



ZAN-TECH®
ECO DRAIN S/HP
ZERO AIR LOSS ELECTRONIC
CONDENSATE DRAINS.
Series S (0-16 bar) / HP (0-60 bar)



ECO DRAIN S/HP

ZERO AIR LOSS ELECTRONIC DRAIN

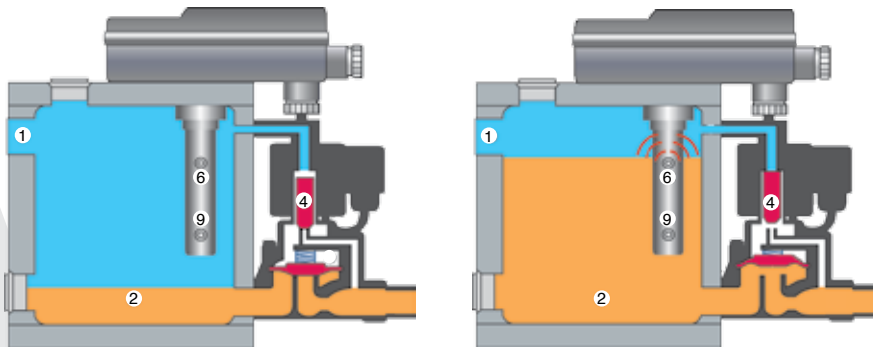
Electrically Actuated Auto-Drain for Compressed Air

- ▶ Zero Air Loss, saving energy and guaranteeing a quick
- ▶ Return on investment.
- ▶ Discharge diameters of between 5mm and 8mm.
- ▶ S-Series operation from 0 - 16 Bar.
- ▶ HP-Series operation from 0 – 60 Bar.
- ▶ Manual test button.
- ▶ Materials: Non corrosive, 304SS valve with hard
- ▶ Anodised Aluminium housing.

HP Version



ECO DRAIN S/HP Operating Principle



- 1) Condensate enters through port (1) and accumulates in housing (2)
- 2) As the level of condensate rises, the capacitance sensor measures the liquid level
- 3) At level (6) the solenoid valve (4) will be opened
- 4) As the liquid discharges and reaches level (9) the valve closes, preventing air loss
- 5) Automatic alarm and cleaning program for discharge failure





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▶ **Capacitive Liquid level sensor**

With no moving parts the capacitive sensor accurately measures the liquid level, irrespective of the quality of the condensate.

▶ **Zero air loss**

The use of two sensors (High level, low level) ensures that the discharge valve is opened and closed before valuable compressed air is lost.



Normal Mode



Alarm Mode



▶ **Digital Counting Indicator (Optional)**

- ▶ Daily, and Total discharge counter
- ▶ Counter reset
- ▶ 1 million cycle range

▶ **Corrosion resistance**

The high grade Aluminium Housing is internally and externally electro "Hard Anodised" to ensure corrosion and abrasion protection for the life of the unit.

▶ **Model range**

The Eco Drain range, has five model sizes to handle compressor volumes from:
7 m³/min to 150 m³/min

Multi Entry



Internal Strainer



▶ **Alarm function**

Once the discharge valve has been opened and the low level has not been reached in 2 minutes, the unit will go into an alarm mode. An alarm signal is generated and the valve will open for 5 seconds every 3 minutes.

If the valve clears, the unit automatically resets and continues with standard operation.



▶ **Convenience and Maintenance**

- ▶ Simple electrical connection through cable glands.
- ▶ 90-260 Vac & 24-48 Vac auto switching.
- ▶ Internals easily accessible for annual cleaning
- ▶ A large built-in SS Strainer prevents air locks experienced with conventional external strainers.
- ▶ Large corrosion pieces are also captured, preventing damage to the discharge valves.



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TECHNICAL DATA S - SERIES

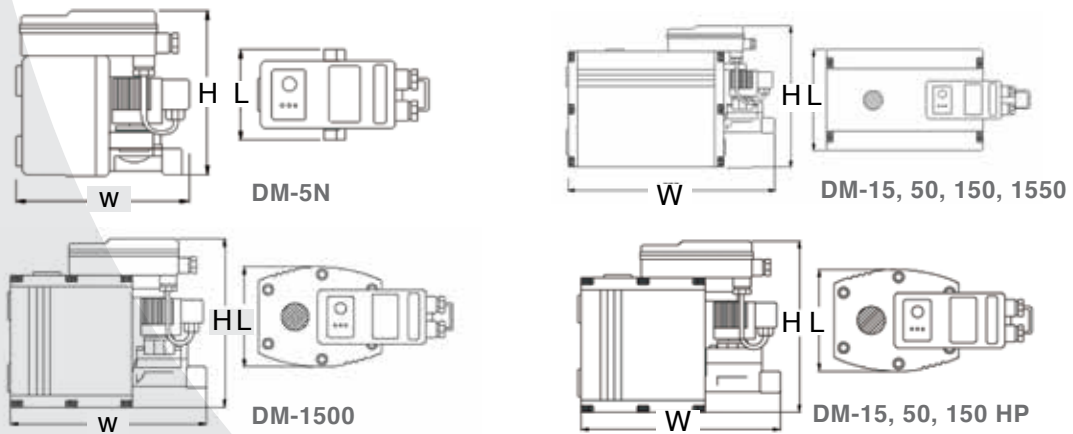
MODEL	Peak Compressor Performance (m ³ /min)	Peak Dryer Performance (m ³ /min)	Peak Filter Performance (m ³ /min)	Operating Pressure min/max (bar)	Temperature min / max	Application
DM-5N	7	14	70	0.8-16	+ 1 - 80	A . B
DM-15	21	42	210	0.8-16	+ 1 - 80	A . B
DM-50	70	140	700	0.8-16	+ 1 - 80	A . B
DM-150	150	300	1500	0.8-12	+ 1 - 80	A . B

HP - SERIES

DM-15 HP	21	42	210	1.2 - 60	+ 1 - 80	A . B
DM-50 HP	70	140	700	1.2 - 60	+ 1 - 80	A . B
DM-150 HP	150	300	1500	1.2 - 60	+ 1 - 80	A . B

Application: A. oil contaminated condensate ; B. oil free, aggressive condensate

DIMENSIONS



ECO DRAIN MODELS	DM-5N	DM-15	DM-50	DM-150	DM-15 HP	DM-50 HP	DM-150 HP
Condensate Feed	1/2" x 2			3/4" x 3	1/2" x 2		3/4" x 3
Condensate Discharge	3/8"	1/2"			3/8"		
Voltage	Free voltage 90/260Vac or 24/48VDC or AC or 24/48Vac						
Housing Material	Aluminium, Hardcoated						
Weight (Kg)	1,30	1,65	2,20	3,30	1,95	2,50	4,05
Dimension (W x L x H mm)	164 x 80 x 154	163 x 71 x 178	183 x 80 x 187	221 x 110 x 193	163 x 71 x 185	183 x 80 x 193	221 x 110 x 204