Donaldson
FILTRATION SOLUTIONS

UFM-D DRAINS

ZERO-LOSS ELECTRONIC CONDENSATE DRAIN

Compressed Air & Process Filtration

Zero-loss, electronically controlled condensate drains that offer simple maintenance, silent operation, and fast return on investment.

Donaldson UFM-D drains offer an economical and low maintenance option to handling the liquid condensate, which naturally accumulates in various spots within a compressed air system. Condensate must be drained frequently, and typical drains are prone to loss of valuable compressed air. The UFM-D drains offer the ability to silently and cost effectively drain condensate from your compressed air system.

UFM-D
Zero-Loss Electronic
Condensate Drain

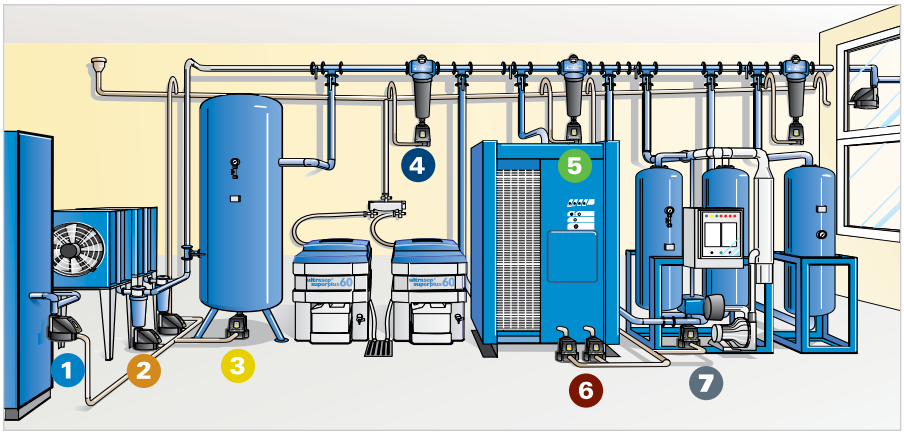
FEATURES AND BENEFITS

- Electronically level-controlled minimizes loss of costly compressed air
- Easy service with all maintenance parts in a single unit
- Manufactured with corrosion resistant materials
- Silent operation

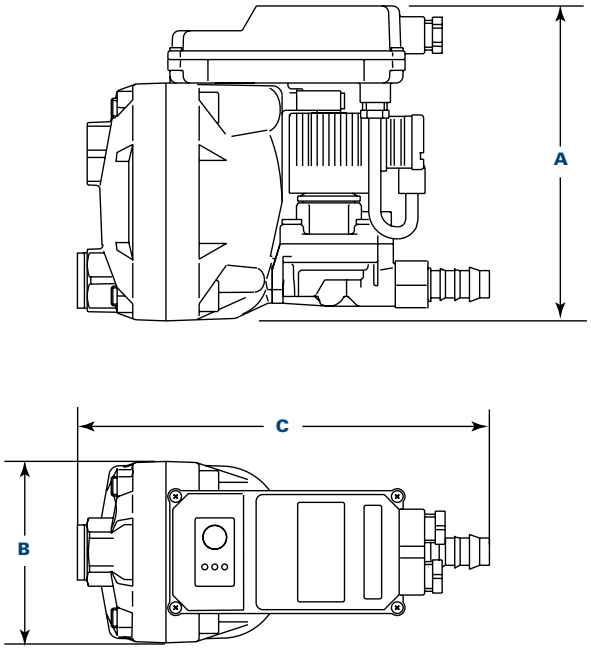
APPLICATIONS

Ultramat zero-loss electronically controlled condensate drains are at many points to ensure condensate drainage without compressed air loss.

