

HAD10B

CONDENSATE AUTO DRAINS

FOR REMOVAL OF LIQUID
CONDENSATE DRYING SYSTEM



84 | LITERS/HOURS
MAX.DISCHARGE RATE

YunAir HAD10B Zero Air Loss Automatic Condensate Drain Valve 1/2" Inlet, Clear Body, No Electricity

All condensate produced during air compression and drying is a highly contaminated mixture containing water, aggressive air compressor oil, carbon sludge, dirt, and pipe rust. Ignoring this moisture backup directly degrades system performance, ruins pneumatic tools, fouls high-precision filters, and causes downstream pipe corrosion. Proper and reliable drainage is critical for both system efficiency and environmental compliance. and save costs. A typical air treatment system will include the follow component for most industry.

The **YunAir HAD10B** is an eco-friendly, **zero air loss automatic drain valve** featuring a premium **transparent clear body** and a standard **1/2" inlet connection**. Engineered to effectively treat stubborn oil-water-rust emulsions, it discharges up to **84 liters of condensate per hour** completely mechanically.

Operating **without electricity**, Operating 100% mechanically based on buoyancy. the HAD10B opens only when liquid is present, ensuring **absolute zero compressed air loss**. Its crystal-clear housing gives maintenance engineers instant visual visibility of condensate volume and drain action, eliminating guesswork.

Because it requires **no electricity**, it eliminates the need for complex wiring, prevents air loss, and offers a quiet, maintenance-free solution to ensure your air line remains completely dry.



Features

- Zero air/gas loss
- Buoyancy and pressure control minimize costly compressed air loss.
- A low velocity condensate outlet ensures that no emulsion is created.
- No need for electrical wiring, as no power supply is required.
- Manual drain valve for discharge and operational check fitted as standard.

YunAir HAD10B Zero Air Loss Automatic Condensate Drain, Key Features and Benefits



Zero Electricity & Safe Operation:

Driven entirely by mechanical buoyancy. No power required, making it 100% safe for volatile or hazardous industrial environments while cutting your



100% Transparent Clear Body:

The visual housing allows effortless monitoring of oil accumulation and drainage flow, making predictive maintenance simple.



Discharge Capacity (84 L/h):

Effortlessly flushes out up to 84 liters of oil-water mixture per hour, preventing condensate backup even in high-humidity climates.



Zero Air Loss / Energy Saving:

Unlike electronic timer valves that blast out compressed air when opening, this mechanical float mechanism only opens when full of liquid. It prevents valuable compressed air from escaping.



Optimized $\phi 6\text{mm}$ Outlet:

Features a fast quick **$\phi 6\text{mm}$ connection kit** designed for smooth, blockage-free discharge of viscous compressor oil-water emulsions. Also manual for pushing up to discharge condensate if occurs air blockage.



Low Noise & Smooth Maintenance:

Delivers whisper-quiet drainage that significantly improves the factory workshop environment compared to loud solenoid valves.



Quality Control:

Every HAD10B undergoes rigorous 100% pressure leak testing before leaving the warehouse.



Fast ROI & Low Cost:

Highly durable construction minimizes routine maintenance, extending the life of your expensive filter elements with a fast return on investment.



How It Works

When pressure inside the bowl is released:

Even when pressure inside the bowl is released, the spring keeps the diaphragm in its upward position. This keeps the seal created by the main valve in place; thus, the inside of the bowl is shut off from the outside air. Therefore, even if there is an accumulation of condensate in the bowl, it will not drain out.

When pressure is applied inside the bowl:

Even when pressure is applied inside the bowl, the combined force of the spring and the pressure inside the bowl keeps the diaphragm in its upward position. This maintains the seal created by the main valve in place; thus, the inside of the bowl is shut off from the outside air. If there is no accumulation of condensate in the bowl at this time, the float will be pulled down by its own weight, causing the valve, which is connected to the lever, to seal the valve seat.

When there is an accumulation of condensate in the bowl:

The float rises due to its own buoyancy and the seal at the valve seat is interrupted. This allows the pressure inside the bowl to enter the tube. The result is that the combined pressure inside the tube and the force of the spring lowers the diaphragm. This causes the seal at the main valve to be interrupted, and the accumulated condensate in the bowl drains out.



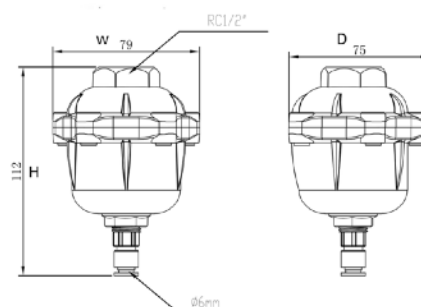
Fast quick connection kit with outlet size $\phi 6\text{mm}$ for connect soft pipe line



Installed at the bottom of air filters and water separators

Technical Specification

- | | |
|--|-----------------|
| • Auto drain type..... | Float type |
| • Model..... | HAD10B |
| • Operating temperature range..... | 1.5–85 °C |
| • Proof pressure..... | 16 bar |
| • Max.Operating pressure..... | 10 bar |
| • Largest discharge capacity (at 7 bar)..... | 84 l/h |
| • Initial Discharge value..... | 22 mL |
| • Mass..... | 0.13 kg |
| • Inlet/outlet connection..... | Rc1/2", Rc1/2" |
| • Medium..... | air, water, oil |





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OEM Capabilities

When you need a special filter for a unique application, Yun Air experts are ready to work with you. We can tailor a configuration to meet your special need from the wide variety of filter media available. In addition, with LEAN manufacturing, we can produce specials in reasonable quantities, in a reasonable amount of time, at a reasonable price. Not only will this enhance the performance of your product, but it will benefit you with aftermarket sales of replacement elements.

OUR RANGES OF PRODUCTS INCLUDE THE FOLLOWING:

- Compressed air dryers
- Compressed air filters
- Compressed air water separators
- Alternative air filter elements
- Condensate auto drain
- Compressed air accessories
- Portable mask