

COMPRESSED AIR TREATMENT TRATTAMENTO ARIA COMPRESSA



Quality by choice



RINA
ISO 9001 - ISO 14001
BS OHSAS 18001
Certified Integrated Systems

F SERIES – SA SERIES
COMPRESSED AIR FILTERS / FILTRI PER ARIA COMPRESSA
CONDENSATE SEPARATORS / SEPARATORI DI CONDENSA

WHY AIR FILTER

Compressed air in industrial applications contains in 1Nm³ more than 100 million of polluting particles. Most of these particles are so small in dimension, less than 5 micron, that they cannot be intercepted by the standard intake filters installed in the compressors.

Such particles, mixed with water and oil vapours generated during compression, cause the early wear and tear of the appliances and consequently they are the cause of expensive interruptions of the production and remarkable increase the number of interventions for maintenance purposes.

A right selection of filters will allow the best choice of the suitable equipment according to the quantity of air to be treated and the necessary filtration degree in order to increase and improve the performances of the whole system.

A filter element, which is saturated and/or obstructed from impurities compromises the air's quality and determines higher operation costs of the whole plant. A pressure drop of 1 bar corresponds to a 7% higher energy consumption of the compressor reason why it is strongly recommended to replace the filter element when the pressure drop reaches a value of 0,6 bar (9 psi).

Safety: All equipment are manufactured, when applicable, according to the main European Directives like 2014/68/EU (PED).

Upon request, they are available in the ASME VIII-1 execution.



L'aria compressa utilizzata negli impianti pneumatici industriali, contiene una quantità superiore a 100 milioni di particelle contaminanti per Nm³; di queste, la stragrande maggioranza ha una dimensione così ridotta, inferiore a 5 micron, tale da non poter essere trattenuta dai normali filtri di aspirazione dei compressori.

Queste particelle, mescolate al vapore d'acqua ed olio generatosi durante la fase di compressione, provocano la precoce usura degli apparecchi utilizzatori e, di conseguenza, determinano costosissime fermate di produzione e riducono notevolmente gli intervalli di manutenzione.

Per ogni specifico utilizzo è possibile ottenere un perfetto dimensionamento del proprio impianto a seconda della portata d'aria da trattare e del grado di filtrazione richiesto così da incrementare ed ottimizzare le prestazioni dell'intero impianto.

Un elemento filtrante saturo ed/o ostruito da impurità, oltre a compromettere la qualità dell'aria resa determina maggiori costi di esercizio dell'intero impianto.

Una caduta di pressione di 1 bar, corrisponde ad un maggior consumo energetico del compressore del 7% per cui è altamente consigliato sostituire le cartucce filtranti quando la pressione differenziale raggiunge i 0,6 bar massimi.

Sicurezza: Tutti i filtri, dove applicabili, sono realizzati in accordo alle principali Direttive Europee riguardanti apparecchi in pressione quali 2014/68/EU (PED). Su richiesta sono disponibili in esecuzione secondo ASME VIII-1.

IL PERCHÈ DEL FILTRO ARIA

DIFFERENTIAL PRESSURE GAUGE

The differential pressure gauge can be mounted facing either direction and accurately indicates when filter element needs replacing. Alternatively a differential pressure colour indicator could be used.

MANOMETRO DIFFERENZIALE

Il manometro differenziale può essere montato in entrambe le direzioni ed indica quando la cartuccia deve essere sostituita. In alternativa, si può utilizzare un indicatore differenziale.

CONNECTION THREADS

Available in BSP and NPT executions. A protection on the filters' threads is used for a friendly connection.

CONNESSIONI ENTRATA/USCITA

Disponibili nelle versioni BSP e NPT. I filetti vengono protetti, durante la verniciatura, da depositi di vernice. Forniti completi di tappi di protezione in plastica.

SAFETY WHISTLE SYSTEM

Prevents housing being opened whilst in operation.

ORIFIZIO DI SICUREZZA

Evidenzia e sfiata la pressione nel caso in cui il filtro venga aperto inavvertitamente.

PLEATED TYPE FILTER MEDIA

Offers a high filtration surface area, extremely low pressure drop and a longer working life than wrapped type.

MATERIALE FILTRANTE PIEGHETTATO

Offre un'alta superficie di filtrazione, una perdita di carico estremamente bassa ed una maggiore durata rispetto ai modelli di tipo avvolto.

FILTER ELEMENT IDENTIFICATION CODE

Elements' filtration grade is clearly identified with the different colour of the outer foam sleeves and the special marks on the bottom of the filter element.

CODICE DI IDENTIFICAZIONE DELLE CARTUCCE

Il grado di filtrazione delle cartucce è chiaramente identificato grazie a diversi colori del rivestimento esterno ed alla speciale marchiatura presente alla base della cartuccia stessa.

REDUCED INSTALLATION SPACE

Only 6 cm – up to 20 cm for the bigger filters – of clearance is needed under the filter bowl for replacing the element.

RIDOTTO SPAZIO DI INSTALLAZIONE

Solo 6 cm – fino a 20 cm per i filtri più grandi – di spazio sono necessari sotto il bicchiere del filtro per sostituire la cartuccia.

BEST PERFORMANCES

The optimised filter design coupled with the new elements reduces flow resistance through the filter, compared with the previous series, up to 80%.

PRESTAZIONI MIGLIORATE.

Il design ottimizzato del filtro combinato alle nuove cartucce riduce la perdita di carico, paragonata alla serie precedente, fino all'80%.

FILTER ELEMENT INSTALLATION

A carefully designed bayonet connection is used on the filter. It guarantees easy and safe KLIK-ON fixing of the element, eliminates the need for a tie rod and the whole cross-sectional area is fully available.

FISSAGGIO DELLA CARTUCCIA

Il nuovo filtro utilizza una connessione a baionetta accuratamente progettata. Questo sistema, permette un semplice e sicuro fissaggio a scatto ed elimina la necessità del tirante in modo che l'intera sezione di passaggio è disponibile per il flusso dell'aria.

BODY'S CONSTRUCTION & PROTECTION

Is manufactured using high pressure casting mould that assures a high quality of the filter with reduced weight, high resistance without presence of porosity. The treatment of the interior and exterior of the housing assures an excellent resistance against corrosion.

COSTRUZIONE E PROTEZIONE DEL CORPO FILTRO

I nuovi stampi in pressofusione garantiscono un'alta qualità del filtro nonché un ridotto peso, un'elevata resistenza senza presenza di porosità.

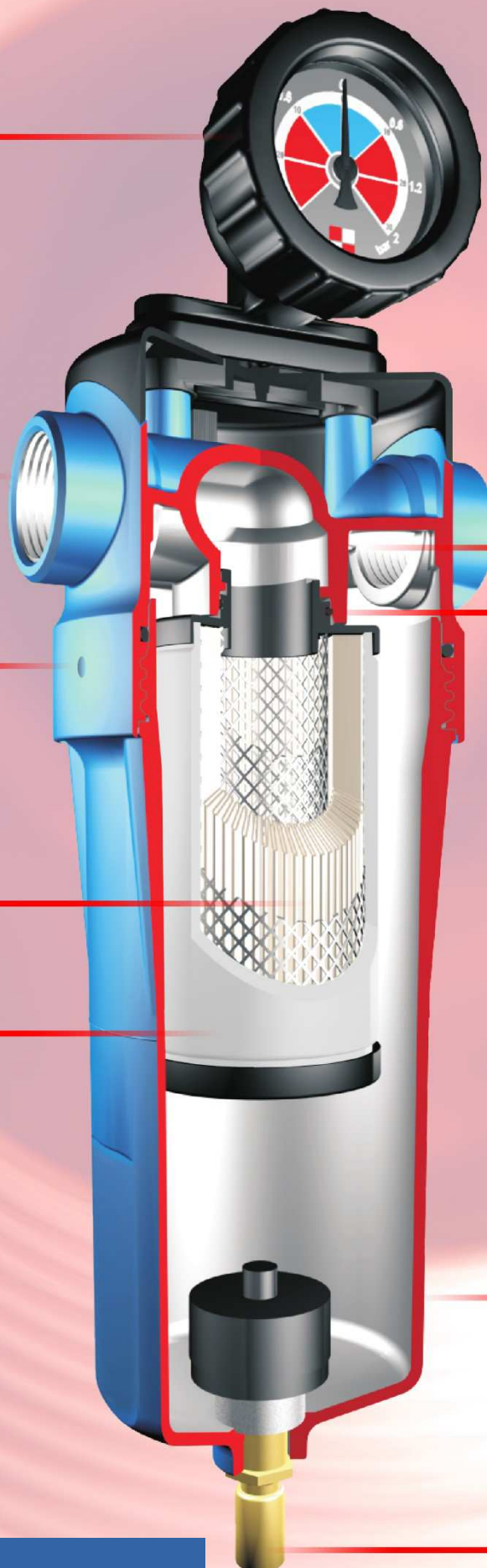
Un trattamento della superficie interna ed esterna del corpo filtro assicura una eccellente resistenza alla corrosione.