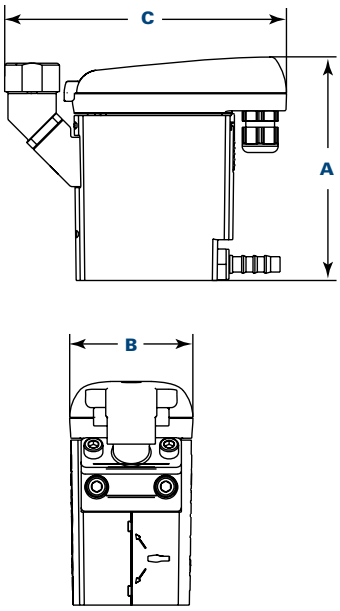
1. On the compressor itself
2. On compressor aftercoolers
3. On accumulator/surge tanks
4. On coarse coalescing prefilters before refrigerated and desiccant dryers
5. On fine coalescing prefilters before refrigerated and desiccant dryers
6. On refrigerated dryer cold-points or outlets
7. On desiccant dryer outlet



DIMENSIONS & SPECIFICATIONS



UFM-D30/D130



UFM-D03 through UMF-D10

	Capacity (scfm)*			Operating Pressure (psi)		Operating Temperature		Connections (inches NPT)		Dimensions (inches)		
Type	Compressor	Dryer	Filter	Min	Max	Min	Max	Inlet	Outlet	A	B	C**
UFM-D03	100	210	1,050	12	230	34°F	140°F	½	¼	4.6	2.6	5.9 / 6.5
UFM-D05	170	350	1,760	12	230	34°F	140°F	½	¼	5.0	2.9	6.5 / 7.0
UFM-D10	350	700	3,530	12	230	34°F	140°F	½	½	6.2	2.9	8.3
UFM-D30***	1,050	2,110	10,590	12	230	34°F	140°F	½	½	6.4	3.7	8.3
UFM-D130	4,590	9,180	45,900	12	230	34°F	140°F	¾	½	7.1	4.7	9.9

* Capacity at 100 psig, 100°F, 100% RH.
** UFM-D03 and UFM-D05 have an inlet that can be easily positioned vertically or horizontally.
*** HP version upon request.

Donaldson FILTRATION SOLUTIONS

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Member of CAGI Compressed Air and Gas Institute www.cagi.org

UFM-D Drains Data Sheet (05/11)

Donaldson
FILTRATION SOLUTIONS

UFM-D
ZERO LOSS CONDENSATE DRAINS

Process Filtration

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UFM-D

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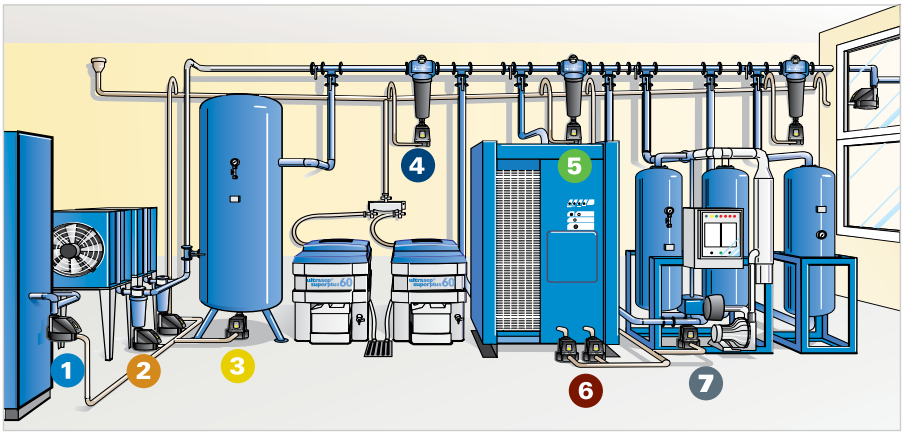

