3400	10	2.5	76	620 x 400 x 450	24	**CC1182673**	22
PA-4-5	Polar	Petrol	GP 160	0.275	9.7	1	1	5	-	3400	10	4	76	445 x 520 x 435	22	**CC1182674**	22
PA-50-5	Polar	Petrol	GP 160	0.249	8.8	1	1	5	-	1260	10	50	76	1,010 x 360 x 750	55	**CC1182665**	9
PA-100-5	Polar	Petrol	GP 160	0.351	12.4	1	1	5	-	1500	10	100	76	1,100 x 400 x 850	65	**CC1182666**	10
PA-200-5	Polar	Petrol	GP 160	0.351	12.4	1	1	5	-	1500	10	200	76	1,460 x 460 x 1,140	110	**CC1182667**	10
PA-200-55	Polar	Petrol	GX 160	0.515	18.2	1	1	5.5	-	1280	10	200	76	1,460 x 460 x 1,140	150	**CC1182668**	13
PA-270-55	Polar	Petrol	GX 160	0.490	17.3	1	1	5.5	-	1440	10	270	76	1,600 x 560 x 1,230	190	**CC1182669**	16
PA-270-9	Polar	Petrol	GX 270	0.597	21.1	1	1	9	-	1270	10	270	76	1,600 x 560 x 1,230	200	**CC1182670**	14
PA-500-13	Polar	Petrol	GX 390	1.070	37.8	1	1	13	-	1270	10	500	76	1,970 x 590 x 1,300	260	**CC1182671**	17
DA-270-10	Polar	Diesel	Yanmar	0.651	23	1	1	7.7	-	950	10	270	76	1,600 x 500 x 1,040	160	**CC1182672**	15

Further configurations, voltages and kW ratings available. Contact BroomWade if you have a specific requirement

Piston Maintenance Kits

KIT NUMBER	CODE
1	**CC1182784**
2	**CC1182785**
3	**CC1182788**
4	**CC1182791**
5	**CC1182793**
6	**CC1182796**
7	**CC1182799**
8	**CC1182802**
9	**CC1182806**
10	**CC1182809**
11	**CC1182811**
12	**CC1182812**
13	**CC1182813**
14	**CC1182824**
15	**CC1182825**
16	**CC1182826**
17	**CC1182827**
18	**CC1182828**
19	**CC1182829**
20	**CC1182830**
21	**CC1182831**
22	**CC1182833**
23	**CC1182834**

Notes

ROTARY VANE AIR COMPRESSORS

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


BroomWade

ROTARY VANE AIR COMPRESSORS

At a glance…

Nominal Pressure
10 bar

Voltage
50 / 60Hz

Volume Flow
0.1 - 0.6 m^3/min

The right compressor for your business

Reliable by Design

Direct drive

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

High quality air

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

Slow speed

1450 - 1760 rpm speed operation results in low noise, low stresses and long life.

Common replacement parts

Quick, cost-effective servicing, with minimal downtime.

Guaranteed

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

High quality starter

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

Rotary Vane Air Compressors

Design: Open - fixed speed
Pressure Range: 10 bar
Electric motor: 1.1 - 4kW

CODE	MODEL	VOLTAGE	PHASE	COMPRESSED AIR OUTPUT		MAX. WORKING PRESSURE		MOTOR POWER	NOISE LEVEL	DIMENSIONS L x W x H	WEIGHT	AIR OUTLET SIZE
				[m³/ min]	[CFM]	[bar (g)]	[psi (g)]	[kW]	[dB(A)]	[mm]	[kg]	
501PUTS10-4035D40C	CMPV01 Tripod	400V / 50Hz	3	0.12	4.2	10	145	1.1	62	700 x 270 x 470	41	3/8“ F-BSP
501PUTS10-2415D40C	CMPV01 Tripod	230V / 50Hz	1	0.12	4.2	10	145	1.1	62	700 x 270 x 470	41	3/8“ F-BSP
501PURS10-4035D40C	CMPV01 RM on a 75 Ltr Tank	400V / 50Hz	3	0.12	4.2	10	145	1.1	62	1,120 x 300 x 730	77	3/8“ F-BSP
501PURS10-2415D40C	CMPV01 RM on a 75 Ltr Tank	230V / 50Hz	1	0.12	4.2	10	145	1.1	62	1,120 x 300 x 730	77	3/8“ F-BSP
502PUTS10-4035D40C	CMPV02 Tripod	400V / 50Hz	3	0.23	8.1	10	145	2.2	69	700 x 270 x 470	41	3/8“ F-BSP
502PUTS10-2415D40C	CMPV02 Tripod	230V / 50Hz	1	0.23	8.1	10	145	2.2	69	700 x 270 x 470	41	3/8“ F-BSP
502PURS10-4035D40C	CMPV02 RM on a 200 Ltr Tank	400V / 50Hz	3	0.23	8.1	10	145	2.2	69	1,120 x 300 x 730	77	3/8“ F-BSP
502PURS10-2415D40C	CMPV02 RM on a 200 Ltr Tank	230V / 50Hz	1	0.23	8.1	10	145	2.2	69	1,120 x 300 x 730	77	3/8“ F-BSP
504PURS10-4035D20C	CMPV04 RM on a 200 Ltr Tank	400V / 50Hz	3	0.57	20.1	10	145	4	73	1,410 x 455 x 990	145	1/2“ F-BSP

SERVICE KITS	DESCRIPTION
C-AK0102	Annual service kit for CMPV01 / CMPV02
C-AK04	Annual service kit for CMPV04
C-OK0102	Maintenance kit for every 20000 hours or 5 years for CMPV01 / CMPV02
C-OK04	Maintenance kit for every 20000 hours or 5 years for CMPV04
CC1180033	ChampLube Vane lubricant 1 Ltr*

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

100% OIL-FREE GUARANTEED

PREMIUM OIL-FREE ROTARY SCROLL COMPRESSORS

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


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

SPECIALIST IN OIL-FREE TECHNOLOGIES

At a glance…

Nominal Pressure
8 - 10 bar g

Motor Power
4 - 15kW

Volume Flow
21.2 - 106 m³/hr

Cutting edge technology development

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

Contaminant free. Risk free. 100% Oil-free

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

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

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

Compressor configuration

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

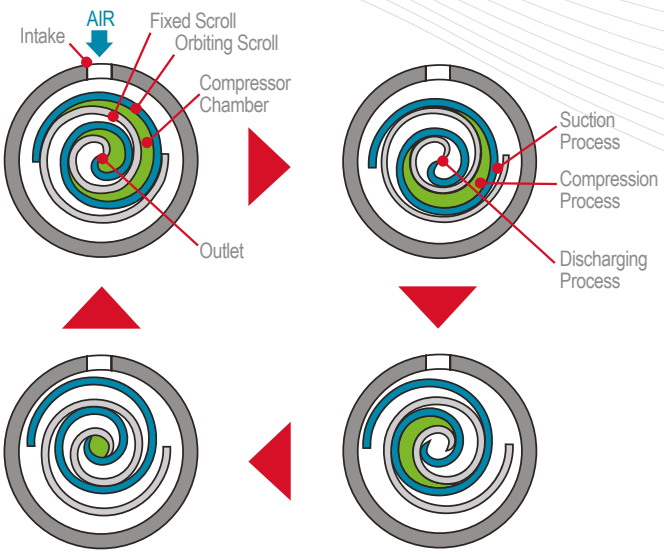
Industries with applications requiring oil-free air:

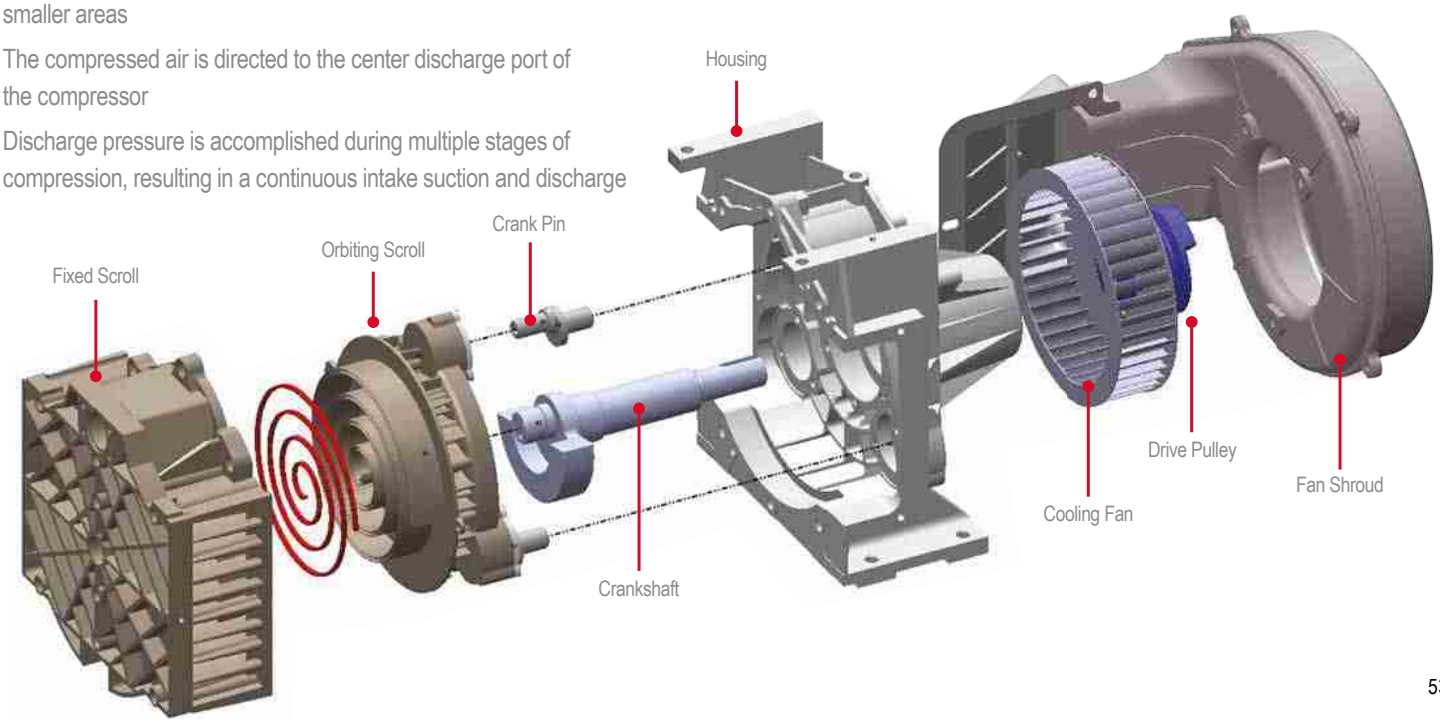
- **Transportation** - traditional and hybrid trucks, transit buses, school buses and trains
- **Medical/Healthcare** - instrument air and breathing air
- **Biotechnology** - laboratory equipment
- **Automotive** - painting
- **Food & Beverage**
- **Electronics**
- **Commercial Printing**
- **Drug Manufacture**

Innovative design

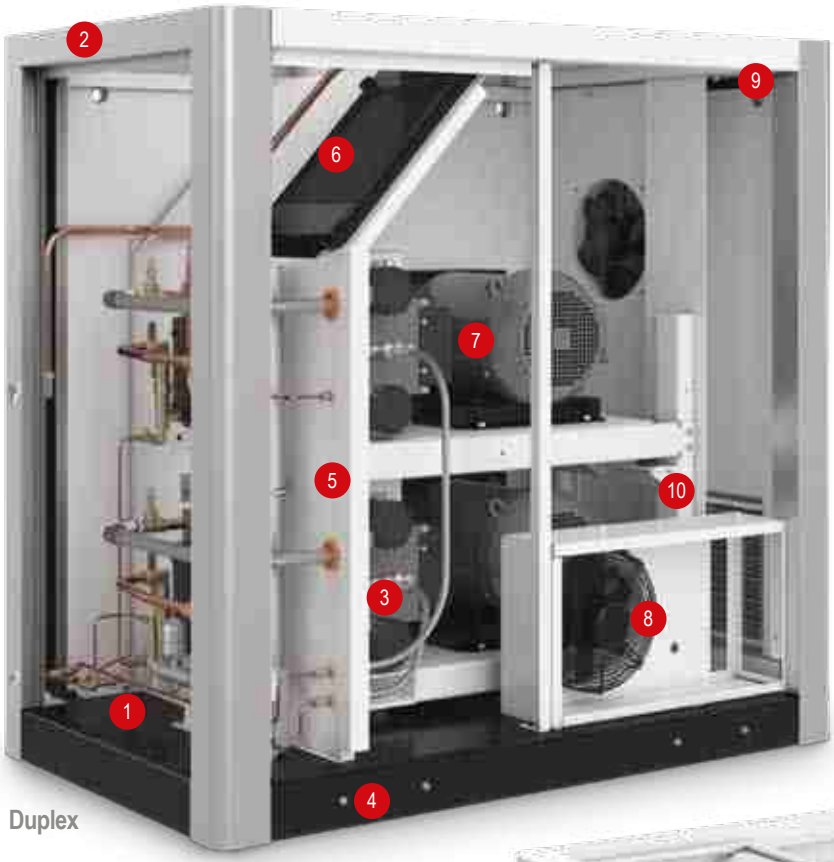
Scroll compression explained

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





S SERIES



Duplex

BroomWade S-Series

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

Simplex

Controlling and monitoring

The S-Series from BroomWade is available with different controller options. The Simplex versions can be either equipped with the basic relay panel or optionally with the Deluxe HMI electronic controller.

