



Quality air solutions

- Refrigerant Dryers
- Adsorption Dryers
- Filters
- Oil-Water Separators
- Accessories



Air. Anytime. Anywhere.



Join the ABAC advantage

Our brand values

ABAC Aria Compressa was founded in 1980 but its compressed air heritage dates back over 60 years. Customer expectations have always driven product development, resulting in a portfolio which fulfills your compressed air needs and offers you the value you are looking for. Additionally, our worldwide presence makes sure we are at your service at all times.

Benefit from these five strong values and team up with ABAC today.

★ Technology leader

With years of experience, ABAC can rely on an extensive technical know-how to provide you with compressed air solutions that get the job done. Understanding the needs of our customers, we lead the compressed air field by example.

★ Recognised quality

You expect quality and reliability from your ABAC compressor. Our production facilities combine history and experience with the latest production methods. We certify and guarantee every product we manufacture to make sure that ABAC is a partner you can rely on.

Air. Anytime. Anywhere.

★ Value for money

As a customer, you want a product that offers you value for money. ABAC does just that, offering a full portfolio of products at a competitive price. With the right mix of flexibility and experience we deliver value at the right price to the industrial, professional and DIY compressed air markets.

★ Extensive network

A vast network of distributors and resellers (over 1000 in more than 100 countries) means that there is always an ABAC representative nearby to provide you with service, support or products. As such, all you need to do is focus on your business, ABAC takes care of the rest.



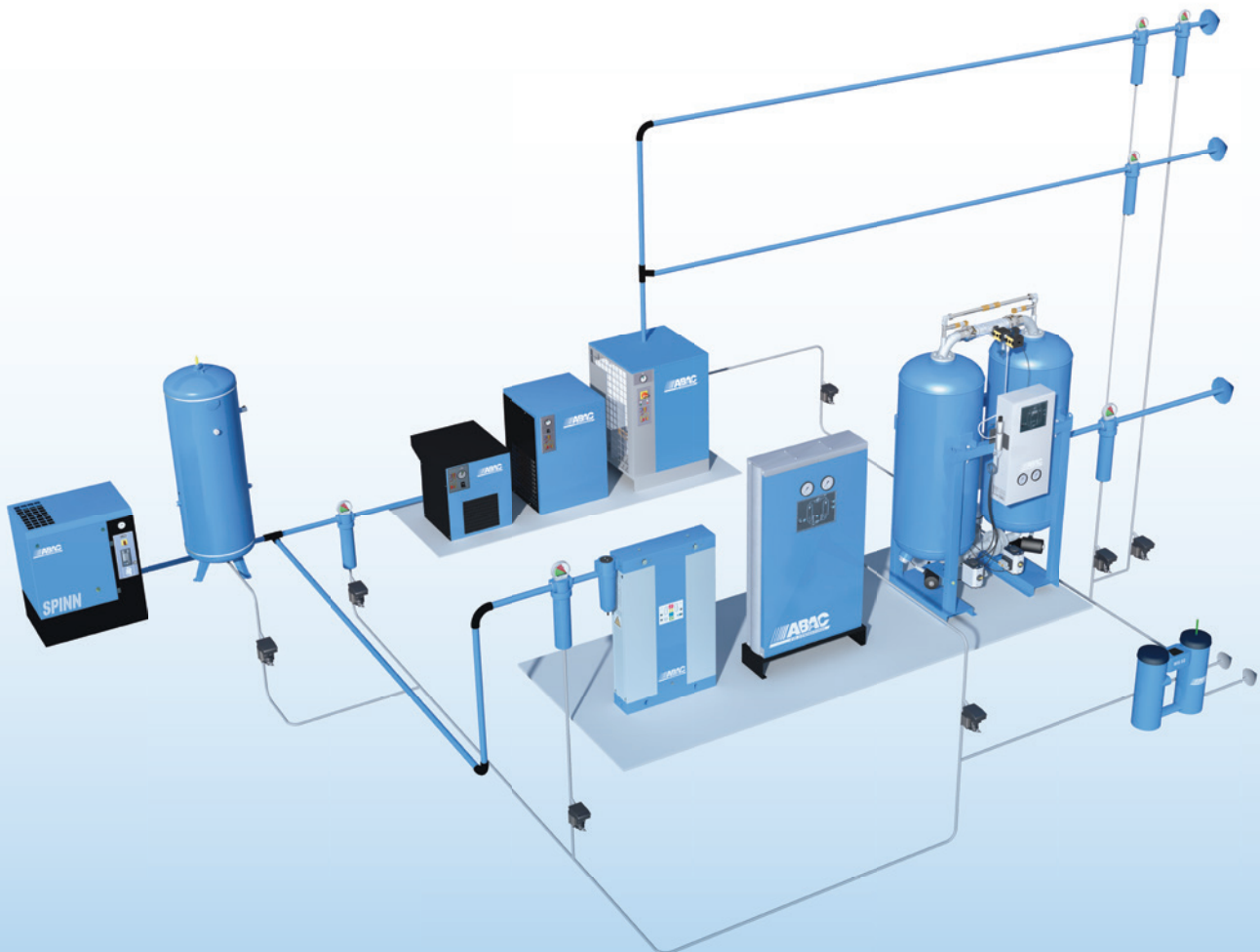
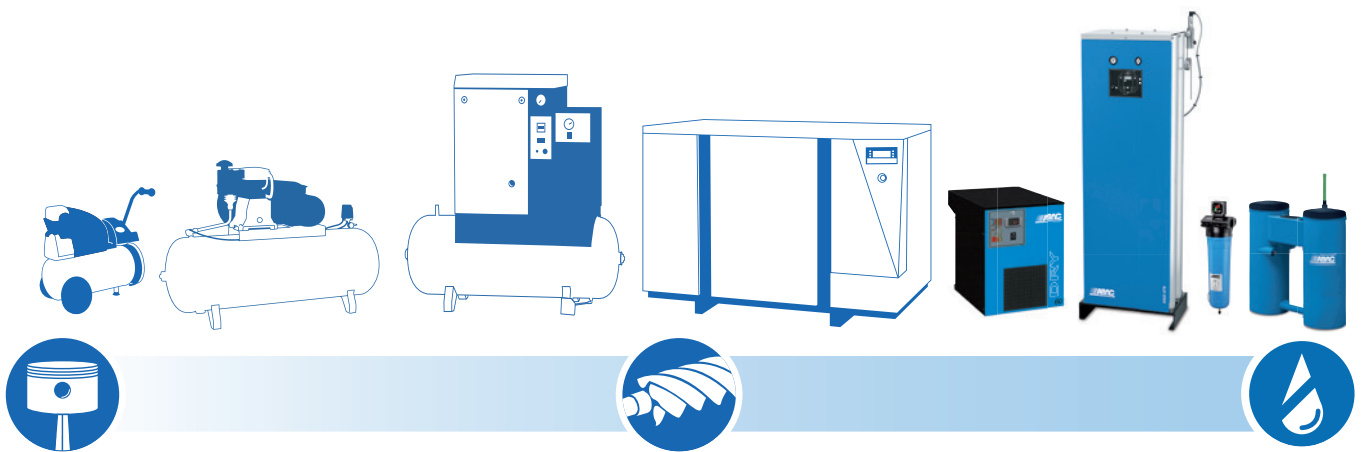
★ User-friendly design

Developing products with the customer in mind has always been a mainstay of ABAC's philosophy. As a result, ABAC compressors are designed to be easy to use providing you compressed air that is available when and where you need it.

Improve your business' productivity, quality and efficiency

ABAC quality air solutions will help you prevent corrosion, leakage, pollution and rust.

For an advanced lifetime and enhanced efficiency of your equipment and tools, ABAC has developed Quality Air Solutions going from source to point of use. With a range from dryers to filters, the compressed air will be treated for humidity and contamination to achieve a higher air quality and efficiency. Consequently, investing in quality air solutions will prevent potentially costly interruptions to production as well as a reduction in the efficiency and service life of the equipment used, making it a highly recommended component for every successful business.





Customer benefits of Quality Air Solutions

The advantages that come with Quality Air Solutions versus the risks that follow without it



Without
Quality air
Solutions



With
Quality Air
Solutions

Customers benefits

Without Quality air Solutions	Customers benefits	With Quality Air Solutions
Goes to the net	Eliminate the water/dust produced during compressing process	Immediately
High risk	Your air network is clean and protected against rust	Ensure
High risk	A clean air network reduces leakage	Secured
Shorten	The life span of your operation process (machine/equipment...)	Prolong
Harm	Safe use of pneumatic tools, with extended life time	Protect
High	Cost of maintenance of your air network (corrosion), operation process and potential downtime	Low
Decrease	Quality of the final product, and potential risk of product recalls	Improve
Variable	Operating cost control	Stable
Reduce	Your productivity	Boost
Potential	Freezing (in the piping/air network)	Eliminate

Our expertise

ABAC invests a lot of time and money in engineering and research & development to make sure every Quality air solution product meets the highest requirements. Years of experience have moreover generated an expertise which is among the best in our business. Consequently, all ABAC customers can count on excellent product quality and efficiency to take their business to the next level.



Our convinced customers are already improving their business' productivity, quality and efficiency by choosing for ABAC quality air solutions. Join them today!

Every quality air solution product is offered within a wide range which guarantees the right fit for every situation. Our dealers can rely on both experience and tools to offer their customers the right quality air solution product for each specific compressed air system. For both refrigerant and adsorption dryers, for example, a calculator tool has been created. With only a few clicks it will indicate which is the ideal type of dryer for your compressed air system. The calculators can be found on ABAC's my business portal under Quality air solutions.

