Quality air solutions

Boost your air quality
- Purify your compressed air by eliminating oil, dust and other contaminants
- Optimize your compressed air installation
- Achieve a higher final product quality

Save costs
- Less potential downtime and longer lifetime of your installation
- Easy installation
- Great serviceability

Undemanding maintenance
- Compatible with any compressor technology
- Can easily be installed and into an existing installation
- Optional pressure drop device (indicator or gauge)
- Easy cartridge replacement

Risks you avoid

Impurities in the compressed air can cause:
- Damage to the distribution lines increasing potential downtime
- Considerable increase in maintenance costs
- Reduction in the efficiency and life span of the pneumatic devices
- Deterioration of the final product quality
- Limitations to the reliability of the production process and all its components
- Reduction of your overall profitability

Technology you can trust

- High quality product offering you **technology you can trust**.
- Our products are **easy to use** and **highly reliable**.
- Distributors are always nearby ensuring **availability** of both products and support.
- High performance products and a **partnership** that will boost your business.
- Safeguarding long-term productivity through optimal **serviceability** and use of original parts.

How clean is your compressed air?

Atmospheric air naturally contains several impurities such as dust, various forms of hydrocarbons and water in the form of humidity. Once the air is compressed, their concentration is increased. As a result, these contaminants find their way to the compressed air circuit, causing wear and corrosion to the downstream equipment. Ceccato air line filters remove these contaminants from the compressed air.

Protect your compressed air installation against:

moisture | **oil** | **bacteria**

viruses | **carbon** | **particles**

Ceccato filters keep your air distribution network in optimal shape!

In any compressed air net distribution it is a must to install one or more filters. As a result, an improved air quality is achieved which benefits your complete compressed air network, including the downstream dryers, air pipes and pneumatic tools. Depending on the application you may need to filter your air in different stages to prevent saturation of the elements, keep your air quality and avoid pressure drops.

An all-inclusive offer

Ceccato is your one-stop-shop when it comes to compressed air installations. Our range of air line filters has been carefully designed and manufactured to flawlessly integrate with our compressors, drying equipment and pipework, guaranteeing the highest air quality possible.

Important guidelines

When selecting line filters for your compressed air system, these are some useful guidelines to consider.

1. Depending on the application, each point of use in the system may require a different compressed air quality.
2. Ensure that the purification equipment which is being chosen will actually provide the required air purity in accordance with ISO 8573-1:2010 standards.
3. When comparing filters to one another, make sure they have been tested in accordance with ISO 8573 and ISO 12500 standards.
4. Whenever you compare different filtration solutions, it is crucial to keep in mind that the filter performance is highly dependent on the inlet conditions.
5. When taking into account the operational cost of oil coalescence filters, make sure you compare the initial saturated wet pressure loss. Dry pressure loss is not a representative metric for performance..
6. For dust filters on the other hand, one can expect the pressure drop to rise over time. A low starting pressure drop does not mean it will remain as such throughout the filter element's lifetime.
7. Consider the total cost of ownership for purification equipment (purchase, operational and maintenance costs).

Customer benefits

1 ENERGY EFFICIENCY
Ceccato air line filters are designed to optimize air flow, leading to a reduction in differential pressure and a strong increase in energy efficiency.

2. RELIABLE FILTRATION
A unique, in-house design protects your air quality by guaranteeing a reliable and efficient filtration process.

3. SAFE OPERATIONS
Safety is the most important aspect of your operation process. Features like the single start thread, fixed thread engagement and stop-and-lock indication arrows prevent over-tightening and ensure effective sealing requirements.

4. USER-FRIENDLY
The corrosion resistant end caps were color-coded for easy filtration grade differentiation. Differential pressure indicators and gauges are available.

5. UNDEMANDING MAINTENANCE
Maintenance becomes extremely easi with the external accessible, manual & automatic drains supplied as standard.

6. PROVEN PERFORMANCE
The housings and elements are manufactured using high quality components, tested and validated in accordance with ISO12500-1 & ISO 8573-1 2010.

7. FLEXIBLE INSTALLATION
The filters can easily be installed both in new or existing compressed air installations, available in 1/8" to 3" threaded BSP and NPT port sizes and flow rates from 10-2550 m^3/h (6 - 1500 scfm.)