- NEMA 1, UL508A Labeled Panel
- Magnetic Contactor with Overload Protection
- 115V Control Circuit Transformer with Fusing
- Door Mounted TOA Switch
- Green Power On Light
- Emergency Stop
- Reset Button
- Run Time Meter
- Pressure Gauge

The optional Deluxe HMI control from BroomWade has easy to use navigation and friendly graphics that deliver interactive and intuitive information at your fingertips.

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

Deluxe HMI

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

S4 – S8 Simplex Series: Oil free, Scroll compressors

Design: 100% oil free, scroll compressor, direct drive
Pressure Range: from 8 to 10 bar
Electric motor: from 4 to 7.5kW

S SERIES	TYPE	S4		S6		S8	
Maximum pressure	bar	8	10	8	10	8	10
Capacity[1]	m^3/h	23.6	21.2	34.5	26.0	53.0	41.3
Drive motor IP 55 / class F / IE3	kW	4		5.5		7.5	
Control voltage	24V	•		•		•	
Acoustic enclosure		•		•		•	
Air cooled		•		•		•	
RS485:1 Module for ModBus-RTU remote monitoring		•		•		•	

230V / Std. (DOL) / Basic Relay Control

MAT. NO.	SQ430A03	SQ430A04	SQ430A07	SQ430A08	SQ430A48	SQ430A49

230 V / Std. (DOL) / Deluxe HMI electronic controller

MAT. NO.	SQ430A05	SQ430A06	SQ430A09	SQ430A10	SQ430A50	SQ430A51

400 V / Std. (DOL) / Basic Relay Control

MAT. NO.	SQ430A11	SQ430A12	SQ430A58	SQ430A59	SQ430A62	SQ430A47

400 V / Std. (DOL) / Deluxe HMI electronic controller

MAT. NO.	SQ430A13	SQ430A14	SQ430A60	SQ430A61	SQ43063	SQ430A64

400 V / Soft Start / Basic Relay Control

MAT. NO.	N/A	N/A	SQ430A15	SQ430A16	SQ430A19	SQ430A20

400 V / Soft Start / Deluxe HMI electronic controller

MAT. NO.	N/A	N/A	SQ430A17	SQ430A18	SQ430A21	SQ430A22

[1] Data measured and stated in accordance with ISO 1.217 Edition 4, Annex C & E at the following conditions: Air Intake Pressure 1 bar a / 14,5 psi; Air Intake Temperature 20° C / 68° F; Humidity 0 % (dry)

S7D – S15D Duplex Series: Oil free, Scroll compressors

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

S SERIES	TYPE	S7D		S11D		S15D	
Maximum pressure	bar	8	10	8	10	8	10
Capacity[1]	m^3/h	47.2	42.5	69.0	52.0	106.0	82.6
Drive motor IP 55 / class F / IE3	kW	7		11		15	
Control voltage	24V	•		•		•	
Acoustic enclosure		•		•		•	
Air cooled		•		•		•	
RS485:1 Module for ModBus-RTU remote monitoring		•		•		•	

400 V / Std. (DOL) / Deluxe HMI electronic controller

MAT. NO.	SQ430A23	SQ430A24	SQ430A65	SQ430A66	SQ430A67	SQ430A68

400 V / Soft Start / Deluxe HMI electronic controller

MAT. NO.	N/A	N/A	SQ430A25	SQ430A26	SQ430A27	SQ430A28

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

SERVICE KITS	
MAT. ID	DESCRIPTION
300SMB1445	Air filter kit (4kW x1, 6 & 8kW x2)
300SIA6003	Service kit 6kW (includes tip seal, face seal & grease)
301SIA6003	Service kit 7kW (includes tip seal, face seal & grease)
300SMB6031	Grease gun

Notes

ONE STEP AHEAD

PORTABLE SCREW COMPRESSORS

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


BroomWade
CMP-14

DESIGNED TO LAST

At a glance…

Operating Pressure
7 - 12 bar g

Motor Power
15.5kW

Volume Flow
1.0 - 1.4 m^3/min

The CMP-Series is a powerful alternative to electrical tools

Small, compact and lightweight, at only 165kg weight with 1.4 m^3/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.

BroomWade Genuine Parts

Enjoy complete peace of mind.

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

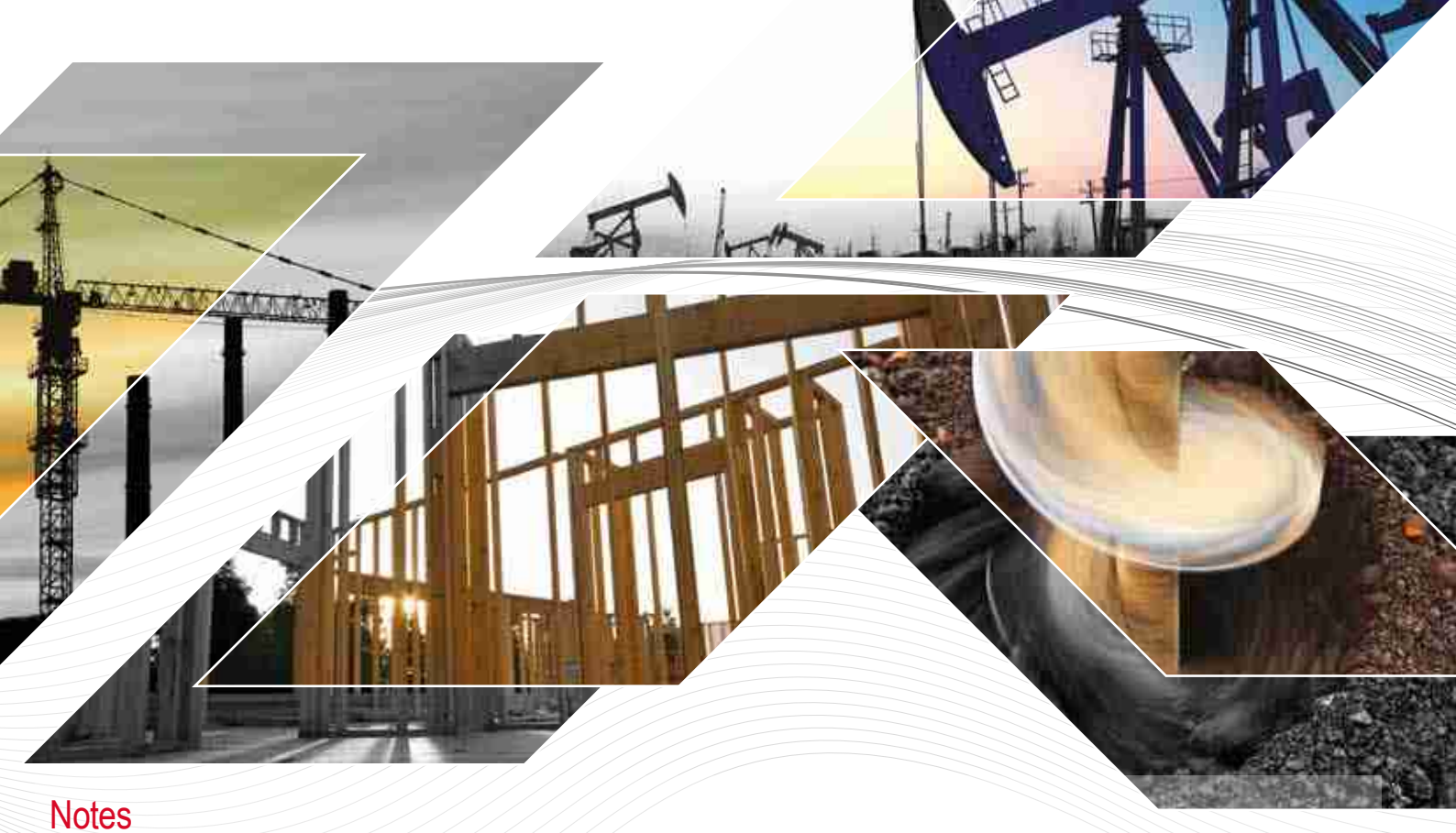
- Minimum losses contributing to energy savings
- Long service life, even under harsh conditions
- High reliability

CMP SERIES ENGINE: HONDA DLT 0101	TYPE	CMP-P10	CMP-P12	CMP-P14
Code		**A60141201**	**A60141001**	**A60140701**
Motor power	kW	15.5	15.5	15.5
Operating pressure	bar g	12	10	7
	psi g	174	145	102
Volume flow	m^3/min	1.0	1.2	1.4
	cfm	35	42	50
Engine speed off load	rpm	2200	2200	2200
Engine speed full load	rpm	2900	2900	2900
Sound level power[1]	dB(A) LWA	97	97	97
Sound level power[2]	dB(A) LWA	69	69	69
Air outlet size		1" x 3/4"	1" x 3/4"	1" x 3/4"
Dimensions L x W x H	mm	960 x 700 x 630		
Weight (without fuel)	kg	150		

[1] Legal Limiting values of EC directive acc to 2000/14/EC
[2] acc PNGBPOP PN8NTC2.2 at 7m

SERVICE KITS	DESCRIPTIONS
CC1121408	Service kit for every 100 hours or 6 months
CC1121413	Service kit for every 300 hours or 12 months
SCUO2000-5GT	Lubricant

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



Notes

COMPRESSED AIR TREATMENT

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

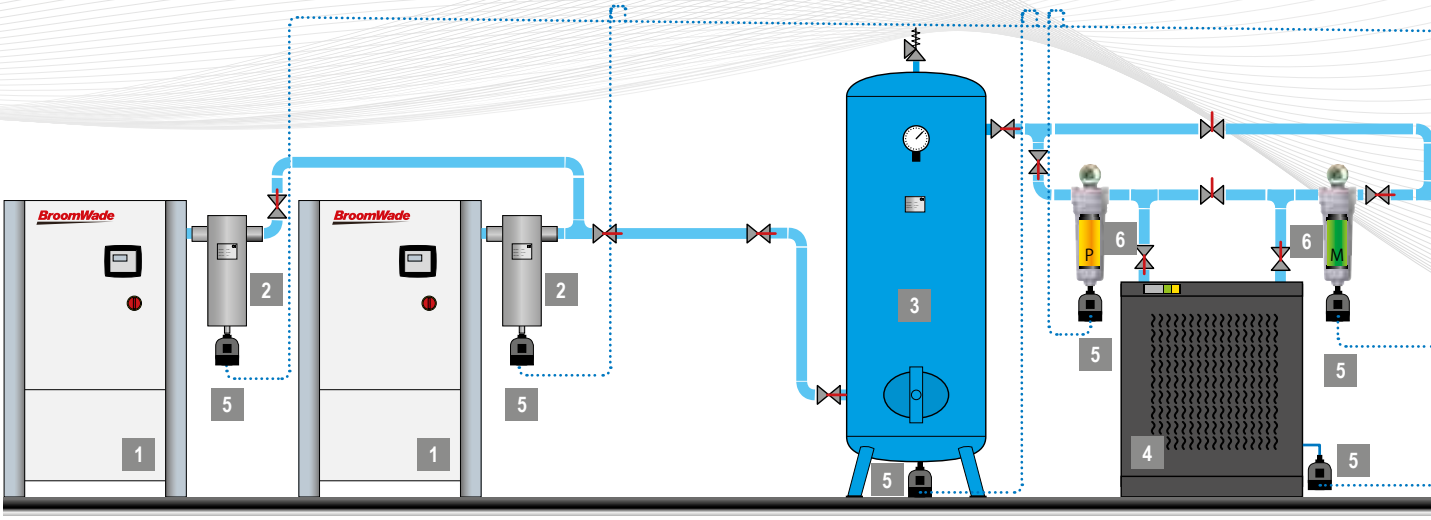
Compressed air quality classes according to ISO 8573-1:2010

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

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

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

BASIC PRINCIPLES OF MOST TYPICAL COMPRESSED AIR APPLICATION



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

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

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

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

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

They are installed following aftercoolers to remove the condensed moisture.