ABAC

AIR DELIVERY 888,0 m³/h
14,8 m³/min
246 l/s
521,5 cfm

WORKING PRESSURE 8,7 bar
126 PSI

ROOM TEMPERATURE 20 °C
68 °F

DRYER INLET TEMPERATURE 30 °C
86 °F

RECOMMENDED DRYER **DRY 1040**
DRY 1040
Dryer with adsorbent 10.5 cubic meter

PRESSURE DROP 0,39 bar

ABAC

AIR DELIVERY 451 m³/h
7,5 m³/min
125 l/s
265 cfm

WORKING PRESSURE 7,0 bar
102 PSI

DRYER INLET TEMPERATURE 31 °C
88 °F

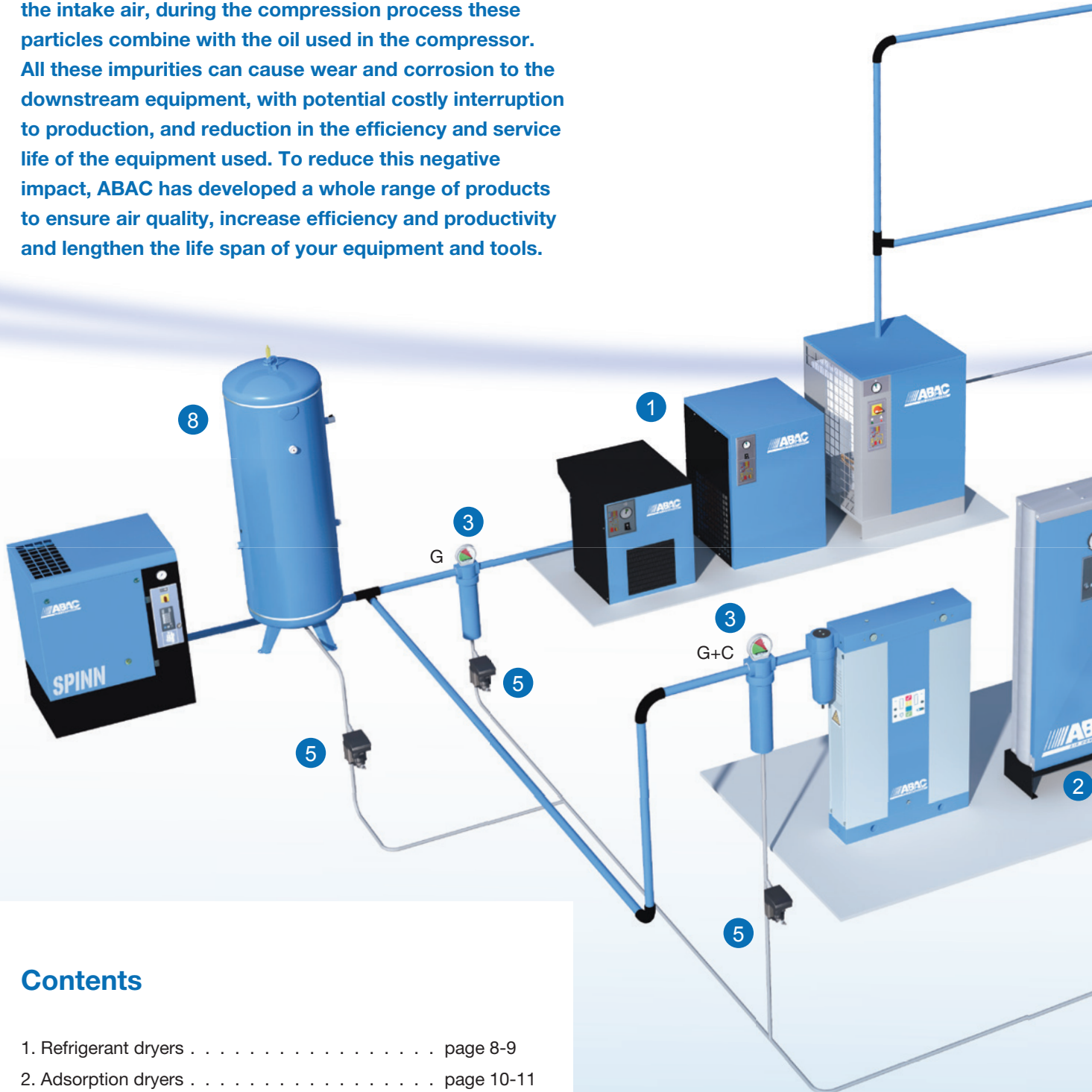
PRESSURE DUE POINT 40 °C / 104 °F
20 °C / 68 °F

SELECTED DRYER **HAD 470 (14,5 bar)**
FOR OCCASIONAL AIR DELIVERED OF : 451 m³/h
PRESSURE DROP 0,17 bar

RECOMMENDED DRYER **HAD 660 (11 bar)**
FOR CONSTANT AIR DELIVERED OF : 451 m³/h
PRESSURE DROP 0,25 bar

The right air quality for any application

A compressor takes humidity and contamination from the intake air, during the compression process these particles combine with the oil used in the compressor. All these impurities can cause wear and corrosion to the downstream equipment, with potential costly interruption to production, and reduction in the efficiency and service life of the equipment used. To reduce this negative impact, ABAC has developed a whole range of products to ensure air quality, increase efficiency and productivity and lengthen the life span of your equipment and tools.



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**ISO8573-1
Dust-Water-Oil**

Applications



Class 1:4:1



Class 1:4:2



Class 2:2:1
Class 2:1:1



Compressed air according to ISO 8573-1:2010

Purity class	Solid particles number of particles per m ³			Water Pressure dewpoint		Total oil* Concentration mg/m ³
	0,1 - 0,5 µm	0,5 - 1,0 µm	1,0 - 5,0 µm	°C	°F	
0	As specified by the equipment user or supplier and more stringent than Class 1.					
1	≤ 20.000	≤ 400	≤ 10	≤ -70	≤ -94	≤ 0,01
2	≤ 400.000	≤ 6.000	≤ 100	≤ -40	≤ -40	≤ 0,1
3	-	≤ 90.000	≤ 1000	≤ -20	≤ -4	≤ 1
4	-	-	≤ 10.000	≤ 3	≤ 37,4	≤ 5
5	-	-	≤ 100.000	≤ 7	≤ 44,6	-
6	≤ 5 mg/m ³			≤ 10	≤ 50	-

* Liquid, aerosol and vapour



Refrigeration Dryers

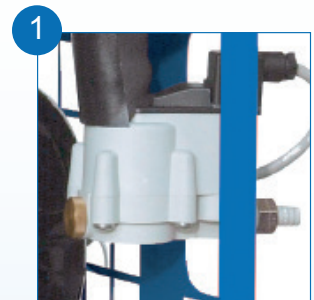
Today's compressed air production process is not only a matter of producing air, but also of confirming with defined purity criteria. As humidity is a component of atmospheric air, it can be found in the compressed air distribution systems and the machines that use the compressed air in the form of condensate and/or vapour.

ABAC provides refrigeration dryers to remove condensate and vapour so that dry compressed air is achieved and a continuous efficiency is preserved.



Main Benefits

- More economical distribution network
- Longer life span of your equipment and distribution network due to less wear
- Greater productivity and lower maintenance costs thanks to less breakdowns
- Intelligent discharge silently getting rid of water (1)
- Higher final product quality
- Increased reliability of your final tools/equipment
- Energy savings with lower pressure drops
- Easy dew point indicator reading (cfr. below)



PDP indicator

The operation of the DRY dryer is monitored by an electronic controller indicating all relevant information:

Technical details

- Status of the refrigerant dryer
- Status of the fan
- Dewpoint indication

Alarm display

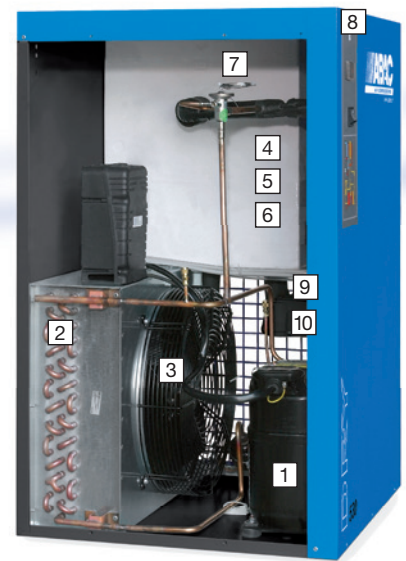
- Alarm about high or low dewpoint
- Fan probe failure (DRY 85-530)
- Service warning

Control panel with free contact (on request) for a:

- Remote PDP alarm (DRY 165-1260)
- Remote high refrigerant temperature (DRY 165-1260)
- Remote fan probe failure (DRY 165 - 530)



1. Refrigerant compressor driven by an electric motor, cooled using refrigerant fluid and protected against thermal overload.
2. Refrigerant condenser air-cooled and with a large exchange surface for high thermal exchange.
3. IP 54 motor-driven ventilator for the condenser cooling air flow.
4. Air/refrigerant evaporator with high thermal exchange and low leakage rates.
5. Condensate separator High-efficiency
6. Air – air heat exchanger with high thermal exchange and low load losses
7. Hot gas bypass valve controls the refrigerant capacity under all load conditions preventing any formation of ice within the system.
8. Instrument panel
9. Impurity filter for collecting any impurities to protect the system
10. Automatic discharge of condensate which is ecological and capable of preventing unwanted discharge of compressed air.



