



Donaldson
Filtration Solutions



Level-controlled Condensate Drain Ultramat UFM-T

Condensate Drain Ultramat UFM-T: Drainage

Condensate drainage without compressed air loss pays well

- ▶ The investment costs for an Ultramat UFM-T unit are equivalent to the energy savings achieved in half a year. If a time-controlled drain with a 3,2 mm opening blows off just 10 seconds of air (at 10 bar) every 10 minutes, the cost will be approx. Euro 197,- each year. With the Ultramat UFM-T there is no waste of air and costs only Euro 4,50 for electricity in average!
- ▶ Essentially improved function of oil/water separators especially with downstream separators due to the reduced condensate emulsification – particularly as compared to time-controlled drains.
- ▶ Low-noise operation: particularly important, if the condensate drain is installed at workplaces.

Ideal design and function

Float or time-controlled drains are very sensitive to dirt particles in the condensate – with the large outlet cross section and with little moving parts, the Ultramat UFM-T guarantees reliability and an optimum price/performance ratio.

Features and advantages

- ▶ compact, rigid aluminium respectively glass fibre reinforced plastic structure
- ▶ standard coating provides maximum protection against corrosive substances
- ▶ ergonomic design: rounded, clearly visible control panel
- ▶ standard equipment: potential-free contact (UFM-T05 SP, T1, T10, T20, T100, T20 HP)
- ▶ worldwide application due to the voltage range from 24 V to 230 V without additional potential transformers (sizes UFM-T100 and UFM-T20 HP are available in 24 VDC or alternatively 110 V – 230 VAC)
- ▶ optimum condensate entry from the top / condensate drain types from UFM-T10 onward with alternative condensate rear entry
- ▶ easy installation and maintenance

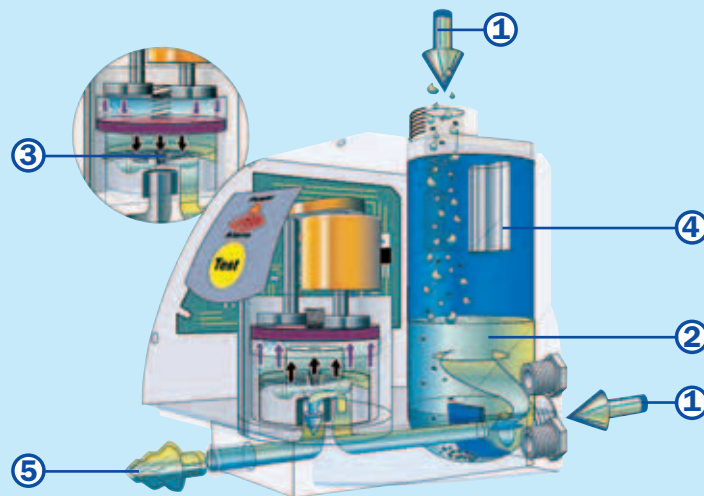


Rear view with rear condensate inlet

ge without compressed air loss

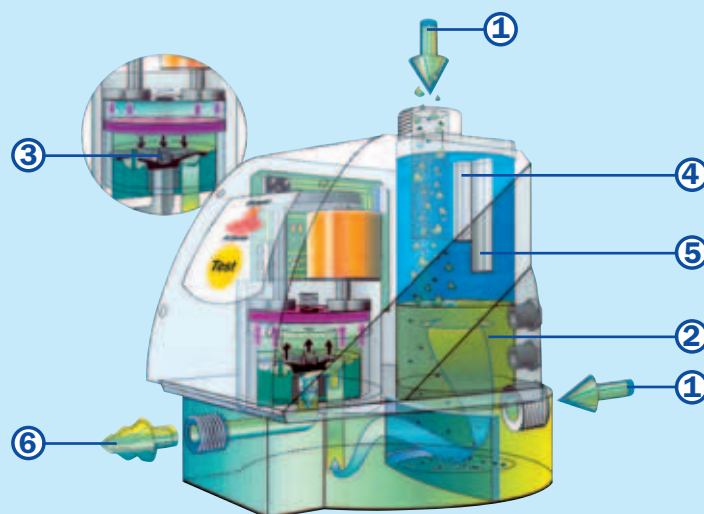
The functional construction T10 – T20

Condensate is collected (1) in the drain (2), the diaphragm (3) is closed by the system pressure. As soon as the condensate reaches the sensor (4), the diaphragm opens and the condensate is ejected by the system pressure. The diaphragm then closes before the air can escape (5).



The functional construction T100 and T20 HP

Condensate (1) is collected in the drain (2), the diaphragm (3) is closed by the system pressure. As soon as the condensate reaches the top sensor (4), the diaphragm opens and the condensate is ejected by the system pressure (6). As soon as the condensate level drops below the bottom sensor (5) the diaphragm closes before the air can escape.

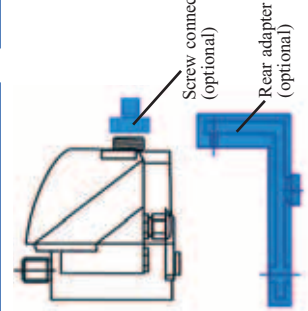


Technical Data Ultramat UFM-T

Type	Power supply	Alarm contact	Protection	Power consumption	
				without heater	with heater
T05	24 - 230 V _{DC} 80 - 230 V _{AC} 50-60 Hz	only T05 SP	IP 65	7 W	*/*
T1		300 V _{DC} 247 V _{AC} 0,092 A		5 W	25 W
T10					
T20					
T100	24 V _{DC} 110 - 230 V _{AC} 50-60 Hz				
T20 HP					



Type	Pressure range (bar)	Capacities ¹⁾ (Nm ³ / min)			
		Compressor	Dryer	Filter	
T05	0,8-17,2	5	30 kW	10	50
T1	0,8-16	10	60 kW	20	100
T10		20	120 kW	40	200
T20		100	600 kW	200	1000
T100		100	120 kW	40	200
T20 HP	1,2-42				



1) The data is related to a moderate climate. Initial state: 1 bar a; 20°C; 70% r.F.
7 bar g; 35°C; 100% r.F.

Technical alterations reserved (1/2005)

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Compressed Air Filtration, Sterile Filtration, Process Filtration, Refrigerant Drying, Adsorption Drying, Condensate Drains, Condensate Purification Systems, Water Chillers, Air / Oil Separation, Dust and Fume Removal, Process Air and Gas Processing, Oil Mist Separation, Industrial Hydraulics

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Donaldson Europe B.V.B.A.

Research Park Zone • Interleuvenlaan 1
B-3001 Leuven • Belgium
Phone +32 (0)16 38 39 70 • Fax +32 (0)16 38 39 38
IFS-europe@donaldson.com



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Torit DCE