

**Die REITHER Venturiwäscher GmbH
1997-2018**

Von Ing. Karl Reither, Troisdorf, 23.01.2019

REITHER 
VENTURIWÄSCHER

REITHER offers

Clean Air Solutions

Advanced Technology
for Separation of Dust,
Aerosol and Gas

REITHER® Venturi
Developed in Germany
Well built worldwide

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Company Profile

The REITHER Venturiwäscher GmbH is an engineering service specialised in air pollution control.

The market strategy is to sell innovative, patented technology world-wide to licensees and to consult in its application.

Our products are produced and sold through several companies in many countries.

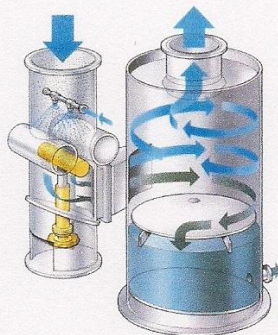
Our service consists of the development, design and explore new applications.



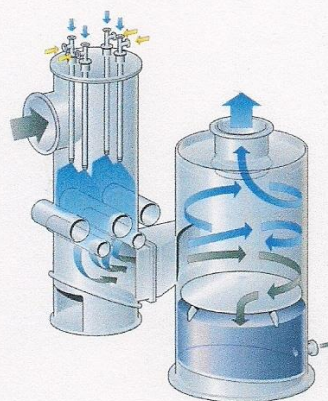
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Products

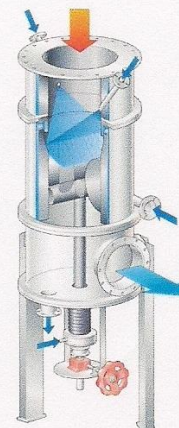
Basis of our business is the international patented Venturi Scrubber System REITHER, which is built in various models



Venturi Scrubber
System REITHER



Venturi Scrubber
System BAYER-REITHER



Venturi Quench
System REITHER

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Application

Chemical and Pharmaceutical Industry

- Chemical Waste and Liquid Incineration
- Pre-separation for RTO
- Fluidized Bed Process
- Dryer
- Reactor Off Gas
- Pigment Production
- e.g.

Petrochemical Industry

- Heavy Oil Catalytic Cracking (FCC)

Food Industry

- Roasting Operation
- Flavour Production
- Fluidized Bed Granulation
- e.g.

Vacuum Process Technologies

- Solar Cell Production
- Optical Fibre Production
- Semiconductor Operations
- e.g.

Waste Processing

- Incineration
- Sludge Drying
- Gasification
- e.g.

Steel and Metal Industry

- Production of Hightech Materials
- Metal Recycling
- Metal Handling
- Scarfing Process
- e.g.

Foundry

- Core Making
- Smelting Process
- Cupola Blast Furnace
- e.g.

Glass Industry

- Special Glass Production
- Glass Coating
- e.g.

Fertilizer Industry

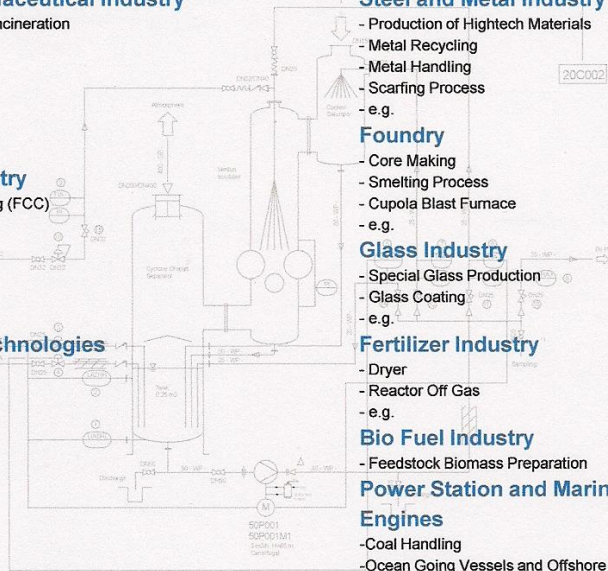
- Dryer
- Reactor Off Gas
- e.g.

Bio Fuel Industry

- Feedstock Biomass Preparation

Power Station and Marine Diesel Engines

- Coal Handling
- Ocean Going Vessels and Offshore Power Station



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Research, Development, Pilot Plants

For development we are co-operating with various Universities, Research Institutes and R & D Departments of different companies. Mobile pilot plants are available for investigations on site.



Investigation at the University



Tests with the Venturi Quench



Mobile Pilot Plant

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Licensees worldwide

GERMANY

VSS-Umwelttechnik GmbH
Troisdorf

GBT Anlagenbau GmbH
Marl

John Zink KEU GmbH
Krefeld

For the Venturi Scrubber System
BAYER-REITHER there is a licence
agreement with Bayer Technology
Services GmbH, Leverkusen.
This agreement offers the right to
REITHER to grant world-wide sub-
licenses on this technology.