CONDENSATE DRAINS

Standard is equipped with manual drain. Floating, electronic and no loss drains are available on request.

SCARICATORI DI CONDENZA

Il filtro nella versione standard è fornito di scaricatore manuale. Scaricatori di tipo automatico, elettronico e no loss sono disponibili su richiesta.



DUST FILTER DF SERIES

A protective dust filter suitable for the removal of solid, liquid and emulsified particles down to 10 microns. A long working life coupled with a strong resistance to heat and abrasion make this filter the perfect choice for protecting your compressed air pipe system, machineries and accessories. The ceramic material is suggested for all the heavy duty applications.

SOLID CONTAMINANT PREFILTER QF SERIES

Prefilter suitable for the removal of solid particles down to 5 micron including liquid, emulsions and oil particles. The strong mechanical resistance makes this filter the ideal initial protection of a compressed air system to retain impurities and, for example, it is suitable as a post-filter for adsorption dryers.

COALESCING FILTER PF SERIES

Interception type filter suitable for solid and oil particles up to 1 micron and 0,1 mg/m³. This filter, by means of the impact, interception and coalescing principles, compels the submicron liquid particles, which from the inside strain through the element, to collide and thus become larger micro droplets, which will drip the bottom of the filter housing. The element itself is made by inner and outer stainless steel structure. PVC outside cover, suitable for air temperature up to 100°C and UV resistance, drains the coalesced liquid.

4 STEPS CLICK - ON FIXATION

Sistema di fissaggio a Scatto CLICK ON in 4 fasi

EASY AND SIMPLE INSTALLATION OF THE CARTRIDGE

FISSAGGIO DELLA CARTUCCIA SEMPLIFICATO



PRESSURE DROP PERDITA DI CARICO		AIR QUALITY QUALITÀ DELL'ARIA	MAX. WORKING TEMPERATURE TEMPERATURA MASSIMA
DRY NUOVO	WET SATURO	10 micron	
0,07 bar	0,10 bar		100°C

Filtro antipolvere di protezione per la rimozione di particelle solide, liquido ed emulsioni di diametro fino a 10 micron. Una lunga durata di esercizio unita ad un'ottima resistenza al calore ed all'abrasione, lo rendono la perfetta scelta per la protezione del vostro impianto d'aria compressa comprendente tubazioni, macchinari ed accessori. Il materiale ceramico è consigliato per tutte le applicazioni più gravose.

PUSH UP



INSERIRE CARTUCCIA



PRESSURE DROP PERDITA DI CARICO		AIR QUALITY QUALITÀ DELL'ARIA	MAX. WORKING TEMPERATURE TEMPERATURA MASSIMA
DRY NUOVO	WET SATURO	5 micron	
0,05 bar	0,08 bar		100°C

Prefiltro in grado di trattenere particelle solide di diametro fino a 5 micron inclusi liquidi, emulsioni e particelle oleose. L'elevata resistenza meccanica, lo rendono utilizzabile sia come mezzo di protezione iniziale di un impianto d'aria compressa sia per trattenere impurità di processo ad esempio come post-filtro per essiccatori ad adsorbimento.

TURN LEFT TO STOP



RUOTARE ANTIORARIO FINO AL BLOCCAGGIO



PRESSURE DROP PERDITA DI CARICO		AIR QUALITY QUALITÀ DELL'ARIA	MAX. WORKING TEMPERATURE TEMPERATURA MASSIMA
DRY NUOVO	WET SATURO	1 micron	
0,10 bar	0,16 bar	0,1 mg/m ³	100°C

Filtro ad intercettazione in grado di trattenere particelle solide ed oleose fino a 1 micron e 0,1 mg/m³. Sfruttando i principi dell'impatto inerziale, dell'intercettazione e della coalescenza, obbliga le particelle submicroniche di liquido che lo attraversano, a collidere formando microgocce più grandi che, per gravità, precipitano nel fondo del filtro. La cartuccia, costituita da uno strato di microfibre di borosilicato è sorretta da una struttura interna ed esterna in acciaio inox. Un nuovo rivestimento esterno in PVC resistente ai raggi UV ed a temperature fino a 100°C, è utilizzato per il drenaggio del liquido coalescente.

COALESCING FILTER HF SERIES

ACTIVATED CARBON FILTER CF SERIES

APPLICATIONS APPLICAZIONI

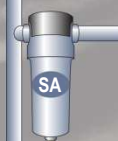
Coalescing filter for liquid and solid particles up to 0,01 micron and 0,1 mg/m³. HF type filter is structurally similar to the PF series. The only difference lies in the filtration degree. Air passing through this filter is practically 99,99% oil free, therefore it is suitable to be employed when and where clean and pure air is a must. When placed after a dryer as an additional despoiling filter is an excellent prefilter for the CF series. (0,001 mg/m³ upon request)

There are treatments in industrial plants which in addition to oil free air, require the elimination of oil vapours and odours. For these purposes, the activated carbon filter through the absorption process attracts all odours and vapours left after despoiling and keep them on the surface of the activated carbon grain molecules. Owing to this, PF or HF filters have to be placed before the CF filters. The element is made by thick activated carbon layer covered by fiber coating kept in place by an inside and outside stainless steel wall.

COMPRESSOR

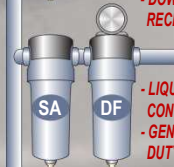
- NO REQUIREMENTS
- LOW QUALITY SYSTEMS

- NESSUNA SPECIFICA
- IMPIANTI DI BASSA QUALITA'



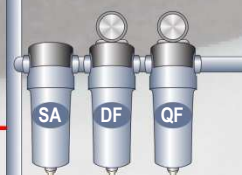
- DOWNSTREAM OF AN AIR COMPRESSOR
- DOWNSTREAM ON AFTER COOLER
- DOWNSTREAM ON AIR RECEIVER

- A VALLE DI UN COMPRESSORE
- A VALLE DI UN REFRIGERATORE FINALE
- A VALLE DI UN SERBATOIO



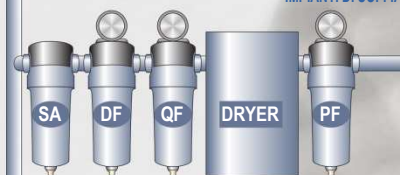
- LIQUID AND SOLID - BULK CONTAMINATION REMOVAL
- GENERAL PURPOSE HEAVY DUTY APPLICATIONS
- DUST PROOF PREFILTER

- RIMOZIONE DI CONTAMINATI SOLIDI E LIQUIDI
- PREFILTRO PROTETTIVO PER IMPIANTI OPERANTI IN AMBIENTI GRAVOSI
- PREFILTRO ANTIPOLVERE



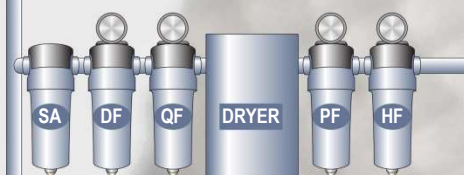
- UPSTREAM OF REFRIGERATED DRYERS AND VACUUM PUMPS
- PNEUMATIC TOOLS PROTECTION
- GENERAL PURPOSE AUTOMATIONS
- BLOWING PLANTS

