



BJØRN EVAPORATORS

CONVERTING LIQUID WASTE TO VALUABLE PURE FLUID

Evaporation • Recycling of Spent Solutions • Easy Waste Handling

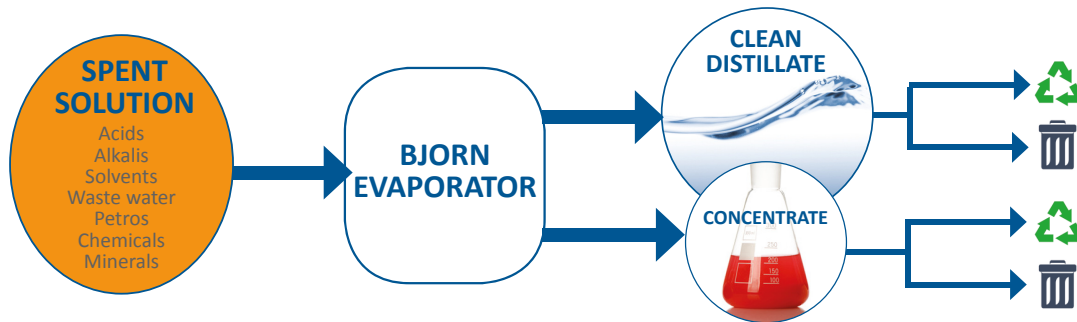
Add value to your spent solutions

The BJORN evaporators separate spent solutions into a distillate and a concentrate.

Depending on the type of spent solution, the distillate and concentrate may be re-used for other production purposes. It may be in the form of re-usable water or pure chemical solutions.

If there are no recycling benefits for your specific product, the distillation process will still make it easier for you to handle liquid waste, thereby reducing waste-handling costs.

Would you like to see the benefits for your specific product? Then let us test a sample on our test facilities.



The BJORN evaporator: From mixed liquid to re-usable material or manageable liquid waste

Versatile use

The BJORN evaporators are available in different layouts depending on your site and applications.

The systems can handle various types of spent solutions - it may be a waste product from your own production, or a third-party product you wish to refine.

We have extended experience with the following types of spent solutions:



- **WASTE WATER**

Waste water from industry, agriculture, recycling plants

- **INDUSTRIAL PROCESS WATER**

Wash water, chemical solutions, recycling and cooling water.

- **SALT WATER**

Water with high salt content.

- **ACID/SOLVENTS**

Solvents, acids and alkalis

- **EMULSION**

Coolant/lubricant and de-grease liquids

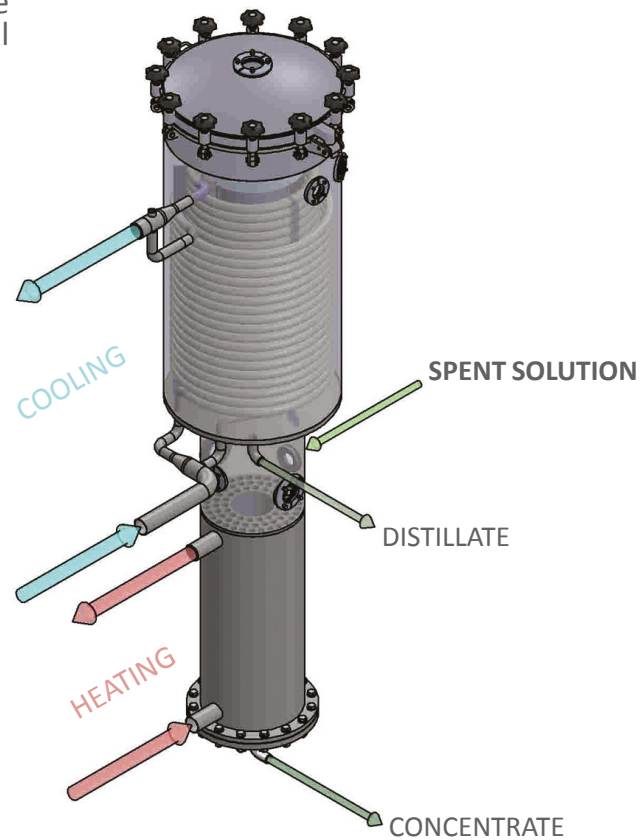
Advantages of the BJORN technology

We have more than 50 years of experience with distillation and recycling equipment. So it is a well-tested vacuum technology that is used in our BJORN evaporators.

The technology has proven to be extremely reliable and has a number of advantages over other industrial evaporators.

ADVANTAGES:

- Re-use heat or cold from your own production into the evaporator
- Well-tested technology with high durability
- Able to process highly aggressive chemical solutions due to low temperatures.
- Environmentally friendly re-use of water and/or solvents.
- Maximise profit by re-selling concentrate (product dependent).
- No emission or odours: safe for employees and environmentally friendly.
- Fully automatic system. Can run 24/7.
- System layout adaptable to site and applications.



The BJORN Evaporator:

Material: EN 1.4404, EN 1.4462

Capacity: 25, 50, 100 or 200 litres/hour

System layout: Version designed according to site and applications

Easy maintenance and cleaning

Operation: Automatic, 24/7 operation.

Foam control: Automatic anti-foam injection and adjustment of vacuum

Controls: PLC control

Extra options

Special alloys
pH-control unit
Distillate purity control
Cooling
Explosion proof execution

Approvals

ATEX
UL
CE
PED
ASME

Industry Experience

BJORN Evaporator systems are being used in very different industries. Here's just a few of them:

Pharmaceutical industry:

Recycling of organic solvents. Concentration of CIP-cleaning fluids.

Manufacturing industry:

Separation of oil-bearing waste water and degreasing baths

Surface treatment industry:

Concentration of spent electrolytic, degreasing and rinse baths

Photo industry:

Concentration of spent developer, fix and bleach. Recycling wash water and stabilizer.

Test your product

We have the test facilities to test a sample of your product on a BJORN Evaporator. Contact us today and learn more.

Some of our Customers

- Hewlett Packard, USA
- LEO Pharmaceuticals, Denmark
- BMW Rolls-Royce Aero Engines
- Novo Nordisk, Denmark
- NSR, Sweden
- Danfoss, Denmark
- CEWE Colour, Germany
- Kodak, USA
- Senterco Pulverlakk, Norway

Who is BJØRNKJÆR?

Bjørnkjær has supplied innovative solutions within the fields of engineering and machine manufacturing since 1956. Bjørnkjær makes processing equipment for distillation and recycling, with a main focus on evaporators. The Bjørnkjær Evaporators are marketed under the name BJORN evaporators.

Bjørnkjær is part of Danish engineering group VARO. The VARO group has a wide range of professional qualifications under the same roof. This makes it possible to effectively manage your project from analysis and engineering to mechanical construction and implementation.