



WINKELMANN
OEM Competence

Water Storage Tanks

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.

Our thorough understanding for your needs, the importance of your processes as well as your current and future challenges are the core of our collaboration. We aim to become 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:

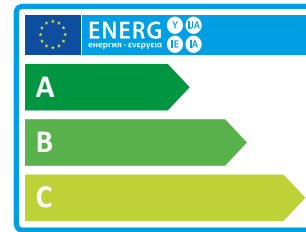
- 1** **Idea & Concept**
 - initial meeting and analysis of application requirements
 - development of proposal and first price estimation
- 2** **Co-design & Construction**
 - open design process
 - close collaboration with our customers R&D departments
 - full documentation
- 3** **Production**
 - 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

Water storage tanks

Winkelmann tanks are used to efficiently heat and store drinking water. Thanks to the large variety of different types and a comprehensive accessory programme, a multitude of applications in private houses, in public buildings and also in industrial structures is achieved.

In addition to the individual solutions from projecting to serial production level and manufacturing, we offer our customers an extensive product portfolio with various construction sizes, insulation in different variants and properties which are currently standard.

- ✓ **Hot water storage tanks**
- ✓ **Buffer tanks**
- ✓ **Accessories**
- ✓ **For heating, cooling and heat pump systems**



Energy efficiency classes A, B and C

We produce, test and supply our customer-specific products strictly in keeping with the specifications of European standards and laws (as from September 2017, for example, in conformity with the new standards and labelling requirements in keeping with ErP Directive). Therefore we offer insulation variants with energy efficiency classes A to C by using the closed-cell polyurethane foam "ecolso" or fleece.



Certified quality

The production sites have been certified according to the common standards for industrial and sustainable manufacturing. In this way, we can provide evidence of compliance with all required international standards to our OEM customers—confirmed by independent certification authorities.



Efficient production

Our modern and high efficient production sites guarantee best quality and flexibility every day. Due to automated assembly lines we are able to produce high capacities and handle great volumes within a very short time. Welding facilities and 3D plasma torches enable tool-free machining and the elimination of 5,000,000 MAG manual welding points.

Hot water storage tanks



VF-1/VB-1
100–3000

Hot water storage tanks with one heating coil

Technical Features

Energy efficiency class



- Vertical tank for all heating systems
- Corrosion resistant glass-lined, produced according to DIN 4753 T3 and EN DIN 12897
- With magnesium anode, thermometer, adjustable feet and service opening
- Tank up to 500 litres with "ecoloso" insulation and foil jacket (VF-1) or steel sheet jacket (VB-1), tanks above 500 litres with at least 100 mm fleece insulation
- Up to 2,000 litres insulation preinstalled
- Max. operating pressure: Heating water 10 bar, potable water 10 bar
- Max. operating temperature: Heating water 110°C, potable water 95°C



VF-2/VB-2
200–3000

Hot water storage tanks with two heating coils

Technical Features

Energy efficiency class



- Vertical storage tank for solar energy systems
- Corrosion resistant glass-lined, produced according to DIN 4753 T3 and EN DIN 12897
- With magnesium anode, thermometer, adjustable feet and service opening
- Tank up to 500 litres with "ecoloso" insulation and foil jacket (VF-2) or steel sheet jacket (VB-2), tanks above 500 litres with at least 100 mm fleece insulation
- Up to 2,000 litres insulation preinstalled
- Max. operating pressure: Heating water 10 bar, potable water 10 bar
- Max. operating temperature: Heating water 110°C, potable water 95°C



W-1 300–1000
W-2 300–1000

Hot water storage tanks for heat pump applications

Technical Features

Energy efficiency class



- High-efficiency tank with enlarged heating surface, for use in heat pump systems in particular or in systems with high hot water requirements
- Corrosion resistant glass-lined, produced according to DIN 4753 T3 and EN DIN 12897
- With magnesium anode and thermometer, adjustable feet and service opening
- With 1 1/2" coupling
- Tank up to 500 litres with "ecoloso" insulation and foil jacket, tanks above 500 litres with 100 mm fleece insulation
- Insulation preinstalled
- Max. operating pressure: Heating water 10 bar, potable water 10 bar
- Max. operating temperature: Heating water 110°C, potable water 95°C

