THERMIC SOL

The power of the sun
in the right hands

SOLAR THERMAL SYSTEMS OF HIGH PERFORMANCE & QUALITY

www.thermicsol.com

Dear partners

You have the Thermic catalog in your hands.

I asked my team to build a comprehensive catalog
for our product range and fully functional for our partners.

The result justifies my expectation, and I want to thank
all the Thermic team for working on a very demanding project.

I hope that the new Thermic catalog will be a tool
in your daily business life, fulfilling my goal.

Our company supports your business by offering
the best products at competitive prices
and delivery times

Elias Kastrisios
CEO

THERMIC SOL

contents

About us

We manufacture complete solar thermal systems with high performance and aesthetics for plenty of hot water and great energy savings

THERMIC is using the most advanced technology, manufactures and disposes many products on the market:

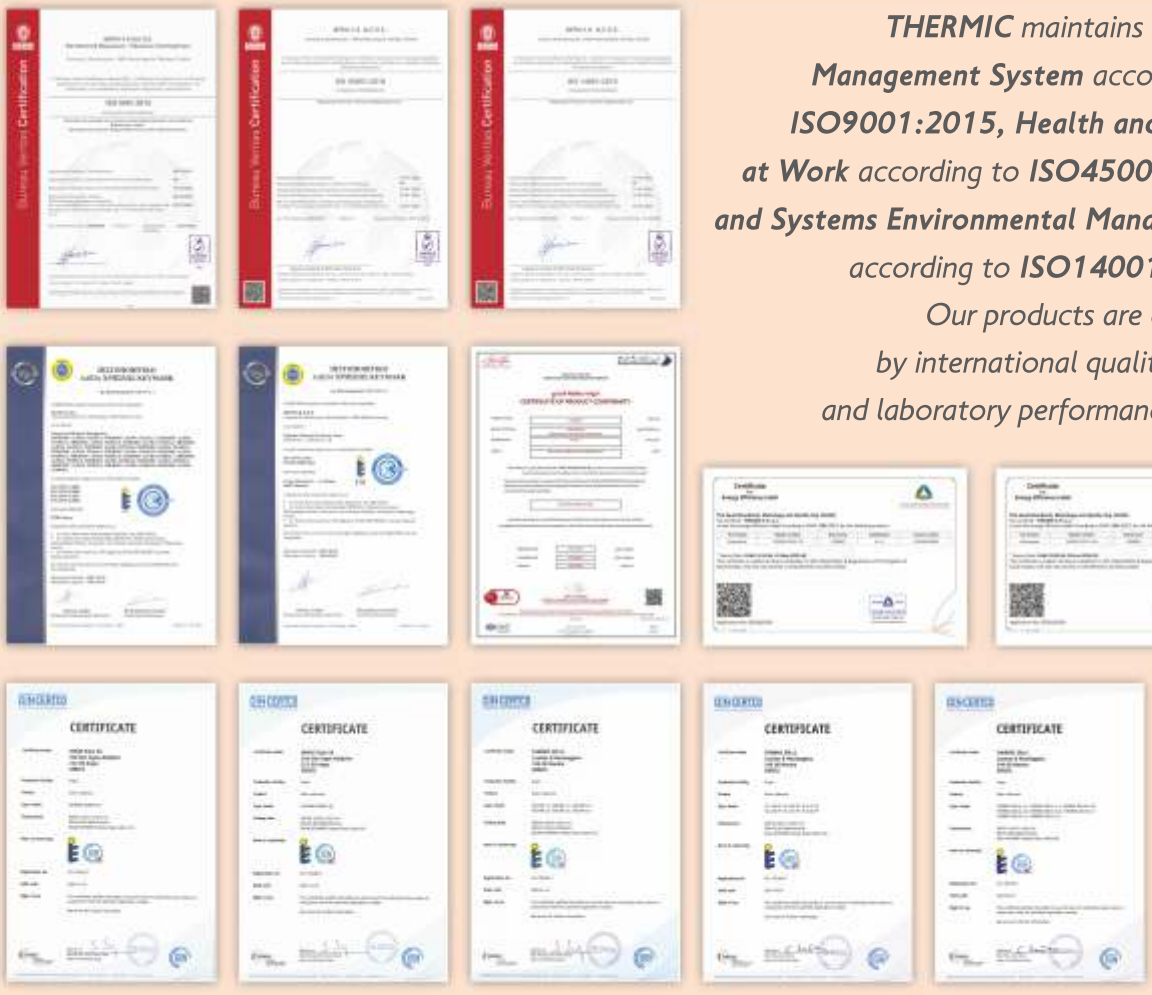
- Solar water heater sets
- Floor standing vertical tanks
- Electric water heaters
- Buffer tanks
- Heat pumps

Our goal always remains the same, excellent quality and continuous product improvement, as well as the best customer service and satisfaction. This is achieved by the continuous upgrading of our factory equipment, the use of quality raw materials and trained manpower.

