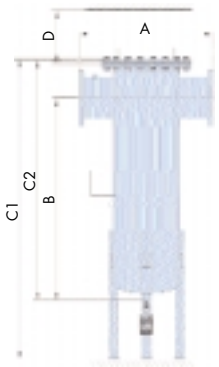
TECHNICAL DATA

Filter model	Connection	Volumetric flow	Number of filter elements	Dimension					Volume	Weight
		[m³/h]		A	B	C1	C2	D	L	kg
L080	DN 80	1420	1	490	975	1415	1115	830	22	56
L100	DN 100	2840	2	540	1000	1462	1162	830	40	59
L102	DN 100	4260	3	600	1010	1474	1174	830	63	83
L150	DN 150	5680	4	600	1035	1524	1224	830	66	98
L156	DN 150	9940	7	650	1050	1534	1234	830	95	105
L200	DN 200	11360	8	710	1080	1594	1294	830	120	134
L204	DN 200	14200	10	770	1090	1604	1304	830	160	171
L254	DN 250	19880	14	880	1145	1691	1391	830	265	250
L304	DN 300	31240	22	990	1195	1771	1471	830	407	352

Screwed filters with connections from ³/₈" to 3" are available for volumetric flows from 35 to 2400 m³/h.

Specifications of filter housings (models L080 to L304):

- Housing tested according to DGRL97/23/AD2000
- Flow-optimised carbon steel housing
- Inside and outside fully coated
- Stainless steel distributor plate for seating filter elements
- Max. operating pressure 10 bar (16 bar as an option)
- Filters type C, G, F, S with BEKOMAT Vario 20 FM as a standard (with filter time management and potential-free contact)
- Filter type A only with hand-operated drain
- Graduated differential-pressure indicator (optional)



EN ISO 9001:2000

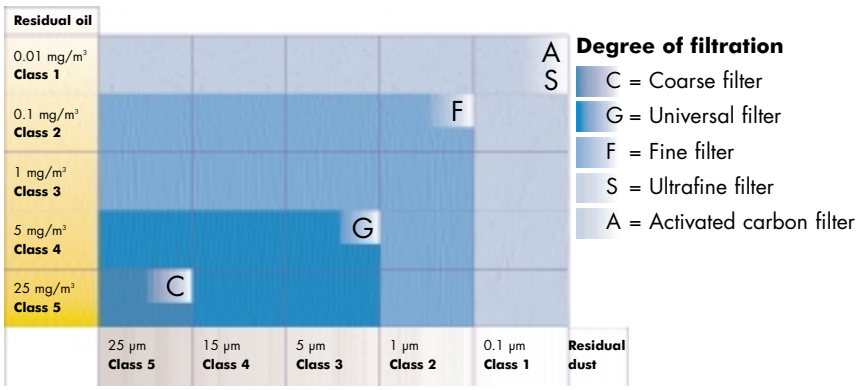
DNV Certified Company

In the case of a different operating pressure, please multiply the above volumetric flow by the relevant correction factor.																		
Operating pressure bar	0.3	0.6	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Correction factor	0.21	0.29	0.38	0.53	0.65	0.76	0.84	0.92	1	1.07	1.13	1.19	1.25	1.31	1.36	1.41	1.46	1.51

Specifications of filter elements

- Non-corroding end caps
- Stainless steel support cylinder
- Coarse fleece
- 6-layer filter medium
- Coarse drainage layer
- Needlefelt layer for fine drainage
- Chemically and thermally highly resistant
- Sturdy tie rods

Quality classes according to DIN ISO 8573.1



Subject to technical changes without prior notice, errors not excluded.
XP CL00 003 **GB** Edition: 09.02

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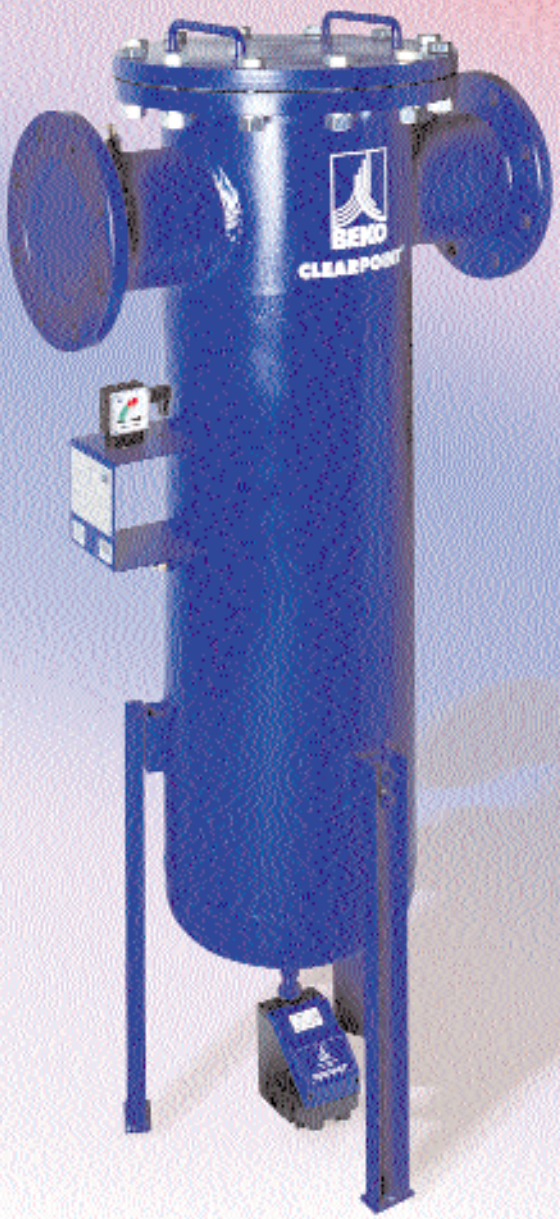