Options for DRY (20 - 130)

By-pass valve + filter support

Note: the air filter is not included in the option.



Reference conditions:

- Operating pressure : 7 bar (100 psi)
- Operating temperature: 35 °C
- Room temperature: 25°
- Pressure dew point: +5 °C +/- 1
- Available in different voltages and frequencies

Filter support

Note: the air filter is not included in the option



Limit conditions:

- Working pressure: 16 bar (232 psi) DRY 20-130
13 bar (188 psi) DRY 165-1260
- Operating temperature: 55 °C
- Min/Max room temperature: +5 °C; +45 °C



Adsorption dryers

Today's compressed air production process is not only a matter of producing air, but also of confirming with defined purity criteria. As humidity is a component of atmospheric air, it can be found in the form of condensate and/or vapor in the compressed air distribution systems and the machines that use the compressed air. ABAC provides adsorption dryers to remove condensate and vapor so that dry compressed air is achieved and a continuous efficiency is preserved.



Applications

- Pneumatic control systems
- Painting systems
- Packaging
- Injection molding
- Food industry
- Chemical industry
- Automotive industry
- Pharmaceutical process
- ...and whenever a pressure dew point below 3°C is needed

Main Benefits

- Eliminate any water residual from the net to guarantee clean compressed air
- Longer life span of your equipment and distribution network due to less wear
- Greater productivity and lower maintenance costs thanks to less breakdowns
- Higher final product quality
- Increased reliability and reduced risk for leaks
- Energy savings with lower pressure drops (HAD 115 - HAD 1300)
- Compact execution
- Compatible with any compressor technology

Components

HAD 7-60

1. Prefilter removes particulates and coalesced liquids from the air stream.
2. Removable front panel allows for easy access for servicing without disconnecting the pipe system.
3. Postfilters, integrated in the dryer, removes particulate in the air stream.
4. Electronic control housed in an IP65 box, which enables:
 - regeneration cycle management
 - regulation status
 - default diagnosis
 - remote default report
5. Multiport inlet and outlet



HAD 115-645

1. Base frame makes it easy to transport by fork lift.
2. Pressure gauge – tower A
3. Pressure gauge – tower B
4. Control dew point sensor (CD) as option.



HAD 650-1300

1. Wide vessels for optimum air speed and reliable drying. Unit is rather low for its capacity due to flanges that are built into the vessels.
2. Air outlet connection.
3. Robust frame, including fork lift slots for easy installation.
4. Pressure Dew Point sensor (HAD/CD).
5. Pressure Dew Point digital display (HAD/CD).
6. Two manometers integrated in the control panel to show pressure in the two vessels.
7. Purge nozzle for regeneration.
8. Galvanized piping with flanged connections.
9. Inlet valves - long service interval.

Filters

Atmospheric air contains in its origin impurities like dust, various forms of hydrocarbons and water in form of humidity, which once sucked by the compressor is compressed and delivered to the line together with eventual oily particles. These polluting agents, interacting among each other, may generate abrasive and corrosive emulsions which can damage the distribution lines, the pneumatic devices and the product itself. To prevent this negative impact, ABAC has developed a whole range of filters to purify the air.



Applications

- Instrument systems
- Pharmaceutical industry
- Food industry
- Chemical & packaging industry
- Pneumatic transports
- Industrial painting
- Control systems
- Generic tools
- ...and any application using compressed air

Main benefits

- Purify the air its oil/dust contamination
- Increased production & quality: prevent breakdowns instead of curing
- Ensuring greater efficiency and reliability
- Less wear of distribution network and equipment
- Simple design, excellent performance
- Decreased maintenance costs
- Different cartridges with specific filtration qualities
- Higher final product quality



1. Enjoy a reduced pressure drop and increased savings thanks to the unique head design.
2. A venting hole will give an audible alarm if the filter is dismantled under pressure.
3. Removing the filter bowl is an easy job as the external ribs allow for a firm grip on the filter.
4. No need to worry about corrosion. The die cast aluminum housing with special anodized treatment protects our filters both on the inside and the outside.
5. Easy monitoring via sight glass.
6. Smooth draining of the filter ensures a reliable performance. This is guaranteed by our high performance drains (G - C - P) and manual drains (V - S - D).

Filter range overview



G FILTER RANGE

Coalescing filters for general purpose protection, removing solid particles, liquid water and oil aerosol.

Total Mass Efficiency: 99%

For optimum filtration, a G filter should be preceded by a water separator.



S FILTER RANGE

Particulate filters for dust protection.

Count Efficiency: 99,81% at Most Penetrating Particle Size (MPPS = 0,1 micron)

An S filter should be preceded by a dryer at all times.



C FILTER RANGE

High-efficiency coalescing filters, removing solid particles, liquid water and oil aerosol.

Total Mass Efficiency: 99,9%

For optimum filtration, a C filter should be preceded by a G filter at all times.



D FILTER RANGE

High-efficiency particulate filters for dust protection.

Count Efficiency: 99,97% at Most Penetrating Particle Size (MPPS = 0,06 micron)

A D filter should be preceded by an S filter at all times and is commonly fitted after an adsorption dryer.



V FILTER RANGE

Activated carbon filter for removal of oil vapour and hydrocarbon odors with a maximum remaining oil content of 0,003 mg/m³ (0,003 ppm).
1000 hour lifetime



P FILTER RANGE

Coalescing and particulate general purpose prefilter. Removing solid particles, dust, liquid water and oil aerosol.

Total Mass Efficiency: 90%

Options



- Pressure gauge
- Voltage free contact mounted on the differential pressure gauge to give remote indication of the cartridge replacement



- Pressure indicator
- Serial Connection Kit allows easy mounting of filters in series
- Wall mounting kit to simplify installation



- Quick coupling for easy connection to fix an intelligent drain with no loss of compressed air



Oil-water separators

The WS Series oil-water separators collect the separated residual oil in a suitable container allowing the water which has been cleared of impurities to be drained. They represent a valid and economical solution to separate oil from condensate and offer a solution in-line with ecological legislation.

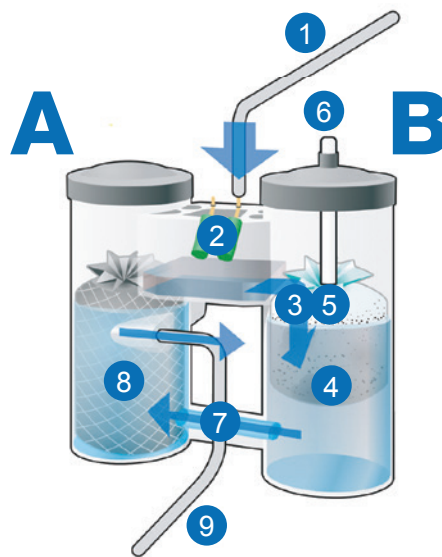


Applications

- Any application using compressed air systems

Main benefits

- Rinsed water which can be discarded easily and safely
- Easy operation
- Requires minimal installation and maintenance
- Meet environmental regulations and improve company image
- Excellent performance due to oleophilic and carbon filters
- Avoid high treatment costs
- User friendly (e.g. maintenance indicator)



1. Collection of any type of condensate including a mix of different oils
2. Condensates are collected through muffers located in an expansion chamber where first stage separation takes place by depressurization.
3. Water/oil emulsion enters column A and passes through an oleophilic media, made of oil absorbing fibres which allow water to pass through.
4. The oleophilic filter floats in column A. This is advantageous for absorbing residual oil floating on the surface.
5. The weight of the filter increases as oil saturation increases. Oil progressively begins to reach the service indicator. Part of the filter that is not saturated keeps in contact with the water surface.
6. When the filter is totally saturated, there is indication that the filter needs to be changed.
7. Only cleaned condensate from the bottom of column A flows to column B.
8. Column B contains activated carbon, and absorbs the remaining oil in the condensate. The large capacity of the system prevents any risk of spillage in case of blockage of the system or if the system produces excessive quantities of condensate.
9. Oil content is approximately 15mg/l, at reference conditions, at the outlet, a level that allows disposal of the condensate into the foul drain without risk to the environment.



Maintenance kits

We offer maintenance kits to ensure constant performance and prompt maintenance. Each kit is carefully designed to simplify all maintenance and ensure correct operation. Cartridge exchange can be done quickly by removing the separator cap. A bucket is provided in the filter kit, so that old filters can be removed without spillage.

For each type of Oil/water separator, three service kits are available:

- Service kit A comprises the material to change the oleophilic filter once. It is a kit for the first service after installation when the condensate is in normal condition. After this, service kit D can be used.
- Service kit B comprises the material to change the oleophilic filter twice and the activated carbon filter once. This kit should be used when the condensate is in normal condition. The lifetime of the carbon filter is twice as long as that of the oleophilic filter.
- Service kit D comprises the material to change the oleophilic filter as well as the activated carbon filter once. This kit should be used when the condensate contains a lot of oil, so that all the filters will be saturated at the same time.
- Note: The service kits are delivered with diffuser, mufflers, buckets.

ABAC offers you all the spare parts you need to guarantee long life and reliable operation of your compressor. ABAC Original parts have passed the severe endurance tests and are designed to the same standards as your equipment, thus providing the best protection for your investment.

