

Atlas Copco Genuine Parts UD+ Upgrade Kits

UD+ Upgrade Kits for easy conversion to Nautilus technology

Our patented Nautilus filter technology, makes the UD+ filter world's best oil coalescing filter providing you the highest energy savings.

Building on many years of experience and backed by extensive in-house testing, our Atlas Copco engineers gained completely new insights into oil coalescing filtration.

The result is our Nautilus filter technology based on unique, low-density filter media, with the ingenuity and looks of a nautilus shell.

The first filters to make use of this innovative technology are the Atlas Copco UD+ filters.

Moreover, these filters combine two filtration steps into one, hereby meeting the high-quality requirements of diverse applications and leading to a 40% pressure drop reduction.



Improved lifetime

To guarantee the required air quality level at the same low energy cost, an annual cartridge change (or 4.000 hours, whichever comes first) is essential



The kit contains the UD+ cartridge, the necessary seals, a plug, an instruction and the required labels to identify the upgraded installation as UD+ technology.

Remove the PD+ or DD+ bowl and close the installation using the plug. This will guarantee the lowest pressure drop and avoid condensation at the position where the bowl was located.

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Characteristics

Oil Carry Over: 0,0009 mg/m³
(according to ISO 12500-1:2007 & ISO 8573-2:2007)

Pressure Drop: 245 mbar
(according to ISO 12500-1:2007)

$$\underbrace{\text{DD+ } 0,07 \frac{\text{mg}}{\text{m}^3} + \text{PD+ } 0,008 \frac{\text{mg}}{\text{m}^3}}_{0,0009 \frac{\text{mg}}{\text{m}^3}} = \text{UD+ } 0,0009 \frac{\text{mg}}{\text{m}^3}$$

$$\underbrace{\text{DD+ } 180 \text{ mbar} + \text{PD+ } 215 \text{ mbar}}_{395 \text{ mbar}} > \text{UD+ } 245 \text{ mbar}$$



ISO Certification

The Atlas Copco Line Filters Cartridges are ISO certified:

- Compressed air- part1: contaminants and purity classes: ISO 8753-1: 2010
- Compressed air- part2: test methods for oil aerosol content: ISO 8573-2: 2007
- Filters for compressed air -test methods- part1: oil aerosols: ISO 12500-1: 2007
- Filters for compressed air -test methods- part3: particulates: ISO 12500-3: 2009

TÜVRheinland®
Precisely Right.

Type Test certificate
Evaluation of the residual aerosol oil content after an Atlas Copco UD+ filter
Test report no.: 931 / 21226150

The Atlas Copco UD+ filters are measured under the test conditions according to ISO 12500-1:2007, the compressed air samples are analyzed according to the ISO 8573-2:2007 test method.

	Maximum residual oil aerosol content	Pressure Drop
UD+ filter	0.0009 mg/m ³	245 mbar

i. V. *U. Dormagen* i. A. *N. Horlemann*
Dr. Walter Dormagen Dr. Norbert Horlemann

Did you know?

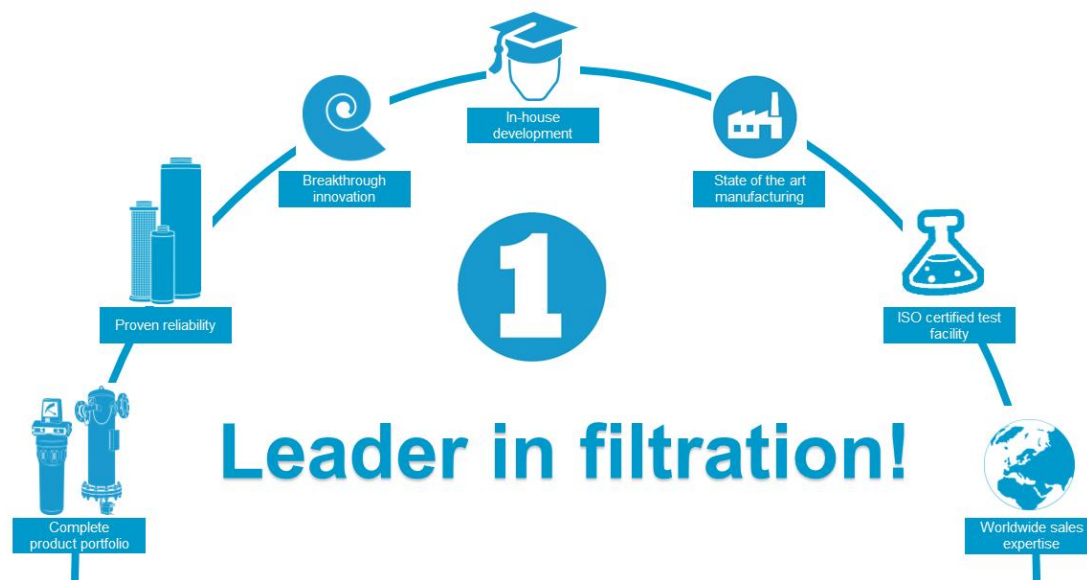
This unique Atlas Copco owned Nautilus filter technology makes the UD+ filter world's best oil coalescing filter, achieving the highest level of air purity at the lowest pressure drop.