Hot water storage tanks



V-LS
200–3000

Charging tanks

Technical Features

Energy efficiency class

C

- Vertical tank for hot water heating purposes by using external charging systems
- Corrosion resistant glass-lined, produced according to DIN 4753 T3 and EN DIN 12897
- With magnesium anode, thermometer and adjustable feet
- With up to four flanges for additional heat sources depending on tank size
- Tank up to 500 litres with "ecoloso" insulation and foil jacket, tanks above 500 litres with at least 100 mm fleece insulation
- Up to 2,000 litres insulation preinstalled
- Max. operating pressure: Potable water 10 bar
- Max. operating temperature: Potable water 95°C



V-AO 120/160
V-US 150/250

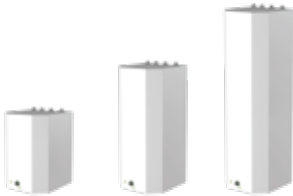
Hot water storage tanks compact

Technical Features

Energy efficiency class

B

- Tank in compact design for all heating installations, in horizontal position (type US) or vertical position (type AO)
- Corrosion resistant glass-lined, produced according to DIN 4753 T3 and EN DIN 12897
- With magnesium anode, thermometer and insulation preinstalled
- Max. operating pressure: Heating water 10 bar, potable water 10 bar
- Max. operating temperature: Heating water 110°C, potable water 95°C



V-WH...-1
V-WH...-1/E
V-WH...E
60/110/160

Hot water storage tanks compact, wall-hung

Technical Features

Energy efficiency class

B C

- Corrosion resistant glass-lined, produced according to DIN 4753 T3 and EN DIN 12897
- Wall-hung tanks in compact design, suitable with all conventional energy sources
- Variant E (electrical heating element) with high-quality ceramic immersion heater without contact with potable water
- Steel sheet jacket with "ecoloso" insulation system
- For AC.../1E-W and AC.../E-W: Capacity 3,000 W at 400 V or 1,000 W at 230 V
Regulating range: 7°C–85°C, shut-down at 110°C
- Max. operating pressure: Heating water 10 bar, potable water 10 bar
- Max. operating temperature: Heating water 110°C, potable water 95°C

Buffer tanks



V-PH 300–2000
V-PHF 300–5000
V-PHW 300–5000

Buffer tanks with or without service flange and with or without coil for heating systems

Technical Features

Energy efficiency class

C

- Tank container from S235JRG2 (RSt 37-2) quality steel for heating applications; buffer tank for cooling systems available on demand
- Tank interior untreated, exterior powder-coated
- Up to 2,000 litres insulation preinstalled
- Fleece insulation with foil jacket (up to 1,000 litres with 100 mm insulation, above 1,000 litres with 120 mm insulation)
- Max. operating pressure: Tank 3 bar (from 1,500: 6 bar)
- Max. operating temperature: Tank 95°C



V-EWS...-1
500–1000
V-EWS...-2
500–1000

Combination tanks for heating and hot water preparation, with one or two heating coils

Technical Features

Energy efficiency class

C

- Tank container from S235JRG2 (RSt 37-2) quality steel for heating application
- Combined storage tank permits heating support by simultaneous heating sources for sanitary water
- Potable water heating in continuous flow principle (stainless steel corrugated pipe)
- Tank interior untreated
- Fleece insulation with foil jacket (up to 1,000 litres with 100 mm insulation, above 1,000 litres with 120 mm insulation) preinstalled
- Max. operating pressure: Tank 3 bar, heating water 10 bar, potable water 6 bar
- Max. operating temperature: Tank 95°C, heating water 110°C, potable water 95°C

Accessories on demand



Screw-in electric heating element 1 ½"



Flange-type electric heating element



Ribbed-pipe heat exchanger

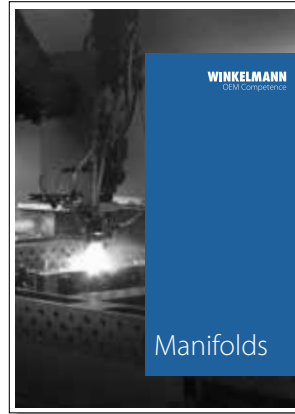


Magnesium protective anodes



Impressed-current anodes

Further OEM brochures available
for the following product ranges:



OET1801en / 9126854 / 01-18 / 500
Subject to technical changes

Get in touch with your regional contact:
Telephone: +49 2382 7069-0
www.winkelmann-oem.com/contact



PART OF
WINKELMANN
BUILDING+INDUSTRY

WINKELMANN
OEM Competence

Winkelmann Water Storage GmbH
Heinrich-Winkelmann-Platz 1
59227 Ahlen/Germany

www.winkelmann-oem.com