

BLÜCHER®

DRAINAGE SYSTEMS FOR BEVERAGE INDUSTRIES



K E E P I N G U P T H E F L O W

STAINLESS STEEL DRAINAGE SYSTEMS



BREWERIES & DAIRIES

BLÜCHER provides drainage solutions for removing water in brewery bottling halls and dairies. The system is ideal for breweries and dairies all over the world.

Hygienic

Properly treated stainless steel has a unique smooth surface that guarantees maximum flow capacity and excellent hygiene. Due to its low surface roughness bacterial growth on stainless steel is significantly less than on, for example, plastics.

Withstands high temperatures and thermal shock

Being able to withstand temperatures over 800 °C, stainless steel can fulfill any demand for hot-water cleaning. Stainless steel has a low coefficient of expansion. This approximates to 1mm per metre length of pipe per 60°C change in temperature.

Non-combustable

It is a highly fire-resistant material that requires no further fire protection. According to EN13501-1 stainless steel is classified as non-combustable (A1).

Strong and light-weight

Stainless steel is a strong, durable, pressure and chemical-resistant material. Due to the excellent material properties the weight of a drainage installation can be reduced by more than 20% as compared to cast iron, and this makes installation fast and easy.

Easy maintenance

Shaped without rough corners or edges, cleaning and maintaining stainless steel takes minimum effort and time. The removable water trap provides easy rodding access.

Environmentally safe

Stainless steel is 100% recyclable and non-toxic.

Approvals

The BLÜCHER® drainage system carries the approvals of leading international classification authorities; for example ETA, SITAC, Byggforsk and BBA. Furthermore we carry out tests at international institutes, for example acoustic tests of BLÜCHER® EuroPipe at the International Fraunhofer Institut. All drains are made according to EN1253, channels according to EN1253 and EN1433, and all pipes are CE marked.





REFERENCES

Heineken, CocaCola, Pepsi, Carlsberg, Whitbread Breweries, Budweiser, Tropicana Juice Processing, Absolut Vodka. Nestlé, Arla Foods, Danone, Unilever, Almarai Dairy are among our customers. A complete reference list is available on request.

Alectia A/S (former Danbrew Ltd.) is a company that provides service and support to the international brewery and beverage industry. One of their main areas of business is design, planning and turnkey delivery of new brewery, beverage and dairy production plants and extensions to and renovation of plants already in operation.

For instance they have renovated The VENA brewery in St. Petersburg in Russia. When the brewery, built in 1923, was to be extended first by adding a bottling hall of more than 6000 m² and then by adding a new canning line, BLÜCHER was selected as supplier of the drainage systems for the new buildings.

“When planning the drainage systems, it was a vital point in our considerations that we were able to design them with great accuracy in Denmark. The BLÜCHER® Channel and BLÜCHER® Drain Industrial ranges, both modular systems and consequently easy to plan, gave us that opportunity,” says project manager Chris Lockhart, Alectia A/S, who knows and greatly appreciates the BLÜCHER® drainage system from earlier projects. “The system provides a large impounding capacity and is capable of discharging very large quantities of rinse water with-in a short time. In addition, the frames and the gratings of floor drains and channels are able to withstand the weight loading of heavy vehicles and of goods being moved about the halls. The floor drains and channels fit perfectly evenly and tightly into the flooring, whether tiled or epoxy/resin.

Important for our choice of drainage system were also the ease of cleaning and the hygienic properties. Among the advantages of the BLÜCHER® drainage system is the extensive range of accessories such as the glass separator, filter basket and sand bucket, which, among other things, makes it possible for us to completely avoid overloading the sewage system with unintentional discharges. The BLÜCHER® system is practically self-cleansing, and this means that the brewery does not have to spend resources on day-to-day maintenance,” says Chris Lockhart.





PRODUCTS

PIPES AND FITTINGS

BLÜCHER® EuroPipe includes a complete product range of pipes, bends, branches, access fittings and rodding eyes in standard dimensions Ø50, 75, 82, 110, 125, 160, 200, 250 mm and standard lengths ranging from 0,15 m up to 6 m.

Easy connection

BLÜCHER® EuroPipe is easy to assemble and connect to drains, channels and above-ground pipework without the use of adaptors or connectors. Rodding eyes, drains and access covers are also part of the BLÜCHER® standard range.

Non-combustable

Stainless steel functions within a wide scale of temperatures. Being able to withstand temperatures over 800 °C, stainless steel is a highly fire-resistant material.

Chemical resistance

BLÜCHER® EuroPipe is highly resistant to most aggressive discharge and ground conditions.

100% recyclable

Stainless steel is 100% recyclable and - owing to its long product life - environmentally friendly. BLÜCHER® EuroPipe is made from stainless steel which has a recycled content of over 70% scrap.