BELGIUM

Metis NV
Beringen

SPAIN

Plastoquimica S.L.
Barcelona

FRANCE

Waterleau France
Cergy Cedex

POLAND

BiproRaf
Gdansk

INDIA

DustVen Private Ltd.
Bangalore

Local sales service:

ISRAEL
Ritmo Engineering, Tel-Aviv

CANADA, USA

Altech Technology Syst.Inc.
Toronto

JAPAN

Nafco Co. Ltd.
Tokyo

CHINA

Bayer Technology Services
Shanghai

Verantis Corporation
Shanghai

SINGAPORE, Taiwan, Malaysia

Verantis Corporation
Singapore

KOREA

Shindo Engineering & Constr.
Anyang

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References (European Customers)

AUSTRIA

KCS Austria Engineering, Brunn a.G

Belgium

S.A. Citrique Belge N.V., Thienen
Umicore Oxide Belgium, Zolder

DENMARK

Danisco Sugar, Assens

FRANCE

Ferrodure, Evreux Cedex
Kvaerner Pulping, Tartas
Station d'Epuration, Deauville
Arc International, Arques
Huntsman Tioxide, Calais
VIDAM, Amiens
Sankyo Pharma France, Altkirch
Cezus (Framatome ANP), Jarrige
MSSA S.A., Pombliere, Saint-Marcel
Solvay Electrolyse France, Tavaux
Total E&P France, Lacq
Ascometal S.A., Fos-sur-Mer cedex
Technip France, Lyon Cedex 07
Tarnaise de Panneaux, Labruguiere
Arkema France, Chauny

ITALY

SGIM-Solvay, Angera
ILVA SPA., Nori Ligure
Marcegaglia SPA., Ravenna

GREAT BRITAIN

British Steel, Ebbw Vale works
Epichem, Wirral, Bromborough
Zeneca Pigments, Grangemouth
Pirelli Cables Ltd., Eastleigh
Synetix, Haverton Hill
McIntosh Donald, Aberdeen

GERMANY

Bayer AG, Leverkusen, Dormagen,
Lanxess AG, Uerdingen
Keramchemie GmbH, Siershahn
SKW Trostberg AG, Tacharting
Merck Schuchardt, Hohenbrunn
Kali + Salz AG, Philippsthal
Kronos Titan GmbH, Leverkusen
Kerr-Mc Gee GmbH, Krefeld
H.C. Starck, Goslar, Laufenburg
Grillo Zinkoxid GmbH, Goslar
Kronos International Inc. Leverkusen
Deutsche Solar GmbH, Freiberg
Symrise GmbH & Co KG, Holzminden
Degussa Constr. Polymers, Trostberg
Novasep Dynamit Nobel, Leverkusen
Henkel GmbH, Herborn-Schönbach
Harburg-Freudenberger, Hamburg
Landeskriminalamt, München
Schott Solar GmbH, Alzenau
Sunfilm AG, Großröhrsdorf
Wacker Chemie AG, Burghausen
Ineos Manufacturing GmbH, Köln
DMF Fonterra, Nörten-Hardberg
Rheinfelden Alloys, Rheinfelden

SPAIN

Comforsa, Ripoll
Asturiana de Aleaciones S.A., Aviles
SHS Ceramicas S.A., Salamanca
Cementos Collet, Guardiola del
Bergueda
Fertiberia, Sagunto (Valencia)
ORMAQUI, Mungia
Hydrowatt, Sabadell (Barcelona)
Ute Tramfang, Barcelona
Universidad de Zaragoza
Metrofang, Barcelona
Gemasa, Los Barrios (Cádiz)
Verdugt Spain SA, Barcelona
Telleres Engre S.S., Madrid
Technoholding SA, Barcelona
Hexcel Fibers, SL.; Toledo
Tradebe Group, Barcelona

SWITZERLAND

Ciba-Geigy AG, Basel
Novartis Services AG, Basel
CIMO, Monthey
Entsorgungszentrum Richi, Weiningen
Givaudan AG, Dübendorf

Poland

KGHM Polska Miedz, Glogow

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References (Overseas Customers)

BRAZIL

Bayer S.A. Belford Roxo, R.J.
Ingredion Brazil, Mogi Guacu

CANADA

Wing's Food Products, Toronto
Valspar, Cornwall Ont.
Hallmark Poultry, Vancouver, BC.
Printing Operation in Ottawa, Ont.
Infratech Corporation, Whitecourt,
International Marine, Port Colborne
Oakite Canada Ltd. Bramalea, Ontario
EMC (BOC Group), O'Fallon, MO
Collingwood Ethanol, Collingwood
Pinnacle Pellet Inc., Quesnel, BC
EnCo Industries, Vancouver, BC
Anod-Tech Finishing Inc. Milton, Ont.
Honda of Canada, Alliston, Ontario
Seel Division, Brampton, Ontario
Cestoil Chemical Inc. Toronto, Ont.
ADI Systems, Fredericton, NB
Safety-Kleen Systems, Waterloo, ON.