- PREFILTRO PER ESSICCATORI E POMPE DI VUOTO
- PROTEZIONE STRUMENTAZIONE PNEUMATICA
- PREFILTRO PROTETTIVO PER AUTOMAZIONI
- IMPIANTI DI SOFFIAGGIO



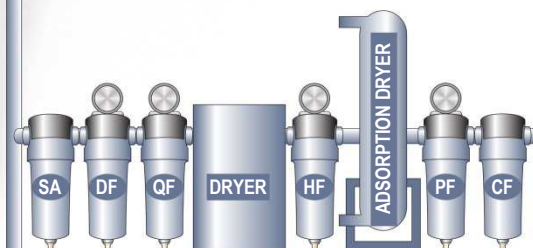
- PARTICLE AFTERFILTER FOR DESSICANT DRYERS
- PNEUMATICS TOOLS AND DEVICES
- DOWNSTREAM OF REFRIGERATED DRYERS
- AIR BLASTING MACHINES
- PNEUMATIC TRANSPORTATION

- POSTFILTRO ANTIPOLVERE
- ESSICCATORI ADSORBIMENTO
- PROTEZIONE IMPIANTI PNEUMATICI
- POSTFILTRO ESSICCATORI A REFRIGERAZIONE
- MOTORI AD ARIA COMPRESSA
- IMPIANTI DI SABBIAIATURA
- TRASPORTI PNEUMATICI



- PREFILTER FOR DESSICANT DRYERS
- SPECIAL PRODUCTION
- SPRAY PAINTING SYSTEM
- PRECISION INSTRUMENTS
- PACKING
- PNEUMATIC CONVEYING

- PREFILTRO A COALESCENZA PER ESSICCATORI ADSORBIMENTO
- PRODUZIONI SPECIALI
- IMPIANTI DI VERNICIATURA
- STRUMENTAZIONE DI PRECISIONE
- CONFEZIONAMENTO
- TRASPORTO PNEUMATICO



- SPECIAL INDUSTRIAL EQUIPMENT
- PACKING
- DOWNSTREAM OF COALESCING HF FILTER

- STRUMENTAZIONE INDUSTRIALE SOFISTICATA
- CONFEZIONAMENTO
- POSTFILTRAZIONE FILTRO DISOLEATORE HF

3 PUSH UP TO THE END
SPINGERE ALL'A BATTUTA
IN ALTO FINO

4 TURN RIGHT TO THE END
RUOTARE ORARIO FINO AL BLOCCAGGIO
IN SENSO



PRESSURE DROP PERDITA DI CARICO		AIR QUALITY QUALITÀ DELL'ARIA	MAX. WORKING TEMPERATURE TEMPERATURA MASSIMA
DRY NUOVO	WET SATURO	0,01 micron	100°C
0,10 bar	0,18 bar	0,01 mg/m ³	

PRESSURE DROP PERDITA DI CARICO		AIR QUALITY QUALITÀ DELL'ARIA	MAX. WORKING TEMPERATURE TEMPERATURA MASSIMA
DRY NUOVO	WET SATURO	0,003 mg/m ³	60°C
0,08 bar	0,12 bar	0,003 mg/m ³	

Filtro a coalescenza per il trattenimento di particelle solide e liquido fino a 0,01 micron e 0,01 mg/m³. E' del tutto simile alla serie PF dalla quale differisce solo per il grado di filtrazione. Questo filtro permette di ottenere un'aria resa praticamente priva di olio nell'ordine del 99,99% e viene impiegato negli impianti in cui la purezza dell'aria è requisito indispensabile. Utilizzato come post-filtro disoleatore dopo un essiccatore in impianti specifici, è il pre-filtro ottimale della serie CF. (0,001 mg/m³ su richiesta)

Alcune applicazioni industriali, richiedono che l'aria trattata sia priva, oltre che delle micro goccioline di olio, anche di odori e vapori. Per tale scopo, il filtro della serie CF, il cui elemento filtrante è costituito da un profondo letto di carboni attivi, esternamente rivestito da fibre di tenuta, sfruttando il principio dell'adsorbimento, attrae gli odori ed i vapori rimasti a valle del processo disoleatore, trattenendoli. Un rivestimento interno ed esterno in acciaio inox, costituisce la base portante dell'elemento. Il filtro della serie CF deve essere sempre preceduto da uno della serie PF o HF.

FILTRO DISOLEATORE SERIE HF

FILTRO A CARBONI ATTIVI
SERIE CF

ACCESSORIES

DIFFERENTIAL PRESSURE GAUGE

Displays the exact grade of saturation of the filter element. Available upon request.

MANOMETRO DIFFERENZIALE

Visualizza l'esatto grado di saturazione della cartuccia del filtro. Disponibile su richiesta.



DIFFERENTIAL PRESSURE INDICATOR

Colour visual indicator of the differential pressure drop through the filter element. Available upon request.

INDICATORE DIFFERENZIALE

Indicatore visivo colorato regolato dalla pressione differenziale. Visualizza il grado di intasamento dell'elemento filtrante.



MANUAL DRAIN

Is standard on all filters and condensate separators.

SCARICATORE MANUALE

Standard su tutti i filtri e separatori di condensa.



AUTOMATIC DRAIN

Automatic auto drain suitable for aluminium type filters and separators. Complete with drain manual control. Available from model F0005 up to F0440.

SCARICATORE AUTOMATICO

Scaricatore di tipo automatico adatto ai filtri in alluminio ed ai separatori. Completo di regolazione manuale di scarico. Disponibili su richiesta dal modello F0005 al modello F0440.



FLOATING TYPE DRAIN

This simple type of automatic drain is used to discharge the condensate from air tanks, filters, air dryers etc. It is supplied with manual testing drain and connection nipple with compensation tube.

SCARICATORE A GALLEGGIANTE

Semplice e funzionale questo tipo di scaricatore automatico viene utilizzato per scaricare le condense da serbatoi, filtri, essiccatori, separatori di condensa. È dotato di test di scarico manuale e raccordo smontabile completo di tubo di compensazione.



TIMED DRAIN

Thanks to the use of a timer that controls interval and duration of operation, this drain is widely used in compressed air industry. It is supplied with stainless steel net filter and ball valve.

SCARICATORE TEMPORIZZATO

Grazie all'impiego di un temporizzatore che controlla l'intervallo e la durata dell'operazione, questo scaricatore è ampiamente utilizzato nell'industria dell'aria compressa. Completo di filtro di protezione inox e di valvola a sfera.



ZERO - ELECTRONIC NO LOSS DRAIN

Suitable for all compressed air systems. Condensate level is automatically monitored thanks to a solenoid valve controlled by a capacitive sensor. The drain operates until all condensation has been removed without any loss of expensive compressed air.

ZERO - SCARICATORE ELETTRONICO NO LOSS

Applicabile a tutti gli impianti d'aria compressa. Il livello di condensa viene automaticamente monitorato per mezzo di un'elettrovalvola comandata da un sensore capacitivo, il quale attiva lo scarico fino alla completa eliminazione della condensa senza la minima perdita di preziosa aria compressa.



IN LINE QUICK CONNECTION

In line quick connection for two or more filters. Available from model F 0005 up to F 0095.

COLLEGAMENTO MULTIPLO RAPIDO

Collegamento multiplo rapido per batterie di due o più filtri. Disponibile su richiesta dal modello F0005 al modello F0095.