Unprofessional maintenance might lead to a supplementary, unpredictable high cost due to element or piston failure, wear, break-down cost, reduced lifetime and even contamination of the compressed air supply. For example, the yearly energy cost for a 30 kW compressor can increase with 1000-2000€*.

Extend the lifetime of your compressor with ABAC Original Parts.

Condensate drains

ABAC also offers a complete range of automatic drains, widely used throughout the compressed air industry to discharge condensate from air receivers, filters, dryers, and condensate separators.

Main benefits

- Easy discharge of condensate throughout the complete compressed air chain
- Less wear of distribution network and equipment
- Less stop in production
- Little maintenance needed

Risks to avoid

- Wear and corrosion of your entire compressed air system

Applications

- Any application using compressed air systems



The LD range functions using a system called capacitive condensate discharge. Compared to the traditional timer condensate discharge system, it has several advantages.

Capacitive condensate discharge

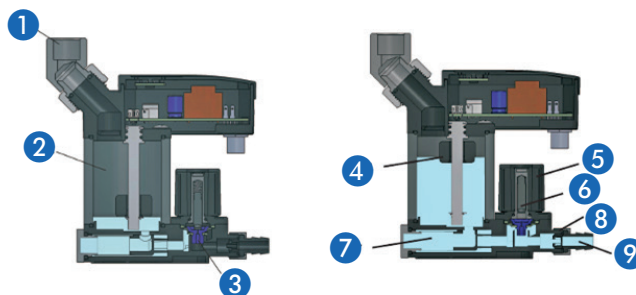
- + Only water is discharged, no compressed air
- + Energy saving
- + No noise and environmental friendly

Timer condensate discharge

- + Small size
- Drain discharges water and compressed air
- Increased cost to produce compressed air
- Increased noise level

The draining process

The condensate enters through the connection ①. The tank ② collects the liquid and the diaphragm ③ keeps the drain hole closed. When the liquid level increases, the floater ④ goes up and after reaching the highest level, the solenoid valve ⑤ controlled by the logic circuit opens the pilot valve ⑥. The liquid is discharged and when it reaches the minimum level, the diaphragm closes the draining hole again without letting any compressed air out. We point out that a filter ⑦ and a flow regulator ⑧ in the hose holder ⑨ have been added.



Cyclonic separators

The cyclonic separators use centrifugal force to remove condensation droplets which have condensed in the flow of compressed air due to reduction in temperature.

Main benefits

- Efficient removal of water and big particles due to centrifugal force (1)
- Cost effective
- Very little maintenance required
- Low pressure drop
- Reliable operation

Applications

- Any application using compressed air systems



Vertical air receivers

Supplied with all necessary fittings. When using an intermittent air supply they act as a buffer and a storage medium which allows the distribution system to temporarily sustain an air consumption which can be slightly higher than the capacity of the compressor.

Main benefits

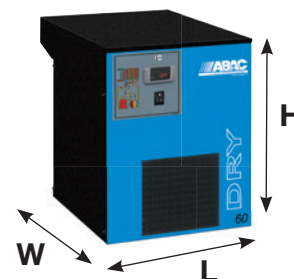
- Pressure stabilization
- Pulsation reduction
- Velocity reduction
- Temperature reduction
- Storage for handling high air consumption
- Improvement of the life, reliability and functionality of your compressed air system
- Condensate separation

Applications

- Any application using compressed air systems



Refrigeration Dryers



Type	Code	Max press		Flow rate			Power W	Power supply V/Hz/ph	Connections gas/DIN	Dimensions mm L x W x H	Weight Kg
		bar	psi	m3/1'	m3/h	CFM					
DRY 20	4102000740	16	232	0,333	20	11,8	130	230/50/1	3/4' M	350 x 500 x 450	19
DRY 25	4102000741	16	232	0,417	25	14,7	130	230/50/1	3/4' M	350 x 500 x 450	19
DRY 45	4102000742	16	232	0,750	45	26,5	164	230/50/1	3/4' M	350 x 500 x 450	19
DRY 60	4102000743	16	232	1,000	60	35,3	190	230/50/1	3/4' M	350 x 500 x 450	20
DRY 85	4102000744	16	232	1,417	85	50	266	230/50/1	3/4' M	350 x 500 x 450	25
DRY 130	4102000745	16	232	2,167	130	76,5	284	230/50/1	3/4' M	350 x 500 x 450	27
DRY 165	4102000746	13	188	2,750	165	97,1	609	230/50/1	1" F	370 x 500 x 764	44
DRY 210	4102000747	13	188	3,500	210	124	673	230/50/1	1" F	370 x 500 x 764	44
DRY 250	4102000748	13	188	4,167	250	147	793	230/50/1	1 1/2" F	460 x 560 x 789	53
DRY 290	4102000749	13	188	4,833	290	171	870	230/50/1	1 1/2" F	460 x 560 x 789	60
DRY 360	4102000750	13	188	6,000	360	212	1072	230/50/1	1 1/2" F	460 x 560 x 789	65
DRY 460	4102000751	13	188	7,667	460	271	1190	230/50/1	1 1/2" F	580 x 590 x 899	80
DRY 530	4102000752	13	188	8,833	530	312	1446	230/50/1	1 1/2" F	580 x 590 x 899	80
DRY 690	4102001584	13	188	11,500	690	406	1319	230/50/3	2" F	735 x 898 x 962	128
DRY 830	4102001585	13	188	13,833	830	489	1631	400/50/3	2" F	735 x 898 x 962	146
DRY 1040	4102001586	13	188	17,333	1040	612	1889	400/50/3	2" F	735 x 898 x 962	158
DRY 1260	4102001587	13	188	21,000	1260	742	2110	400/50/3	2" F	735 x 898 x 962	165

Item number	Item description
4101000653	Filters support bypass DRY 20- DRY 130 1/2G
4101000652	Filters support DRY20 - DRY130 1/2G

Correction factor Formula for calculating the correction factor: $K = A \times B \times C$

Delivery correction factors for other conditions

Ambient temperature					
°C	25	30	35	40	45
A	1,00	0,92	0,84	0,80	0,74 (DRY20 - DRY530)
A	1,00	0,91	0,81	0,72	0,62 (DRY690 - DRY1260)

Working temperature						
°C	30	35	40	45	50	55
B	1,24	1,00	0,82	0,69	0,58	0,45 (DRY20 - DRY530)
B	1,00	1,00	0,82	0,69	0,58	0,49 (DRY690 - DRY1260)

Working Pressure												
bar (psi)	5 (72)	6 (87)	7 (100)	8 (116)	9 (130)	10 (145)	11 (159)	12 (174)	13 (188)	14 (203)	15 (218)	16 (232)
	0,90	0,96	1,00	1,03	1,06	1,08	1,10	1,12	1,13	1,15	1,16	1,17 (DRY20 - DRY 530)
	0,90	0,97	1,00	1,03	1,05	1,07	1,09	1,11	1,12 (DRY690 - DRY1260)			

Adsorption dryers



Type	Code	Max Working Pressure		Operating Pressure	Air treatment capacity (at reference conditions)			Standard dew point	AEF 0,1 µm 0,1 mg/m	AHF 0,01 µm 0,01 mg/mc	APF 1µm n.a. mg/mc	outlet connections	dimensions	Weight
		bar	psi		bar	l/1'	m ³ /h							
HAD 7 STD	8102822304	16	232	7,0	114	7	4,1	-40	n.a.	AHF 60	Integrated in the dryer	3/8"	281 x 92 x 445	13
HAD 11 STD	8102822312	16	232	7,0	168	10	5,9	-40	n.a.	AHF 60			281 x 92 x 504	14
HAD 18 STD	8102822320	16	232	7,0	282	17	10	-40	n.a.	AHF 60			281 x 92 x 635	17
HAD 25 STD	8102822338	16	232	7,0	426	26	15,3	-40	n.a.	AHF 60			281 x 92 x 815	20
HAD 40 STD	8102822346	16	232	7,0	708	42	24,7	-40	n.a.	AHF 60			281 x 92 x 1065	24
HAD 60 STD	8102822353	16	232	7,0	990	59	34,7	-40	n.a.	AHF 60			281 x 92 x 1460	31
HAD 115 STD	8102327106	14,5	210	7,0	1920	115	67,7	-40	n.a.	AHF 120	APF 120	1"	550 x 242 x 998	64
HAD 145 STD	8102327114	14,5	210	7,0	2400	144	84,8	-40	n.a.	AHF 120	APF 120		550 x 242 x 998	64
HAD 160 STD	8102327122	14,5	210	7,0	2700	162	95,3	-40	n.a.	AHF 200	APF 200		550 x 242 x 1243	78
HAD 215 STD	8102327130	14,5	210	7,0	3900	234	138	-40	n.a.	AHF 200	APF 200		550 x 242x 1611	98
HAD 250 STD	8102327148	14,5	210	7,0	4500	270	159	-40	n.a.	AHF 340	APF 340		550 x 358 x 998	133
HAD 325 STD	8102327155	14,5	210	7,0	5400	324	191	-40	n.a.	AHF 340	APF 340		550 x 358 x 1243	158
HAD 360 STD	8102327163	14,5	210	7,0	6300	378	222	-40	n.a.	AHF 510	APF 510		550 x 358 x 1611	256
HAD 470 STD	8102327171	14,5	210	7,0	7800	468	275	-40	n.a.	AHF 510	APF 510		550 x 358 x 1611	256
HAD 575 STD	8102327189	14,5	210	7,0	9600	576	339	-40	n.a.	AHF 510	APF 510		550 x 520 x 1611	310
HAD 645 STD	8102327197	14,5	210	7,0	11400	684	403	-40	n.a.	AHF 800	APF 800		550 x 520 x 1611	310
HAD 650 STD 11	8102823120	11	159	7,0	10800	648	381	-40	AEF 800	AHF 800	APF 800	1 1/2"	1040 x 840 x 1760	445
HAD 650 STD 14,5	8102823138	14,5	210	12,5	12900	774	456	-40	AEF 800	AHF 800	APF 800		1040 x 840 x 1760	445
HAD 800 STD 11	8102823153	11	159	7,0	13200	792	466	-40	AEF 800	AHF 800	APF 800		1040 x 840 x 1760	445
HAD 800 STD 14,5	8102823161	14,5	210	12,5	15900	954	561	-40	AEF 800	AHF 800	APF 800		1040 x 840 x 1760	445
HAD 1080 STD 11	8102823195	11	159	7,0	18000	1080	636	-40	AEF 1000	AHF 1000	APF 1000	2"	1046 x 894 x 1876	600
HAD 1080 STD 14,5	8102823203	14,5	210	12,5	21600	1296	763	-40	AEF 1000	AHF 1000	APF 1000		1046 x 894 x 1876	600
HAD 1300 STD 11	8102823237	11	159	7,0	21600	1.296	763	-40	AEF 1500	AHF 1500	APF 1500		1100 x 923 x 1914	650
HAD 1300 STD 14,5	8102823245	14,5	210	12,5	25800	1.548	911	-40	AEF 1500	AHF 1500	APF 1500		1100 x 923 x 1914	650

