

**Content**

1. ERIKS operating companies
2. Product description
3. Requirements for maintenance staff
4. Transport and storage
5. Function
6. Application
7. Installation
8. Maintenance
9. Service and repair
10. Safety notes
11. Troubleshooting
12. Removal



Fig.1085E



Fig.1087E



Fig.1089E

**1. ERIKS operating companies**

ECON Separators are being delivered by several ERIKS operating companies on a worldwide basis. In this manual these will be referred to as 'ERIKS', the individual terms of delivery of the ERIKS operating company having executed the order are applicable.

**2. Product description**

The ECON Separators are designed according the information on our website [www.eriks.com](http://www.eriks.com) and should be used in accordance with the applicable pressure-temperature rating as stated on this website. Separators are provided with a nameplate. The marking makes the identification of the separator easier and contains:

- Figure number
- Test pressure
- ECON

**3. Requirements for maintenance staff**

The staff assigned to assembly, operating and maintenance tasks should be qualified to carry out such jobs and in any circumstance, ensure personal safety

**4. Transport and storage**

During transport and storage the separator should be protected against external forces, influence and destruction of the painting layer as well. The purpose of the painting layer is to protect the separator against rust, during transport and storage. The separator should be stored in an unpolluted space and should also be protected against all atmospheric circumstances. There should be taken care of the temperature and humidity in the room, in order to prevent condensate formation.

**5. Function**

ECON separators are designed for the removal of entrained liquids in steam and compressed air systems. For optimum performance we recommend to use an insulation jacket for the separator.

**6. Application**

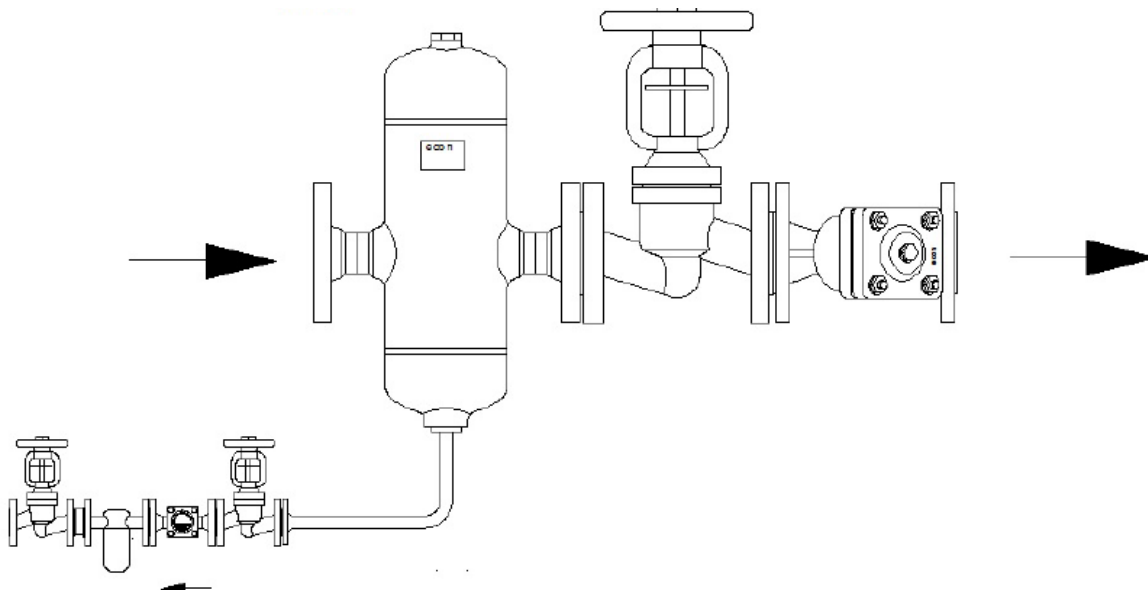
The ECON separators are used for the removal of entrained liquids in steam and compressed air systems. The separators are designed for standard operating conditions. For the use of extreme conditions e.g. aggressive or abrasive media, it is recommended to mention this at the ordering stage, to verify whether the separator is suitable. The installation designer is responsible for the separator selection, suitable for the working conditions. The separators are unsuitable, without written permission of an ERIKS company, to apply for hazardous media as referred into Regulation (EC) No 1272/2008.

**7. Installation**

During the assembly of the separator, the following rules should be observed:

- make sure, before assembly, that the separators were not damaged during the transport or storage, are according request and are suitable for the job.
- take off dust caps if the separators are provided with them.
- make sure that the thread or flange on the pipe are from the same standard as the separator and also free from pollution.
- check materials, pressure and temperature and their maximum values. If the maximum operating limit of product is lower than that of the system in which it is being fitted, ensure a safety device is included in the system to prevent overpressurization.
- the water separator must be mounted in a horizontal direction, connection on the top can be used for an air vent or pressure gauge with a syphon, with a steam trap on the drain connector on the bottom and with the arrow in the direction of the fluid flow.

½" connection for pressure gauge or air vent



- the water separator must be stress-free to be mounted in the pipeline, supports need to be made in order to avoid tensions, which are caused by the weight of the water separator or the pipeline.
- install pipelines so that harmful thrust forces, bending forces, torsional forces and intensive vibration, as much as possible, be avoided.
- bolt connections in the pipeline should not cause tensions, arising from tightening too powerful, user will select the correct bolts and gaskets suitable for the operating temperature, working pressure and medium.
- the bolts are to be tightened crosswise mixed evenly.
- at the water separators with wire ends, one should make sure that the wire ends of the pipe and the filter according to the same standard and are free from pollution.

**8. Maintenance**

Before starting any service jobs, make sure that the medium supply to the pipeline is cut off, pressure was decreased to ambient pressure, the pipeline is completely cleaned and ventilated and the plant is cooled down. Always keep safety instructions in mind and take all personal safety precautions.

During maintenance, the following rules should be observed:

- always keep personal safety precautions in mind and always use appropriate protection e.g. clothing, masks, gloves etc.
- be alert that the temperature still can be very high or low and can cause burns.
- There are no internal components that require maintenance.
- check the separator on all possible leaking possibilities.
- check if all bolts and nuts, are still fastened.
- the thickness of the body must be checked to ensure safety operation at an interval of at least three months.

**9. Service and repair**

All service and repair jobs should be carried out by authorized staff, using suitable tools and user shall use genuine valve parts.

- welding repair and drilling of the separator is forbidden.
- it is forbidden to replace the bolt, nut or packing when the separator is under pressure.

**10. Safety notes**

Allow time for temperature to normalize after isolation to avoid danger of burns.

**11. Troubleshooting**

It is essential that the safety regulations are observed when identifying the fault.

<b>Problem</b>	<b>Possible cause</b>	<b>Corrective measures</b>
No water separation	Flange dust caps were not removed	Remove dust caps

**12. Removal**

Dismantled and rejected valves cannot be disposed with household waste. The separators are made of materials which can be re-used and should be delivered to designated recycling centers.