

SERVICE | AFTER**SALES**



ECOCLEAN® AFE

Alternative Filter Elements for other manufacturers Compressed Air Filters

KONTREC® AKF

Alternative Activated Carbon Filters for other manufacturers Oil/Water Separators

ECOCOMP®

Alternative Filters for Compressors and Vacuum Pumps

ECOSERV

Service Parts for other manufacturers Adsorption Dryers

AFTERSALES

KSI Alternative parts for products from other manufacturers



Top Quality for an Exceptional Price - Always Available.

The core business of the compressed air industry, be- KSI meets these requirements for service parts sides the design of new installations, providing advisory for its own products as well as additionally for products services to the final customer, and the installation of new equipment in a compressed air station, is service and repair of existing installations. In this business area it is again important that industry can absolutely depend on the highest quality of the replacement components, and on their ease of availability.

from other manufacturers.

At prices far below those of the original manufacturer and quality that at least matches that of the original parts and in many cases exceeds them. In most cases parts are available for shipment the day of the order.



KSI Manufacturing Competence – also for Alternative Service Parts

Since its establishment KSI has been offering alternative products for servicing the equipment of other manufacturers in the compressed air and condensate technology sector. This business has been expanded and perfected continuously over the years. KSI service parts for third party products are manufactured in-house by KSI:

- ECOCLEAN® AFE Filter elements and cartridges for compressed air filters
- KONTREC® AKF Activated carbon filters for oil/water separators
- ECOSERV Service parts for third-party dryers Or taken directly from OEM production:
- ECOCOMP® Filters for compressors and vacuum pumps
- ECOSERV Service parts for third-party dryers

With production largely in-house, KSI is in control of quality assurance. Modern test stations continuously ensure the highest quality without exception. KSI competence goes beyond the basic delivery of all required components for the service of the compressed air equipment. Already at the customer request stage we provide advice and make our extensive experience available to the industry with our qualified teams. KSI staff train the employees within the industry in servicing the KSI product range. If required the training can also be extended to products from other manufacturers (compressed air filters, adsorption dryers with heatless and heated regeneration).

Contact us!

Very Important: Availability

At the KSI headquarters in Niederkrüchten thousands of components are held in appropriate numbers in order to be able to provide the fastest response possible. In most instances products leave our warehouse on the same day the order is placed. UPS, the leading global logistics company, collects the goods in the evening for delivery to our customers on a next day service. Various guaranteed delivery times are also available upon request.

KSI provides very competitively priced delivery charges throughout the UK.

Complete Support

Competent team members within KSI provide quick and reliable help regarding questions concerning different service parts:

- Cross referencing original part numbers to KSI service parts
- · Identification of original parts based on drawings and/or samples
- · Reproduction from samples or drawings for specialist situations

ECOCLEAN® AFE

Alternative filter elements for other manufacturers housings

KSI delivers filter elements and filter cartridges for almost all filter housings on the market from other manufacturers. We produce all of the filter elements for our compressed air filters and all alternative filter elements and cartridges in-house. This ensures complete control for safeguarding our certified KSI industrial equipment quality.



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KONTREC® AKF

Alternative activated carbon filters for other manufacturers oil/water separators

The fact is that **KONTREC®** AKF has been used in most oil/water separators from various other manufacturers for the past 17 years. This is because KSI has been producing these important components according to the highest quality criteria since the company's founding. More than 22,000 KSI activated carbon filters are produced each year and shipped globally. This corresponds to almost 100 tons of the highest quality activated carbon.



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ECOCOMP®

Alternative oil filters, air filters and separators for compressors and vacuum pumps

Customer-oriented, KSI has been delivering filter and oil separators of OEM quality for compressors efficiently and reliably since 1998. In order to make this a reality, we provide an enormous storage area of 1300 m2 just for this product group. 96% of orders are shipped the same day.



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ECO**SERV** FT

Functional parts and service packages for the service of other manufacturer's heatless & heat regenerated adsorption dryers

The new **ECOSERV** series contains all components for the service of other manufacturer's adsorption dryers with heatless & heated regeneration. At the same time KSI offers its customers **intelligent service packages** for other "third party dryers". These contain all of the components necessary to complete a service, similar to that of the original manufacturer.