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

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

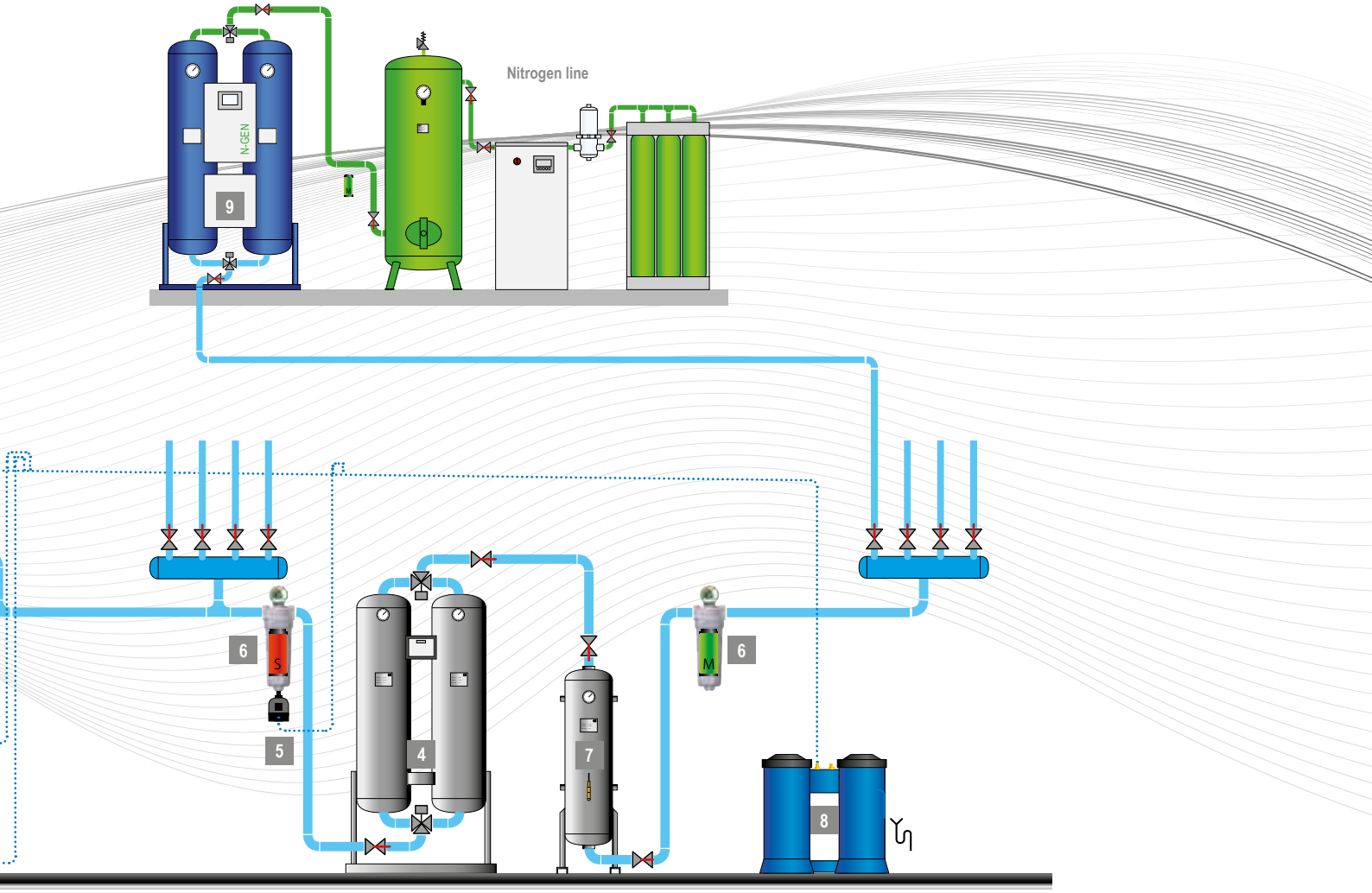
4. Compressed air dryer : Compressed air leaving the compressor aftercooler and moisture separator is normally warmer than the ambient air and fully saturated with moisture. As the air cools the moisture will condense in the compressed air lines. Excessive entrained moisture can result in undesired pipe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

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

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

Common types:

- Refrigerant
- Dessicant
- Membrane



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

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

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

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

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

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

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

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

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

End user advice

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

F SERIES ALUMINUM COMPRESSED AIR FILTERS

Applications

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

At a glance…

Operating Pressure
16 bar

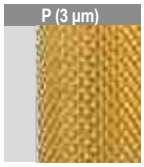
Volume Flow
60 - 2760 Nm³/h

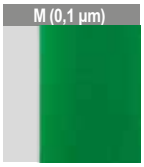
Connections
3/8" - 3"

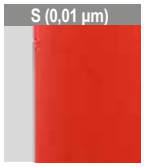
Operating Temp. Range
1.5 - 65°C

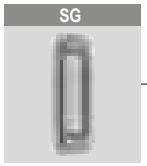
F filter housings are designed for high efficient removal of solid particles, water, oil aerosols, hydrocarbons, odour and vapours from compressed air[1] systems. To meet the required compressed air quality appropriate filter element (P, M S, A) must be installed into filter housing.

[1] For any other technical gas please contact producer or your local distributor.









P PREFILTER [3 µm]										
FILTER HOUSING	PART NUMBER	MAX. OPERAT. PRESSURE [bar / psi]	FLOW RATE AT 7 bar(g), 20 °C [Nm³/h]	[scfm]	DIMENSONS [mm] A	B	C	D	WEIGHT [kg]	FILTER ELEMENT
F 005 P	**223051A**	16 / 232	60	35	187	88	20	60	0.7	**223171**
F 007 P	**223052A**	16 / 232	78	46	187	88	20	60	0.7	**223172**
F 010 P	**223053A**	16 / 232	120	70	257	88	20	80	0.8	**223173**
F 018 P	**223054A**	16 / 232	198	116	263	125	32	100	1.8	**223174**
F 030 P	**223055A**	16 / 232	335	197	363	125	32	120	2.5	**223175**
F 047 P	**223056A**	16 / 232	510	300	461	125	32	140	2.5	**223176**
F 070 P	**223057A**	16 / 232	780	459	640	125	32	160	3.2	**223177**
F 094 P	**223058A**	16 / 232	1000	588	684	163	43	520	5.1	**223178**
F 150 P	**223059A**	16 / 232	1500	882	935	163	43	770	7.1	**223179**
F 200 P	**CC1182427**	16 / 232	2160	1270	795	240	59	630	12.9	**CC1183012**
F 240 P	**223060A**	16 / 232	2760	1620	1,000	240	59	780	14.0	**223180**

QUALITY CLASS - SOLIDS [ISO 8573-1]	RESIDUAL OIL CONTENT [mg/m³]	QUALITY CLASS - OILS [ISO 8573-1]	PRESSURE DROP - NEW ELEMENT [mbar/psi]	CHANGE FILTER ELEM. AT PRESS. DROP [mbar/psi]	FILTER MATERIAL	PLEATED VERSION	WRAPPED VERSION	SINTERED VERSION	OPERATING TEMPERATURE MIN	MAX
6	-	-	10 / 0.145	350 / 5.07	acrylic fibres, cellulose	✓	-	-	1.5 / 35	65 / 149

COMPRESSED AIR FILTERS

M MICROFILTER [0.1 µm]										
FILTER HOUSING	PART NUMBER	MAX. OPERAT. PRESSURE [bar/psi]	FLOW RATE AT 7 bar(g), 20 °C [Nm³/h]	[scfm]	DIMENSONS [mm] A	B	C	D	WEIGHT [kg]	FILTER ELEMENT
F 005 M	**223061A**	16 / 232	60	35	187	88	20	60	0.7	**223181**
F 007 M	**223062A**	16 / 232	78	46	187	88	20	60	0.7	**223182**
F 010 M	**223063A**	16 / 232	120	70	257	88	20	80	0.8	**223183**
F 018 M	**223065A**	16 / 232	198	116	263	125	32	100	1.8	**223184**
F 030 M	**223066A**	16 / 232	335	197	363	125	32	120	2.5	**223185**
F 047 M	**223067A**	16 / 232	510	300	461	125	32	140	2.5	**223186**
F 070 M	**223068A**	16 / 232	780	459	640	125	32	160	3.2	**223187**
F 094 M	**223069A**	16 / 232	1000	588	684	163	43	520	5.1	**223188**
F 150 M	**223081A**	16 / 232	1500	882	935	163	43	770	7.1	**223189**
F 200 M	**CC1182428**	16 / 232	2160	1270	795	240	59	630	12.9	**CC1183034**
F 240 M	**223064A**	16 / 232	2760	1620	1,000	240	59	780	14.0	**223190**

QUALITY CLASS - SOLIDS [ISO 8573-1]	RESIDUAL OIL CONTENT [mg/m³]	QUALITY CLASS - OILS [ISO 8573-1]	PRESSURE DROP - NEW ELEMENT [mbar/psi]	CHANGE FILTER ELEM. AT PRESS. DROP [mbar/psi]	FILTER MATERIAL	PLEATED VERSION	WRAPPED VERSION	SINTERED VERSION	OPERATING TEMPERATURE MIN	MAX
2	<0.1	2	50 / 0.725	350 / 5.07	borosilicate micro fibres	✓	-	-	1.5 / 35	65 / 149

S MICROFILTER [0.01 µm]										
FILTER HOUSING	PART NUMBER	MAX. OPERAT. PRESSURE [bar/psi]	FLOW RATE AT 7 bar(g), 20 °C [Nm³/h]	[scfm]	DIMENSONS [mm] A	B	C	D	WEIGHT [kg]	FILTER ELEMENT
F 005 S	**223070A**	16 / 232	60	35	187	88	20	60	0.7	**223191**
F 007 S	**223071A**	16 / 232	78	46	187	88	20	60	0.7	**223192**
F 010 S	**223072A**	16 / 232	120	70	257	88	20	80	0.8	**223193**
F 018 S	**223073A**	16 / 232	198	116	263	125	32	100	1.8	**223194**
F 030 S	**223074A**	16 / 232	335	197	363	125	32	120	2.5	**223195**
F 047 S	**223075A**	16 / 232	510	300	461	125	32	140	2.5	**223196**
F 070 S	**223076A**	16 / 232	780	459	640	125	32	160	3.2	**223197**
F 094 S	**223077A**	16 / 232	1000	588	684	163	43	520	5.1	**223198**
F 150 S	**223078A**	16 / 232	1500	882	935	163	43	770	7.1	**223199**
F 200 S	**CC1182429**	16 / 232	2160	1270	795	240	59	630	12.9	**CC1183035**
F 240 S	**223079A**	16 / 232	2760	1620	1,000	240	59	780	14.0	**223200**

QUALITY CLASS - SOLIDS [ISO 8573-1]	RESIDUAL OIL CONTENT [mg/m³]	QUALITY CLASS - OILS [ISO 8573-1]	PRESSURE DROP - NEW ELEMENT [mbar/psi]	CHANGE FILTER ELEM. AT PRESS. DROP [mbar/psi]	FILTER MATERIAL	PLEATED VERSION	WRAPPED VERSION	SINTERED VERSION	OPERATING TEMPERATURE MIN	MAX
1	<0.01	1	80 / 1.160	350 / 5.07	borosilicate micro fibres	✓	-	-	1.5 / 35	65 / 149

A ACTIVATED CARBON										
FILTER HOUSING	PART NUMBER	MAX. OPERAT. PRESSURE [bar/psi]	FLOW RATE AT 7 bar(g), 20 °C [Nm³/h]	[scfm]	DIMENSONS [mm] A	B	C	D	WEIGHT [kg]	FILTER ELEMENT
F 005 A	**223090A**	16 / 232	60	35	187	88	20	60	0.7	**223211**
F 007 A	**223091A**	16 / 232	78	46	187	88	20	60	0.7	**223212**
F 010 A	**223092A**	16 / 232	120	70	257	88	20	80	0.8	**223213**
F 018 A	**223093A**	16 / 232	198	116	263	125	32	100	1.8	**223214**
F 030 A	**223094A**	16 / 232	335	197	363	125	32	120	2.5	**223215**
F 047 A	**223095A**	16 / 232	510	300	461	125	32	140	2.5	**223216**
F 070 A	**223096A**	16 / 232	780	459	640	125	32	160	3.2	**223217**
F 094 A	**223097A**	16 / 232	1000	588	684	163	43	520	5.1	**223218**
F 150 A	**223098A**	16 / 232	1500	882	935	163	43	770	7.1	**223219**
F 200 A	**CC1182430**	16 / 232	2160	1270	795	240	59	630	12.9	**CC1183036**
F 240 A	**223099A**	16 / 232	2760	1620	1,000	240	59	780	14.0	**223220**

QUALITY CLASS - SOLIDS [ISO 8573-1]	RESIDUAL OIL CONTENT [mg/m³]	QUALITY CLASS - OILS [ISO 8573-1]	PRESSURE DROP - NEW ELEMENT [mbar/psi]	CHANGE FILTER ELEM. AT PRESS. DROP [mbar/psi]	FILTER MATERIAL	PLEATED VERSION	WRAPPED VERSION	SINTERED VERSION	OPERATING TEMPERATURE MIN	MAX
1[2]	<0.005	1	60 / 0.870	6 months[1]	borosilic. micro fibres, act. carbon	-	✓	-	1.5 / 35	65 / 113

CORRECTION FACTORS															
OPERATING PRESSURE [bar]	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
OPERATING PRESSURE [psi]	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232
CORRECTION FACTOR	0.38	0.50	0.63	0.75	0.88	1	1.13	1.25	1.38	1.50	1.63	1.75	1.88	2.00	2.13

[1] Filter elements "A", must be changed periodically to suit application, but at least every 6 months. Activated carbon filters must not operate in oil saturated conditions.
[2] Valid if "S" filter cartridge is installed upstream.