Standard features and options	HAD 7-60	HAD 115 - 645	HAD 650-1300
Capacity at 7 bar (- 40°C)	114 - 990 l/min	1920 - 11400 l/min	10800 - 21600 l/min
Dew point	Standard -40°C	Standard -40°C	Standard -40°C
Working pressure range	4-16 bar	4 - 14,5 bar	4-11 bar & 11-14,5 bar
Voltages	12 - 24 V - DC 50/60Hz	115- 230 V - AC 50/60Hz	230V - AC 50/60Hz
	100 - 115 - 230 V - AC 50/60Hz		

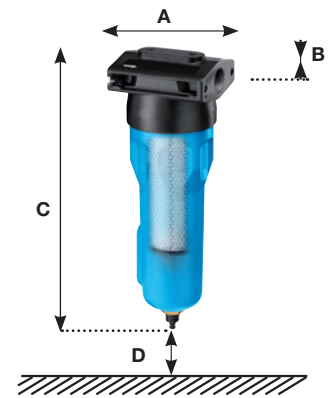
Filters

	S	D	G	C	P	V
Filter type	Solid particles	Solid particles	Oil aerosol & solid particles	Oil aerosol & solid particles	Oil aerosol & solid particles	Oil vapor
Test method	ISO 12500-3	ISO 12500-3	ISO 12500-1 / ISO 8573-2	ISO 12500-1 / ISO 8573-2	ISO 12500-1 / ISO 12500-3 / ISO 8573-2	ISO 8573-5
Inlet Oil Concentration (mg/m ³)	NA	NA	10	10	10	0,01
Count efficiency (% at MPPS)	(MPPS=0,1 µm) 99,81	(MPPS=0,06 µm) 99,97	NA	NA	(MPPS=0,1 µm) 89,45	NA
Count efficiency (% at 1 µm)	99,97	99,999	NA	NA	94,19	NA
Count efficiency (% at 0,01 µm)	99,87	99,992	NA	NA	93,63	NA
Max oil carry-over (mg/m ³)	NA	NA	0,1	0,01	1	0,003
Dry pressure drop (mbar)	120	140	NA	NA	85	160
Wet pressure drop (mbar)*	NA	NA	205	240	115	NA
Wet pressure drop (mbar), in typical compressor installation	NA	NA	185	200	NA	NA
Element service	After 4.000 operating hours or 1 year or pressure drop > 350 mbar	After 4.000 operating hours or 1 year or pressure drop > 350 mbar	After 4.000 operating hours or 1 year	After 4.000 operating hours or 1 year	After 4.000 operating hours or 1 year	After 1.000 operating hours (at 20°C.) or 1 year
Precede with	-	S	water separator	G	-	G & C

* Inlet oil concentration = 10 mg/m³

Partnumber	Option	Available for
8092242968	Wall mounting kit	Filter 45 up to 125
8092242976	Wall mounting kit	Filter 180 - 290
8092242984	Wall mounting kit	Filter 505 up to 935
8092242992	Wall mounting kit	Filter 1295
8092243008	Wall mounting kit	Filter 1890 - 2430
8092243016	Serial connection kit	Filter 45 up to 125
8092243024	Serial connection kit	Filter 180 - 290
8092243032	Serial connection kit	Filter 505 up to 935
8092243040	Serial connection kit	Filter 1295
8092243057	Serial connection kit	Filter 1890 - 2430
1617704800	Diff. pressure indicator	Filter 45 up to 2430
1624117200	Diff. pressure gauge	Filter 45 up to 2430
8055216447	Potential free contact NO	(only in combination with pressure gauge)
8055216488	Potential free contact NC	(only in combination with pressure gauge)
1617708201	Male coupling 1/8"	(only in combination with automatic drain)
1617708202	Female coupling 1/8"	(only in combination with automatic drain)
1617708203	Hose coupling	
2901069200	Drain connection kit (male) 1/2"	Filter 45 up to 2430
2901206803	Drain connection kit (female) 1/2"	Filter 45 up to 2430

Filters



Filter type	Nominal Capacity*			Maximum pressure		Connections / port thread	Dimensions			Free space for cartridge replacement	Weight
	l/min	m ³ /h	cfm	bar	psi		A	B	C		
						G	mm	mm	mm	D	Kg
FILTER 45	720	43	25	16	232	3/8 "	90	21	228	75	1
FILTER 90	1500	90	53	16	232	1/2"	90	21	228	75	1,1
FILTER 125	2100	126	74	16	232	1/2"	90	21	283	75	1,3
FILTER 180	3000	180	106	16	232	3/4"	110	27,5	303	75	1,9
FILTER 180	3000	180	106	16	232	1"	110	27,5	303	75	1,9
FILTER 290	4800	288	170	16	232	1"	110	27,5	343	75	2,1
FILTER 505	8400	504	297	16	232	1 1/2"	140	34	449	100	4,2
FILTER 685	11400	684	403	16	232	1 1/2"	140	34	532	100	4,5
FILTER 935	15600	936	551	16	232	1 1/2"	140	34	532	100	4,6
FILTER 1295	21600	1296	763	16	232	2"	179	50	618	150	6,9
FILTER 1295	21600	1296	763	16	232	2 1/2"	179	50	618	150	6,9
FILTER 1890	31500	1890	1112	16	232	3"	210	57	720	200	11,0
FILTER 2430	40500	2430	1430	16	232	3"	210	57	890	200	12,6

* Reference condition: pressure 7 bar (102 psi). Maximum operating temperature of 66°C, and 35°C, only for V series. Minimum operating temperature of 1°C.

Correction factor for operating pressure charges

For other compressed air inlet pressures, multiply the filter capacity by the following correction factors:

Inlet pressure (bar)	1	2	3	4	5	6	7	8	10	12	14	16
Inlet pressure (psig)	15	29	44	58	72,5	87	102	116	145	174	203	232
Correction factor	0,38	0,53	0,65	0,75	0,83	0,92	1	1,06	1,2	1,31	1,41	1,5