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ECOSERV TM

Desiccant packages for the service of other manufacturer's heatless & heat regenerated adsorption dryers Service help from trained personnel for KSI's industrial partners

Desiccant packages of the best quality for almost all adsorption dryers with heatless & heated regeneration on the market are supplied in matching containers. KSI exclusively uses adsorbents from well-known German manufacturers.

We also offer the industry service support for "third party dryers".



ECOCLEAN® AFE

Alternative Filter Elements for other manufacturers Housings



The ECOCLEAN® Approach to KSI Filter Elements

Cutaway of a high-performance element: KSI Filter Depth Volume

The combination of operational safety and cost effectiveness perfectly implemented in one product is KSI's starting point for **ECOCLEAN®** high-performance filter elements.

Simply the best Alternative!

The customer enjoys all of the advantages of the **ECOCLEAN®** filter elements, not only if the filter elements are used in an **ECOCLEAN®** compressed air filter, but also when they are used in almost *all of the housings from other manufacturers that are on the market*.

An additional plus – KSI offers these filter elements at prices that are *up to* 30% *lower* (than qualitatively comparable filter elements on the market).



Alternative Filter Elements with a Double Advantage



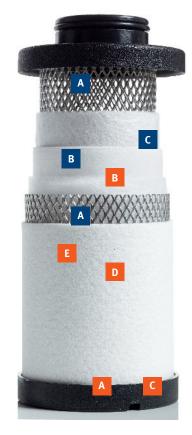
1. Optimum Operational Reliability

Filter Element

- A Special compound adhesive securely fixes the end caps to the stainless steel support cages and the filter media.
- The ECOCLEAN® high performance media is securely fixed and supported between stainless steel support cages.
- The plasticizer-free plastic end caps prevent corrosion. This means no efflorescence and no increased bacterial growth.

High Performance Filter media

- The filter drainage layer made of special fleece stabilizes the filter media and prevents efflorescence and cracking meaning it safely counteracts the loss of filtering action.
- The high-performance filter fleece has a high chemical, mechanical and thermal loading capacity (up to 120°C), and it is silicone-free.





2. Maximum Cost Effectiveness

Filter Element

A The specially designed interior and exterior ECOCLEAN® support cages achieve up to 45% less differential pressure as compared with conventional support cylinders.

Energy Saving Filter Media

- B The KSI high-performance element achieves maximum filter surface area through the specially optimized winding of the filter media. The construction-based surface filtration, in contrast to the usual 2-layer pleated elements, achieves a significantly higher internal surface area (filter depth volume) for maximum depth filtration. Due to this very high depth filtration capacity of **ECOCLEAN®** filter elements the differential pressure rises very slowly, giving longer life and reduced energy costs.
- c The media depth volume ensures the highest contaminant removal, whilst allowing maximum filtration performance.

KSI alternative filter elements for all common housings from other manufacturers on the market

Alup

Compair

 $VA \cdot MA \cdot SA \cdot AK$

Almig $AFP \cdot AFM \cdot AFS \cdot AFC$ Beko $X_{25} \cdot X_5 \cdot X_1 \cdot XA \cdot AC \cdot CAX$ **Domnick Hunter** $\mathsf{PF} \cdot \mathsf{AO} \cdot \mathsf{AA} \cdot \mathsf{ACS} \cdot \mathsf{AX} \cdot \mathsf{AC}$ Hankison E9 · E7 · E3 · E1 · E6 Kaeser $E-B \cdot E-D \cdot E-E \cdot E-F \cdot E-G \cdot E-C$ **MTA** $P \cdot M \cdot S \cdot A$

 A · B · C · D GFP
Donaldson (Ultrafilter 90 and 80 series)
$V-PE \cdot PF \cdot FF \cdot MF \cdot SMF \cdot AK$
Hiross
 $Q \cdot P \cdot S \cdot C$
Kaeser until 1991
$V \cdot X \cdot A$
OMI
Q · P · H · C