Notes

F-W SERIES ALUMINIUM CYCLONE CONDENSATE SEPARATORS

At a glance…

Operating Pressure
16 bar

Volume Flow
60 - 2160 Nm³/h

Connections
3/8" - 3"

Operating Temp. Range
1.5 - 65°C

F-W condensate separators are designed for high efficient removal of bulk liquids from compressed air and vacuum systems. Inside the housing there is an insert with vanes that creates controlled rotation of the air.

As a result of centrifugal action liquids (water, oil) and large particles are forced to the housing wall, slowed down and accumulated at the bottom of separator housing as condensate. The turbulent free zone in the lower part of the filter housing prevents condensate from being picked up and "carried over" into the airstream.

To discharge condensate from the F-W cyclone separator it is essential to install automatic or electronic condensate drain.

FILTER HOUSING	PART NUMBER	MAX.OPER. PRESSURE	FLOW RATE AT 7 bar(g), 20 °C		TEMPERATURE OPERATING RANGE		DIMENSIONS [mm]				WEIGHT	FILTER ELEMENT
		[bar/psi]	[Nm³/h]	[SCFM]	[°C]	[°F]	A	B	C	D	[kg]	
F 010 W	**223101A**	16 / 232	60	35	1.5 - 65	35 - 149	187	88	20	60	0.7	CC1183037
F 030 W	**223102A**	16 / 232	78	46	1.5 - 65	35 - 149	187	88	20	60	0.7	CC1183038
F 070 W	**223103A**	16 / 232	120	70	1.5 - 65	35 - 149	257	88	20	80	0.8	CC1183039
F 094 W	**CC1181853**	16 / 232	198	116	1.5 - 65	35 - 149	263	125	32	100	1.8	CC1183040
F 150 W	**223104A**	16 / 232	510	300	1.5 - 65	35 - 149	461	125	32	140	2.5	CC1183041
F 200 W	**CC1182432**	16 / 232	1000	588	1.5 - 65	35 - 149	684	163	43	520	5.1	CC1183042

QUALITY CLASS - SOLIDS [ISO 8573-1]	-
QUALITY CLASS - WATER [ISO 8573-1]	8
QUALITY CLASS - OILS [ISO 8573-1]	-
EFFICIENCY	>98%

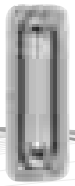
CORRECTION FACTORS															
OPERATING PRESSURE [bar]	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
OPERATING PRESSURE [psi]	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232
CORRECTION FACTOR	0.38	0.50	0.63	0.75	0.88	1	1.13	1.25	1.38	1.50	1.63	1.75	1.88	2.00	2.13

Differential pressure indicators & accessories

MDA60 DIFFERENTIAL PRESS. INDICATOR

OPERAT. PRESS RANGE	0 - 20 bar [0 - 290 psi]
OPERAT. TEMP. RANGE	1.5 - 65°C [35 - 149°F]
MASS	0.36 kg
MEASURING RANGE	2 bar [29 psi]
DIMENSIONS [LxBxH]	84 x ø80 x 78 mm
PART NUMBER	**CC1032412**

SG SIGHT GLASS



TYPE	SG
OPERATING PRESSURE	0 - 16 bar [0 - 232 psi]
OPERATING TEMPERATURE	1.5 - +65°C [35 - 149°F]
OPERATING FLUID	Air, water, oil
MATERIAL	PA12
DIMENSIONS [mm]	59.0 x 20.5 x 11.0
PART NUMBER	**CC1183816**

EPG 60 DIFFERENTIAL PRESS. INDICATOR

	EPG
SERVICE NETWORK CONNEC.	no
SYSTEM PRESS. RANGE	0 - 16 bar [0 - 232 psi]
DIFFERENTIAL PRESS. RANGE	0.07 - 1.00 bar
MAX. DIFFERENTIAL PRESS.	1 bar [14.7 psi]
AMBIENT OPER. TEMP.	1.5°C - 40°C
COMPR. AIR OPER. TEMP.	1.5°C - 65°C
MASS	130 g (without batt.)
DIMENSIONS [LxBxH]	61.5 x 81 x 62 mm
PART NUMBER	**CC1183799**

WS/WM WALL MOUNTING KIT FOR FILTERS

TYPE	WS	WS
FITS TO FILTER HOUSINGS	F005 – F010	F018 – F070
OPERATING TEMP.	-20 - +120°C [-4 - 248°F]	
MAX. LOAD/CONSOLE	6 kg	15 kg
MASS [kg]	0.35	0.6
MATERIAL	Stainless steel	
PART NUMBER	**CC1183818**	**CC1183820**

MDM 60 DIFFERENTIAL PRESS. INDICATOR

OPERAT. PRESS. RANGE	0 - 16 bar [0 - 232 psi]
OPERAT. TEMP. RANGE	1.5 - 65°C [35 - 149°F]
MASS	0.15 kg
MEASURING RANGE	0.9 bar [13 psi]
DIMENSIONS [L x B x H]	72 x 64 x 68 mm
PART NUMBER	**CC1032412**

AK ASSEMBLY KIT FOR FILTERS

TYPE	CONNEC.	OPERAT. TEMP.	OPERAT. PRESS.	MAX. LOAD/ CONSOLE	PART NUMBER
AK 3/8"	3/8"	1.5 - 65°C	0 - 20 bar	0.47	**CC1183821**
AK 1/2"	1/2"	1.5 - 65°C	0 - 20 bar	0.47	**CC1169902**
AK 3/4"	3/4"	1.5 - 65°C	0 - 20 bar	0.47	**CC1151673**
AK 1"	1"	1.5 - 65°C	0 - 20 bar	0.47	**CC1166431**
AK 1 1/2"	1 1/2"	1.5 - 65°C	0 - 20 bar	0.47	**CC1183822**
AK 2"	2"	1.5 - 65°C	0 - 20 bar	0.47	**CC1166432**
AK 2 1/2"	2 1/2"	1.5 - 65°C	0 - 20 bar	0.47	**CC1183824**
AK 3"	3"	1.5 - 65°C	0 - 20 bar	0.47	**CC1166433**

PDI 16 DIFFERENTIAL PRESS. INDICATOR

OPERAT. PRESS. RANGE	0 - 16 bar [0 - 232 psi]
OPERAT. TEMP. RANGE	1.5 - 65°C [35 - 149°F]
MASS	0.33 kg
MEASURING RANGE	0 - 0.9 bar [0 - 13 psi]
DIMENSIONS [L x B x H]	φ40 x 35 mm
PART NUMBER	**CC1183801**

2S, 3S, 2M, 3M ASSEMBLY KIT FOR FILTERS

CONSOLE TYPE	FOR FILTER TYPE	PART NUMBER
2S	2 x F005 to F010	**CC1183802**
3S	3 x F005 to F010	**CC1183803**
2M	2 x F018 to F070	**CC1183814**
3M	3 x F018 to F070	**CC1183815**

CT SERIES REFRIGERATION AIR DRYERS

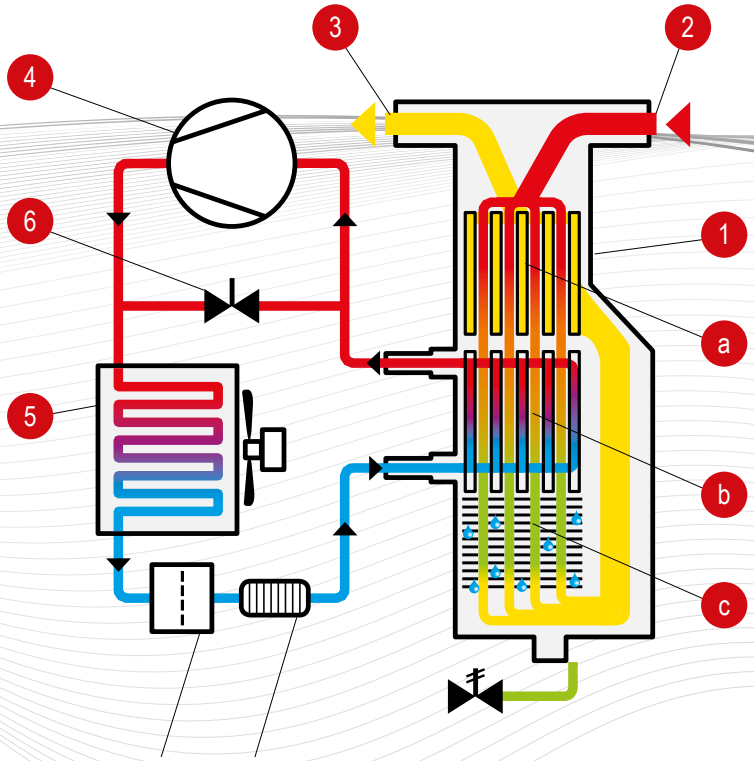
CT dryers achieve excellent performance even in instances of high ambient and high inlet temperatures. The highly efficient and ultra compact heat exchanger is able to operate effectively in ambient temperatures up to 45°C and inlet temperatures of 55°C, ensuring a reduced compressed air pressure drop.

Functionality

Operation of the CT dryer is monitored by DMC15 electronic controller which indicates the DewPoint temperature digitally, controls the condensate drain valve via a timer and the condenser fan via a probe. From model CT 43 the fan is activated by a pressure switch.

A hot gas by-pass valve allows the dryer to operate at part load and prevent the evaporator from freezing. The ALU-DRY aluminium Module has a vertical flow layout ensuring the wet compressed air flows down to the automatic drain.

The circulation of the refrigerant in the system is by high efficiency piston and rotary refrigerant compressors which, thanks to their innovative construction, have reduced energy consumption and high reliability levels.



Main components

1. Heat exchanger module
- a Heat exchanger air/air - pre-cooler
- b Evaporator air/refrigerant
- c Demister
2. Compressed air input - wet
3. Compressed air output - dry
4. Compressor
5. Condenser
6. Hot gas by-pass valve
7. Gas filter
8. Expansion valve or capillary tube
9. Electronic condensate drain
10. Controller

TYPE	PART NO	AIR FLOW			AIR CONNECTIONS IN/OUT	POWER SUPPLY	DIMENSIONS			WEIGHT [kg]
		[l/min]	[m³/h]	[scfm]			A [mm]	B [mm]	C [mm]	
CT 3	**CMP1162865**	318	19	11	3/8"	230V / 1f / 50-60Hz	310	345	435	21
CT 6	**CMP1162867**	546	33	19	1/2"	230V / 1f / 50-60Hz	370	515	475	25
CT 9	**CMP1162868**	864	52	31	1/2"	230V / 1f / 50-60Hz	370	515	475	26
CT 12	**CMP1162869**	1,100	66	38	1/2"	230V / 1f / 50-60Hz	370	515	475	28
CT 18	**CMP1177081**	1,633	98	58	1/2"	230V / 1f / 50-60Hz	370	515	475	32
CT 25	**CMP1177082**	2,283	137	80	1"	230V / 1f / 50-60Hz	345	420	740	34
CT 32	**CMP1177083**	2,917	175	103	1 1/4"	230V / 1f / 50Hz	345	445	740	39
CT 43	**CMP1162872**	3,917	235	138	1 1/4"	230V / 1f / 50Hz	345	445	740	40
CT 52	**CMP1162873**	4,733	284	167	1 1/4"	230V / 1f / 50Hz	485	455	825	49
CT 61	**CMP1162874**	5,550	333	197	1 1/2"	230V / 1f / 50Hz	555	580	885	54
CT 75	**CMP1162875**	6,833	410	241	1 1/2"	230V / 1f / 50Hz	555	580	885	56
CT 105	**CMP1162876**	7,883	473	338	2"	230V / 1f / 50Hz	555	625	975	94
CT 130	**CMP1162877**	11,833	710	418	2"	230V / 1f / 50Hz	555	625	975	96
CT 168	**CMP1162878**	15,283	917	541	2 1/2"	230V / 1f / 50Hz	665	725	1,105	144
CT 190	**CMP1162879**	17,283	1,037	611	2 1/2"	400V / 3f / 50Hz	646	920	1,100	189
CT 220	**CMP1162880**	22,750	1,365	707	2 1/2"	400V / 3f / 50Hz	645	920	1,100	212

CORRECTION FACTOR FOR OPERATING PRESSURE								
OPERATING PRESSURE [bar(g)]	4	5	6	7	8	10	12	14
CORRECTION FACTOR K1	0.77	0.86	0.93	1.00	1.05	1.14	1.21	1.27

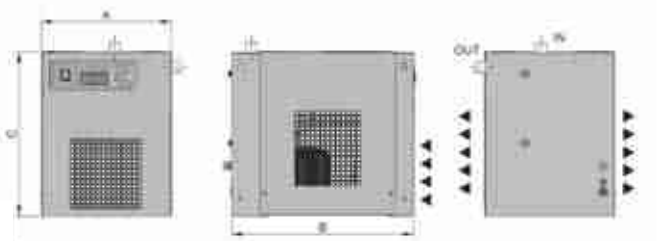
CORRECTION FACTOR FOR AMBIENT TEMPERATURE CHANGES					
TEMPERATURE [°C]	25	30	35	40	45
CORRECTION FACTOR K3	1.09	0.95	0.88	0.79	0.68

CORRECTION FACTOR FOR DEW POINT CHANGES				
TEMPERATURE [°C]	3	5	7	10
CORRECTION FACTOR K4	1.00	1.099	1.209	1.385

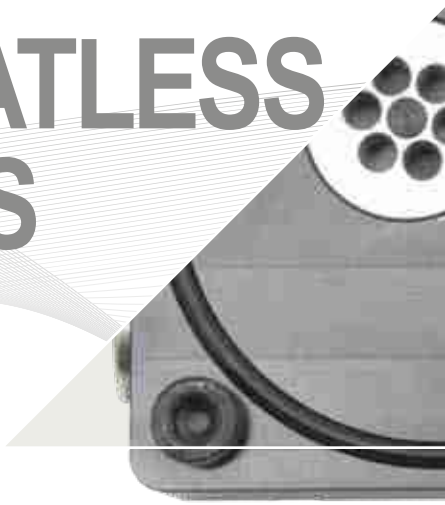
CORRECTION FACTOR FOR INLET AIR TEMPERATURE CHANGES						
OPERAT. PRESSURE [bar(g)]	30	35	40	45	50	55
CORRECTION FACTOR K2	1.11	1.00	0.81	0.67	0.55	0.45

Data refer to the following nominal condition: Ambient temperature of 25°C, with inlet air at 7 barg and 35°C and 5°C pressure Dew Point (-20.5°C atmospheric pressure Dew Point).

