



Andreas Junghans



Plant engineering



Pressure vessels



Membrane filtration plants



Test facilities



Automatisation and visualization



Documentation

Engineering
Manufacturing

Membrane filtration plants

aqueous and non-aqueous
membrane filtration

Test facilities

for pumps, valves
and armatures

Pressure vessels and welded assemblies

acc. technical guidelines

special material

- high temperature austenite
- nickel-base material

Automatisation and Visualization

incl. control cabinet

and wiring

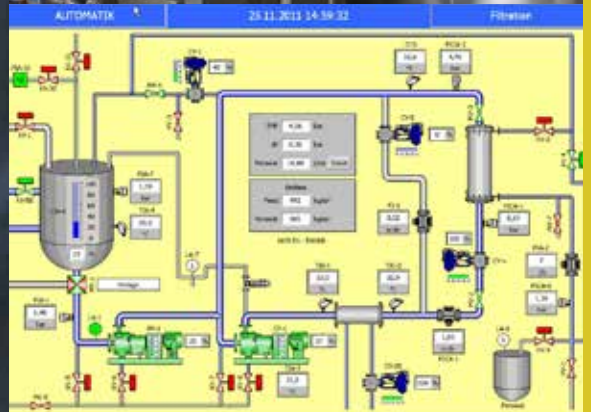
data storage, telemaintenance

Dokumentation

approval, certification

and user manual

acc. GMP | ATEX | WRA



Andreas Junghans
Chemnitzer Straße 63
D-09669 Frankenberg

Fon.: 0049 37206 862 54
Fax: 0049 37206 862 57

Internet: www.ajunghans.de
E-Mail: info@ajunghans.de



Andreas Junghans



Products and Services

membrane filtration plants

test facilities

pressure vessels

- Engineering acc. guideline 94/9/EG („ATEX“)
- up to 2 to weight, including strenght calculation
- up to pharma quality (collaring, polishing, measuring)
- Manufacturing including wiring and cabinet
- turn key plants as well as parts

Turn key from one supplier

- Full solution (process design, controll concept, hazard analysis, etc.)
- Design and selction of all components
- 3- dimensional design
- Certified manufacturing
- Controlling by notified bodies (f.e. TUEV)
- Factory acceptance tests with attestation
- Commissioning
- After sale services and remote maintenance

kontakt: Andreas Stobbe
phone: 0049 37206 862 54
fax: 0049 37206 862 57
a.stobbe@ajunghans.de



Andreas Junghans
Chemnitzer Straße 63
09669 Frankenberg/Sa./Germany
www.ajunghans.de

Made in Germany



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Products and Services



Membrane filtration plants for liquids

- Recycling of heterogene catalysts
- separation and concentration of peptides and bioactive molecules in organic solvents
- Diafiltration to remove hazardous substances
- Solvent cleaning and/ or -recycling
- Recycling of solution with content of chrome
- Cleaning of foodoils or lecithin



Test facilities for liquids and gaseous substances

- Design of flow diagrams
- Calculation of pressure drops and flow profiles
- Calculation and design of vessels and piping
- Manufacturing of vessels and piping
- Circuit diagrams
- Manufacturing of control cabinets and wiring
- Commissioning



Pressure vessels and welded assemblies

- Pressure vessels and welded assemblies
- Calculation and design up to 2 to total weight
- Stainless steel only



Organophilic Nanofiltration

Turnkey membrane separation plants for use under potentially explosive atmospheres

- following the recommendations of guideline 94/9/EG ("ATEX")
- usable in Ex II 3G IIC T4 inside, Ex II 2G IIC T4 outside
- up to 60 bar inside pressure
- up to 80° C working temperature
- manufacturing acc. GMP guidelines
- not changeable data storage (can be validated), different usergroups

Applications

- recycling of heterogene catalysts
- separation and concentration of peptides or other bioactive molecules from organic solvents
- diafiltration to remove hazardous solvents
- solvent purification/ solvent recycling
- recycling of chromatography dilutions
- polymer fractioning
- treatment of nutritional oil and lecithin
- regeneration of lubricating oil

Contact: Mr. Marcel Franowski
Tel. 0049 37206 862 55
Fax. 0049 37206 862 57
m.franowski@ajunghans.de

Andreas Junghans Edelstahlbearbeitung und Anlagenbau
Chemnitzer Strasse 63

09669 Frankenberg/ Sa. /Germany

Made in Germany

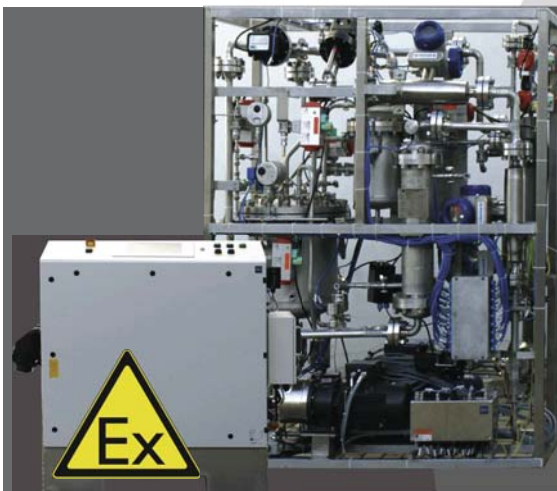




Organophilic Nanofiltration



Customer: **Research institute**
Location: Belgium
Capacity: approx. 500 L/ h
Membrane: 3 x ceramic multi channel tubes
1 x 2,5" spiral wound membrane
Requirements: Ex II 3G IIB T4 inside,
Ex II 2/3G IIB T4 outside
GMP- procedures for using under
pharmaceutical conditions
Medium: all kind of organic solvents
(hexane, ethanol, ...)



Customer: **Chemical industry**
Location: Germany
Capacity: approx. 300 L/ h
Membrane: 1 x ceramic multi channel tubes
1 x 4" spiral wound membrane
Requirements: Ex II 3G IIC T4 inside,
Ex II 2G IIC T4 outside
Medium: propylene oxide



Customer: **Chemical and pharmaceutical Industry**
Location: Germany
Capacity: max. 750 L/ h
Membrane: 2 x 7 x ceramic multi channel tubes
1 x 4" spiral wound membrane
Requirements: Ex II 3G IIC T4 inside,
Ex II 2G IIC T4 outside
Medium: different organic solvents
(hexane, ethanol, toluene)