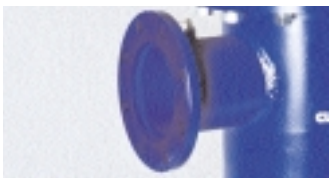
CLEARPOINT®

COST-EFFECTIVE COMPRESSED-AIR FILTRATION

FOR VOLUMETRIC FLOWS UP TO 31.240 m³/h

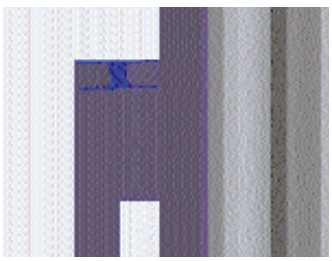
AN INNOVATIVE CONCEPT ...

Compressed air-filters are the key to the treatment of compressed air. But which filter from which manufacturer is suitable for your particular application? The name of "filter" alone is not a guarantee for success. In addition to the design, quality and efficiency of flanged filters, the cost aspects are also very important. In order to identify the best filter, the technical and economic characteristics of the flanged filter need to be examined in detail. The **CLEARPOINT®** compressed-air filter from BEKO is a high-quality product that can bear any scrutiny. It offers the following advantages:



The filter housing has two compressed-air connections at the same level and can therefore easily be integrated into an existing pipe system.

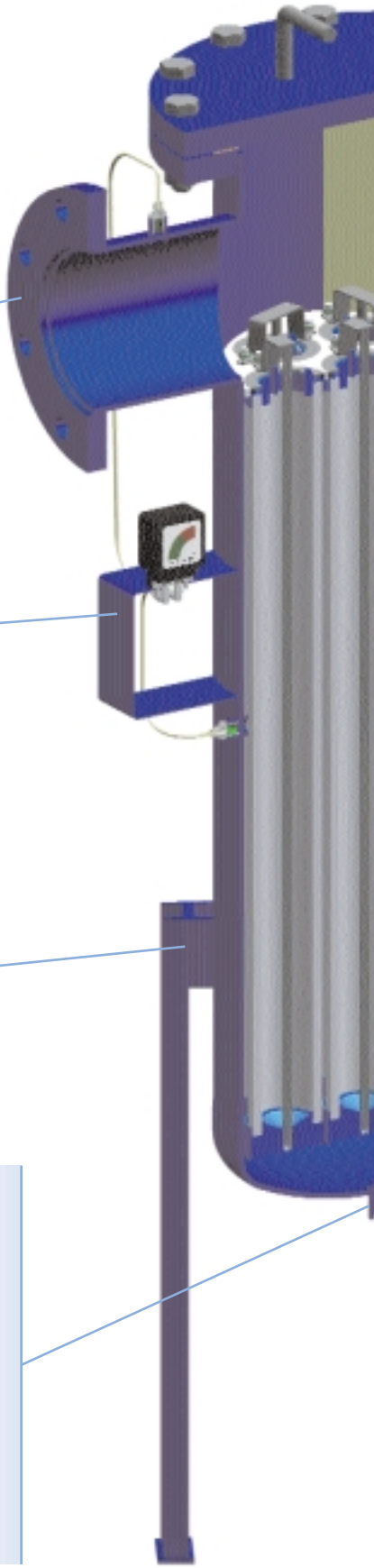
To enable a visual check of the filter element condition without having to open the housing, the filters can be fitted with a differential-pressure gauge as an option. The graduated dial of the pressure gauge, which is readable from both sides, can also be used as a basis for a direct energy cost analysis.