Max. working condition: Ambient temperature 45°C, inlet air temperature 55°C and inlet air pressure 14 barg (16 barg for CT 3...18).



CHA-DRY SERIES HEATLESS ADSORPTION DRYERS



Applications

- Compressed air systems

At a glance…

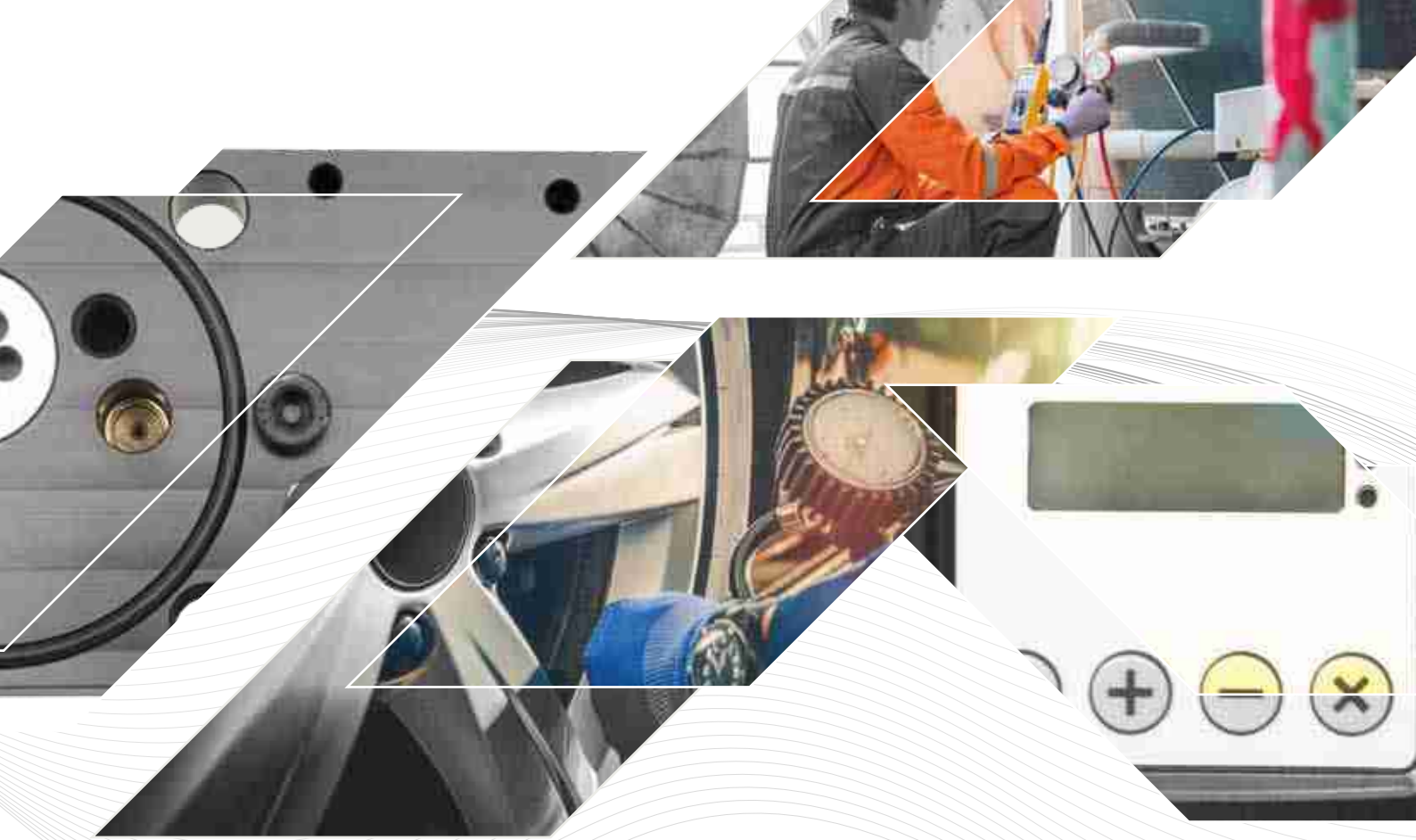
Operating Pressure
4 - 16 bar

Flow Rate
6 - 600 Nm³/h

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

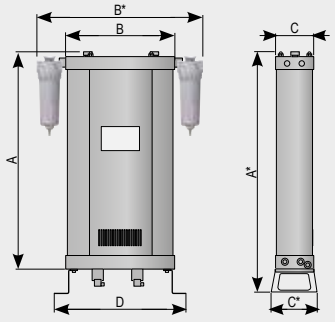
Operating Temp. Range
1.5 - 50°C

CHA-DRY desiccant adsorption dryer has been designed to separate water moisture from compressed air thus reducing the dew point in the system.
CHA-DRY is a range of products offering our customers a wide array of dried air solutions with volumetric flow rates ranging from 6 to 600 Nm³/h. An innovative new design of CHA-DRY adsorption dryers, developed with consideration of our customers, enables fast and reliable installation, use and servicing. Installation is simple with our ready to use controller while minimising the number of parts and motions required for assembly and disassembly makes servicing fast and reliable.



TYPE	PART NO	CONNECTION IN/OUT	NOMINAL VOLUME FLOW		DIMENSIONS							WEIGHT
			INLET[1] [Nm³/h]	OUTLET[2] [Nm³/h]	A [mm]	A* [mm]	B [mm]	B* [mm]	C [mm]	C* [mm]	D [mm]	[kg]
CHA-DRY 06	**CC1148763**	G3/8"	6	4.7	339	520	280	480	100	130	354	10.5
CHA-DRY 12	**CC1148765**	G3/8"	12	9.5	573	715	280	480	100	130	354	13.5
CHA-DRY 24	**CC1148766**	G3/8"	24	19.0	1,041	1,105	280	480	100	130	354	19.0
CHA-DRY 36	**CC1148767**	G3/8"	36	28.4	1,509	1,495	280	480	100	130	354	27.5
CHA-DRY 60	**CC1148768**	G3/4"	60	47.4	972	1,105	370	570	148	170	434	45.0
CHA-DRY 75	**CC1148769**	G3/4"	75	59.3	1,167	1,300	370	570	148	170	434	53.0
CHA-DRY 105	**CC1148770**	G3/4"	117	83	1,567	1,700	370	570	148	170	434	70.0
CHA-DRY 150	**CC1148771**	G1"	150	118	1,345	1,440	440	725	198	240	570	170.5
CHA-DRY 200	**CC1148772**	G1"	200	158	1,538	1,655	440	725	198	240	570	182.2

OPERATING PRESS. RANGE	4 to 16 bar[g] [CHA-DRY 06-200]; 4 to 10 bar[g] [CHA-DRY 250-600]
OPERATING TEMP. RANGE	+1.5 °C to +50 °C
PRESSURE DEW POINTS	-25 °C / -40 °C / -70 °C
VOLTAGE, FREQUENCY	230V, 50/60 Hz
POWER CONSUMPTION	<35 W
PROTECTION CLASS	IP 65
FILTER (INLET)*	Super fine; 0.01 µm
FILTER (OUTLET)	Dust filter; 1 µm



CORRECTION FACTORS - F1													
OPERATING PRESSURE [bar]	4	5	6	7	8	9	10	11	12	13	14	15	16
OPERATING PRESSURE [psi]	58	72	87	100	115	130	145	160	174	189	203	218	232
CORRECTION FACTOR	0.63	0.75	0.88	1	1.13	1.25	1.38	1.50	1.63	1.75	1.88	2.00	2.13

CORRECTION FACTORS - F2						
INLET TEMPERATURE [°C]	25	30	35	40	45	50
CORRECTION FACTOR	1.00	1.00	1.00	0.97	0.87	0.80

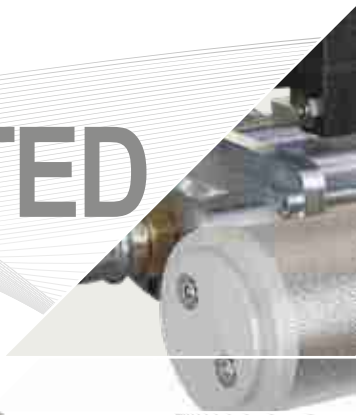
DEW POINT			
[°C]	-25	-40	-70
C_D	1.1	1	0.7

[1] Refers to 1 bar(a) and 20 °C at 7 bar operating pressure, inlet temperature 35 °C and pressure dew point at outlet -40 °C.

[2] Outlet flow refers to typical assumption during regeneration phase for operating at nominal inlet flow conditions. Outlet flow includes average air losses of approximately 17.3%.

* If dryer is supplied without inlet filter compressed air class 1 (ISO 8753-1) for solid particles and oil should be provided to the inlet of the dryer.

CHB-DRY SERIES
HEATLESS REGENERATED ADSORPTION DRYERS



Applications

- Compressed air systems

At a glance…

Operating Pressure
4 - 16 bar

Flow Rate
110 - 1000 Nm^3/h

Pressure Dew Points
-40°C [-25°C / -70°C]

Operating Temp. Range
1.5 - 60°C

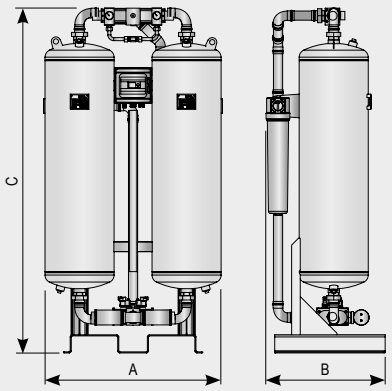
CHB-DRY adsorption dryers are designed for continuous separation of water vapour from the compressed air thus reducing the pressure dew point. CHB-DRY series dryer consists of two columns, filled with desiccant beds, controller with LCD display, valves, manometers, support construction and suitable filter housings with the required filter element. Adsorption takes place under pressure in the first column while the second column regenerates with a portion of already dried compressed air at ambient pressure.

When the first column is saturated to a certain level column switch-over is carried out and the process of adsorption continues in the second column without any drop of pressure at the outlet of the dryer. Regeneration of saturated desiccant is possible because a small portion of already dry compressed air is decompressed and when expanded it becomes extremely dry.