Same pipe system below and above ground

The piping system comes in stainless steel grades AISI 316L and AISI 304. For below-ground, grade 304 may be used, but BLÜCHER recommends the use of 316L because the risk of corrosion, caused by an aggressive environment, is significantly reduced or eliminated entirely by choosing the molybdenum stainless steel type AISI 316L. Also local regulations may require the use of AISI 316L and minimum Ø110mm.

Customised items

Customised items are available on request.

Tools

Our electric or manual BLÜCHER® pipe cutter is used to cut pipes to lengths and bevel pipe ends for jointing.

Complete BLÜCHER® EuroPipe product range including reducers, couplers and "P" traps can be seen at www.blucher.com and in our product catalogue.



PRODUCTS



DRAINS

BLÜCHER provides drainage solutions and a wide range of industrial drains to all kinds of dairies and breweries. The smooth, easy-to-clean surfaces of the stainless steel products ensure excellent hygiene, self-cleansing and excellent flow capacity. For an overview of all drains, see our standard product catalogue or www.blucher.com.

BLÜCHER® Drain Industrial

The industrial floor drain program is suitable for today's building materials and methods:

- Removable water trap
- 20 mm frame for all types of floors
- Hygienic frame edge with edge infill
- Filter basket and sand bucket for easy cleaning
- No burrs or sharp edges
- No corners or cavities inside
- Gratings for any load class

Water traps

Every care has been taken to develop products requiring minimum maintenance whilst offering excellent hygienic properties and high flow capacities, for instance the removable water trap providing easy access for cleaning and inspection.

Customised items

Customised items such as glass separators and other products are available on request.

Complete BLÜCHER® Drain product range including gratings, water traps and extras can be seen at www.blucher.com and in our product catalogue.

PRODUCTS

ACCESS COVERS

BLÜCHER® access covers are made from 2 mm stainless steel providing a high level of stability and durability.

The access covers are available in four sizes from 300x300mm to 1000 x 1000mm and have been approved for load class B.

The access covers are designed with “eyes” and a taper fit for easy lifting and access. A sealing ring below the lid prevents smell from spreading and ensures a water-tight solution. The access covers meet the requirements of the standard EN 124.



ACCESS FITTINGS

BLÜCHER® access fittings are the traditional way of providing access to below-ground drainage under the building footprint or outside the building. Open half-section access liners can be provided if preferred.



GLASS SEPARATORS

Wherever bottles are filled and cleaned there will be glass and solids. If fragments of glass and solids end up in the lower part of the drain, there is a risk of the drain being blocked, and the drainage system is no longer safe. Consequently, a costly cleaning of the pipe system is required. Furthermore, if the drainage system is cleaned manually, splinters of glass may cause personal injury.

The Glass Separator makes sure that the glass and solids are separated. The separator is located at the outlet of the channel above the lower part of the drain. The waste is separated from the water into two different bowls and consequently it is very easy to remove the waste.





PRODUCTS

STANDARD OR CUSTOMISED CHANNELS

The BLÜCHER® Channel program includes a complete range of channels and kitchen channels. From light- to heavy duty. In acid-resistant AISI 316L or regular AISI 304 stainless steel.

The channels are available with or without outlet box, for grating or as slot channel. The channel range is combinable with the industrial lower parts and accessories such as removable water trap.

All accessories like gratings, filter baskets and water traps are also part of the standard program.

The BLÜCHER® Channel product program is produced largely from 2 mm stainless steel providing the highest levels of stability and durability. Discharge of liquids at temperatures up to 120 °C will not influence the material.

On our website you will find the complete BLÜCHER® Channel product program as well as selected references and applications.

Our technical experts will assist you in selecting the right solution. Standard or customised.

For all floors and loads

Suitable for concrete, tiled, flexible sheet or epoxy/resin flooring. Highest level of stability and resistance to deformation when exposed to heavy loads. Wide range of gratings suitable for medium to heavy weight loads.

Details for extra safety

- Extra stabilisers
- Anchor tangs
- Adjustable legs
- Edge infill in frames



The complete BLÜCHER® Channel product range including gratings, lower parts, water traps and extras can be found at www.blucher.com and in our product catalogue.

BLÜCHER®

At BLÜCHER® more than 300 employees create an annual turnover of more than 50 million euro.

Through know-how, dedicated service and common sense we develop, produce and market high quality stainless steel drainage solutions for customers within the housing, commercial, industrial and marine sectors all over the world.

Find your local BLÜCHER® specialist at www.blucher.com

BLÜCHER® EuroPipe

BLÜCHER® Channel

BLÜCHER® Drain



KEEPING UP THE FLOW