

Pilot plant Equipment catalogue

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Pilot plant – unique opportunities

Microbiological laboratory*

Chemical laboratory

Sensory laboratory

*Authorized to conduct challenge tests with pathogens **Authorized for export – produce samples for your costumers

Unit Operations** Grinding Ghoppin Blendi Tumbl Multi stitch injection Stuffing Fermenting Curing Cooking Sous vide cooking Smoking Cooling Vacuum packaging Canning Freezing Ohmic heating

High-speed chopper 30 liters – Kilia



Capacity approx. 10-20 kg depending on product. Can chop with and without vacuum with 3 or 6 blades. Adjustability:

- 2 knife speeds
- 2 bowl speeds
- Kneading function 2 speeds

Meat grinder – K+G Wetter



Scrapping of raw materials to approx. 25 mm.

Notch to 1.5 mm, 3 mm, 5 mm, 10 mm using various perforated discs.

Multi-Syringe – Fomaco



Injections salting of whole pieces of meat with brine

Can be set with different needle patterns and different needle types



Fomaco three-room tumbler





Volume pr. room: 100 liters. Maximum degree of filling approx. 80% depending on product type. Tumbling during vacuum.

Adjustability options:

- 1. Total time, tumbling time, breaks
- 2. Revolutions per minute
- 3. Hard and soft carriers

Vacuum Filling Machine – Handtmann VF50





Can portion from 5 g - 9999 g.

Can twist sausages with both natural and artificial casings.

Smoking cabinets (x2) – Doleschal





Capacity: Product dependent - 1 rack per cabinet. Products can either hang or lie on wire shelves.

Temperature: 5 – 95°C.

Humidity can be controlled from 50 – 99% relative humidity.

Air speed: low and high.

Smoke generator produces natural smoke from wood chips.

All data is logged and collected in a data file.

Cooking cabinet – Doleschal



Capacity: depending on the product – 1 rack Temperature: 0 – 95°C, boiling with steam **Programming different cooking programs Delta T boiling Cooling with sprinkling** Cooling down to 0°C Can be used for controlled defrosting All data is logged and collected in a data file

Climate cabinet – Maurer KLS 1710 EL/WA



Can be used for fermentation, maturation and drying of meat products.

Capacity: Product dependent - 1 rack per cabinet.

Temperature 5 – 35°C.

Humidity can be controlled from 50 – 99% relative humidity.

Air speed: infinitely adjustable from 5 – 100%.

Data logging of temperature, humidity and air speed.

Sous vide – classic gastro





Capacity: approx. 40 kg depending on the type of product.

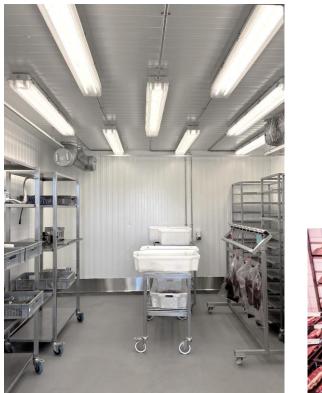
Setting options: Core temperature and holding time.

All data is logged and collected in a data file.

The food is vacuum packed, and heat treated in water to a given core temperature and holding time. A very precise heat treatment temperature is achieved. Allows to produce products with great tenderness and juiciness.

After heat treatment, the products are cooled in the sous vide vessel.

Light exposure of products





Can be used for shelf-life tests. Can copy detail lighting etc. Variable light intensity (lux). Timer function with light on and off. Temperature control from 0 – 30°C.

Autoclave KEA Phønix



Volume of container: 63×81×95 cm Irrigation autoclave Cooling with cooling water Temperature range: 5 – 140°C Pressure: up to 6 bar Data logging of time, temperature and pressure

Vacuum can sealer - Haustrup







- Closes cans under vacuum. Dimension of cans: - 90×95×50 mm H×L×W
- 45×95×50 mm H×L×W

Vacuum packing maschine RöscherMatic



Pack under vacuum - double chamber.

Vacuuming degree can be regulated.

Bag size up to 75 cm × 65 cm.

Can handle bag types with different barrier properties, plastic thickness, etc.

Vacuum Packing / MAP Packing with Controlled Atmosphere



Vacuum packaging - vacuuming degree can be regulated.

Bag size up to approx. 40 cm × 35 cm.

Controlled atmosphere packaging (MAP).

1. Vacuum: approx. down to 5 millibars, gas injection up to 950 millibars.

2. Welding: setting the time and temperature depending on the bag type.

Standard gas mixtures based on N_2 + CO_2 + O_2 . Other gases can be ordered.

Tray Sealer T250 – Multivac





Modified/controlled atmosphere packing (MAP).

Tray size: e.g. 190×143×52 mm L×H×W Volume 900 ml.

Standard gas mixtures based on N_2 + CO_2 + O_2 . Other gases can be ordered.

- 1. Vacuum: approx. 20 millibars.
- 2. Gas supply: 950 millibars.

3. Welding: setting the time and temperature depending on the film and tray type.

Slicer – Weber 305UB





Product Size:

- 1. Maximum length mm: 1000
- 2. Maximum width mm: 250
- 3. Maximum height mm: 125 / 135 / 150

Slicing speed: max. 400 slices/min

Slice thickness mm: 0.5 – 50

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