Atlas Copco	
$\texttt{DD} \cdot \texttt{PD} \cdot \texttt{QD} \texttt{DD} \texttt{G} \cdot \texttt{PD} \texttt{G} \cdot \texttt{QD} \texttt{G}$	
Deltech	
PFD · HFD · CFD	
FST	
$V \cdot ZN \cdot XN \cdot XXN \cdot A \cdot CA$	
Ingersoll Rand	
AO/AR · AA · AC	
Kaeser bis 1991	
9.2100.0 - 9.2159.0	
Zander	
V · Z · Y · X · A VP · ZP · XP · XP ₄ · A	

der (activated carbon and molecular sieve cartridges)	350
\	
naldson Ultrafilter (activated carbon cartridge	

Alternative process and sterile elements		
Zander · Domnick Hunter · FST		
HB_T · ZCHS-BT · Do9T		
ZCHB-BT · ZCHSB-T · ZCSS_001T/025T		
$EFSTP_STPL \cdot _DPL \cdot _D1 \cdot _D25$		
Donaldson Ultrafilter		
PG-S · P-SRF · P-PE		

KONTREC® AKF

Alternative Activated Carbon Filters for other manufacturers Oil/Water Separators

Typical for KSI: High cost savings and reliability through top quality

all the materials that the compressor draws in. Moisture the pressure, the more stable the mixture. In the end the (water), particles, dust and air components from industry, performance of the activated carbon filter used is the traffic and private households, e.g. SO2 and hydrocarbons. Oil from the compression element of lubricated compressors can always be found in the condensate, depending on the type of compressor and the oil used.

Due to the nature of the process, compressor condensate The degree of compression is the determining factor is always part of compressed air generation. It consists of regarding the stability of the oil/water mixture. The higher deciding factor. The oil/water separator has to ensure that only pure water reaches the sewer.

The Market Leader, with the best **Price-Performance Ratio**

There are about a handful of manufacturers of oil water separators offering a good solution for the treatment of condensate. The basic principle has been tried and tested for decades, with only minor differences in the details. In the end however, it all depends on the quality of the activated carbon, such as **KONTREC®** AKF in the oil/water separators that ensures adherence of the water quality to regulatory
The KONTREC® AKF Plus-Effect +++ requirements.

In fact KONTREC® AKF has been used in most manufacturers oil/water separators for the past 17 years, and for a very good reason. This is because KSI has been producing these important components according to the highest quality criteria in-house since the company's establishment. More than 22,000 KSI activated carbon filters are produced each year and shipped globally. This corresponds to almost 100 tons of highest quality activated carbon.

- + process-induced high performance => best adsorption
- + highest adsorption capacity => maximum filter service life
- + maximum cleaning safety => for waste water discharge conforming with local directives
- + absolute dimensional accuracy due to quality control => prevents bypass flow
- + 4-layer seam and tear resistant PE sleeve => filter strength and dimensional stability
- + quick delivery, best quality, good price

KONTREC® AKF – in stock for most oil/water separators

KSI has filter sets available for all common oilwater separators. These filters are available in the exact configuration required on-site. In other words, all pre-filters are included in the package.