TYPE	PART NO	CONNECTION IN/OUT	NOMINAL VOLUME FLOW		DIMENSIONS			WEIGHT
			INLET[1] [Nm³/h]	OUTLET[2] [Nm³/h]	A [mm]	B [mm]	C [mm]	[kg]
CHB-DRY 110	**CC1148781**	G 1"	110	86.0	719 ±5	422	1,647	140
CHB-DRY 150	**CC1148782**	G 1"	150	117.5	707 ±5	422	1,897	156
CHB-DRY 200	**CC1148783**	G 1"	200	157.0	707 ±5	471	1,664	196
CHB-DRY 250	**CC1148784**	G 1"	260	204.0	707 ±5	471	1,914	236
CHB-DRY 300	**CC1148785**	G 1 1/2"	320	251.0	860 ±5	535	1,742	274
CHB-DRY 400	**CC1148786**	G 1 1/2"	410	321.5	854 ±5	535	1,989	295
CHB-DRY 600	**CC1148787**	G 1 1/2"	590	462.5	854 ±5	671	2,051	392
CHB-DRY 800	**CC1148788**	G 2"	770	603.5	1051 ±10	701	2,080	507
CHB-DRY 1000	**CC1148789**	G 2"	1000	784.0	1051 ±10	701	2,140	597

VOLTAGE, FREQUENCY	230V, 50/60 Hz
POWER CONSUMPTION	<60 W
PROTECTION CLASS	IP 65
FILTER (INLET)*	Super fine - 0.01 µm
FILTER (OUTLET)	Dust filter; 1 µm
DPD CONTROL	Optional
INPUT FOR STAND-BY	Standard
FILTER (OUTLET)	Dust filter; 1 µm

DEW POINT - CORRECTION FACTORS - C_D			
OPERAT. TEMP. [°C]	-25	-40	-70
OPERAT. TEMP. [F]	-13	-40	-94
CORRECTION FACTOR C_D	1.1	1	0.7



OPERATING TEMPERATURE - CORRECTION FACTORS - C_{OT}								
OPERAT. TEMP. [°C]	25	30	35	40	45	50	55	60
OPERAT. TEMP. [F]	77	86	95	104	113	122	131	140
CORRECTION FACTOR C_{OT}	1	1	1	0.97	0.87	0.80	0.64	0.51

OPERATING PRESSURE - CORRECTION FACTORS - C_{OP}															
OPERATING PRESS. [bar]	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
OPERATING PRESS. [psi]	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232
CORRECTION FACTOR C_{OP}	0.38	0.5	0.63	0.75	0.88	1	1.13	1.25	1.38	1.50	1.63	1.75	1.88	2.00	2.13

[1] Refers to 1bar(a) and 20°C at 7 bar operating pressure, inlet temperature 35°C and pressure dew point at outlet -40°C.

[2] Outlet flow refers to typical assumption during regeneration phase for operating at nominal inlet flow conditions. Outlet flow includes average air losses of approximately 17.3 %.

* If dryer is supplied without inlet filter compressed air class 1 (ISO 8753-1) for solid particles and oil should be provided to the inlet of the dryer.

CHX-DRY SERIES HEATLESS REGENERATED MODULAR ADSORPTION DRYERS

At a glance…

Operating Pressure
4 - 16 bar

Flow Rate
300 - 1050 Nm³/h

Pressure Dew Points
-40°C [-25°C/ -70°C]

Operating Temp. Range
1.5 - 60°C

CHX-DRY 300-1050 modular adsorption dryers are designed for continuous separation of water vapour from compressed air thus reducing dew point. Operation of dryer requires two columns operated alternately.

Adsorption takes place under pressure in first column while second column regenerates with a portion of already dried compressed air at ambient pressure.

A dryer consists of two columns, filled with desiccant beads, controller with LCD dicplay, valves, manometers, support construction and suitable filter housings with the required filter element. Proven robust design enables efficient and reliable operation, fast installation and simple maintenance.

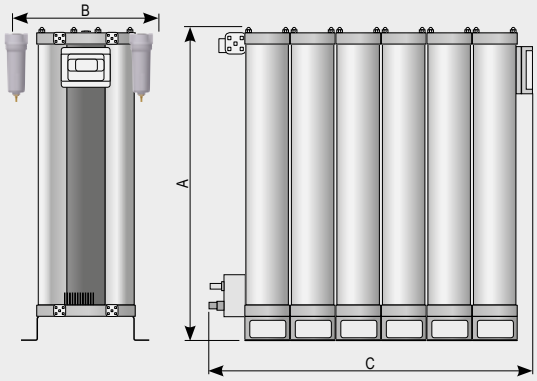
TYPE	PART NO	CONNECTION IN/OUT[3]	NOMINAL VOLUME FLOW INLET[1] [Nm³/h]	NOMINAL VOLUME FLOW OUTLET[2] [Nm³/h]	DIMENSIONS A [mm]	DIMENSIONS B [mm]	DIMENSIONS C [mm]	WEIGHT [kg]
CHX-DRY 300	**CC1148774**	G 2"	300	237	1,515	674	686	350
CHX-DRY 450	**CC1148775**	G 2"	450	255.5	1,515	674	886	520
CHX-DRY 600	**CC1148776**	G 2"	600	474	1,515	674	1,086	690
CHX-DRY 750	**CC1148778**	G 2"	750	592.5	1,515	674	1,286	860
CHX-DRY 900	**CC1148779**	G 2"	900	711	1,515	674	1,486	1030
CHX-DRY1050	**CC1148780**	G 2"	1,050	829.5	1,515	674	1,686	1200

OPERATING PRESS. RANGE	4 to 16 bar
OPERATING TEMP. RANGE	+1.5°C to +60°C
PRESSURE DEW POINTS	-40°C [-25°C / -70°C]
VOLTAGE, FREQUENCY	230V, 50/60 Hz
POWER CONSUMPTION	<60 W
PROTECTION CLASS	IP 65
FILTER (INLET)*	Super fine - 0.01 µm
FILTER (OUTLET)	Dust filter; 1 µm

[1] Refers to 1bar(a) and 20°C at 7 bar operating pressure, inlet temperature 35°C and pressure dew point at outlet -40°C.

[2] Outlet flow refers to typical assumption during regeneration phase for operating at nominal inlet flow conditions. Outlet flow includes average air losses of approximately 17.3%.

[3] Refers to inlet and outlet filter housing.



CORRECTION FACTORS - F1															
OPERATING PRESS. [bar]	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
OPERATING PRESS. [psi]	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232
CORRECTION FACTOR	0.38	0.5	0.63	0.75	0.88	1	1.13	1.25	1.38	1.50	1.63	1.75	1.88	2.00	2.13

CORRECTION FACTORS - F2								
INLET TEMPERATURE [°C]	25	30	35	40	45	50	55	60
CORRECTION FACTOR	1.00	1.00	1.00	0.97	0.87	0.80	0.64	0.51

DEW POINT			
[°C]	-25	-40	-70
C_D	1.1	1	0.7

VERTICAL AIR RECEIVERS

At a glance…

Operating Pressure
11 - 15 bar

Capacity
270 - 3000l

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

VERTICAL TANKS[1]	Ø X H [mm]	WEIGHT [kg]	IN / OUT	MAXIMUM PRESSURE [bar]	REG.	PACKING	CODE
TANK 270 L	490 x 1,664	70	1" / 1"	11	CE 87 / 404	+ 2 %	**220662K**
TANK 500 L	600 x 2,055	125	1" / 1"	11	CE 87 / 404	+ 2 %	**220663K**
TANK 500 L 15 BAR	600 x 2,055	145	1" / 1"	15	CE 87 / 404	+ 2 %	**220749K**
TANK 720 L	750 x 2,030	195	1"/ 1"	11	CE 87 / 404	+ 2 %	**220713K**
TANK 1000 L	800 x 2,335	270	2" / 2"	12	CE 97 / 23	+ 1.5 %	**220664K**
TANK 2000 L	1,100 x 2,485	360	2" / 2"	12	CE 97 / 23	+ 1.5 %	**220665CK**
TANK 3000 L	1,200 x 2,980	530	2" / 2"	12	CE 97 / 23	+ 1.5 %	**220668CK**

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

CONDENSATE DRAINS

IED SERIES
ELECTRONIC CONDENSATE DRAINS

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

EMD SERIES
ELECTRONIC CONDENSATE DRAINS

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

ECD-B SERIES
ELECTRONIC CONDENSATE DRAINS

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

SAC 160 SERIES
TIME CONTROLLED CONDENSATE DRAINS

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

SAC 120
AUTOMATED CONDENSATE DRAINS

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

Recommendations

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

SAC 70
AUTOMATED CONDENSATE DRAIN

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

MCD
MANUAL CONDENSATE DRAIN

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

CHWOSM SERIES
WATER - OIL SEPARATORS

TECHNICAL DATA	
OPERATING TEMPERATURE	1.5 - 45 °C [max 65 °C][1]; 35 - 113 °F [max. 149 °F][1]
OPERATING MEDIA	Condensate (air, water, oil); Non agresive; Not suitable for emulsion
RESIDUAL OIL CONTENT	< 20ppm
SERVICE INTERVAL	When first of following parametres appears:
	- 4000 operating hours of compressor[2]
	- 12 months regardless of compressor operating hours
	- when all white polypropylene media becomes yellow

		COLD CLIMATE ZONE 15°C 60% RH	MILD CLIMATE ZONE 25°C 60% RH	HOT CLIMATE ZONE 40°C 100% RH	DIMENSIONS [mm] H	DIMENSIONS [mm] φ	PART NO
CHWOSm1	MAX OIL ADSORPTION [g]	740	650	370	483	106	CC1148194
	MAX FAD [Nm³/min]/[scfm]	1.23 / 43.05	1.08 / 37.8	0.62 / 21.9			
	MAX CONDENSATE FLOW [l/h]	0.57	0.90	1.91			
CHWOSm2	MAX OIL ADSORPTION [g]	1520	1340	770	816	106	CC1148195
	MAX FAD [Nm³/min]/[scfm]	2.54 / 88.9	2.23 / 78.05	1.28 / 45.2			
	MAX CONDENSATE FLOW [l/h]	1.19	1.87	3.96			

[1] Max. operating temperature is 65 °C, but when temperature is over 45 °C, performance may decrease.

[2] At compressor oil carryover 2,5 mg/m3. Lower/higher oil carry over means proportionally longer/shorter lifetime (e.g. if oil carryover is 5 mg/m3 lifetime reduces to 2000 operating hours).

CHWOS SERIES
WATER - OIL SEPARATORS

TECHNICAL DATA	
OPERATING TEMPERATURE	1.5 - 45 °C [max 65 °C]; 35 - 113 °F [max. 149 °F]
OPERATING MEDIA	Condensate (air, water, oil); Non agresive; Not suitable for emulsion
RESIDUAL OIL CONTENT	< 10ppm
SERVICE INTERVAL	When first of following parametres appears:
	- 4000 operating hours of compressor
	- 12 months regardless of compressor operating hours
	- Outlet oil concentration reaches conc. determined with local directives

TECHNICAL DATA		COLD CLIMATE ZONE 15°C 60%RH	MILD CLIMATE ZONE 25°C 60%RH	HOT CLIMATE ZONE 40°C 100%RH	DIMENSIONS [mm] A	B	C	PART NO
CHWOS4	MAX OIL ADSORPTION [kg]	2.89	2.43	1.23	416	243	411	CC1148196
	MAX FAD [Nm³/min]/[scfm]	4.82 / 170	4.04 / 142	2.05 / 72.3				
	MAX CONDENSATE FLOW [l/h]	2.3	3.4	6.3				
CHWOS8	MAX OIL ADSORPTION [kg]	6.01	5.04	2.55	730	343	680	CC1148197
	MAX FAD [Nm³/min]/[scfm]	10.0 / 353	8.4 / 296	4.25 / 150				
	MAX CONDENSATE FLOW [l/h]	4.7	7.1	13.1				
CHWOS20	MAX OIL ADSORPTION [kg]	14.64	12.28	6.22	820	366	940	CC1148198
	MAX FAD [Nm³/min]/[scfm]	24.4 / 861	20.5 / 723	10.37 / 366				
	MAX CONDENSATE FLOW [l/h]	11.4	17,2	32.0				
CHWOS35	MAX OIL ADSORPTION [kg]	25.4	21.31	10.79	960	386	1,137	CC1148199
	MAX FAD [Nm³/min]/[scfm]	42.3 / 1495	35.5 / 1254	17.99 / 635				
	MAX CONDENSATE FLOW [l/h]	19.8	29.8	55.6				

CHNP SERIES NITROGEN GENERATORS

At a glance…

Operating Pressure
6 - 10 bar

Ambient Air Temp. Range
up to 40°C

Capacity
3 - 442.5 Nm³/h

Operating Temp. Range
5 - 35°C

The CHNP 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. The sieve releases the adsorbed gases to the atmosphere, when the outlet valve is closed and the bed pressure returns to ambient pressure.

Subsequently the bed will be purged with nitrogen before fresh compressed air will enter for a new production cycle. In order to guarantee a constant product flow NP nitrogen generators use two molecular sieve beds, which alternatively switch between the adsorption and the regeneration phase.

OTHER PRODUCTS AVAILABLE FROM BroomWade

Activated Carbon Towers; Tac Series. After Coolers; ACA & WCA Series. Skid Based Solutions; SKID NP and Generators.