CHINA

Cognis Oleochemicals, Shanghai
Bluestar Silicone (Tianjin) Co. Ltd.
Galaxy Lithium (Jiangsu) Co. Ltd.
BASF-YPC Company, Nanjing
Huizhou Refinery, Huizhou City
Bayer CropScience, Hangzhou

INDIA

Bosch Limited, Nashik
Hercules Speciality Chem., Bangalore
Jindal Vijanagar Steel, Toranagallu
Thyssen Krupp Industries, Pune
McNaly Bharath Engineering, Calcutta
Gujarat Enviro Protection, Surat
Hindustan Zinc Ltd. Rajasthan
Essar Steel Orisa Ltd. Bhubaneswar
TRF Ltd., Jamshedpur
Tecpro Systems Ltd., Chennai
Larsen & Toubro Ltd., Chennai

JAPAN

Asahi Glass Co. Ltd., Yokohama
Nihon Yamamura Glass, Tokyo;

KOREA

OCI Company Ltd., Seoul
Sebang Hi-Tech, Kyungsangnam-Do
Asahi Glass Korea, Gumi-city
SAMSUNG Electronics, Hwasung

SOUTH AFRICA

Chrome International, Newcastle

USA

ECOPIC Corporation, Mansfield,
HEB Grocers Corp., San Antonio,
Master Foods, Elizabethtown, PA
The Benham Comp., St.Louis, MO
Koppers Inc., Somerville, TX
Koppers Inc., Denver, CO
Koppers Inc., Susquehanna, PA
Mars Snackfood, Hackettstown NJ

CHILE

TecnoComposites S.A, Antucoya

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Worldwide Operating REITHER® Systems



GERMANY



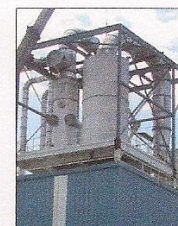
SPAIN



CHINA



FRANCE



CANADA



USA



BRAZIL



KOREA



BELGIUM

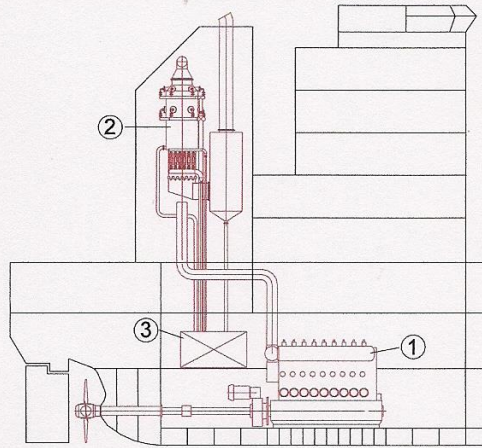


GREAT BRITAIN

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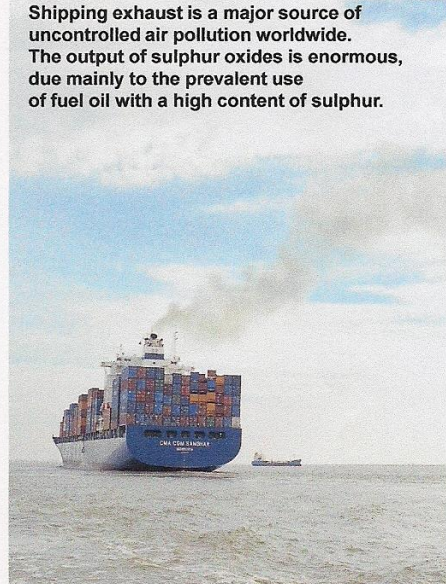
Emission Control for Marine Diesel Engines

Simultaneous reduction of SO₂- and PM- Emissions by Seawater scrubbing.



Installation of the seawater scrubber in a cargo ship
1 – Marine Diesel Engine
2 – Spray tower and BAYER-REITHER scrubber
3 – Pumps, Compressor, Water treatment, etc.

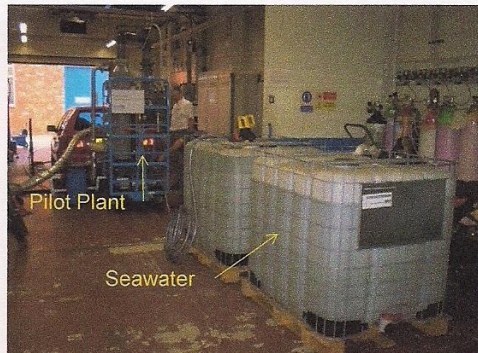
Shipping exhaust is a major source of uncontrolled air pollution worldwide. The output of sulphur oxides is enormous, due mainly to the prevalent use of fuel oil with a high content of sulphur.



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Emission Control for Marine Diesel Engines

Pilot Test with Seawater with an Automotive Diesel Engine at RICARDO TEST CENTER Shoreham-by-Sea, West Sussex, UK



Licensee for the BAYER-REITHER Technology
for cleaning of fluegases from Marine Diesel Engines:

AZEMSYS Ltd.
London, UK

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Bearbeitet: Dr. Volker Hofmann, Troisdorf, 22. Februar 2019