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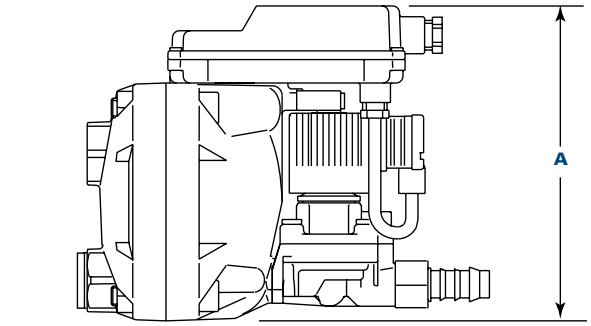
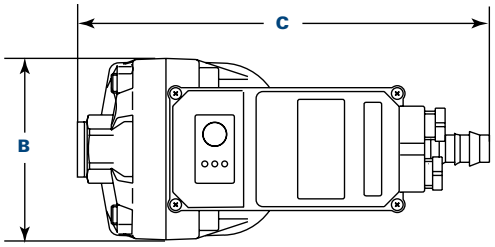
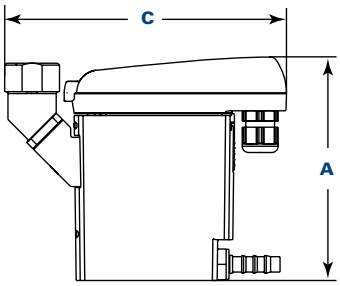
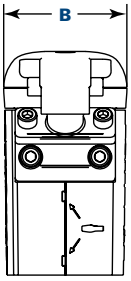
DIMENSIONS & SPECIFICATIONS





UFM-D30/D130





UFM-D03 through UMF-D10

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MEMBER OF CAGI Compressed Air & Gas Institute

F117050 (05/17) ENG UFM-D Zero-Loss Condensate Drains

Donaldson
FILTRATION SOLUTIONS

Product Specifications

1C334440

CONDENSATE DRAIN, UFM-D130, 230V, CONNECTION G3/4 INCH, VERTICAL

Attributes

Model	UFM-D Drain
Compressor Capacity	7800 m^3/h
Minimum Operating Pressure	0.8 bar (12 psi)
Maximum Operating Pressure	16 bar (232 psi)
Minimum Operating Temperature	1 °C (34 °F)
Maximum Operating Temperature	65 °C (149 °F)
Depth	120 mm (4.72 inch)
Width	252 mm (9.92 inch)
Height	180 mm (7.09 inch)
Weight	2.9 kg (6.39 lb)
Inlet Size	3/4 BSP/G
Outlet Size	1/2 BSP/G

Frequency (Hz)	50-60
Voltage	230

Packaged Dimensions

Gross Length	0.25 M
Gross Width	0.14 M
Gross Height	0.26M
Gross Weight	3.35 KG
Gross Volume	0.0091 M3

Other Information

Country of Origin	Germany
HTS Code	8481809990

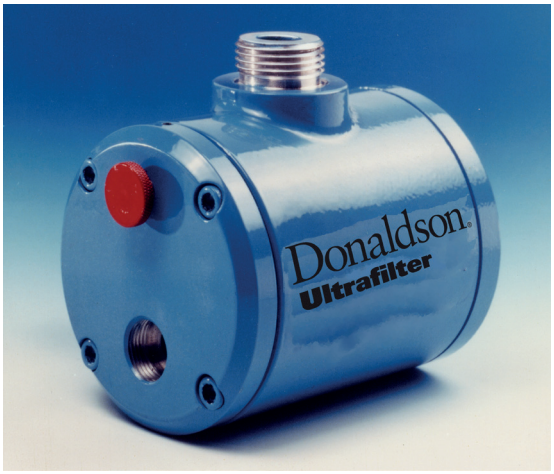
The information contained herein is general in nature and may not reflect actual information regarding the part at time of shipment. Parts may originate in more than one country – the actual country of origin and HS Code will be reflected on the Commercial Invoice(s) that accompanies the goods.

Compressed Air Filtration

Pneumatic controlled condensate drain UFM-P

MAIN FEATURES & BENEFITS

- Hydrostatic level measuring, problem-free drainage of pure oil
- Pneumatic double membrane servo valve with long service life
- Large drain bores, Reliable drainage of large amounts of condensate, high function safety
- Operation without electricity, therefore applicable in hazardous areas
- Manual override



Pneumatic controlled condensate drain UFM-P

INDUSTRIES





- Chemical
- Food and beverage
- Paint and finish
- Environmental
- Machine building and plant engineering / construction

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Donaldson® Ultrafilter

F119055_06_2018_ENG

PRODUCT DESCRIPTION

Pneumatic level-controlled condensate drain, suitable for the operation in explosion-endangered areas.