Notes

SERVICE & SPARE PARTS

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


BroomWade
flexiAIR
KA7 PLUS
KSV45
KBV22

WARRANTY DURATION AND OPTIONS

• Warranty overview by model - range

MODEL - RANGE	WARRANTY DURATION	EXTENDED WARRANTY AVAILABLE
KA 2-7 Series Screw Compressors	24 Months[1]	✗
KSB / KBV 15-22 Series Srew Compressors	24 Months[1]	✓
KSA / KSV 11, 30-75 Series Screw Compressors	24 Months[1]	✓
BroomWade Vane Compressors CMPV01-V04	24 Months[1]	✗
BroomWade Portable Screw Compressors	12 Months	✗
BroomWade Reciprocating Compressors	12 Months	✗
BroomWade S Series Scroll Compressors	12 Months	✗
BroomWade Dryers (CHA-DRY, CHB DRY, CHX DRY, CT)	24 Months[1]	✓
BroomWade Nitrogen Generators CHNP03-400	24 Months[1]	✓
BroomWade Filters, Water Separators & Accessories	12 Months	✗
Replacement Spare Parts	12 Months	✗

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

• Replacement spare parts

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

BroomWade will not warrant adjacent components to the replacement part

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

• Extended warranty

CODE	DESCRIPTION
CC1180791	Extended Warranty 5 years for screw compressors 7.5 - 22 kW
CC1180793	Extended Warranty for screw compressors 30 - 75 kW
CC1180791	Extended Warranty for dryers
CC1180793	Extended Warranty for nitrogen generators

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

Rotary screws service schedule & spare part kits

KA02 - KA7 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 72 MONTHS[1]	EVERY 16000 HOURS OR 72 MONTHS[1]
SERVICE A	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		•	•	•	•	•	•
SERVICE D	Oil filter	Renew oil filter element			•	•	•	•	•
	Air filter	Renew air filter element			•	•	•	•	•
	Separator filter	Replace oil separator cartridges			•	•	•	•	•
	Oil system	Renew oil (ChampLUBE)			•	•	•	•	•
	Relief valve	Check operation of pressure relief valve			•	•	•	•	•
	Aftercooler/oil cooler	Clean cooler externally			•	•	•	•	•
	Oil system	Clean oil return line			•	•	•	•	•
	Valves	Change safety valve			•	•	•	•	•
	General	Clean recovery nozzle			•	•	•	•	•
SERVICE E	Valves	Thermostatic valve KIT				•	•	•	•
	Valves	Non return valve				•	•	•	•
	Gaskets	Tank cap gasket				•	•	•	•
	Filters	Control cabinet filter replacement				•	•	•	•
ADDITIONAL	Drive belts	Replace the belts and check drive pulleys, replace if worn out				•	•	•	•
	Inlet valve	Replace seal kits of inlet valve				•	•	•	•
	Valves	Suction valve KIT				•	•	•	•
	Valves	Minimum pressure valve KIT				•	•	•	•
	Oil hoses	Replace oil hoses				•	•	•	•
	Drive motor	Check and re-tighten main motor cables				•	•	•	•
	Air end	Replace shaft seal kit				•	•	•	•
	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.

AFTERMARKET

KSA11, KSV11, KSB15-22, KBV15-22 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 12000 HOURS OR 36 MONTHS[1]	EVERY 24000 HOURS OR 72 MONTHS[1]	EVERY 36000 HOURS OR 96 MONTHS[1]	EVERY 48000 HOURS OR 144 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	BroomWade pilot controller	Check fault history		•	•	•	•	•	•	•	•
	BroomWade pilot 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			•	•	•	•	•	•	•
	BroomWade pilot controller	Check connections and plugs			•	•	•	•	•	•	•
SERVICE D	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 E	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.

KSA / KSV 30-75 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 12000 HOURS OR 36 MONTHS[1]	EVERY 24000 HOURS OR 72 MONTHS[1]	EVERY 36000 HOURS OR 96 MONTHS[1]	EVERY 48000 HOURS OR 144 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	Airbasic controller	Check fault history		•	•	•	•	•	•	•	•
	Airbasic 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			•	•	•	•	•	•	•
	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			•	•	•	•	•	•	•
SERVICE D	Separator filter	Renew separator filter				•	•	•	•	•	•
	Thermostatic valve KIT	Thermostatic valve KIT				•	•	•	•	•	•
	N/R valve	N/R valve				•	•	•	•	•	•
		Tank cap gasket				•	•	•	•	•	•
	Control system	Control cabinet filter replacement				•	•	•	•	•	•
	Oil scavenge system	Clean and check operation				•	•	•	•	•	•
		Clean recovery nozzle				•	•	•	•	•	•
	Relief valve	Functionally test				•	•	•	•	•	•
	Drive belts	Check condition of belts and renew if required				•	•	•	•	•	•
SERVICE E	Oil scavenge system	Renew oil scavenge tubing					•			•	
	Minimum pressure valve	Renew minimum pressure valve					•			•	
	Intake valve	Overhaul intake valve					•			•	
	Emergency stop button	Test emergency stop button					•			•	
	Motor drive coupling insert	Check condition and renew if required					•			•	
	Vsd drive/starter	Check condition of contacts and renew if required					•			•	
ADDITIONAL	Air end	Renew air end shaft seal							•		•
	Shaft seal oil return tube	Renew shaft seal oil return tube							•		•
	Oil hoses	Check condition and renew if required						•	•	•	•
	Control solenoids	Renew control solenoids						•	•	•	•
	Drive belts[3]	Renew drive belts						•	•	•	•
	Drive motor bearings	Renew drive motor bearings							•		•
	Drive motor AVM's	Check drive motor Anti Vibration Mounts							•		•
	Air end discharge temperature sensor	Renew temperature sensor								•	
	Oil bypass element	Renew oil bypass element								•	
	Air end AVM's	Check air end Anti Vibration Mounts									•
	Air end	Renew air end	Predictive - only when required								

[1] Whichever occurs soonest

[2] Normally undertaken by end user through visual check

[3] If applicable

Inspection of the pressure vessel in accordance with local guidelines

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

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

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

SERVICE KITS OIL LUBRICATED SCREW COMPRESSORS

		EVERY 2000 HOURS OR 12 MONTHS[1]	EVERY 4000 HOURS OR 12 MONTHS[1]	ANNUAL KIT[1]	EVERY 8000 HOURS OR 24 MONTHS[1]	HOSE KITS EVERY 12,000 HOURS
KA2-KA5	Fixed speed	CC1089648	CC1089649		CC1089650	CC1093045
KA7 Plus	Fixed speed	CC1089652	CC1125190		CC1125192	CC1089655
KSA - KSV30	Fixed and regulated speed	CC1090691	CC1121434		CC1121435	CC1121436
KSA - KSV 37-45	Fixed and regulated speed	CC1090691	CC1121437		CC1121438	CC1121439
KSA 55-75	Fixed speed	CC1154032	CC1154033		CC1154034	
KSV 55-75	Regulated speed	CC1154032	CC1154035		CC1154036	
KSA - KSV 11	Fixed and regulated speed	CC1089656	CC1089657		CC1089658	
KSB - KBV 15-22	Fixed and regulated speed			CC1178518	CC1180296	

Mineral Lubricant ChampLube 5 L	CC1180019
Mineral Lubricant ChampLube 20 L	CC1180020

[1] Annual service kits have to be repeated every 12 months

Only the above lubricants are allowed to be used to comply with BroomWade 5 Years Extended Warranty.

Piston Compressors service schedule & spare part kits

OIL LUBRICATED PISTON COMPRESSOR SERVICE SCHEDULE
G-MA-MAS-LTA-LSA-STA-TA-TAS-TAR-TVB-TVG SERIES

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

SILENT PISTON COMPRESSOR SERVICE SCHEDULE
S - SD - STS- STSD RANGE

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

SILENT PISTON COMPRESSOR SERVICE SCHEDULE SD - STSD RANGE (SEE PREVIOUS TABLE)

	WEEKLY	MONTHLY	YEARLY
Verify temp on control panel	•	•	•
Drain condensate	•	•	•
Clean condenser		•	•
Check flexible condensate tube			•
Check connecting pipes connections			•

OIL FREE PISTON COMPRESSOR SERVICE SCHEDULE OF - F SERIES

	WEEKLY	MONTHLY	YEARLY
Drain condensate tank	•	•	•
Clean suction filter element		•	•
Replace filter element			•

SERVICE KITS PISTON COMPRESSORS

OIL FREE PISTON COMPRESSORS			
CC1182784	OF-6-15, G-24-15, G-50-15		
CC1182799	F-50-3		
CC1182796	VS-20-25		
DIRECT DRIVEN PISTON COMPRESSORS			
CC1182785	G-24-2,G-50-2	Filter Element, Valve Plate, Kit Gasket, Kit Piston, Kit Piston Ring	1000 hours
CC1182788	G-50-25		
CC1182791	V-20-25, SIL-24-25, SIL-90-25	2x Filter Element, 2x Valve Plate, 2x Kit Gaskets, 2x Kit Piston, 2x Kit Piston Ring	1000 hours
CC1182793	V-50-25		
CC1182802	V-20-3, V-50-3		
2 STAGE PISTON COMPRESSORS			
CC1182824	TA-150-55, TA-270-55, TA-500-55, TVB-270-55, TVG-270-4, S-270-4, S-55, S-55-12, SD-270-4, SD-500-55, PA-270-9, S-500-55	Filter Element, Valve Plate, Kit Gasket, HP Piston Kit, LP Piston Kit, HP Piston Ring Kit, LP Piston Ring Kit, Safety Valve (6 bar)	2000 hours
CC1182825	LTA-500-55, TA-90-55, TVG-270-55, TVS-270-55, DA-270-10		
CC1182826	TAS-270-55, PA-270-55		
CC1182827	LSA-500-75, LTA-500-75, STA-270-10, STA-500-10, TA-270-10, TA-500-10, S-10, S-10-12, S-500-10, S-500-75, S-75, S-75-12, SD-500-10, SD-500-75, STS-10, STS-10-12, STS-500-10, STS-500-75, STS-75, STS-75-12, STSD-500-10, STSD-500-75, PA-500-13		
CC1182828	STA-270-75, STA-500-75, TA-150-75, TA-270-75, TA-500-75, TVB-270-75		
CC1182829	TAR-500-75, TAS-500-75		
CC1182830	LSA-500-10		
SINGLE STAGE PISTON COMPRESSOR			
CC1182806	MA-100-2,MA-150-2, MA-50-2, PA-50-5	Filter Element, Valve Plate, Kit Gasket, 2x Piston Kit, 2x Piston Ring Kit	1500 hours
CC1182809	MA-100-3, MA-150-3, MA-200-3, MA-270-3, MA-50-3, TA-200-3, TA-270-4, PA-100-5, PA-200-5, MAB-150-3, MAC-150-3, TA-200-6, S-90-3		
CC1182811	MA-90-3		
CC1182812	MAS-200-3, TAS-200-3		
CC1182813	TA-200-4, TA-90-4, PA-200-55, S-200-3		
CC1182831	SOF-6-1	Filter Element, Valve Plate, Gasket Kit, Piston Kit	500 hours
CC1182834	SOFB-6-15		
CC1182833	PA-25-5, PA-4-5		

Vane Compressors service schedule & spare part kits

VANE CMPV01-04 KW SERVICE SCHEDULE

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

[1] Whichever occurs soonest

[2] Normally undertaken by end user through visual check

Inspection of the pressure vessel in accordance with local guidelines

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

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

SERVICE KITS OIL LUBRICATED VANE COMPRESSORS

		EVERY 2000 HOURS OR 12 MONTHS[1]	EVERY 24000 HOURS	CHAMPLUBE VANE LUBRICANT 1L
CMPV01, CMPV02	Fixed speed	C-AK0102	C-OK0102	CC1180033
CMPV04	Fixed speed	C-AK04	C-OK04	CC1180033

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

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

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

Scroll Oil Free Compressors service schedule & spare part kits

SCROLL S04 & S07D SERVICE SCHEDULE

		DAILY[2]	EVERY 500 HOURS OR 2 MONTHS[1]	EVERY 2000 HOURS OR 6 MONTHS[1]	EVERY 5000 HOURS OR 12 MONTHS[1] 10 Bar	EVERY 10000 HOURS OR 24 MONTHS[1] 8 Bar
Complete scroll air end	Inspect for excessive noise and vibration	•				
Complete scroll	Check for air leaks	•				
Intake air filter	Clean and inspect		•			
V-belts	Inspect and adjust V-Belts		•			
Intake air filter	Replace intake air filter			•	•	•
Cooling	Inspect and clean cooler			•	•	•
Sirocco fan	Clean & inspect			•	•	•
Airend fin	Clean & inspect				•	•
Scroll bearings	Re-grease the bearing				•	•
Tip seals & face seals	Replace the seals				•	•

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

[2] Performed by the end user

Inspection of the pressure vessel in accordance with local guidelines

SCROLL S06, S08, S11D & S15D SERVICE SCHEDULE

		DAILY[2]	EVERY 500 HOURS OR 2 MONTHS[1]	EVERY 2000 HOURS OR 12 MONTHS[1]	EVERY 5000 HOURS OR 24 MONTHS[1] 10 Bar	EVERY 10000 HOURS OR 48 MONTHS[1]	EVERY 20000 HOURS OR 8 YERRS[1] 8 Bar	EVERY 15000 HOURS OR 6 YEARS[1] 10 Bar
Complete scroll	Inspect for excessive noise and vibration	•						
Complete scroll	Check for air leaks	•						
Intake air filter	Clean and inspect		•					
V-beltss	Inspect and adjust V-Belts		•					
Intake air filter	Replace intake air filter			•	•	•		
Cooling	Inspect and clean cooler			•	•	•		
Cooling fan & scroll fin	Clean & inspect			•	•	•		
Scroll bearings	Re-grease the bearing				•	•		
Tip seals & face seals	Replace the seals				•	•		
Brushes (7.5Kw only)	Replace the drum				•	•		
Scroll airend	Replace the scroll airend						•	•