WALL SUPPORTS

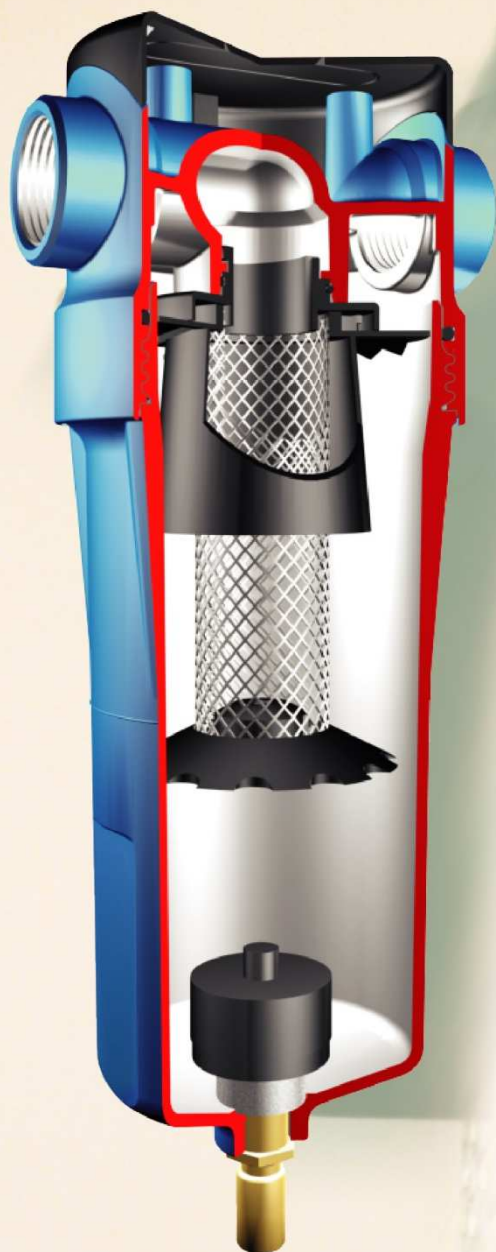
Wall supports. Available from model F 0005 up to F 0095.

SUPPORTI PER FISSAGGIO A MURO

Supporti per fissaggio a muro. Disponibili su richiesta dal modello F0005 al modello F0095.



CYCLONE TYPE CONDENSATE SEPARATORS



Easy to install it is the best solution to remove the condensation generated during the compression process. Upon request equipped with floating, timed or no loss condensate drains.

APPLICATION

- Downstream of an air compressor
- Downstream an after cooler
- Downstream an air receiver

SEPARATORI DI CONDENZA A CICLONE

Di facile installazione, sono il prodotto ideale per separare la condensa formatasi nei compressori prima di entrare nel serbatoio o nell'essiccatore. A richiesta forniti completi di scaricatore di condensa automatico a galleggiante, temporizzato o capacitivo.

APPLICAZIONI

- A valle di un compressore
- A valle di un refrigeratore finale
- A valle di un serbatoio

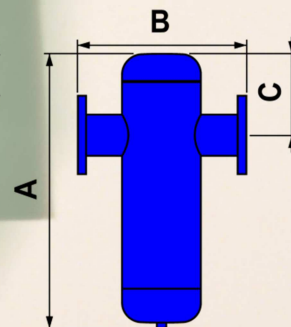
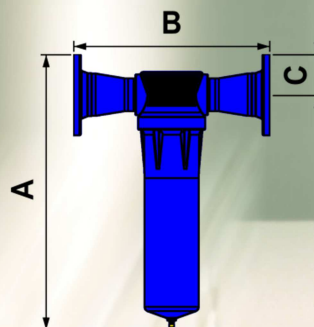
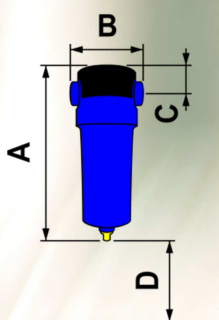
SA 0005 – 0450

SRA 0400 AL

SA 0004 – 0060
(40 bar)

SRA 0500 AL

SRA 0400 – 2000



MODEL MODELLO	CODE CODICE	FLOW-RATE PORTATA			MAX PRESSURE PRESSIONE MAX	CONNECTIONS CONNESSIONI	DIMENSIONS (MM) DIMENSIONI (MM)				WEIGHT PESO
		l/min	m³/h	CFM			A	B	C	D	
SA 0005	03A.0030AG	500	30	18	16	3/8"	220	90	25	60	0,6
SA 0010	03A.0060AG	1.000	60	35	16	1/2"	220	90	25	80	0,6
SA 0030	03A.0180AG	3.000	180	106	16	3/4"	280	90	25	100	0,7
SA 0050	03A.0300AG	5.000	300	176	16	1"	305	120	37	120	1,1
SA 0095	03A.0570AG	9.500	570	335	16	1 1/2"	385	120	37	120	1,3
SA 0165	03A.0990AG	16.500	990	582	16	2"	500	165	54	150	3,6
SA 0220	03A.1320AG	22.000	1.320	776	16	2 1/2"	675	165	54	150	4,7
SA 0450	03A.2700AG	45.000	2.700	1.588	16	3"	710	200	65	200	6,2
SRA 0400 AL	03A.2400BG	40.000	2.400	1.412	16	DN 100	757	544	110	-	6,5
SRA 0500 AL	03A.3000BG	50.000	3.000	1.765	12	DN 125	772	608	125	-	6,8
SRA 0400	03F.2400.G	40.000	2.400	1.412	12	DN 100	780	420	210	-	40
SRA 0500	03F.3000.G	65.000	3.900	2.297	12	DN 125	790	445	233	-	54
SRA 1100	03F.6600.G	110.000	6.600	3.882	12	DN 150	845	523	290	-	80
SRA 1250	03F.7500.G	125.000	7.500	4.412	12	DN 175	930	606	310	-	116
SRA 2000	03F.A120.G	200.000	12.000	7.059	12	DN 200	1025	657	340	-	156

		FLOW-RATE AT 40 BAR PORTATA A 40 BAR									
		l/min	m³/h	CFM	bar	BSP	A	B	C	D	Weight
SA 0004 40 bar	03B.0024.G.0	1800	108	64	40	3/8"	188	94	18	-	1,5
SA 0008 40 bar	03B.0048.G.0	3600	216	127	40	1/2"	188	94	18	-	1,5
SA 0016 40 bar	03B.0096.G.0	7200	432	254	40	3/4"	252	94	20	-	1,8
SA 0036 40 bar	03B.0216.G.0	16200	972	572	40	1"	350	120	30	-	3,8
SA 0060 40 bar	03B.0360.G.0	27000	1620	953	40	1 1/2"	350	120	30	-	4,2

STANDARD REFERENCE CONDITIONS CONDIZIONI STANDARD DI RIFERIMENTO

Ambient temperature Temperatura ambiente	25°C
Inlet air temperature Temperatura ingresso aria	20°C (60°C max)
Working pressure Pressione di esercizio	
SA 0005 – 0450 SRA 0400 – 0500 AL SRA 0400 – 2000	7 bar
SA 0004 – 0060 40 bar	40 bar

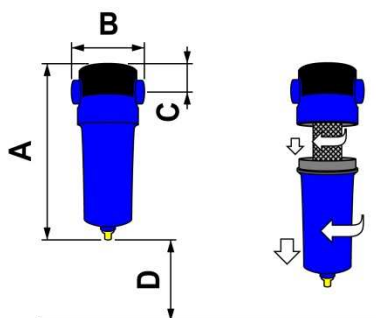
Please contact our sales department for non-standard working conditions.

Per condizioni di lavoro differenti da quelle standard contattare il nostro ufficio commerciale.