Alup Aquamat 120 / 250 / 450 / 900 / 1800 / 3600 / 7200 Atlas Copco OSW 5 / 11 / 30 / 55 / 110 / 315 Atlas Copco OSC 35 - 2400* 35 / 95 / 145 / 355 / 600 / 825 / 1200 / 2400 Beko Öwamat 1 / 2 / 3 / 4 / 5 / 5R / 6 / 8 / 20 Boge Ökomat 5 / 10 / 15 / 30 / 60 / 120 / 240 Domnik Hunter ES 36 / 90 / 125 / 250 / 500 / 1000 / 2150 / 2200 / 2300 / 2400 / 2500 / 2600 Domaldson (utrafilter) utlrasep P 7,5 / 15 / 30 / 60 / 120 / 240 Donaldson (utrafilter) utlrasep SP 5 / 7,5 / 10 / 15 / 30 / 60 / 120 / 240 Donaldson (utrafilter) utlrasep AS-P 5 / 7,5 / 10 / 15 / 30 / 60 / 120 / 240 Donaldson (utrafilter) utrasep AS-P 5 / 10 N / 15 N / 30 N / 60 N / 120 N / 240 N Ecoair TS 3 / 4 / 15 / 16 / 60 Hankison HS 60 - 120 / 140 - 900 / 1800 / 3600 Jorc Puro Enviro / Puro Mini / Puro / Puro Midi / Puro Grand / Puro Xtender Kaeser Aquamat 1 / 2 / 3 / 4 / 5 / 5R / 6 / 8 / 20 Kaeser WO 1 - III III II IV Sabroe SAB 25 / 45 / 90 / 180 / 360 / 720	Original Manufacturer	Model	Туре
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Schneider Öwatec 10 / 40 / 130 / 175 / 250 Schneider Öwatec (old series) Typ 40 / Typ 50 / Typ 75 / Typ 120 Wortmann drukomat 1 / 2 / 15 / 30 / 60 Wortmann WO 1 - II / III / IV Zander ecosep S 1 / 2 - 15 / 30 / 60 Zander WT 1 - 2 / 3 / 4	Sabroe	Divisor	IE - IIE / IIIE / IVE
Schneider Öwatec (old series) Typ 40 / Typ 50 / Typ 75 / Typ 120 Wortmann drukomat 1/2/15/30/60 Wortmann drukosep 1/2/3/6/12/25/40 Wortmann WO I-II/III/IV Zander ecosep S 1/2-15/30/60 Zander WT 1-2/3/4	Sabroe	SAB	25 / 45 / 90 / 180 / 360 / 720
Wortmann drukomat 1/2/15/30/60 Wortmann drukosep 1/2/3/6/12/25/40 Wortmann WO I-II/III/IV Zander ecosep S 1/2-15/30/60 Zander WT 1-2/3/4	Schneider	Öwatec	10 / 40 / 130 / 175 / 250
Wortmann drukosep 1/2/3/6/12/25/40 Wortmann WO I-II/III/IV Zander ecosep S 1/2-15/30/60 Zander WT 1-2/3/4	Schneider	Öwatec (old series)	Typ 40 / Typ 50 / Typ 75 / Typ 120
Wortmann WO I - II / III / IV Zander ecosep S 1 / 2 - 15 / 30 / 60 Zander WT 1 - 2 / 3 / 4	Wortmann	drukomat	1 / 2 / 15 / 30 / 60
Zander ecosep S 1/2-15/30/60 Zander WT 1-2/3/4	Wortmann	drukosep	1 / 2 / 3 / 6 / 12 / 25 / 40
Zander WT 1-2/3/4	Wortmann	WO	I - II / III / IV
T-1-1	Zander	ecosep S	1 / 2 - 15 / 30 / 60
Zander ecosep SL 1-5/8/15/30/60	Zander	WT	1-2/3/4
	Zander	ecosep SL	1 - 5 / 8 / 15 / 30 / 60

^{*} Adsorption filters that match Atlas Copco OSC are supplied as a static (non-floating) element!

ECOCOMP®

Alternative Filters for Compressors and Vacuum Pumps



ECOCOMP® => highest quality for the demanding protection requirements of installations and processes

Customer-oriented, KSI Filtertechnik GmbH has been delivering filter and oil separators of OEM quality for compressors since 1998 quickly and reliably. In order to make this a reality, we provide an enormous storage area of 1300 m2 just for this product group.

96% of orders are shipped the same day. This reflects KSI's claim regarding continuous improvement. All filter products are designed for optimum performance and continue to be developed for each application.

Time is money – quick delivery is therefore an obligation

Our ability as a supplier extends to over 6000 original references. This means that you can find the required products directly in our price list. Should you require a filter or an oil separator cartridge that contrary to expectations cannot be found in the KSI price list, we will cross reference it as quickly as possible, based on the original part number, the compressor or pump type, or on the basis of the dimensions - promise. "Your product" will then be entered directly into the price list, which is revised every 2-3 years. Do you have questions? It is our pleasure to advise you.

Test us!