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

[2] Performed by the end user

Inspection of the pressure vessel in accordance with local guidelines

SERVICE KITS OIL FREE SCROLL COMPRESSORS

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

Portable Compressors service schedule & spare part kits

PORTABLES CMP-P10, CMP-P12, CMP-P14 SERVICE SCHEDULE

		EACH START UP	FIRST 120 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 litre) is included in the service kits. BroomWade only recommends this oil.
The compressor oil that is recommended is SACO-32. Please ask your distributor for further information
Fuel - Use automotive gasoline (unleaded)

SERVICE KITS PORTABLE SCREW COMPRESSORS

	EVERY 100 HOURS OR 6 MONTHS[1]	EVERY 300 HOURS OR 12 MONTHS[1]	MINERAL LUBRICANT
CMP-P10, CMP-P12, CMP-P14	CC1121408	CC1121413	SCUO2000-5GT

[1] Maintenance time intervals are based on operating hours or calendar date, whichever occurs first.
BroomWade will not accept any responsibility for changes made to service kit numbers, prior to updating this document.
For belts, hoses, shaft seal kits and all other repair spare parts please consult the relevant parts lists

Dryers service schedule & spare part kits

BROOMWADE CT3-220 REFRIGERATION DRYER SERVICE SCHEDULE

		DAILY[2]	WEEKLY	EVERY 4 MONTHS	EVERY 12 MONTHS
Controller	Check POWER ON indicator is lit	•			
Controller	Check control panel indicators	•			
Condensate drain	Check condensate drain		•	•	•
Fins	Clean condenser fins			•	•
Electrical	Check electrical absorption			•	•
Refrigerant	Check refrigerant leaks				•
Drain	Depressurise the dryer. Replace electronic drainer service unit				•
Filtration	Depressurise the dryer. Replace pre- and post-filter elements				•

SERVICE PARTS CT DRYERS

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

ADSORPTION AIR DRYERS BROOMWADE CHA-DRY SERVICE SCHEDULE

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

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

KITS FOR CHA-DRY 6 - 200

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

ADSORPTION AIR DRYERS BROOMWADE CHB-DRY SERVICE SCHEDULE

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

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

KITS FOR CHB-DRY 110 - 1000

	KIT PART NUMBER		
A	**CC1182775**	Silencer kit CHB-DRY 110-250	Silencer service kit for CHB-DRY 110/150/200/250
A	**CC1182776**	Silencer kit CHB-DRY 300-600	Silencer service kit for CHB-DRY 300/400/600
A	**CC1182777**	Silencer kit CHB-DRY 800-1000	Silencer service kit for CHB-DRY 800/1000
D	**CC1182893**	KIT Service CHB-DRY 110-250/24	Control valves replacement components
D		24 months replacement kit	
D	**CC1182894**	KIT Service CHB-DRY 300-600/24	Check valves replacement components
D		24 months replacement kit	Silencer service kit
D	**CC1182895**	KIT Service CHB-DRY 800-1000/24	Check valves replacement components
D		24 months replacement kit	Silencer service kit
E	**CC1182746**	KIT Service CHB-DRY 110/48	Control valves replacement components
E		48 months replacement kit	Check valves replacement components Silencer service kit
E	**CC1182747**	KIT Service CHB-DRY 150/48	Control valves replacement components
E		48 months replacement kit	Check valves replacement components Silencer service kit
E	**CC1182748**	KIT Service CHB-DRY 200/48	Control valves replacement components
E		48 months replacement kit	Check valves replacement components Silencer service kit
E	**CC1182749**	KIT Service CHB-DRY 250/48	Control valves replacement components
E		48 months replacement kit	Check valves replacement components Silencer service kit
E	**CC1182750**	KIT Service CHB-DRY 300/48	Control valves replacement components
E		48 months replacement kit	Check valves replacement components Silencer service kit
E	**CC1182751**	KIT Service CHB-DRY 400/48	Control valves replacement components
E		48 months replacement kit	Check valves replacement components Silencer service kit
E	**CC1182752**	KIT Service CHB-DRY 600/48	Control valves replacement components
E		48 months replacement kit	Check valves replacement components Silencer service kit
E	**CC1182753**	KIT Service CHB-DRY 800/48	Control valves replacement components
E		48 months replacement kit	Check valves replacement components Silencer service kit
E	**CC1182774**	KIT Service CHB-DRY 1000/48	Control valves replacement components
E		48 months replacement kit	Check valves replacement components Silencer service kit
PARTS	**2505546**	DEW POINT SENSOR OS 220	Sensor OS 220 without cable
PARTS		-100°C...+20°C, 50bar,1x4-20mA	

ADSORPTION AIR DRYERS BROOMWADE CHX-DRY SERVICE SCHEDULE

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

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

KITS FOR CHX-DRY 350 - 1050

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

Dryers service schedule & spare part kits

FILTER GUIDE

FILTER TYPE	M^3/MIN	SIZE	FILTER ID NO	FILTER ELEMENT	ELEMENT NO
CERAMIC PRE-FILTERS 3 MICRON					
F 005 P	1	3/8"	223051A	Filter Cartridge F005P	**223171**
F 007 P	1.3	1/2"	223052A	Filter Cartridge F007P	**223172**
F 010 P	2	3/4"	223053A	Filter Cartridge F010P	**223173**
F 018 P	3.3	1 "	223054A	Filter Cartridge F018P	**223174**
F 030 P	5.5	1 "	223055A	Filter Cartridge F030P	**223175**
F 047 P	8.5	1 1/2"	223056A	Filter Cartridge F047P	**223176**
F 070 P	13	1 1/2"	223057A	Filter Cartridge F070P	**223177**
F 094 P	16.6	2"	223058A	Filter Cartridge F094P	**223178**
F 150 P	25	2"	223059A	Filter Cartridge F150P	**223179**
F 200 P	36	3"		Filter Cartridge F200P	**CC1183012**
F 240 P	46	3"	223060A	Filter Cartridge F240P	**223180**
COALESCENT FILTERS 0.1 MICRON					
F 005 M	1	3/8"	223061A	Filter Cartridge F005M	**223181**
F 007 M	1.3	1/2"	223062A	Filter Cartridge F007M	**223182**
F 010 M	2	3/4"	223063A	Filter Cartridge F010M	**223183**
F 018 M	3.3	1"	223065A	Filter Cartridge F018M	**223184**
F 030 M	5.5	1"	223066A	Filter Cartridge F030M	**223185**
F 047 M	8.5	1 1/2"	223067A	Filter Cartridge F047M	**223186**
F 070 M	13	1 1/2"	223068A	Filter Cartridge F070M	**223187**
F 094 M	16.6	2"	223069A	Filter Cartridge F094M	**223188**
F 150 M	25	2"	223081A	Filter Cartridge F150M	**223189**
F 200 M	36	3"		Filter Cartridge F200M	**CC1183034**
F 240 M	46	3"	223064A	Filter Cartridge F240M	**223190**
COALESCENT FILTERS 0.01 MICRON					
F 005 S	1	3/8"	223070A	Filter Cartridge F005S	**223191**
F 007 S	1.3	1/2"	223071A	Filter Cartridge F007S	**223192**
F 010 S	2	3/4"	223072A	Filter Cartridge F010S	**223193**
F 018 S	3.3	1"	223073A	Filter Cartridge F018S	**223194**
F 030 S	5.5	1"	223074A	Filter Cartridge F030S	**223195**
F 047 S	8.5	1 1/2"	223075A	Filter Cartridge F047S	**223196**
F 070 S	13	1 1/2"	223076A	Filter Cartridge F070S	**223197**
F 094 S	16.6	2"	223077A	Filter Cartridge F094S	**223198**
F 150 S	25	2"	223078A	Filter Cartridge F150S	**223199**
F 200 S	36	3"		Filter Cartridge F200S	**CC1183035**
F 240 S	46	3"	223079A	Filter Cartridge F240S	**223200**
ACTIVATED CARBON FILTERS 0.005 MICRON					
F 005 A	1	3/8"	223090A	Filter Cartridge F005A	**223211**
F 007 A	1.3	1/2"	223091A	Filter Cartridge F007A	**223212**
F 010 A	2	3/4"	223092A	Filter Cartridge F010A	**223213**
F 018 A	3.3	1"	223093A	Filter Cartridge F018A	**223214**
F 030 A	5.5	1"	223094A	Filter Cartridge F030A	**223215**
F 047 A	8.5	1 1/2"	223095A	Filter Cartridge F047A	**223216**
F 070 A	13	1 1/2"	223096A	Filter Cartridge F070A	**223217**
F 094 A	16.6	2"	223097A	Filter Cartridge F094A	**223218**
F 150 A	25	2"	223098A	Filter Cartridge F150A	**223219**
F 200 A	36	3"		Filter Cartridge F200A	**CC1183036**
F 240 A	46	3"	223099A	Filter Cartridge F240A	**223220**
CONDENSATION SEPARATING FILTERS					
F 010 W	2	3/4"	223101A	Filter Cartridge F 010W	**CC1183037**
F 030 W	3.3	1"	223102A	Filter Cartridge F 030W	**CC1183038**
F 070 W	8.5	1 1/2"	223103A	Filter Cartridge F 070W	**CC1183039**
F 094 W	16.6	2"		Filter Cartridge F 094W	**CC1183040**
F 150 W	25	2"	223104A	Filter Cartridge F 150W	**CC1183041**
F 200 W	36	3"		Filter Cartridge F 200W	**CC1183042**

Nitrogen Generators service schedule & spare part kits

BROOMWADE NP 3 - 400 NITROGEN GENERATORS SERVICE SCHEDULE

			DAILY[2]	EVERY 2000 HOURS OR 3 MONTHS[1]	EVERY 4000 HOURS OR 6 MONTHS[1]	EVERY 8000 HOURS OR 12 MONTHS[1]	EVERY 16000 HOURS OR 24 MONTHS[1]	EVERY 24000 HOURS OR 36 MONTHS[1]	EVERY 40000 HOURS OR 60 MONTHS[1]
	Generator	Check the status indicators located on the front panel.	•						
	System	Check the inlet air quality		•	•	•	•	•	•
	Generator	Check for air leaks		•	•	•	•	•	•
	Generator	Check the pressure gauges during purging for excessive back pressure		•	•	•	•	•	•
	Generator	Check the condition of the electrical supply cables and conduits		•	•	•	•	•	•
	Generator	Check oxygen sensor(s) and calibrate if necessary		Δ	Δ	Δ	Δ	Δ	Δ
	Generator	Check for cyclic operation			•	•	•	•	•
A	Filtration	Replace exhaust silencer and filter element(s) Recommended Service A				†	†	†	†
B	Generator	Replace oxygen sensor(s) Recommended Service B					†	†	†
C	Generator	Replace control valves Recommended Service C						†	†
D	Generator	Replace cylinder and solenoid valves Recommended Service D							†

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

For nitrogen generators spare part kits please see "warranty and service schedules" published on **https://broomwade.support**

Notes

SALES CONDITIONS & PRICES

The products are manufactured in compliance with EU directives and other national standards.

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

- Vane & Portable Compressors - Redditch, UK
- Scroll Oil-Free Compressors - Simmern, Germany
- Spares Parts – Ghent, Belgium

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

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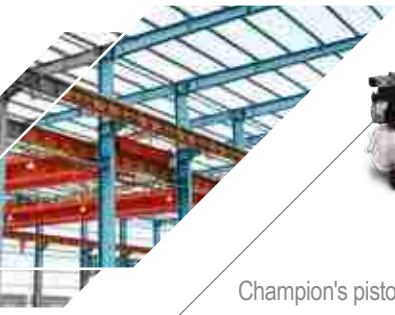
Notes

Notes

COMPRESSED AIR SOLUTIONS

BroomWade

YOUR COMPRESSED AIR PARTNER

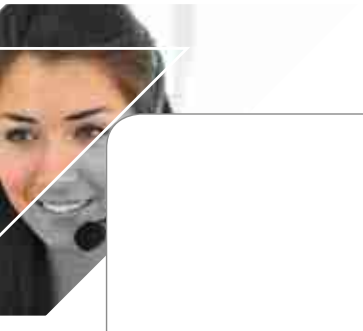


Champion's piston compressor range is designed to cover all the possible professional uses of compressed air. Our piston compressors come in various forms and sizes, providing a truly complete range of choices.

Champion stationary rotary screw compressors, both fixed and variable speed drive, are the answer to the needs of small and medium-sized companies.

A modern production system and process demands increased levels of air quality.
Our complete Air Treatment Range ensures product quality and efficient operation.

Champion also design and manufacture an enviable range of Rotary Scroll, Rotary Vane and Portable Rotary Screw compressors. All designed to provide efficiency and reliability in the most demanding applications and conditions, these compressors set new standards.



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For additional information please contact your local representative.

Specifications subject to change without notice.