



DEVEX
Verfahrenstechnik GmbH
Extraction and Drying

**NEUHAUS
NEOTEC**
Coffee Technologies

**NEUHAUS
NEOTEC**
Particle Technologies

DEVEX Innovation Centre

Fockestrasse 67 – 27777 Ganderkesee – Germany

DEVEX Innovation Centre

- ✓ Execute trials based on client' s specification
- ✓ Product development for and together with the client
- ✓ Execute first R&D trials for new processes
- ✓ Verifying lab parameters in a first scale up
- ✓ Define process parameters for future production scale
- ✓ Easy upscaling to industrial size



DEVEX Innovation Centre: Extraction/ Evaporation

Extraction:

- Steaming
- Maceration
- Percolation
- Aroma/ oil stripping
- Solvent recovery

Evaporation:

- Flash evaporation
- Solvent recovery
- Adjustable vacuum
- Concentration/ High concentration



DEVEX Innovation Centre: Drying

Drying processes:

- Vacuum drying
- (Liquid) freeze drying
- Continuous belt drying
- Tray (batch) drying

Product treatment:

- Contact/ radiation heating
- Maillard reaction
- Product temperature-controlled drying



Equipment Key features – Overview

Extraction:

- 2 x 100-liter extractors
- ATEX design
- Suitable for different solvents

Drying:

- Adjustable vacuum level, up to 1mbara
- Product preparation possible:
 - Mixing
 - Cooling
 - Freezing
 - Milling
 - Sieving

Evaporation:

- Adjustable vacuum level, up to 50mbara
- Evaporation rate, 100l/h (based on water)

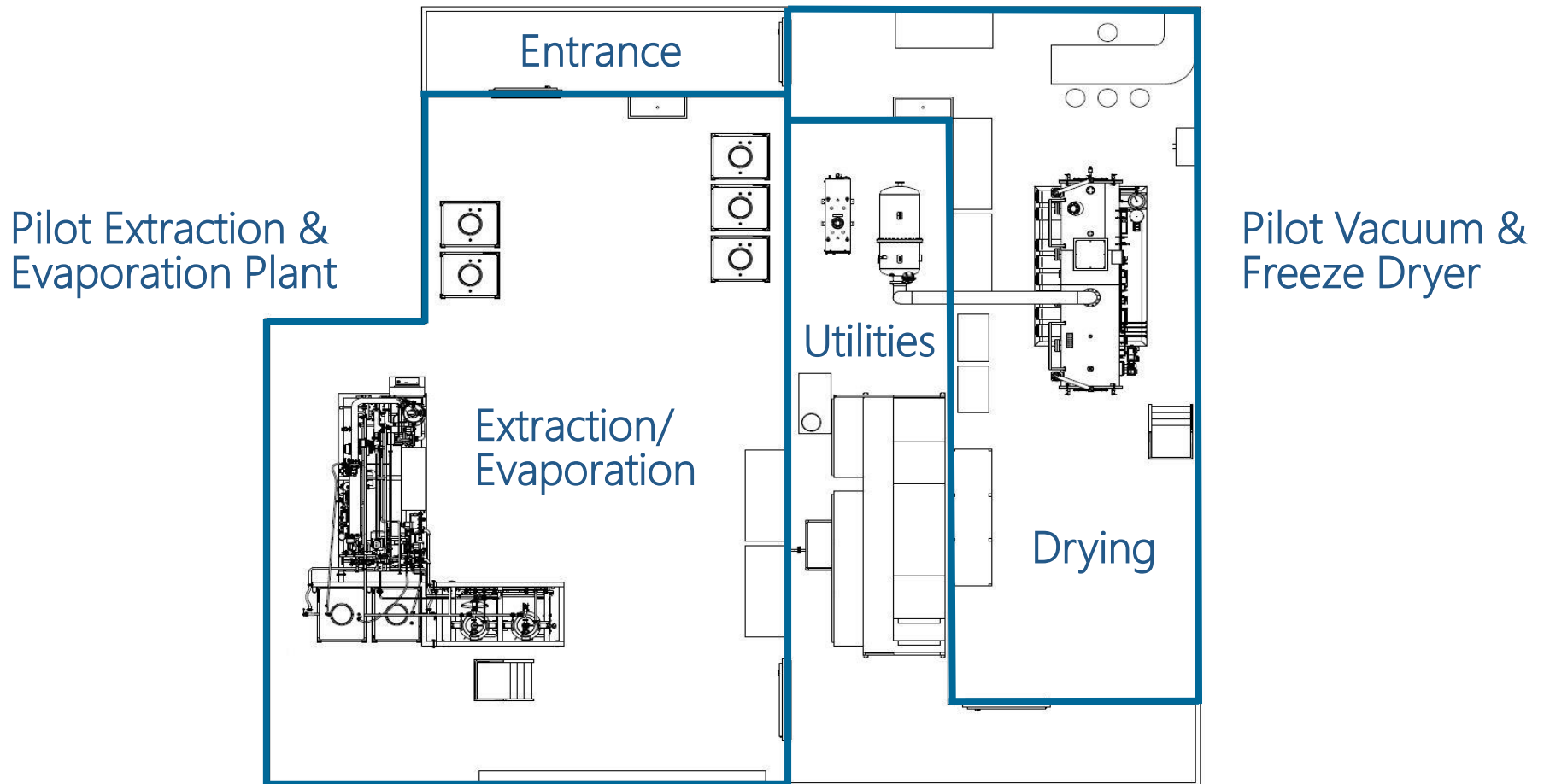
Analysis:

- Residual moisture
- Brix measurement
- pH-Meter
- Grain size distribution

Trial Examples

Extraction	Evaporation	Drying
Tea	Tea Extract	Strawberrys
Coffee	Coffee Extract	Herbs
Chamomile	Fruit Juice	Raspberry
Hibiscus	Rosemary Extract	Chemicals
Ginger	Wood Extract	Meat
Wood	Gum Tree Extract	Vegetable Juice

Overview – DEVEX Innovation Centre





 **DEVEX**
Verfahrenstechnik GmbH
Extraction and Drying

 **NEUHAUS
NEOTEC**
Coffee Technologies

 **NEUHAUS
NEOTEC**
Particle Technologies

DEVEX Innovation Centre – perfect for R&D and product development

You are welcome to join us during trials in the Innovation Centre

Contact DEVEX: info@devex-gmbh.de – Phone: +49 2581 927230 – www.devex-gmbh.de