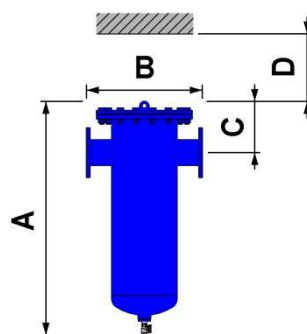
SRA 0400-2000 manufactured according to the 2014/68/EU (PED)
Also available in ASME VIII execution

SRA 0400-2000 prodotto in accordo alla normative 2014/68/EU (PED)
Disponibile anche in esecuzione ASME VIII

TECHNICAL DATA / DATI TECNICI



F 0005 - 0440



F 0460 - 3500

MODEL MODELLO	DF CODE CODICE DF	QF CODE CODICE QF	PF CODE CODICE PF	HF CODE CODICE HF	CF CODE CODICE CF	FLOW-RATE PORTATA			MAX PRESSURE PRESSIONE MAX	CONNECTIONS CONNESSIONI	DIMENSIONS (mm) DIMENSIONI (mm)				WEIGHT PESO
						l/min	m³/h	CFM	bar	BSP	A	B	C	D	Kg
F 0005	04A.0030.D	04A.0030.Q	04A.0030.P	04A.0030.H	04A.0030.C	560	33	20	16	3/8"	220	90	25	60	0,6
F 0010	04A.0060.D	04A.0060.Q	04A.0060.P	04A.0060.H	04A.0060.C	1.170	70	41	16	1/2"	220	90	25	80	0,6
F 0018	04A.0108.D	04A.0108.Q	04A.0108.P	04A.0108.H	04A.0108.C	1.800	108	64	16	3/4"	280	90	25	100	0,7
F 0030	04A.0180.D	04A.0180.Q	04A.0180.P	04A.0180.H	04A.0180.C	3.000	180	106	16	3/4"	280	90	25	100	0,7
F 0034	04A.0204.D	04A.0204.Q	04A.0204.P	04A.0204.H	04A.0204.C	3.400	204	120	16	1"	305	120	37	120	1,1
F 0050	04A.0300.D	04A.0300.Q	04A.0300.P	04A.0300.H	04A.0300.C	5.000	300	176	16	1"	305	120	37	120	1,2
F 0072	04A.0432.D	04A.0432.Q	04A.0432.P	04A.0432.H	04A.0432.C	7.200	432	254	16	1 1/2"	385	120	37	120	1,3
F 0095	04A.0570.D	04A.0570.Q	04A.0570.P	04A.0570.H	04A.0570.C	10.400	620	370	16	1 1/2"	385	120	37	120	1,4
F 0125	04A.0750.D	04A.0750.Q	04A.0750.P	04A.0750.H	04A.0750.C	12.800	770	450	16	2"	500	165	54	150	3,7
F 0165	04A.0990.D	04A.0990.Q	04A.0990.P	04A.0990.H	04A.0990.C	16.500	990	582	16	2"	500	165	54	150	3,8
F 0190	04A.1140.D	04A.1140.Q	04A.1140.P	04A.1140.H	04A.1140.C	19.000	1.140	671	16	2 1/2"	675	165	54	150	4,8
F 0220	04A.1320.D	04A.1320.Q	04A.1320.P	04A.1320.H	04A.1320.C	22.000	1.320	776	16	2 1/2"	675	165	54	150	4,9
F 0280	-	04A.1680.Q	04A.1680.P	04A.1680.H	04A.1680.C	28.000	1.680	988	16	3"	710	200	65	200	6,7
F 0350	-	04A.2100.Q	04A.2100.P	04A.2100.H	04A.2100.C	35.000	2.100	1.235	16	3"	865	200	65	200	7,9
F 0440	-	04A.2640.Q	04A.2640.P	04A.2640.H	04A.2640.C	44.000	2.640	1.553	13	3"	985	200	65	200	8,8
F 0460	-	04F.2760.QG	04F.2760.PG	04F.2760.HG	04F.2760.CG	46.000	2.760	1.620	16	DN 100	1265	485	240	300	125
F 0700	-	04F.4200.QG	04F.4200.PG	04F.4200.HG	04F.4200.CG	70.000	4.200	2.500	16	DN 125	1275	630	285	300	196
F 0950	-	04F.5700.QG	04F.5700.PG	04F.5700.HG	04F.5700.CG	95.000	5.700	3.300	16	DN 150	1380	630	305	300	210
F 1250	-	04F.7500.QG	04F.7500.PG	04F.7500.HG	04F.7500.CG	125.000	7.500	4.400	16	DN 150	1430	676	310	300	264
F 1550	-	04F.9300.QG	04F.9300.PG	04F.9300.HG	04F.9300.CG	155.000	9.300	5.400	16	DN 150	1500	724	335	300	314
F 1850	-	04F.A110.QG	04F.A110.PG	04F.A110.HG	04F.A110.CG	185.000	11.000	6.500	16	DN 200	1500	724	350	300	320
F 2500	-	04F.A142.QG	04F.A142.PG	04F.A142.HG	04F.A142.CG	240.000	14.200	8.400	16	DN 200	1565	885	440	300	530
F 3000	-	04F.A199.QG	04F.A199.PG	04F.A199.HG	04F.A199.CG	335.000	19.900	11.800	16	DN 250	1575	950	440	300	670
F 3500	-	04F.A310.QG	04F.A310.PG	04F.A310.HG	04F.A310.CG	520.000	31.000	18.500	16	DN 300	1700	1050	545	300	1.083

STANDARD REFERENCE CONDITIONS CONDIZIONI STANDARD DI RIFERIMENTO

Ambient temperature	Temperatura ambiente	25 °C			
Working pressure	Pressione di esercizio	7 bar			
Inlet air temperature	Temperatura ingresso aria	20 °C			
		DF - QF - PF - HF		CF	
Max inlet air temperature	Temperatura massima ingresso aria	100 °C		60 °C	

Please contact our sales department for non-standard working conditions.

Per condizioni di lavoro differenti da quelle standard contattare il nostro ufficio commerciale.

Correction factors for different working pressure / Fattore di correzione per diverse pressioni di esercizio

bar	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
psi	29	43	57	71	85	100	114	128	142	156	171	185	199	213	228
Factor / Fattore	0,36	0,50	0,63	0,75	0,88	1,00	1,13	1,25	1,38	1,50	1,63	1,75	1,88	2,00	2,13

The manufacturer reserves the right to modify specifications without prior notice
Il costruttore si riserva il diritto di modificare le specifiche tecniche senza alcun preavviso



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COMPRESSED AIR TREATMENT



Quality by choice



ZERO SERIES
NO LOSS AUTOMATIC DRAIN VALVE

NO LOSS AUTOMATIC DRAIN VALVE ZERO SERIES

THE EVOLUTION

Zero Loss drain are designed to efficiently discharge condensate generated by every type of compressed air systems like air compressors, dryers, tanks, filters and separators.

The new drain has been developed thanks to more than 20 years of experience in the field to be easily installed in all applications even under the most critical conditions in terms of port size, installation freedom and working conditions.

The extremely robust construction and the reliable operation along with the compliance with the main manufacturing and safety standards make the Zero drain the right choice for the modern market applications related with compressed air.

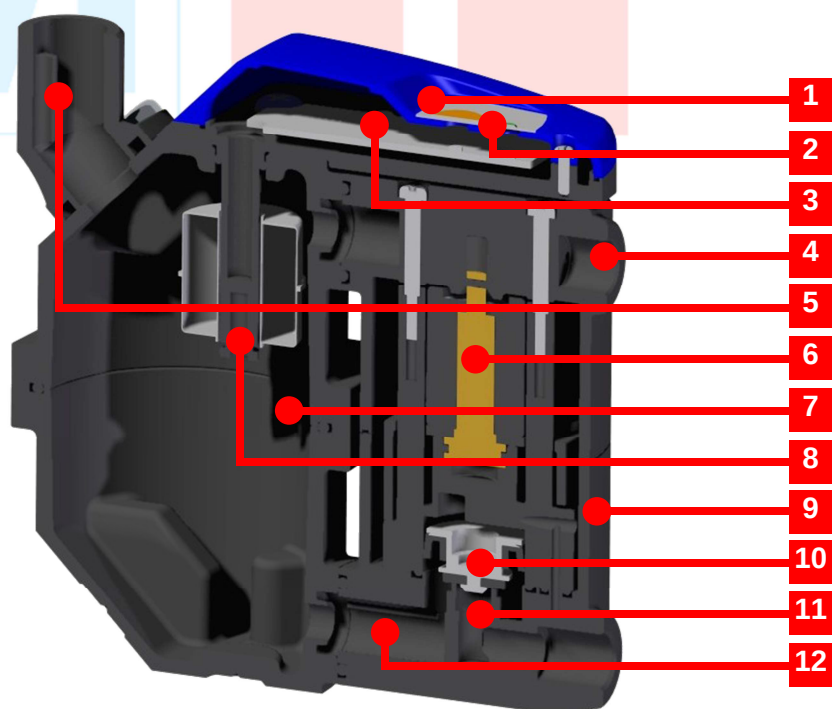
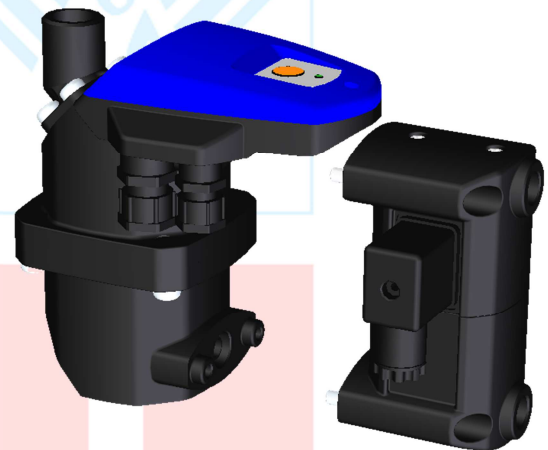
THE NEXT GENERATION