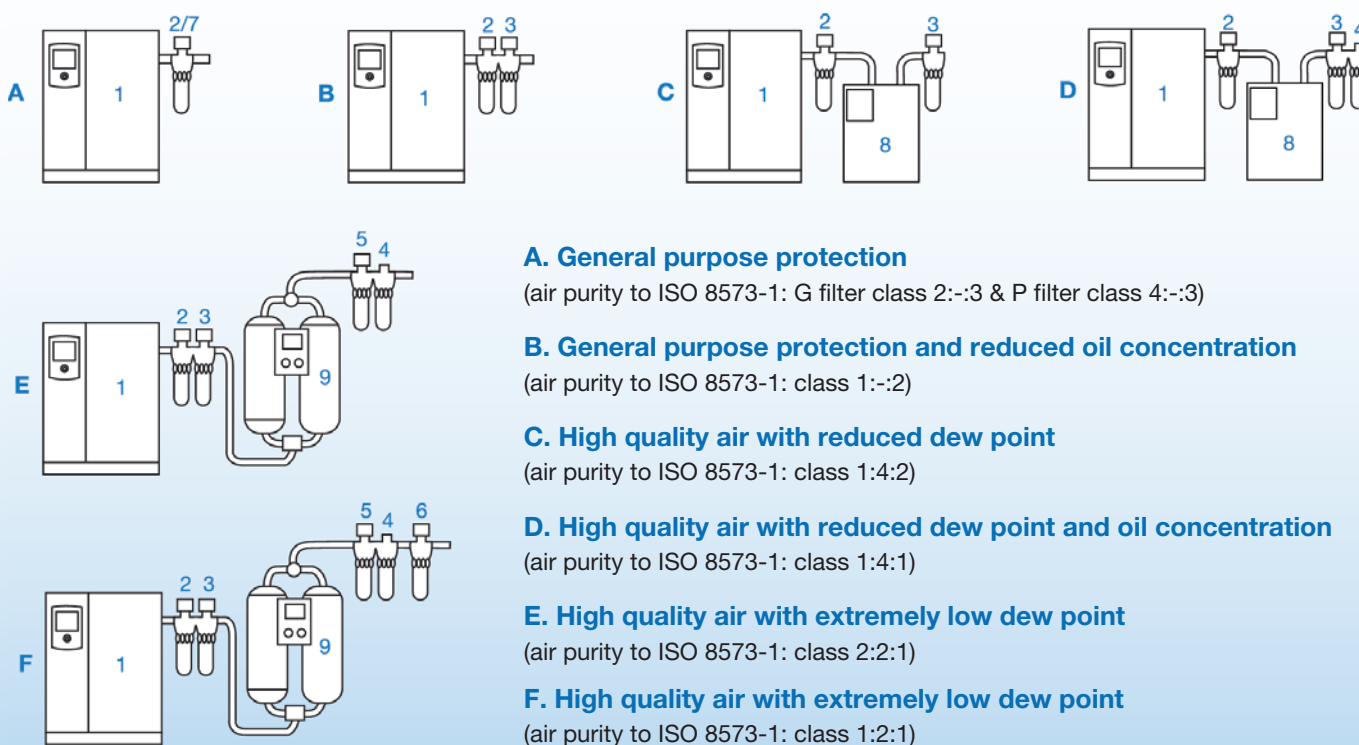
Filter type	P		G		S	
	Product number	Kit number	Product number	Kit number	Product number	Kit number
FILTER 45	8102 8423 85	2258 2901 01	8102 8425 18	2258 2901 12	8102 8426 41	2258 2901 12
FILTER 90	8102 8423 93	2258 2901 02	8102 8425 26	2258 2901 13	8102 8426 58	2258 2901 13
FILTER 125	8102 8424 01	2258 2901 03	8102 8425 34	2258 2901 14	8102 8426 66	2258 2901 14
FILTER 180	8102 8424 19	2258 2901 04	8102 8425 42	2258 2901 15	8102 8426 74	2258 2901 15
FILTER 180	8102 8424 27	2258 2901 04	8102 8425 59	2258 2901 15	8102 8426 82	2258 2901 15
FILTER 290	8102 8424 35	2258 2901 05	8102 8425 67	2258 2901 16	8102 8426 90	2258 2901 16
FILTER 505	8102 8424 43	2258 2901 06	8102 8425 75	2258 2901 17	8102 8427 08	2258 2901 17
FILTER 685	8102 8424 50	2258 2901 07	8102 8425 83	2258 2901 18	8102 8427 16	2258 2901 18
FILTER 935	8102 8424 68	2258 2901 08	8102 8425 91	2258 2901 19	8102 8427 24	2258 2901 19
FILTER 1295	8102 8424 76	2258 2901 09	8102 8426 09	2258 2901 20	8102 8427 32	2258 2901 20
FILTER 1295	8102 8424 84	2258 2901 09	8102 8426 17	2258 2901 20	8102 8427 40	2258 2901 20
FILTER 1890	8102 8424 92	2258 2901 10	8102 8426 25	2258 2901 21	8102 8427 57	2258 2901 21
FILTER 2430	8102 8425 00	2258 2901 11	8102 8426 33	2258 2901 22	8102 8427 65	2258 2901 22

Filters

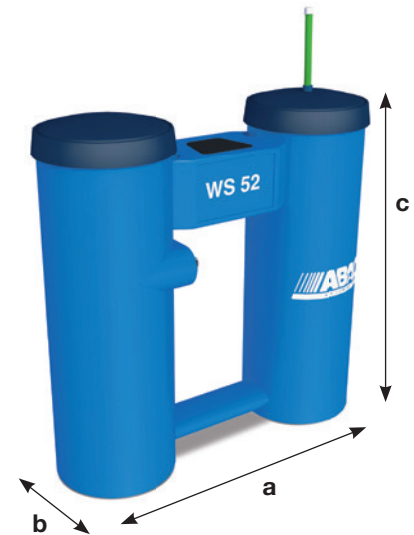
Filter type	C		D		V	
	Product number	Kit number	Product number	Kit number	Product number	Kit number
FILTER 45	8102 8427 73	2258 2901 23	8102 8429 06	2258 2901 23	8102 8430 37	2258 2901 34
FILTER 90	8102 8427 81	2258 2901 24	8102 8429 14	2258 2901 24	8102 8430 45	2258 2901 35
FILTER 125	8102 8427 99	2258 2901 25	8102 8429 22	2258 2901 25	8102 8430 52	2258 2901 36
FILTER 180	8102 8428 07	2258 2901 26	8102 8429 30	2258 2901 26	8102 8430 60	2258 2901 37
FILTER 180	8102 8428 15	2258 2901 26	8102 8429 48	2258 2901 26	8102 8430 78	2258 2901 37
FILTER 290	8102 8428 23	2258 2901 27	8102 8429 55	2258 2901 27	8102 8430 86	2258 2901 38
FILTER 505	8102 8428 31	2258 2901 28	8102 8429 63	2258 2901 28	8102 8430 94	2258 2901 39
FILTER 685	8102 8428 49	2258 2901 29	8102 8429 71	2258 2901 29	8102 8431 02	2258 2901 40
FILTER 935	8102 8428 56	2258 2901 30	8102 8429 89	2258 2901 30	8102 8431 10	2258 2901 41
FILTER 1295	8102 8428 64	2258 2901 31	8102 8429 97	2258 2901 31	8102 8431 28	2258 2901 42
FILTER 1295	8102 8428 72	2258 2901 31	8102 8430 03	2258 2901 31	8102 8431 36	2258 2901 42
FILTER 1890	8102 8428 80	2258 2901 32	8102 8430 11	2258 2901 32	8102 8431 44	2258 2901 43
FILTER 2430	8102 8428 98	2258 2901 33	8102 8430 29	2258 2901 33	8102 8431 51	2258 2901 44

Typical installations:

1. Compressor with after-cooler
2. G filter
3. C filter
4. V filter
5. S filter
6. D filter
7. P Filter
8. Refrigerant dryer
9. Adsorption dryer



Oil-Water Separators



Model	Code	Installation Flow with dryer			Installation Flow without dryer			Connections		a mm	b mm	c mm	Weight	
		l/min	m3/h	scfm	l/min	m3/h	scfm	inlet1	out-let2				kg	lbs
WS13	8102045989	2100	126	74	2700	162	95	1x1/2"	1x1/2"	470	165	600	4	8,8
WS34	8102045997	5700	342	201	7083	425	250	2x1/2"	1x1/2"	680	255	750	13	28,7
WS52	8102046003	8700	522	307	10500	630	371	2x1/2"	1x1/2"	680	255	750	15	33,1
WS128	8102046011	21300	1278	752	26100	1566	922	2x3/4"	1x3/4"	750	546	900	25	55,1
WS218	8102046029	36300	2178	1282	45600	2736	1610	2x3/4"	1x3/4"	750	546	1030	26	57,3
WS297	8102046037	49500	2970	1748	61200	3672	2161	2x3/4"	1x3/4"	945	650	1100	28	61,7
WS425	8102046045	70800	4248	2500	87300	5238	3083	2x3/4"	1x3/4"	945	695	1100	30	66,1
WS850	8102046052	141600	8496	5001	174600	10476	6166	2x3/4"	1x1"	945	1185	1100	60	132,3

Notes

Reference conditions										
Residual oil equal to 15 mg/l.										
Mild environmental temperature (25 °C with 60% relative humidity)										
Correction factors: multiply the flow indicated by the relative correction factor.										
Cold environment (15 °C / 60% UR)		with Dryer			without Dryer					
Correction factor		1,80			2,30					
Hot environment (35 °C / 70% UR)		with Dryer			without Dryer					
Correction factor		0,45			0,40					
Operating cycle: hours per day		8	10	12	14	16	18	20	22	24
Correction factor		1,50	1,20	1,00	0,86	0,75	0,67	0,60	0,55	0,50
Residual oil 10 mg/l Correction factor 0,67										

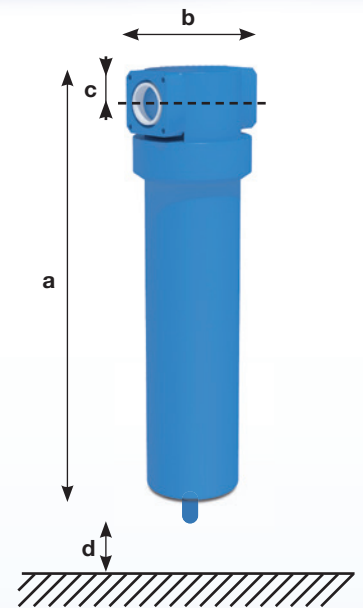
Oil-water separator maintenance kits

Kit composition							
Model	Kit type	Code	Oleophilic filter	Small oleophilic filter	Activated Carbon filter	Diffuser	Mufflers
WS13	Kit A	2901140000	1	-	-	1	1
	Kit B	2901140001	2	-	1	2	2
	Kit D	2901157500	1	-	1	1	1
WS34	Kit A	2901140100	1	-	-	1	1
	Kit B	2901140101	2	-	1	2	2
	Kit D	2901157600	1	-	1	1	1
WS52	Kit A	2901140200	1	-	-	1	1
	Kit B	2901140201	2	-	1	2	2
	Kit D	2901157700	1	-	1	1	1
WS128	Kit A	2901140300	1	1	-	1	1
	Kit B	2901140301	2	2	2	2	2
	Kit D	2901157800	1	1	2	1	1
WS218	Kit A	2901140400	1	1	-	1	1
	Kit B	2901140401	2	2	2	2	2
	Kit D	2901157900	1	1	2	1	1
WS297	Kit A	2901140800	1	1	-	1	1
	Kit B	2901140801	2	2	2	2	2
	Kit D	2901158100	1	1	2	1	1
WS425	Kit A	2901140900	1	1	-	1	1
	Kit B	2901140901	2	2	2	2	2
	Kit D	2901158200	1	1	2	1	1
WS850	Kit A	2901141000	2	2	-	1	1
	Kit B	2901141001	4	4	4	2	2
	Kit D	2901158300	2	2	4	1	1