8. EASY FITTING
Low-cost connecting kits, wall mounting brackets and a new filter head design enable easy and simple fitting of the filters into your installation.

Filtration Grades

	P	G	S	C	D	V
Particle removal (micron) ■	5	-	1	-	0.01	-
Outlet oil aerosol concentration (mg/m³) ■	1	0.3	-	0.01	-	0.003
Total mass efficiency (%)	>90	>99.25	-	>99.9	-	-
Quality class of air at outlet (particles / oil) ▲	4 / 3	- / 3	3 / -	- / 2	1 / -	- / 1
Initial pressure drop over filter in dry applications (bar)	0.05	0.055	0.055	0.085	0.085	0.115
Initial pressure drop over filter in wet applications (bar) ⁎	0.08	0.125	-	0.125	-	-

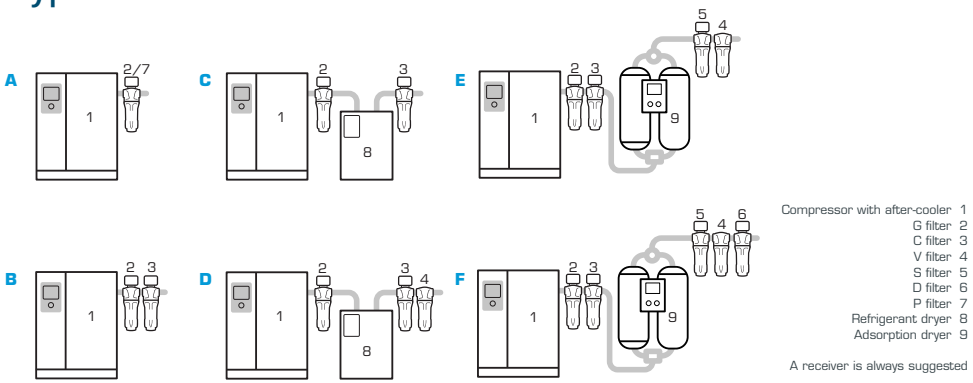
■ Referred to an absolute pressure of 1 bar and temperature of 20 °C
▲ According to ISO 8573-1:2010 in a typical installation
⁎ According to ISO 12500-1 at oil concentration upstream of the filter of 10 mg/m³ (Grade G = 40 mg/m³)

Correction Factors

For maximum flow rate, multiply model flow rate by the correction factor corresponding to the minimum operating pressure

Operating pressure barg (psig)	4 (58)	5 (72)	6 (87)	**7 (100)**	8 (115)	10 (145)	12 (174)	14 (203)	16 (232)	20 (290)
Correction factor	0.76	0.84	0.92	**1.00**	1.07	1.19	1.31	1.41	1.51	1.6

Typical installations



Compressor with after-cooler 1
G filter 2
C filter 3
V filter 4
S filter 5
D filter 6
P filter 7
Refrigerant dryer 8
Adsorption dryer 9

A receiver is always suggested

A. General purpose protection
air purity to ISO 8573-1:2010
G filter [3 : - : 3]
P filter [4 : - : 3]

B. General purpose protection and reduced oil concentration
air purity to ISO 8573-1:2010
[1 : - : 2]

C. High quality air with reduced dew point
air purity to ISO 8573-1:2010
[1 : 4 : 2]

D. High quality air with reduced dew point and oil concentration
air purity to ISO 8573-1:2010
[1 : 4 : 1]

E. High quality air with extremely low dew point
air purity to ISO 8573-1:2010
[2 : 2 : 1]

F. High quality air with extremely low dew point
air purity to ISO 8573-1:2010
[1 : 2 : 1]

High quality components

1 PUSH FIT ELEMENTS
ensure perfect sealing within the filter housing and assist with easy removal

2 CORROSION RESISTANT END CAPS
Injection moulded from glass filled nylon for added durability

3 HIGH QUALITY STAINLESS STEEL CYLINDERS
provide corrosion resistance and deliver strength and stability to the element

4 CUSTOM ENGINEERED
hydrophobic & oleophobic borosilicate media specifically developed to deliver consistently low pressure drop, combined with pleated element construction for high dust retention capacity and an increased filtration surface area

5 CUSTOM OUTER DRAINAGE LAYER
prevents oil carryover and improves coalescence performance

6 UNIQUE ELEMENT END CAP
colour coding system for quick and simple grade identification