Zero drain package offers the most innovative solutions in term of flexibility because thanks to a very compact design it is easily installable under every type of tank even when the bottom clearance is closet o zero.

Thanks to the service package, that in a unique module includes all the components subject to tears, loss of production and maintenance costs are reduced to minimum.

Features and benefits

- 1 Power supply
- 2 Test button
- 3 Potential free contact / Alarm
- 4 N.A. (not applicable)
- 5 Internal vent
- 6 Low power solenoid valve
- 7 Aluminum anodized body
- 8 Level sensor
- 9 Service kit package
- 10 Diaphragm discharge valve
- 11 Large orifice drain port
- 12 Built in mesh filter strainer



LARGE CAPACITY WITH ENERGY SAVINGS

Zero drain has been developed with a compact design but with an extra large capacity starting with the smaller model Zero4 that is capable to handle large flow of condensate with no loss of compressed air.



OPERATING PRINCIPLE

During operation condensate flows into the aluminum vessel (1) and when higher level is reached, the electronic sensor (2) gives the contact to the electronic microprocessor (3) to energize the large orifice diaphragm solenoid valve (4) and condensate is discharged until the lower level is reached without any air loss of compressed air.

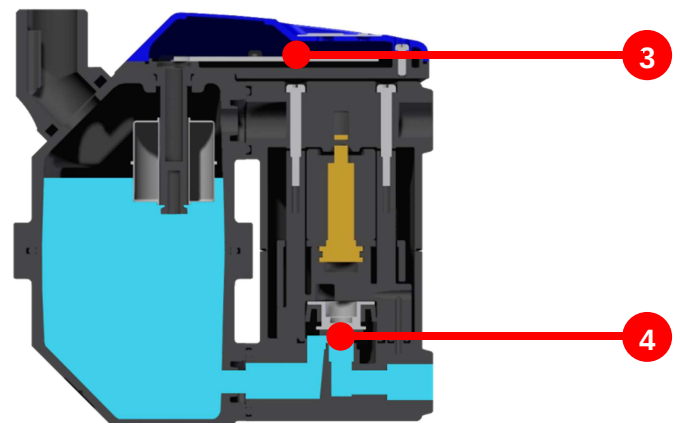
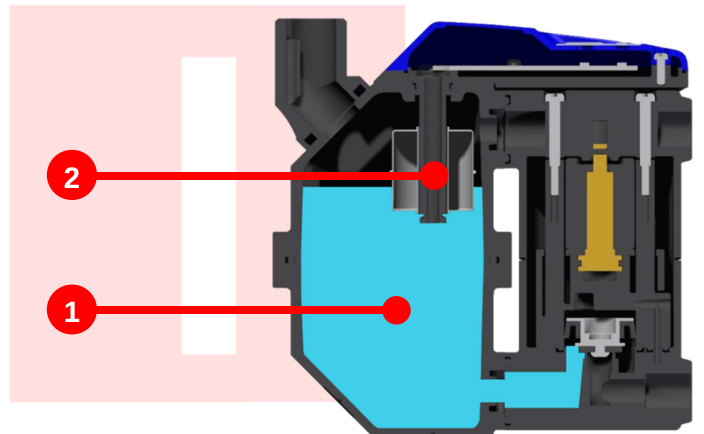
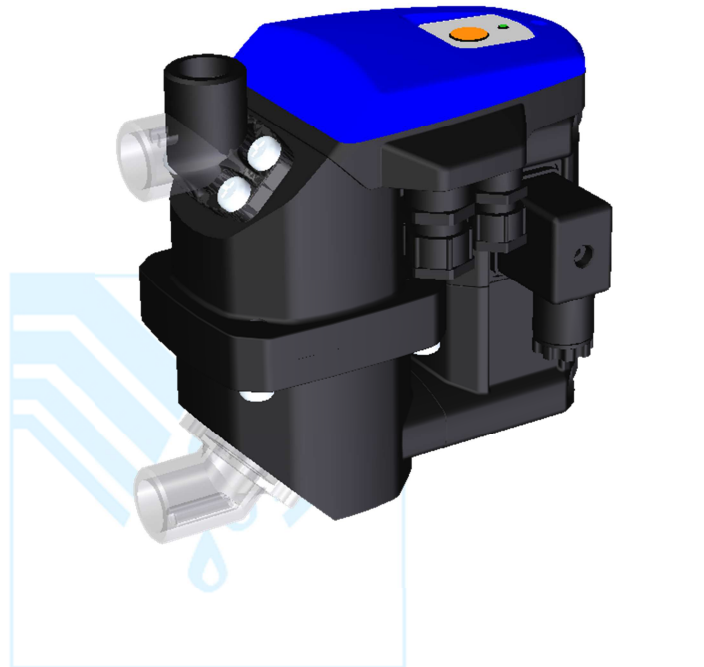
In case of overflow the alarm light is activated and will continue to flash until all condensate has been discharged from the unit.

ADDITIONAL OPTIONS

- Heater for below freezing working conditions
- Mounting bracket for floor or wall mounting
- Different power supply (see specifications)

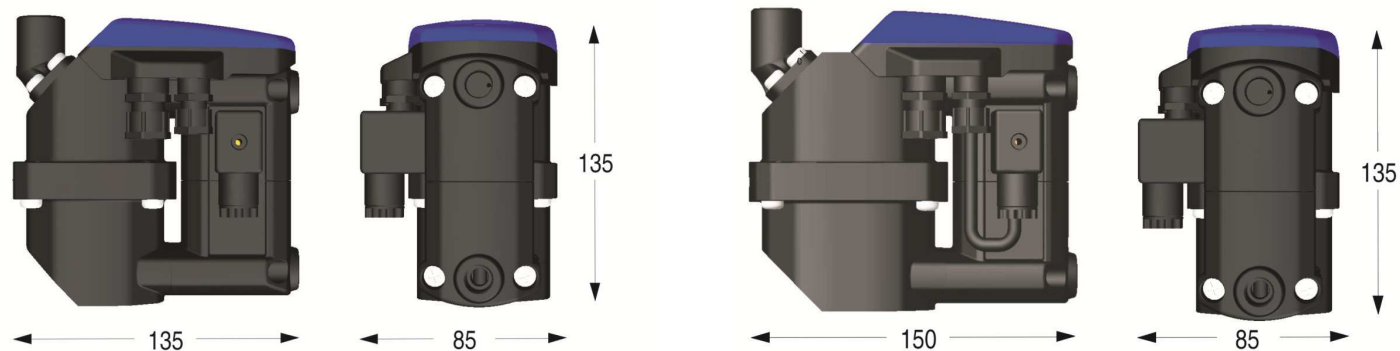
INSTALLATION CONNECTIONS

Zero series has a large variety of installation connections options like 90 rotating elbow connector and a upper or lower connection option.