The UD+ technology is outperforming competition by far, providing high energy savings to our customers, confirmed and certified by TÜV Rheinland.

This all-in-1 filter concept also leads to 50% stock, service time & waste reduction!

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Atlas Copco Leader in Filtration

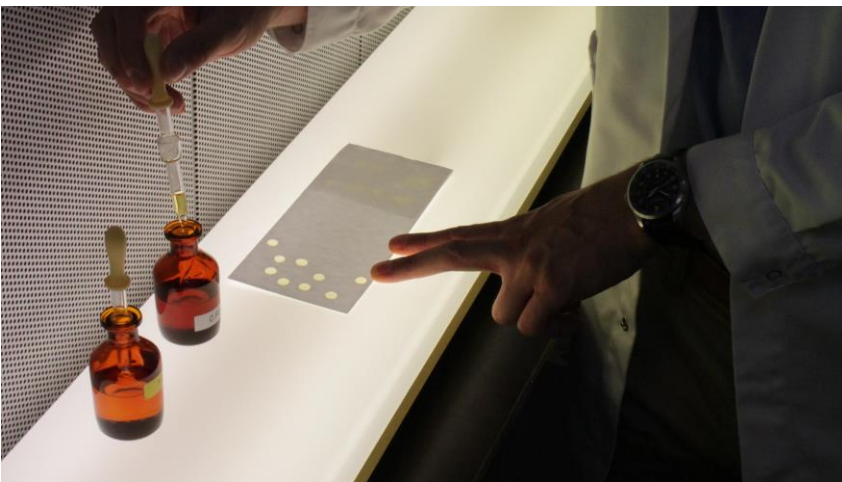


Atlas Copco's innovative line filter technology is 100% Atlas Copco development.

From A to Z, this technology is processed in-house, where every step in the product cycle is taken with the highest care and dedication, thanks to:

- A top class R&D center with highly skilled engineers constantly driving innovation
- A fully equipped research and ISO certified test facility where filter performance can be measured with the highest accuracy level
- A state of the art manufacturing process guaranteeing the highest product quality and 0-defects

This results in an ultimate filter performance, guaranteeing the best air quality at the lowest energy cost, making Atlas Copco a Leader in Filtration!



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Features

Nautilus Filter Technology

2 in 1 Filter

Upgrade

Benefits

Same filtration performance as a DD+ combined with a PD+ with a 40% lower pressure drop (decreasing the energy consumption)

Lower service cost, lower product cost, 50% less service time, 50% less stock and waste

Easy plug and play, fast
It requires the same time to upgrade as to change 2 filters



1. High-performance stainless steel filter cores ensure ultimate strength and low risk of implosion.

2. Protection paper avoids direct contact between filter media and stainless steel filter cores.

3. Epoxy sealed caps for reliable filtration.

4. Thick package of enhanced glass fiber media according to the Nautilus Filter Technology, ensure high filter efficiency, low pressure drop, and guaranteed lifetime performance.

5. Double O-rings guarantee proper sealing to reduce leakage risks and increase energy savings.

6. Increased user friendliness and reliability via push-on element.

7. Internal ribs support the element and facilitate the route of oil droplets.

8. Double drainage layer (outer protection paper and foam) has a large drainage capacity which is ideal for variable speed compressors. Moreover, the poly-urethane foam avoids oil re-entrainment.

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Upgrade Kit Description	Part Number
DD/PD10+ to UD9+	2901 2086 01
DD/PD20+ to UD15+	2901 2086 02
DD/PD35+ to UD25+	2901 2086 03
DD/PD50+ to UD45+	2901 2086 04
DD/PD70+ to UD60+	2901 2086 05
DD/PD130+ to UD140+	2901 2086 06
DD/PD170+ to UD180+	2901 2086 07
DD/PD210+ to UD220+	2901 2086 08
DD/PD310+ to UD310+	2901 2086 09
DD/PD425+ to UD425+	2901 2086 10
DD/PD550+ to UD550+	2901 2086 11

* Tool 2903 0049 00 can be used to fit the plug to the housing.