The ECOCOMP® Plus-Effect +++

- + the process-based best performance
- + maximum filter cycle times because of the best filter materials
- + long-life, robust industrial quality
- + protects compressors, vacuum pumps and compressed air systems

Quality Oil Separator Cartridges

Operational Perfection with Convincing Results

efficiently according to the coalescence principle. This process starts at the sub-micron range. A high-performance glass fibre medium retains tiny colloidal oil droplets, and its specific properties ensure that many small oil droplets merge to a few large oil droplets which can then drain off the glass fibre medium and return to the oil circulation as a result of gravity. The result is effective oil separation with minimal oil use for compressor installations and vacuum pumps.

At the same time the introduction of oil into the compressed air network is significantly reduced.

Steadfast to the End

Oil separator cartridges were developed for tough industrial use. Furthermore they are designed for all common lubricating materials (mineral oil, semi synthetic and fully synthetic oil). The life cycle of the oil separator cartridge is determined by the following factors:

- Contamination from the intake-air, metal abrasive debris, particles
 and oxidation products of the oil affect the performance of the oil
 separation cartridge over time. Because the cycle time, and therefore
 the service life, is determined by the amount of contamination, this in
 turn causes an increasing differential pressure in the filter.
- A timely exchange of the air and oil filter elements usually extends the service life of the oil separator cartridges. The selection of the oil used has the same effect. Oxidation-resistant and water-proof oils have proven themselves.
- The operating conditions of the installation are the deciding factor regarding cycle time. This involves as much the external temperature, oil temperature and installation cooling as it does the quality of the surrounding air and its material content that is detrimental to oil.
- ECOCOMP® oil separator cartridges are produced with the greatest of care, and for that reason offer high operational reliability, installation protection and cost effectiveness, which are indispensable for the effective operation of compressed air installations.

Oil Separator Cartridges, Air Filters and Oil Filters

Available for the following manufacturers of compressors and vacuum pumps, or as a substitute for the filters of the following manufacturers

Abac	Boge	Fini	Maco	Renner
Aerzen	Bottarini	Flottmann	Mahle	Rotorcomp
Alup	Busch	Fluidair	Mann & Hummel	Rietschle
Atlas Copco	Champion	Gardner Denver Wittig	Mark / Ceccato	Rotair
Axeco	Chinook	Hengst	Mehrer	Schneider
Blitz Schneider	Compair / Demag	Hydrovane / Mattei	Parise	Stenhoj
Bauer	Ecoair	Ingersoll Rand	Pneumofore	Sullair
Becker	Effepizeta	Kaeser	Power System	Tamrock
BOC Edwards	Fiac	Leybold	Purolator	Worthington

ECOSERV

Service Parts for other manufacturers Adsorption Dryers



Over the last few years KSI has turned into one of the most competent partners in the area of adsorption drying. For that reason it was reasonable to also develop a product line in the area of replacement parts and service packages for heatless & heated regenerated adsorption dryers and active carbon adsorbers from our competitors, in order to establish a more intensive bond with the industry and the service operations. By assembling the **ECOSERV** product line we addressed one of our customers biggest wishes. The result is high-performance original parts, quality fillings and KSI intelligence packages. The "**ECOSERV I**" KSI service packages facilitate the whole service process, making it simpler and less cumbersome. Not only the 12-24-48 month service parts are included, but also components such as filter elements, mufflers and valves that usually have to be ordered separately. KSI "**ECOSERV I**" is just more.

The **ECOSERVE** will be continuously expanded and developed in the coming years.

The ECOSERV Plus-Effect +++

- + highest-performance original parts
- + Quality desiccant packages from well known German manufacturers
- KSI intelligence packages facilitate the industry in the assembly of the necessary service components
- + The KSI competence team provides full support for all aspects of the service of other manufacturers adsorption dryers.

