# Compressed air filter S F047 1 1/2" 8500 l/min 0.01 µm <0.01 mg/m³ - precise

450160A-S









## Product details

| | |
|---|---|
| EAN | 8712418398342 |
| Brand | Airpress |
| GPSR Airpress | Airpress Polska Sp. z o.o. |
| Weight | 3.78 kg |
| Length | 125 mm (1.25 dm) |
| Width | 125 mm (1.25 dm) |
| Height | 461 mm (4.61 dm) |
| Diameter (mm) | 125 |
| SKU | 450160A-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 (") | 1 1/2 |
| 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) | 8500 |
| Air flow rate (m3/h) | 510 |

# Description

Compressed Air Filter S F047 1 1/2" 8500 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 | 450160A-S |
| Series | S |
| Air flow (l/min) | 8500 |
| Filtration accuracy (µm) | 0.01 |
| Max. pressure (bar) | 16 |
| Ambient temperature range (°C) | 1.5 - 65 |
| Connection | 1 1/2 |
| Dimensions A (height, mm) | 461 |
| Dimensions B (diameter, mm) | 125 |
| Weight (kg) | 3.78 |

| SKU | Series | Airflow (l/min) | Filtration accuracy (µm) | Max. pressure (bar) | Ambient temperature range (°C) | Connection | A - height (mm) | B - diameter (mm) | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|
| 450160A-S | S | 8500 | 0.01 | 16 | 1.5 - 65 | 1 1/2" | 461 | 125 | 3.78 |

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 | – |

| Code | Type | Filtration degree | Oil residue | ISO 8573-1 class |
|---|---|---|---|---|
| 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.