ZERO4 / ZERO8

ZERO12 / ZERO20



Specification

Model	ZERO4	ZERO8	ZERO12	ZERO20
Compressor capacity (m³/h)	400	800	1200	2000
Dryer capacity (m³/h)	800	1600	2400	4000
Filter capacity (m³/h)	4000	8000	12000	20000
Max. operating pressure (bar)	0.8-16	0.8-16	0.8-16	0.8-16
Max. operating temperature (°C)	1-60	1-60	1-60	1-60
Inlet connection	1/2"	1/2"	1/2"	1/2"
Outlet connection	1/4"	1/4"	1/4"	1/4"
Power supply (V/Ph/Hz)	230/1/50	230/1/50	230/1/50	230/1/50
Weight (Kg)	0,80	0,80	0,95	0,95

This catalogue replaces all previous ones.

OMI reserves the right to change the mentioned data without prior notice.

ALPS SERIES FILTERS



Designed and Built for Exceptional Performance

OMI's advanced Alps Series compressed air filters reduce contamination in your air stream to help protect your critical processes and valuable equipment.

Our filters are rigorously tested and engineered with superior components to provide years of reliable performance and consistently high-quality air.



Better Quality

Without effective filtration, products and processes that depend on compressed air are subject to increased scrap, poor quality and additional maintenance.

OMI Alps Series filters address these issues, helping to assure your compressed air system delivers clean, high-quality air throughout your facility.



Better Efficiency

Maintaining a low pressure drop on all compressed air components is critical for an energy-efficient system. OMI Alps Series filters have been engineered to deliver low pressure drop throughout the life of the filter element and to provide a unique dual indicator that illustrates the true cost of pressure drop on the system.

Better Choices

Every compressed air system has unique filtration requirements. Alps Series filters are available in four different filtration grades, providing complete filtration solutions for all critical compressed air processes.



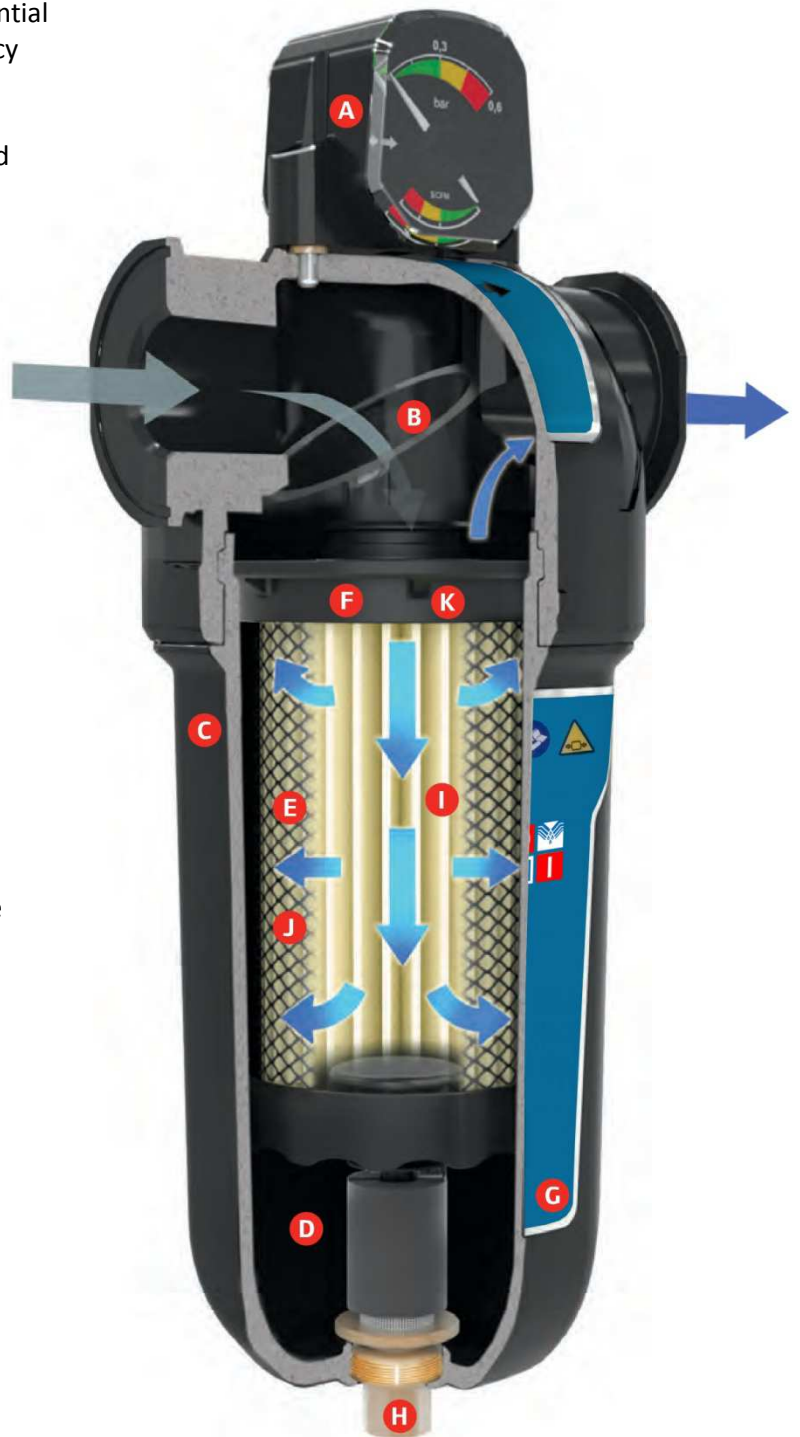
Quality by choice



RINA
ISO 9001 - ISO 14001
BS OHSAS 18001
Certified Integrated Systems

Superior Filtration Technology

- A Patented dual indicator (optional)** shows differential pressure drop and economical operating efficiency
- B Patented smooth bore flow insert** directs air into the filter element, minimizing turbulence and pressure losses
- C All-aluminum, precision die cast body** suitable for 100°C and 20 bar g MAWP applications
- D Proprietary coating** applied to the inside and outside surfaces provides corrosion protection in harsh industrial environments
- E Filter element with stainless steel mesh** withstands high differential pressure while minimizing flow restriction through the element
- F Ergonomic bowl design with no-touch filter element** simplifies element replacement
- G Time strip label** indicates when it's time to change the element (CF Grade only)
- H Industrial-grade brass float drain (optional)** discharges accumulated condensate and oil more reliably than lesser quality plastic drains (no-loss and manual drains also available)
- I Deep-pleated filter media** reduces air flow velocity to maximize filtration efficiency and minimize pressure losses
- J High-efficiency drainage layer** improves liquid drainage properties and enhances chemical compatibility
- K Simple visual alignment** of the filter head and bowl ensures accurate assembly of components and helps to improve safety



Complete Filtration Solution

Alps Series filters are engineered to be a complete filtration solution, incorporating features that address air quality, energy efficiency and ease of maintenance.

The Standard for High-Quality Air

Alps Series filters provide clean, high-quality air as defined by ISO 8573.1:2010, and are certified by a third party under ISO 12500-1. With multiple filter element grades available, there is a filtration solution that will meet your unique requirements.