KSI ECOSERV and KSI ECOSERV Intelligence Package

The KSI package comparison using the example of the Zander KEN 200 - KEN 500 series since 05/99

KSI service packages consist of:

Qua	ntity of items co	ntained in each se	ervice package
Description	12 months	24 months	48 months
· Reset module	1	1	1
• NO control valve	2	2	2
 NC control valve 	2	2	2
· Magnet coil			2
 Inlet valve 		2	2
• Expansion valve		2	2
 Check valve 			2

KSI Full service intelligence packages consist of:

Quant	tity of items cor	ntained in each se	rvice package
Description	12 months	24 months	48 months
· Reset module	1	1	1
 NO control valve 	2	2	2
 NC control valve 	2	2	2
 Magnet coil 			2
 Inlet valve 		2	2
• Expansion valve		2	2
 Check valve 			2
+ Pre/post-filter	2	2	2
+ Muffler	1	1	1
+ Condensation drain	1	1	1

Service packages

KEN 200

Item no.	Service interval
ES-Z-12-KEN-200-500-5/99	12 months
ES-Z-24-KEN-200-500-5/99	24 months
ES-Z-48-KEN-200-500-5/99	48 months
KEN 300	

Item no.	Service interval
ES-Z-12-KEN-200-500-5/99	12 months
ES-Z-24-KEN-200-500-5/99	24 months
ES-Z-48-KEN-200-500-5/99	48 months

KEN	400
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Item no.	Service interval
ES-Z-12-KEN-200-500-5/99	12 months
ES-Z-24-KEN-200-500-5/99	24 Monate
ES-Z-48-KEN-200-500-5/99	48 months
VEN	

KEN 500

Item no.	Service interval	
ES-Z-12-KEN-200-500-5/99	12 months	
ES-Z-24-KEN-200-500-5/99	24 months	
ES-Z-48-KEN-200-500-5/99	48 months	

KSI Full service packages

KEN 200

Item no.	Service interval
ESI-Z-12-KEN-200-300-5/99	12 months
ESI-Z-24-KEN-200-300-5/99	24 months
ESI-Z-48-KEN-200-300-5/99	48 months

KEN 300

Item no.	Service interval
ESI-Z-12-KEN-200-300-5/99	12 months
ESI-Z-24-KEN-200-300-5/99	24 months
ESI-Z-48-KEN-200-300-5/99	48 months

KEN 400

Item no.	Service interval
ESI-Z-12-KEN-400-500-5/99	12 months
ESI-Z-24-KEN-400-500-5/99	24 months
ESI-Z-48-KEN-400-500-5/99	48 months

KEN 500

Item no.	Service interval
ESI-Z-12-KEN-400-500-5/99	12 months
ESI-Z-24-KEN-400-500-5/99	24 months
FSI-7-48-KFN-400-500-5/00	48 months







ECOSERV





High performance desiccants guarantee operational reliability

The desiccant fillings for adsorption dryers with heatless & heated regeneration are structured according to adsorber type for all pressure dew points and applications, and are supplied as a substitute filling for the adsorption dryers from other manufacturers. KSI exclusively uses desiccants and adsorbents

from well-known German manufacturers, for example BASF. The highest-quality materials are in this case also the KSI standard, because poor alternatives often do not yield the desired or necessary result. As usual, KSI nonetheless also provides here a good price performance ratio.



KSI desiccant package comparison using the example of the Zander KEN 200 - KEN 500 series since 05/99

Item no.	for Zander adsorption dryers	Service interval
ES-DPZ-KEN200	KEN 200	48 months
ES-DPZ-KEN300	KEN 300	48 months
ES-DPZ-KEN400	KEN 400	48 months
ES-DPZ-KEN500	KEN 500	48 months

Desiccant packages contain replacement fillings and dust sieves

KSI Service Support

The KSI "Adsorption Dryer Competence Team" fully supports it's industrial partners. In case of any questions during a service or repair on an adsorption dryers with heatless or heated regeneration from other manufacturers, KSI associates will be glad to support you at any stage of the service work.

We can help to avoid possible errors at the quotation stage for service work.

Use our experience and competence.

Training for service and repair, even for other manufacturers adsorption dryers

Besides training on KSI heatless & heat regenerated adsorption dryers, KSI offers training to industry service technicians on other manufacturer's adsorption dryers.

Learn new things during training, convince your customers.