Function:

Fig.1:
Condensate drips through the intake port (1) and is collected in vessel (2). The control valve (4) is closed and the surge chamber (5) is vented. The Operation pressure in vessel (2) presses the diaphragm (8) at its seat and thus separates the condensate channel at the pressure side from the other one at the exit side (10).

Fig. 2:
If much condensate has been collected in the vessel, the float is lifted and compressed air can get into the surge chamber (5) over the control valve (4). The diaphragm (6) is pressed to the right hand side and opens the diaphragm (8) by means of the piston (7). Now the condensate can drain to the exit (11) over channel (9) and (10). If the float (3) moves down with the condensate level so far that the control valve closes again, the surge chamber is vented over nozzle (12). The diaphragm (6) as well as the diaphragm (8) over the piston (7) come back to their starting position, so that the drainage is closed again.
A testing of the function of the outlet valve can be done by means of the hand valve (13).

Fig. 1

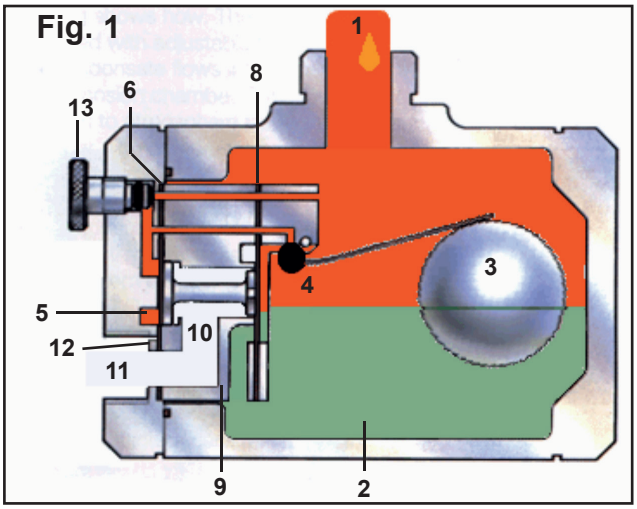
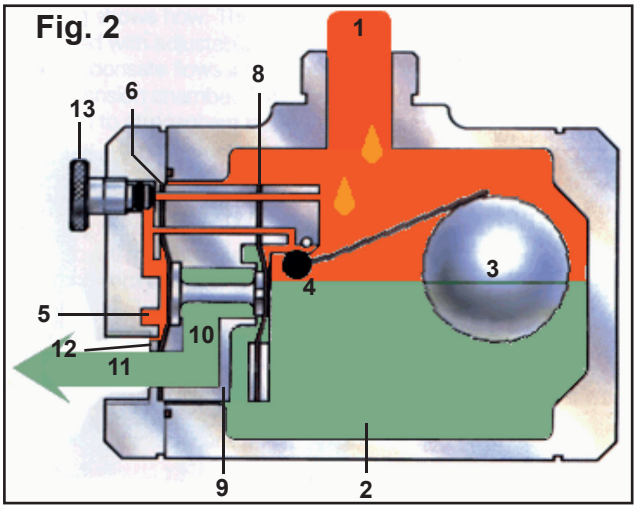


Fig. 2



The UFM-P is designed and developed for the following applications:

Compressed air zero-loss draining of condensate at:

- **compressors**
- **aftercoolers**
- **receiver-vessels**
- **pre- and after-filters of fridge dryers**
- **pre-filters of adsorption dryers**
- **condensate- and oil-removal filters**
- **pipe bends**

PRODUCT SPECIFICATIONS

Features	Benefits
Large drain bores	Reliable drainage of large amounts of condensate, high function safety
Hydrostatic level measuring	Problem-free drainage of pure oil
pneumatic double membrane servo valve with long service life	Almost maintenance free
Small height of unit	A minimum of space needed
Operation without electricity	Therefore applicable in hazardous areas, manual override

Technical Data:	
Max. operating pressure:	0,8-16 bar
Operating temperature:	+1°C bis + 80 °C
Performance:	450 l/h at 7 bar and 20°C
Materials:	
Housing:	Sea water resistant aluminium chill casting. Blue plyester resign coating on the outsite
Float:	Float made of stainless steel
Connections	
Outer:	1“ BSP, condensate inlet
Inner:	1/2“ BSP, condensate outlet

DIMENSIONS