Compressed air filter S F240 3" 46000 l/min 0.01µm <0.01 mg/m³ - microfilter

450220-S









Product details

EAN	8712418411973
GPSR Airpress	Airpress Polska Sp. z o.o.
Length	140 mm (1.4 dm)
Width	140 mm (1.4 dm)
Height	750 mm (7.5 dm)
Diameter (mm)	242
SKU	450220-S
Series	S
Housing material	Aluminium
Element material	Borosilicate micro fibres
Type condensation drain	Automatic
Replaceable cartridge	Yes
Distance sensor	No
Pressure reducer	No
Residual oil content (mg/m3)	<0.01
Air connection (")	3
Working pressure (bar)	0 - 16
Maximum pressure (bar)	16
Minimum ambient temperature (°C)	1.5
Maximum ambient temperature (°C)	65
Filter type	Microfilter
Micron rating (µm)	0.01
Air flow rate (L/min)	46000
Air flow rate (m3/h)	2760

Description

Compressed Air Filter S F240 3" 46000 l/min 0.01µm <0.01 mg/m³ - Microfilter
The S series compressed air filter is a high-performance and very precise particulate filter, designed to remove solid contaminants and oil aerosols. These are coalescing filters, which are a key component in

compressed air treatment systems, providing protection for end devices. The S series filters effectively reduce oil content in the air to <0.01 mg/m³ (at 20°C, 7 bar) and solid particles to 0.01µm. These filters often serve as the second stage of filtration, placed after pre-filters and before finer or carbon filters.
Technical Specification
Filter Type: Microfilter, filtration degree with respect to particles sized 0.01µm and regarding oil residue <0.01 mg/m³
Automatic condensate drain
The set includes: housing, filter element, AOK16B condensate drain
Working pressure: 0 - 16 bar

Property	Value
SKU	45020A-S
Series	S
Air flow (l/min)	46000
Filtration accuracy (µm)	0.01
Max. pressure (bar)	16
Ambient temperature range (°C)	1.5 - 65
Connection	3
Dimensions A (height, mm)	750
Dimensions B (diameter, mm)	242
Weight (kg)	

SKU	Series	Airflow (l/min)	Filtration accuracy (µm)	Max. pressure (bar)	Ambient temperature range (°C)	Connection	A - height (mm)	B - diameter (mm)	Weight (kg)
450220A-S	S	46000	0.01	16	1.5 - 65	3"	750	242	

Materials
Filtering element: Borosilicate micro fibres (filtering material)
Filter housing: Aluminium (housing), PA6 (cover), NBR (seal), with corrosion protection (powder coating)
Automatic condensate drain: PA6 (housing), NBR (seal)
Note! The indicator is an optional extra and is not included in the standard set.
The following types of filters and microfilters are available from Airpress

Type	Description
P	Pre-filters, filtration degree 3 µm.
R	Pre-filters, filtration degree 1 µm.
M	Microfilter 0.1 µm, oil residue ≤ 0.1 mg/m³.
S	Microfilter 0.01 µm, oil residue ≤ 0.01 mg/m³.
A	Active carbon insert 0.01 µm, oil ≤ 0.005 mg/m³.
A2	Molecular sieve insert, 0.01 µm, oil < 0.005 mg/m³, class 0/1 ISO 8573-1.

Code	Type	Filtration degree	Oil residue	ISO 8573-1 class
P	Pre-filter	3 µm	–	–
R	Pre-filter	1 µm	–	–
M	Microfilter	0.1 µm	≤ 0.1 mg/m³	–
S	Microfilter	0.01 µm	≤ 0.01 mg/m³	–
A	Activated carbon	0.01 µm	≤ 0.005 mg/m³	–
A2	Molecular sieve	0.01 µm	< 0.005 mg/m³	0 / 1

Our offer includes filters with various filtration classes tailored to the specific air quality requirements in compressed air systems.

