

## TECHNICAL INFORMATION

# Draining COMPRESSED AIR

**Advanced production and system engineering requires the use of compressed air. The application range varies from untreated blow air to absolutely dry, oil-free and sterile compressed air.**

Air compressors absorb the surrounding air with its pollution and compress it many times over. As a result lubrication oil and abrasive particles contaminate the compressed air additionally.

**If humidity and dirt particles of the ambient air stay inside the compressed air, it may cause serious consequences.**

It affects the main system as well as the consumer. Even the products may suffer from poor compressed air quality. In some cases the application of compressed air without the suitable drying and cleaning may be dangerous and harmful to health.

Compressed air systems need to be drained at their lowest points. According to the application and condition humidity and contamination needs to get out of the air flow.

This is done by the use of centrifugal separators for example, also called cyclone separator.

The RIFOX Cyclone Separator works on the mass inertia principle. It consists of a guiding device and a collection vessel. The guiding device puts the compressed air in rotation. Solid and liquid parts in the air are hurled against the vessel inside wall.

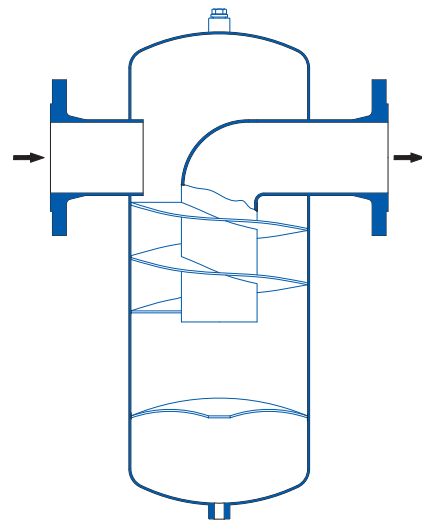
The separative capacity of the separator depends on the air's flow rate. The higher the flow rate, the higher the separative capacity. But the pressure loss inside the separator increases along with the flow rate.

The separated impurities flow past the catch plate into the collection vessel. The catch plate also prevents the impurities to be carried away from the air flow.

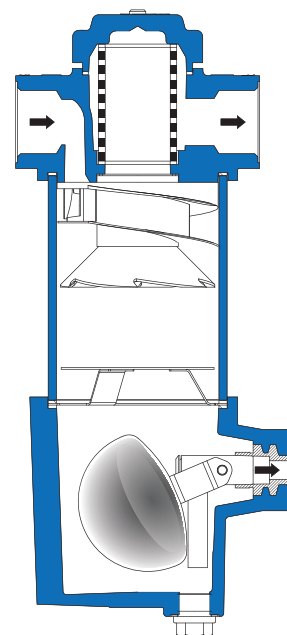
From the collecting vessel the condensate is drained automatically by the use of a RIFOmat trap.

### Dryer / Cyclone Separator

Examples from our RIFOX product line:



RIFOdry 5050-5250, PN16-40



RIFOdry 5051, PN 16

Advantages:

- Almost complete removal from water droplets (up to 98%)
- Filtering from dust and dirt particles (see RIFODry 5051)
- Increased serving life of the downstream compressed air consumers
- Improved product quality
- Condensate- and rust-free compressed air system
- Pipe systems without condensate collector
- Low maintenance
- Low pressure losses by leakage and flow resistances
- Less energy consumption because of low pressure losses

Dryer as model RIFODry 5051 or 5063 for example are combined with a trap already. The other cyclone separators can be equipped with a downstream drainer, too.

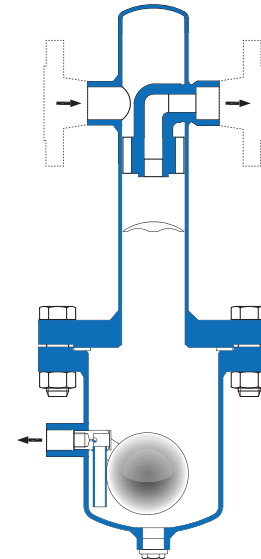
The models RIFOmat 15001 and Universal-G Model 1170 can be offered to a particularly attractive price.

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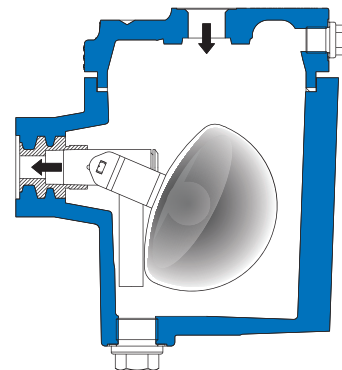
Our traps do not have a potential ignition source and therefore do not apply for the guideline 94/9/EG (ATEX).

**Dryer / Cyclone Separator**

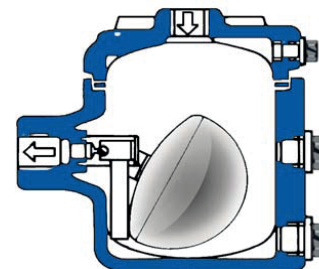
Examples from our RIFOX product line:



RIFODry 5063, PN 16



RIFOmat 15001, PN 16



RIFOmat 1170, PN 25