Condensate Drains

	Max. working pressure	Max. compressor perform.	Max. dryer perform.	Max. filter perform.	Voltage	Connection	A	B	C	Weight
	bar (psi)	m ³ /h	m ³ /h	m ³ /h	Volt/Hz./Ph.	gas	mm.	mm.	mm.	Kg.
LD 200	16 (232)	900	1800	9000	230/50-60/1	1 x 1/2" M BSP	132	132	164	0,7
LD 202	16 (232)	1800	3600	18000			132	192,4	224	1,2
LD 203	16 (232)	9500	19000	95000			132	208	239,6	2,8

Cyclonic separators



Model	Code	l/min	Flow rate cfm	m ³ /h	Output connection	Dimensions mm			
						A	B	C	D
ASA1	8973020269	2.000	71	120	3/8"	187	88	21	60
ASA2	8973020270	2.583	91	155	1/2"	187	88	21	60
ASA3	8973020271	3.917	138	235	3/4"	256	88	21	80
ASA4	8973020272	6.083	215	365	1"	262	125	33	100
ASA5	8973020273	12.833	453	770	1-1/2"	452	125	33	140
ASA6	8973020274	21.333	753	1.280	2"	695	163	48	520
ASA7	8973020275	41.000	1.448	2.460	2"-1/2"	695	163	48	520

Vertical air receivers

Codes	Ø Air Connections		Tank LT	Max pressure		Dimension Size	Weight	
	in	out		bar	psi		kg	lbs
2236100970	3/4"	1/2"	100	11	159,5	370 × 370 × 1200 h	37	81
2236100971	1"	1/2"	200	11	159,5	450 × 450 × 1550 h	62	136
2236100972	1"	3/4"	270	11	159,5	500 × 500 × 1650 h	80	176
2236100973	3/4" + 1	3/4" + 1	500	11	159,5	600 × 600 × 2100 h	135	297
2236100974	3/4" + 1	3/4" + 1"	720	11	159,5	750 × 750 × 2050 h	180	396
2236100975	1 1/2"	1"	900	12	174	800 × 800 × 2500 h	230	506
2236100976	2"	2"	1000	12	174	800 × 800 × 2500 h	230	506
2236100980	2"	2"	2000	12	174	1100 × 1100 × 2500 h	330	726
2236100981	2"	2"	3000	12	174	1200 × 1200 × 3300 h	560	1232
2236100982	2"	2"	5000	12	174	1600 × 1600 × 3300 h	1.100	2.420
2236100977	3/4" + 1	3/4" + 1	500	15	217,5	600 × 600 × 2100 h	150	330
2236100978	2"	2"	1000	15	217,5	800 × 800 × 2500 h	250	550
2236100979	2"	2"	2000	15	217,5	1100 × 1100 × 2500 h	360	792

FAQ page

Q: Why do I need Quality air solution products?

A: During the compression process, humidity and contamination from the intake air combine with the oil used in the compressor which creates impurities. The different quality air solution products are thus needed to purify the compressed air to prevent it from damaging the downstream equipment. Consequently, air quality is ensured, efficiency and productivity will be increased and the life span of your equipment and tools will be lengthened. In sum, quality air solution products are indispensable whenever you are using a compressed air system.

Q: How do I benefit from having a dryer?

A: Humidity is a component of atmospheric air which will be transformed into condensate and/or vapor state after the compression process. A dryer will remove this condensate and/or vapor so that dry compressed air is achieved. This will result in a longer life span of your equipment, lower maintenance costs due to less breakdowns, a continuous preservation of efficient production and a higher final product quality.

Q: What is the difference between refrigerant and adsorption dryers?

A: The refrigerant dryers use a refrigerant gas in order to cool the compressed air. As a result the water from the air condenses and can be removed. With this technique we can reach max. 3°C. PDP. An adsorption dryer uses an adsorption material called “desiccant” in order to absorb and remove (by regeneration phase) the humidity from the compressed air. With this method we can reach a PDP < 3°C. (-40°C. or -70°C.). An adsorption dryer should also be used when the ambient temperature goes below freezing point, to avoid ice building in pipes and applications.

Q: What advantages follow from installing one or more filters?

A: Atmospheric air contains in its origin many impurities which once compressed (and combined with the oil, in the case of oil-injected compressors) may generate abrasive and corrosive emulsions which can damage the distribution lines, the pneumatic devices and the product itself. A wide range of filters is available to purify the compressed air. As a result, productivity, quality and reliability are increased, the wear of the distribution network is limited and breakdowns are prevented instead of cured.

Q: Can the collected condensate simply be discarded?

A: No, once the condensate has been removed from the compressed air, it still needs to be cleaned in order to be in-line with local environmental legislations. For this process, oil-water separators are used. Separating both substances (water & oil) results in rinsed water which can be discarded easily. The limited amount of oil has to be discharged in a specialized disposal center.

Q: Is it useful to install a vertical air receiver?

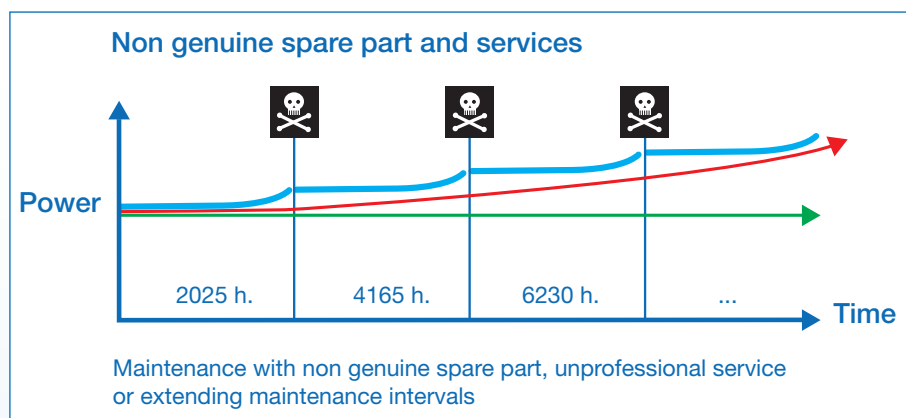
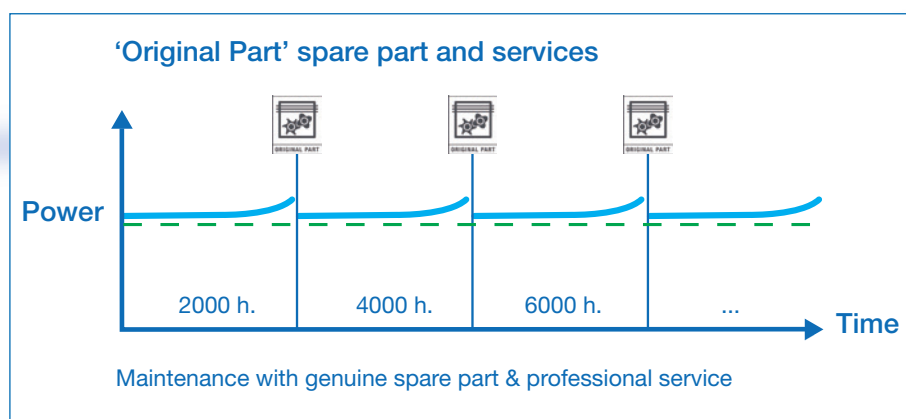
A: Yes, it is useful because this quality air solution product serves several different purposes. First of all, as it is usually placed immediately after your compressor, a vertical air receiver will already separate and remove condensate. Moreover, it will also stabilize pressure peaks and cause a stable air flow which is beneficent for the final tools. Finally, it also fulfills a storage function in order to handle high air consumption.

Original Spare Parts

ABAC offers you all the spare parts you need to guarantee long life and reliable operation of your compressor. ABAC Original parts have passed the severe endurance tests and are designed to the same standards as your equipment, thus providing the best protection for your investment.

Unprofessional maintenance might lead to a supplementary, unpredictable high cost due to element or piston failure, wear, break-down cost, reduced lifetime and even contamination of the compressed air supply. For example, the yearly energy cost for a 30 kW compressor can increase with 1000-2000€*.

Extend the lifetime of your compressor with ABAC Original Parts.



*(depending on operation load and running hours, assumed 2000-4000 hours @ 0.10 €/kWh).



For a full and detailed overview of all ABAC screw compressors, please have a look at the ABAC screw compressor leaflets.

