

A black and white photograph of an industrial robotic welding process. A robotic arm is positioned over a metal manifold, with a bright light and sparks emanating from the welding point. The manifold is a complex metal structure with multiple circular openings. The background is dark, highlighting the industrial setting.

**WINKELMANN**  
OEM Competence

Manifolds

# **WINKELMANN**

OEM Competence

Winkelmann is one of the global leading original equipment manufacturers (OEM) for water storage tanks, expansion vessels, separators and manifolds.

As part of the Winkelmann Building+Industry business unit of the Winkelmann Group in Germany, the brand Winkelmann represents our OEM business with components and systems in buildings of all types and sizes as well as in a wide variety of industrial sectors and industries.

Comprehensive technological expertise, holistic thinking and systematic customer focus make us a reliable OEM partner developing and manufacturing customized and unique solutions.

## **Customized components and systems**

Winkelmann offers a broad range of standard products as well as customized solutions in the field of:

- ✓ **Water storage tanks**
- ✓ **Flat expansion vessels**
- ✓ **Expansion vessels & separators**
- ✓ **Manifolds**

## Our OEM competence

Your business and requirements are the starting point of operations in each project phase—from the idea, via production up to logistics. We devise solutions in collaboration with you to meet the high demands of your market.

### Customer focus—We understand your needs.

We understand your needs, the importance of your processes as well as your challenges. Our aim is becoming an integrated part of your business and thus pave the way for your success.

### Reliability—You can rely on us in each project phase.

Competent and comprehensive support by dedicated contact persons ensures the highest reliability at any point in the process—from technical coordination and production in one of our highly efficient production sites up to conceiving tried and tested logistics concepts.

### Flexibility—We create your individual solution.

We offer a broad range of standard products that, after minor modification, can be used for a wide range of applications. We also develop individual components meeting the most diversified customer demands. This applies to the geometry and material selection of the construction but also to the definition of process and quality specifications.

## Your journey with our OEM team:

1

### Idea & Concept

- initial meeting and analysis of application requirements
- development of proposal and first price estimation

2

### Co-design & Construction

- open design process
- close collaboration with our customers R&D departments
- full documentation

3

### Production

- prototyping and testing
- efficient production for a maximum of availability
- multi-stage quality control

4

### Logistics

- on-time delivery
- customised logistic and packaging concepts

5

### Optimization & Service

- further development and continuous improvements
- global support by your personal contact person

# Manifolds

In the field of heating and air-conditioning, we offer a particularly wide and high quality range of water- and steam distributing components – from our unique compact manifolds with the sine curve via hydraulic separators perfectly matched with your requirements, to custom-built buffer storage vessels. Specifically manufactured insulating materials round up our product portfolio. Whether in a single-family house or at an industrial plant, we offer optimally-coordinated solutions meeting the most diverse requirements.

- ✓ With patented sinusoidal designs
- ✓ Efficient and space-saving
- ✓ Easy to install
- ✓ For heating and cooling systems



## Innovation Prize of the German Economy

First innovation award in the world



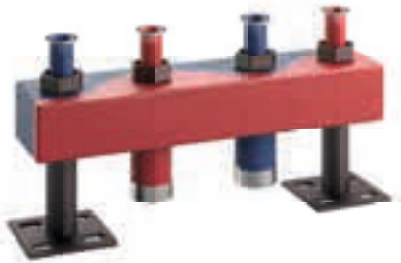
## Certified quality

The production sites have been certified according to the common standards for industrial and sustainable manufacturing. If desired, we can also deliver our products with TÜV certification (single unit acceptance).



## Efficient production

Our state-of-the-art production sites guarantee a high level of efficiency and flexibility every day. Due to modern facilities, CNC controlled plasma cutter and optimised processes, we are able to produce customised systems within a very short time.



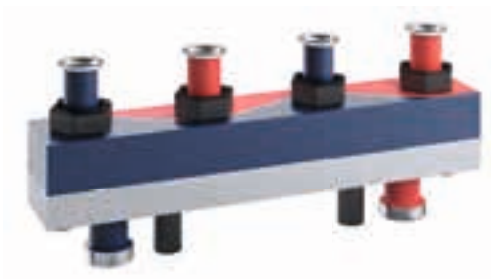
## Manifolds

- Small manifolds acc. to individual specifications
- Incl. individual insulation
- Make your choice:
  - Size of chamber
  - Distance between connections
  - Connection design



## Hydraulic separator

- Output and connections acc. to specifications
- Individual designs from 3 m<sup>3</sup>/h to 300 m<sup>3</sup>/h
- Make your choice:
  - Immersion sensor well
  - Drain / aeration set
  - Magnetite separators



## HydroFixx

### Manifold incl. hydraulic separator

- Optimum hydraulic system in any operating status
- Awarded with the Innovation Prize of the German Economy
- Fast and simple assembly





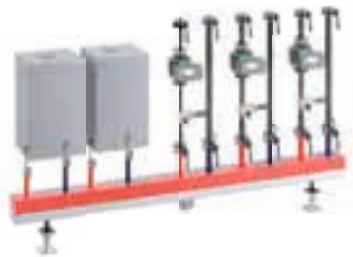
## MultiFlow Domestic

- Reduced heating costs due to low return flow temperatures
- Optimum hydraulic system with two temperature zones
- Ideal with in-floor heating and radiator combination
- Increased efficiency of the heating system due to the optimized exploitation of the calorific value



## HydroFixx cascades

- Individual connection to each type of boiler
- Space-saving miracle due to the integrated hydraulic separator
- Innovative technique for primary distribution



## Modular cascade for freestanding boilers with grooved nozzles

- Modular cascade solution especially for freestanding boilers
- Power ratings up to 1200 kW
- Special solutions for higher power ratings are possible
- Better handling of heavy components
- Optimised packaging size





## Connection sets, Adaptor pieces, Pipe groups

- Individual manufactured acc. to specifications
- Connection sets
- Complete pre-mounted groups incl. fittings
- Steel or stainless steel



Magnetite separation module



Magnetite separation module  
for small hydraulic separators



MonoFixx

## Accessories

### Maintenance box - Magnetite separation module

- suitable for the MonoFixx 80/80, as an optional extra for magnetite separation
- For attachment to the boiler return line beneath the manifold
- Enables desludging with pressurized system

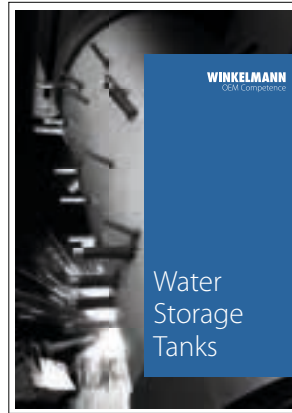
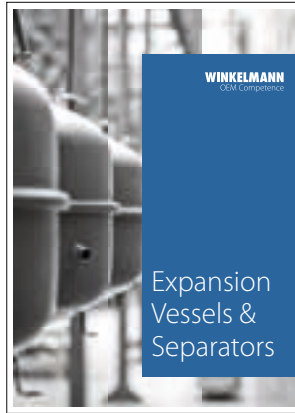
### Magnetite separation module for small hydraulic separators

- Magnetic insert for separation of ferromagnetic substances
- Enables desludging with pressurized system

### MonoFixx

- Hydraulic separator manifold for accommodation of a standard pump
- pressure-tested and primed at the factory.

Further OEM brochures available  
for the following product ranges:



OE1813en / 9126858 / 01-18 / 500  
Subject to technical changes

Get in touch with your regional contact:  
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