

# JUCHHEIM Laborgeräte GmbH

since 1927

Individual design and modular reaction vessel construction

for pressure and vacuum











## Juchheim Laborgeräte GmbH

### Modular vessel construction with tradition

For research, development, and production in the laboratory, reaction vessels with a volume of millilitres to 150 litres within the pressure range from vacuum to 150 bar, at operating temperatures of -80 ° C to 400 ° C are required.

The company Juchheim has nearly 90 years of experience in planning, designing and manufacturing this equipment. Because of our expertise and many years of experience in the field of producing reaction vessels and their accessories, we can respond to and meet your individual needs. Our modular design and construction is the ideal foundation for high-quality, personalised solutions that bring solid pricing and reliability to a common denominator.

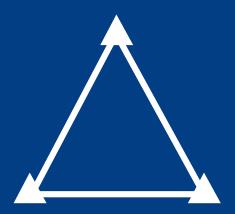


We are specialised in manufacturing vessels with a total capacity ranging from 0.5 litres to 128 litres in the following areas of application:

- Vacuum up to 10 4 bar
- Pressure up to 150 bar
- Temperature from 80 °C to 400 °C
   The main components of a completed plant are:
- Reaction vessel with accessories stirrer heads and stirrers, connections, drains
- Additional devices
   drive systems, lifting platforms,
   gas collecting mains, coolers, condensers
- Temperature controllers
   heating circulators, coolers,
   valves and controllers

TÜV approval for the manufacture of pressure vessels from various materials is issued. In accordance with the GMP standard for the pharmaceutical and food industries, we have experience in the production of containers.

Competence and years of experience in manufacturing lab resources and equipment and designing and constructing individual reaction vessels to whole plants



Designing and manufacturing according to individual needs

Consistent quality assurance and professional advice









# Committed to quality

The quality of our products is our top priority. In order to ensure constantly high-quality production of our standard laboratory equipment and our reaction kettle-special, we let TÜV Rheinland continuously certify our production plants.

By working closely with independent businesses which have years of experience in quality control, we can guarantee you consistent quality.







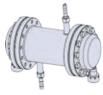
## Individual reaction vessel construction for pres

## **Progress** through modular design

The requirements of our customers for the reaction vessels are as varied as the respective processes which are carried out in them. In recent decades, we have developed a modular system with standardised connection components, in order to economically implement individual solutions. This greatly simplifies the design and construction of our custom-made products.

With the various interchangeable connecting components (such as Liebig condensers, tube condensers and various pipe systems), it is economically feasible not only to create the initial reaction vessel, but also to extend, modify or upgrade it. In most cases, quick and inexpensive delivery of the required parts is possible due to our wide range of standard components. Of course, any special requests are realised on arrangement.

Contact us!







- Funnel
- Distributors
- NS sockets
- Thermometer sockets





Distillation units





#### Locking systems

- Hexagonal bolts
- Pressure clamps
- Quick release chain





#### Lateral sight glasses

- Round
- Elongated

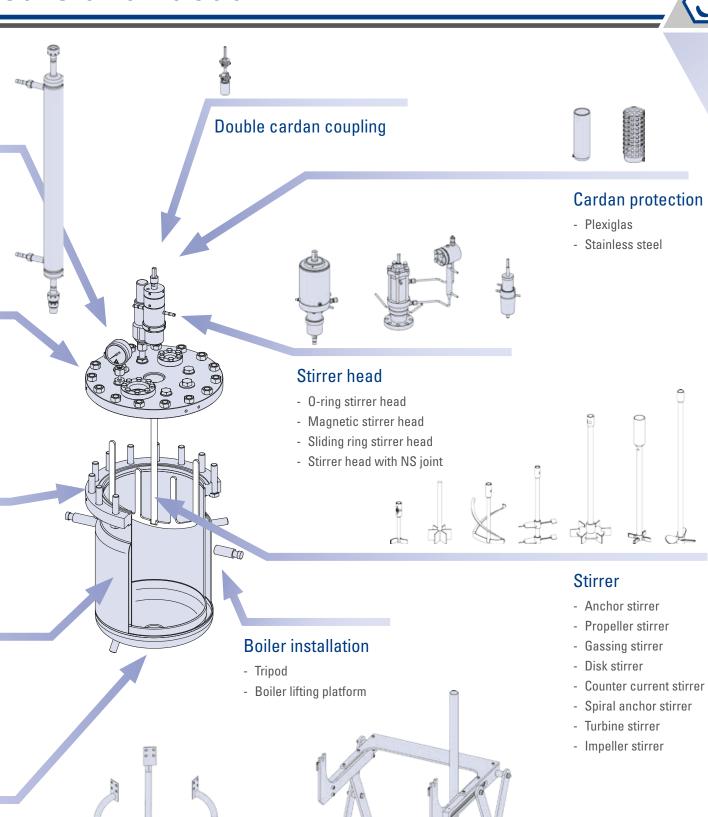


#### Drain:

- Ball valve
- Straight drain valve
- Tommy screw
- Oblique drain valve
  - · Straight olive connection
  - · Curved olive connection

## sure and vacuum





## From the flow chart to the finished plant

# Tell us your requirements

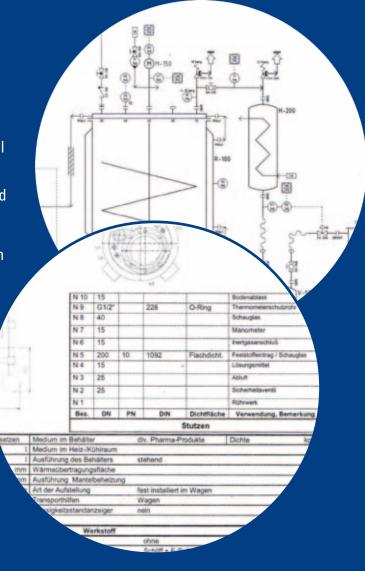
In the laboratory or in a technical centre, and according to customer requirements, we manufacture chemical-technical test facilities (pilot plants) with reaction volumes from millilitres to 150 litres, and which are made of stainless steel and special alloys, e.g. for polymerisation, melting, stirring, etc.

A pilot plant is used for data acquisition, and the optimisation and acquisition of technical experience in chemical processing, in order to subsequently produce the perfect product (scale up) in the industrial plants in series.

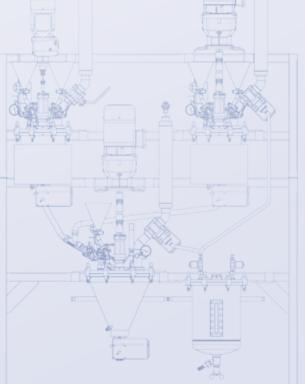
Send us your technical specification or your R&I flow chart.

Owing to our experience for many years, we have a large database including a wide variety of pressure and vacuum vessels with standard components in order to plan your individual plant optimally.

We will then prepare a detailed offer.















Juchheim Laborgeräte GmbH Handwerkstraße 3-7 D-54470 Bernkastel Kues Phone: +49 (0) 6531 - 9644 - 0

Fax: +49 (0) 6531 - 9644 - 15

info@juchheim-gmbh.de www.juchheim-gmbh.de