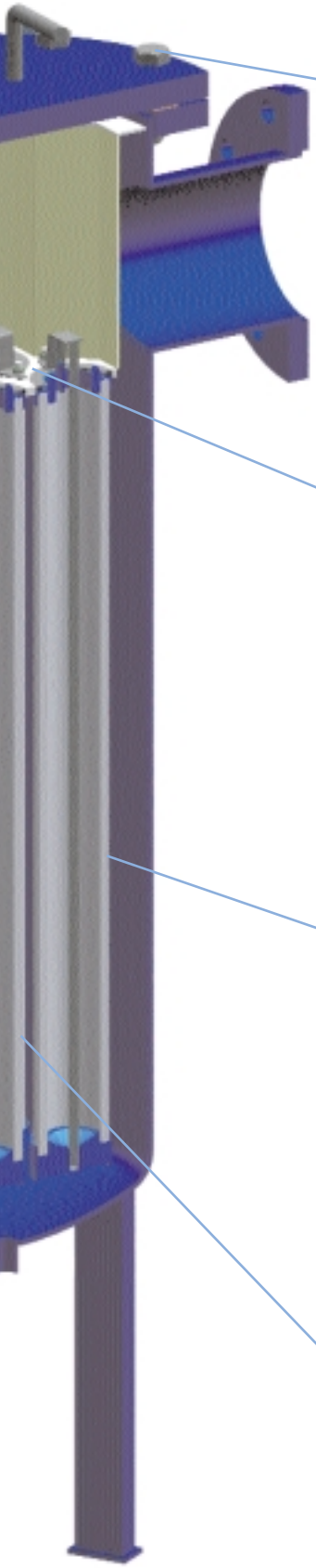
As an alternative to the usual suspended arrangement, the housing may be installed in a standing position, if desired. Radially welded-on receiving plates allow the optional mounting of feet which can then be anchored to the floor.

Condensate drains are crucial for achieving optimum filtration. What is the use of a perfect filter, if the drainage device is not adequately matched or functioning incorrectly? For this reason, **CLEARPOINT®** *compressed-air filters are supplied with an electronically level-controlled* **BEKOMAT®** *condensate drain as a standard: filter and condensate drain as an integral system.*

The **BEKOMAT®** *is designed for maximum reliability and operation without loss of compressed air. In the field of condensate technology, this well-proven device has become the industrial standard worldwide.*

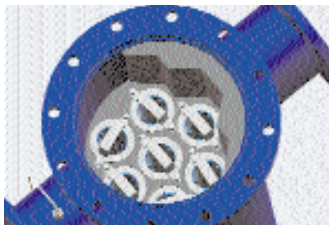


... CONVINCING IN EVERY DETAIL



The filter elements of **CLEARPOINT®** *flanged filters are replaced from the top of the housing. This makes the replacement procedure much easier. The condensate drain does not have to be removed, and the maintenance technician does not need to fear being greeted by condensate or dirt accumulated at the bottom of the flanged filter housing. For opening the housing, the top blank flange is undone, except for one last flange screw which functions as a pivot. In the case of smaller filter sizes, the blank flange can easily be lifted off completely.*

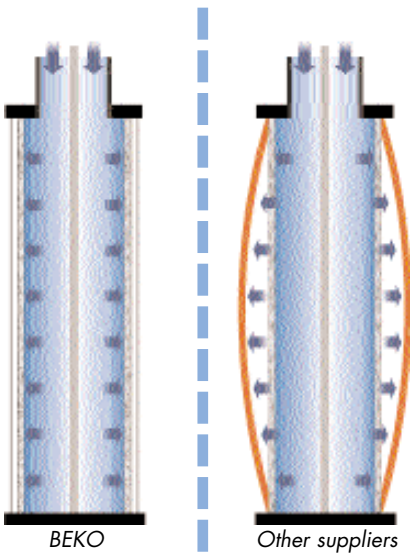
The distributor plate for seating the filter elements is made of stainless steel to protect against corrosion which could affect the sealing efficiency at this critical point. Snug fitting of the filter elements is essential, otherwise the filter medium would be bypassed and the filter would become ineffective.



The elements are held in place by bayonet locks. After undoing two nuts, the filter elements, together with the tie-rod unit, can be withdrawn completely from the housing. Fixing the new filter elements onto the reusable tie-rods is both simple and secure. The tie rods are designed in such a way that they will not bend, regardless of the handling frequency.

Due to the large surface of the filter elements, the velocity of the air is reduced to energetically favourable values. With a void volume of 96 %, the boron silicate filter material ensures that the pressure loss is kept to a minimum. Conventional sintered polyethylene filter material, by contrast, only has a void volume of 45 %. Consequently, **CLEARPOINT®** *filters offer a considerably larger cross-sectional area of flow.*

The filter medium is impregnated to prevent swelling up of the filter material, which would reduce the cross section available for flow, increase the differential pressure and thus cause extra, unnecessary, operating costs. A needlefelt drainage layer is provided as a standard. Compared with the foamed plastic used in filters from other suppliers, needlefelt is highly thermostable (up to 120°C) and able to withstand high mechanical loading in addition to being chemically resistant and silicone-free. These "strong" qualities are supported by the sturdy design of the filter elements, so that expansion or tearing of the drainage layer cannot occur.



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