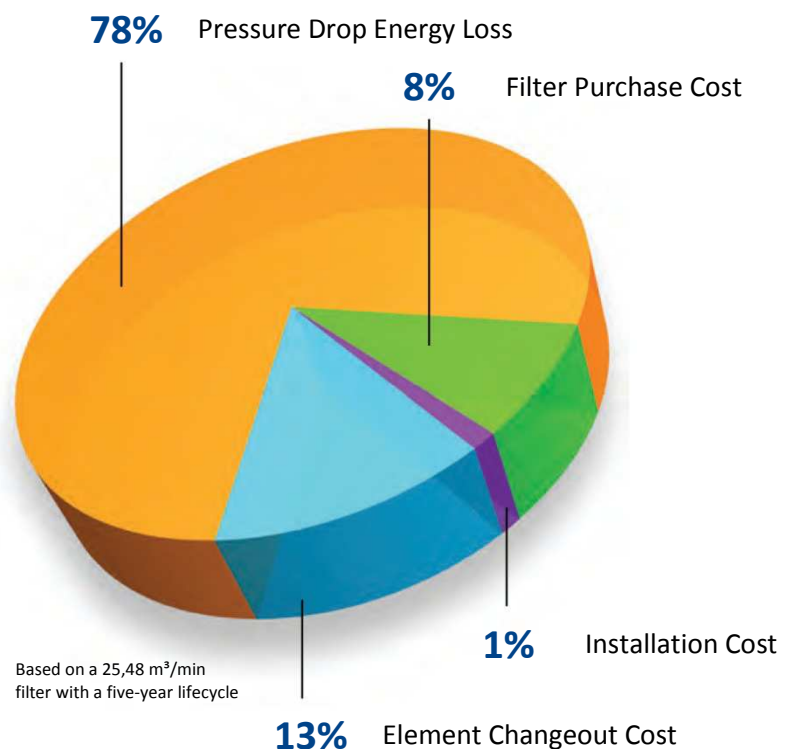
Energy Efficient Through and Through

Pressure drop accounts for over three-quarters of the ownership cost of a compressed air filter. Even when a filter element is clean and dry, it can rob a compressed air system of pressure, causing the air compressor to work harder and increase energy costs. The flow path through the Alps Series filter housing reduces turbulence and enhances efficiency, while the deep-pleated element design further minimizes pressure drop.

Designed with Maintenance in Mind

Features such as no-touch element replacement and visual bowl-to-head alignment indicators make maintaining the Alps Series filter hassle-free. The “zero-clearance” design requires minimal space around the filter, allowing Alps Series filters to be installed where other filters won’t fit. Long element life provides efficient operation for up to one year between element changeouts, helping to reduce overall ownership costs*.

* Frequency of element changeout will depend on the unique conditions of each customer’s air system.



Quality Assured by OMI

OMI has more than 20 years of air filtration experience. Our manufacturing facility ensures quality, reliability and outstanding performance. Our filters undergo advanced testing and are uniquely designed and manufactured to work with the full range of OMI products.



Alps Series Filter Specifications

Model	PF Code	HF Code	CF Code	QF Code	Flow-rate			Max pressure	Connections	Dimensions			Weight
					l/min	m³/h	CFM			A	B	C	
AF30	04A.0030AP	04A.0030AH	04A.0030AC	04A.0030AQ	500	30	18	20	3/8"	177	76	20	0,6
AF40	04A.0040AP	04A.0040AH	04A.0040AC	04A.0040AQ	667	40	24	20	1/2"	177	76	20	0,6
AF75	04A.0075AP	04A.0075AH	04A.0075AC	04A.0075AQ	1250	75	44	20	3/4"	232	98	26	1,1
AF110	04A.0110AP	04A.0110AH	04A.0110AC	04A.0110AQ	1833	110	65	20	3/4"	232	98	26	1,1
AF190	04A.0190AP	04A.0190AH	04A.0190AC	04A.0190AQ	3167	190	112	20	1"	272	129	36	2,1
AF260	04A.0260AP	04A.0260AH	04A.0260AC	04A.0260AQ	4333	260	153	20	1"	272	129	36	2,1
AF400	04A.0400AP	04A.0400AH	04A.0400AC	04A.0400AQ	6667	400	235	20	1 1/2"	362	129	36	2,4
AF500	04A.0500AP	04A.0500AH	04A.0500AC	04A.0500AQ	8333	500	294	20	1 1/2"	362	129	36	2,4
AF800	04A.0800AP	04A.0800AH	04A.0800AC	04A.0800AQ	13333	800	471	20	2"	470	170	44	5,2
AF1000	04A.1000AP	04A.1000AH	04A.1000AC	04A.1000AQ	16667	1000	589	20	2"	470	170	44	5,3
AF1560	04A.1560AP	04A.1560AH	04A.1560AC	04A.1560AQ	26000	1560	918	20	3"	652	205	61	10,7
AF1830	04A.1830AP	04A.1830AH	04A.1830AC	04A.1830AQ	30500	1830	1077	20	3"	652	205	61	10,7
AF2700	04A.2700AP	04A.2700AH	04A.2700AC	04A.2700AQ	45333	2720	1601	20	3"	882	205	61	13,7

Grade CF - Activated Carbon Filtration

Oil vapor and hydrocarbon odor removal, providing a maximum remaining oil content of <0,003 mg/m³ (<0,003 ppm) @ 21°C (Precede with Grade HF filter)

Grade PF - General Purpose Protection

Particle removal down to 0,1 micron including coalesced liquid, water and oil, providing a maximum remaining oil aerosol content of 0,1 mg/m³ (0,1 ppm) @ 21°C

Operating Limitations:

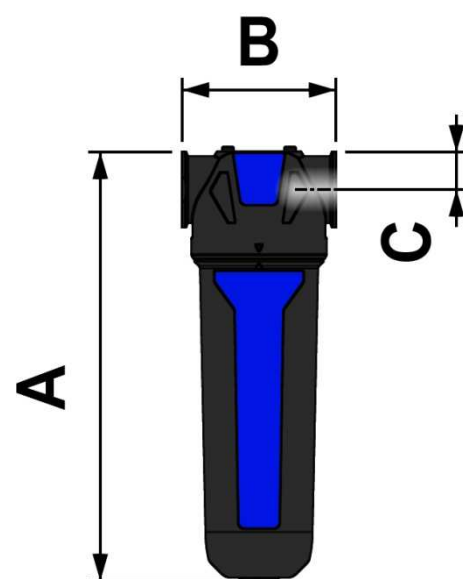
Maximum Operating Pressure	20 bar g
Maximum Recommended Operating Temperature	100°C (Grade PF, HF, QF)
Maximum Recommended Operating Temperature	60°C (Grade CF)
Minimum Recommended Operating Temperature	1°C

Grade HF - High Efficiency Oil Removal Filtration

Particle removal down to 0,01 micron including water and oil aerosols, providing a maximum remaining oil aerosol content of 0,01 mg/m³ (0,01 ppm) @ 21°C (Precede with Grade PF filter)

Grade QF - General Purpose Dust Filtration

Dust particle removal down to 1 micron



Line pressure	bar g	1	2	3	5	7	9	11	13	15	16	17
Correction factor		0,38	0,53	0,65	0,85	1,00	1,13	1,25	1,36	1,46	1,51	1,56

To use correction factors, multiply the filter's capacity by the correction factor to get the new filter flow capacity at the non-standard operating pressure. For example, a 190 m³/h filter operating at 11 bar has a correction factor of 1,25. 1,25 x 190 = 237,5 m³/h capacity at 11 bar.

Available options

DIFFERENTIAL PRESSURE GAUGE Displays the exact grade of saturation of the filter element. Max. Temperature: 80°C		MANUAL DRAIN 1/2" ball valve manual drain.	
AUTOMATIC DRAIN Automatic auto drain suitable for Alps series filters. Completed with manual testing drain. Max. Pressure: 17 bar – Max. Temperature: 80°C		SC-CHROM – TIMED DRAIN Thanks to the use of a timer that controls interval and duration of operation, this drain is widely used in compressed air industry. Max. Pressure: 16 bar	
SC-12M – FLOATING DRAIN This simple type of automatic drain is used to discharge the condensate from air tanks, filters, air dryers, etc. It is supplied with manual testing drain and connection nipple with compensation tube. Max. Pressure: 16 bar		ZERO DRAIN Specifically designed to reduce to zero: - the air consumption thanks to the capacitive control; - the maintenance thanks to the Replacement kit; - the space for the installation underneath the tank. Max. Pressure: 16 bar	

All accessories as pressure gauge, condensate drains (the manual drain as well) and other options if requested will then be supplied separately with different code.