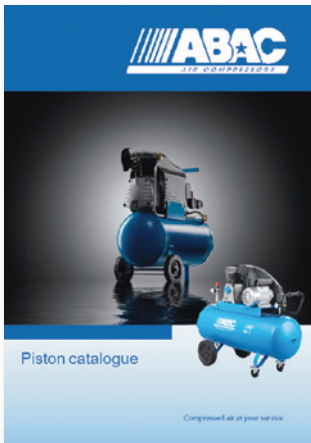


Original parts.
Your quality assurance!

Main benefits

- Extend the lifetime of your compressed air installation
- Reduce costs and save energy
- Get maximum performance and efficiency





Piston compressors

ABAC is renowned for its competitive piston compressor ranges for DIY, professional and industrial markets. Plug and play air solutions with a quality label, always available and ready to use!

ABAC piston compressors include a large range of compressors that strongly value key features like reliability, durability, flexibility, and user friendliness. In our designs we incorporate all latest technologies and extensive experience of our design teams to match the requirements and exceed the expectations of our large and diverse customer base. Compressed air at your service!

For a full and detailed overview of all ABAC piston compressors, please have a look at the ABAC piston compressor catalogue.

Main benefits

- Performance, reliability and durability in design and component selection
- Many different configurations and easy to move units bring you high flexibility
- User friendliness with clear gauges and regulators, large wheels and ergonomic handles
- Vertical configurations to reduce the installation footprint
- Silenced units available to optimize user comfort
- Engine driven units to serve all your remote applications with both air and electricity (engineAIR & BI engineAIR)



Screw compressors

Compressed air made easy, even for the most demanding applications

Whenever continuous air flow is needed, ABAC screw compressors are a safe investment. ABAC screw compressors are silent, extremely efficient and offer you a long lifetime thanks to less vibration and fewer moving parts. Offering a wide range within the different types, there is no need to give in on any detail: your most specific business requirements will be met. Finally, robustness and reliability are key with the new generation, providing you full peace of mind!

Main benefits

- Reduced noise levels
- Easy to install and maintain: rapid access to servicing parts and long service intervals
- Ideal combination of compactness and high performance
- Cost effective
- User friendly
- Maximized efficiency
- Supporting a comfortable workplace



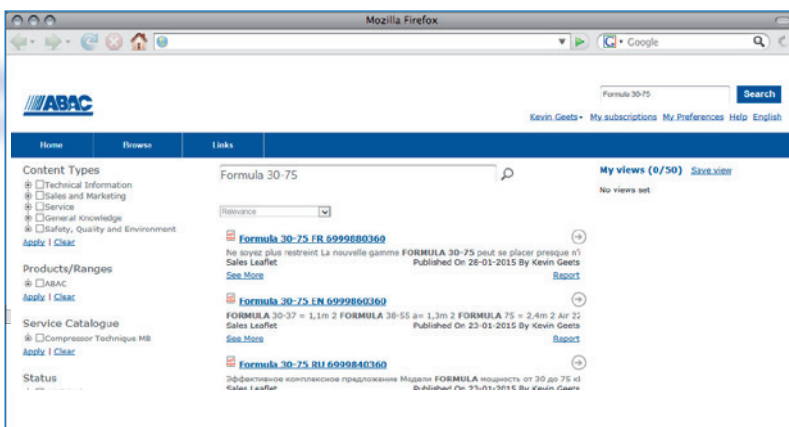
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ABAC Distributors' tools

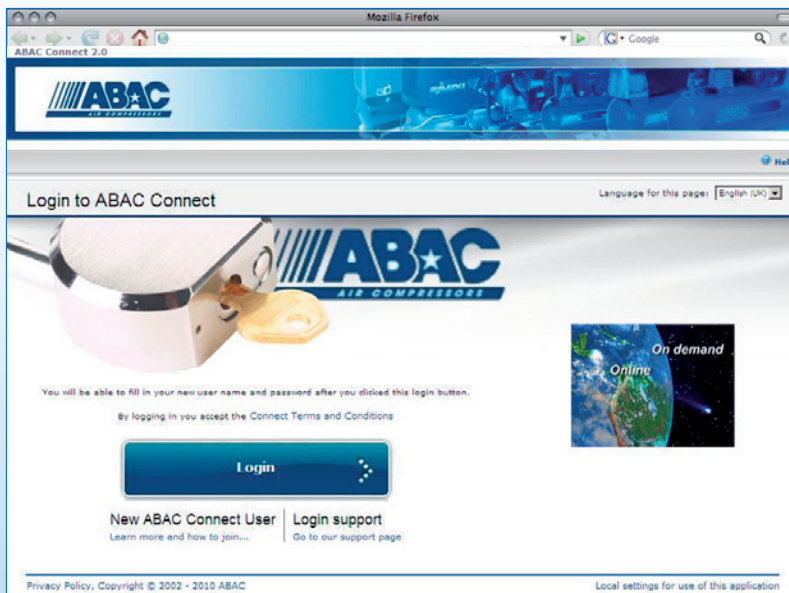
As ABAC official partner we provide you with lots of tools for growing your business! All of these tools are available at ABAC official website: www.abacaircompressors.com

ABAC Business portal*: Your inside information source



This tool provides you with latest news, technical data, presentations, leaflets, videos and other useful information.

ABAC Connect*: Your gate to ordering ABAC Original Parts

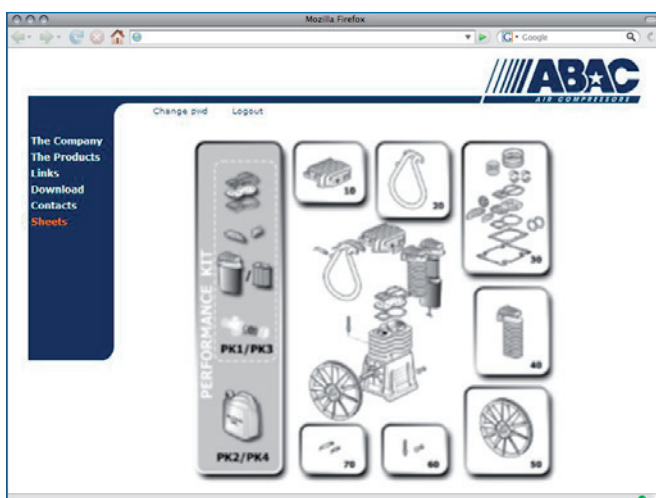


With this application you can:

- order spare parts
- check availability of spare parts
- look for prices and discounts
- track and trace the orders
- see online invoices' and orders' history

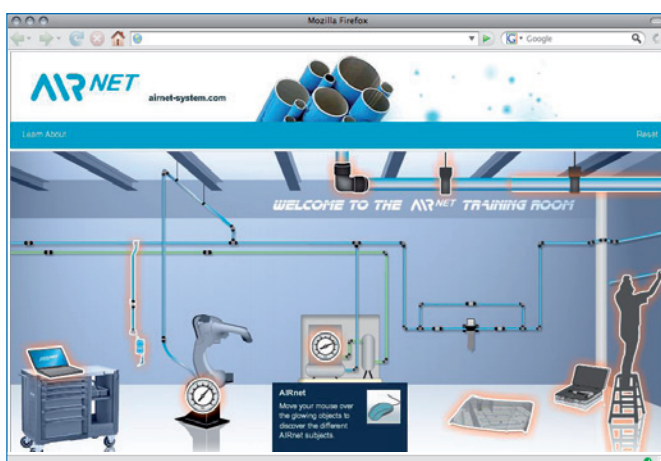
* Access to these tools can be requested at your local representative/customer center/sales contact.

Piston Original Kit and Part Selector*



This tool is the fastest way to tracing the spare part you need. You are provided with easy overview of all parts, where active parts are shown directly from the engineering system. Access Piston Original Kit and Part Selector from ABAC official website. ABAC official distributors have access to the Piston Original Kit and Part Selector from ABAC Business portal.

AIRnet website

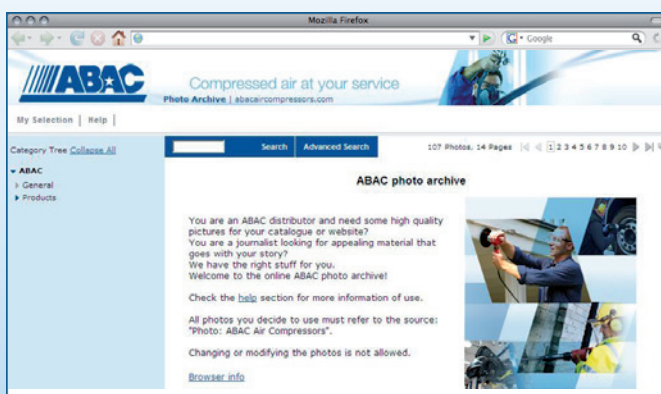


Find latest inside information about AIRnet with dedicated distributor section and special Training Room for Distributors on AIRnet website:

www.airnet-system.com

The training room includes installation advice, instruction movies, calculation tools, tips, etc.

ABAC Photo Archive: Find all pictures you need



You are an ABAC distributor and need some high quality pictures for your catalogue or website? We have the right tool for you! Welcome to the on-line ABAC photo archive

<http://photo.abacaircompressors.com>

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Care. Trust. Efficiency.

Care.

Care is what service is all about: professional service by knowledgeable people, using high-quality original parts.

Trust.

Trust is earned by delivering on our promises of reliable, uninterrupted performance and long equipment lifetime.

Efficiency.

Equipment efficiency is ensured by regular maintenance. Efficiency of the service organization is how Original Parts and Service make the difference.

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