THERMIC with its multi-year experience as manufacturer has created credibility and a strong name in the international market of solar thermal systems.

Our company owns two factories with a total production area go **7.500m²** in Mandra and Magoula, regions of Attica, near Athens.

With machinery of advanced robotic technology, we manage covering all need for standardized products or custom according to required specifications.



*THERMIC maintains **Quality Management System** according to **ISO9001:2015, Health and Safety at Work** according to **ISO45001:2018** and **Systems Environmental Management** according to **ISO14001:2015.** Our products are certified by international quality marks and laboratory performance tests.*

THERMIC SOL

BETTER every day with NEW ROBOTIC technology

SOLAR WATER HEATERS

- PERFORMANCE
- RELIABILITY
- DURABILITY

www.thermicsol.com

THERMICSOL

ALPHA GLASS DELTA Solar Water Heater Sets

WRAS
WATER REGULATIONS ADVISORY SCHEME

All our storage tanks bear the Energy Efficiency Label and are manufactured using WRAS-approved materials suitable for potable water.

Complying to the European standars specification EN 12976-2 having:

- Steel according to EN 10130 A1 DCP01-03/EK - thickness 2.5 mm
- Pre-painted galvanized steel external cladding - thickness 0.5 mm
- Eco-friendly polyurethane insulation, density **42kg/m^3**, thickness 50 mm, thermal conductivity λ=0.0192 W/mK
- Anti-corrosion protection with enamel coating according to DIN 4753 suitable for potable water
- Magnesium anode according to EN 12438
- Large flange Ø140 mm for easy inspection and maintenance
- High-quality brass connection components
- Available in capacities from 80 L to 500 L
- Double energy: solar + backup electric heater
- Triple energy: solar + backup electric heater + additional coil for connection to a heat pump or auxiliary heat source
- Anodized aluminium collector frame **85 mm**
- High-efficiency full plate aluminium absorber with selective coating
- 3.2 mm tempered prismatic solar glass
- Special design for improved performance even in areas with hard water and high limescale formation
- Fast and reliable hot water supply
- Quick and easy installation
- Space-saving design
- **Long service life and reliability**

*** EXTERNAL CLADDING COLOURS**
Colored galvanized steel

RAL 9006 RAL 9007 RAL 9010

**extra charge*
RAL 8017
* Upon request

OPTIONAL EXTERNAL CLADDING MATERIALSEN
**extra charge*

STAINLESS STEEL 430 BA* (magnetic)
* Upon request

STAINLESS STEEL 304 BA* (non-magnetic)
* Upon request

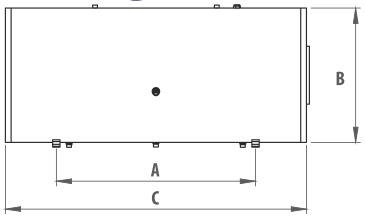
Solar water heater ALPHA GLASS DELTA sets

SET CODE	COLECTOR CODE	COLLECTORS PER SET	COLLECTOR SURFACE
A.GLC.80D/1/1.50.UR	DELTA 1.50	1	1.51m²
A.GLC.120D/1/1.50.UR	DELTA 1.50	1	1.51m²
A.GLC.120D/1/1.70.UR	DELTA 1.70	1	1.68m²
A.GLC.120D/1/2.00.UR	DELTA 2.00	1	2.02m²
A.GLC.150D/1/2.00.UR	DELTA 2.00	1	2.02m²
A.GLC.150D/1/2.30.UR	DELTA 2.30	1	2.24m²
A.GLC.150D/1/2.50.UR	DELTA 2.50	1	2.53m²
A.GLC.150D/2/1.50.UR	DELTA 1.50	2	1.51m²
A.GLC.160D/1/2.00.UR	DELTA 2.00	1	2.02m²
A.GLC.160D/1/2.30.UR	DELTA 2.30	1	2.24m²
A.GLC.160D/1/2.50.UR	DELTA 2.50	1	2.53m²
A.GLC.160D/2/1.50.UR	DELTA 1.50	2	3.02m²
A.GLC.160D/1/3.00.UR	DELTA 3.00	1	2.93m²
A.GLC.200D/1/2.00.UR	DELTA 2.00	1	2.02m²
A.GLC.200D/1/2.30.UR	DELTA 2.30	1	2.24m²
A.GLC.200D/1/2.50.UR	DELTA 2.50	1	2.53m²
A.GLC.200D/2/1.50.UR	DELTA 1.50	2	3.02m²
A.GLC.200D/2/2.00.UR	DELTA 2.00	2	4.04m²
A.GLC.300D/2/2.00.UR	DELTA 2.00	2	4.04m²
A.GLC.300D/2/2.50.UR	DELTA 2.50	2	5.06m²
A.GLC.300D/2/3.00.UR	DELTA 3.00	2	5.86m²
A.GLC.300D/3/2.00.UR	DELTA 2.00	3	6.06m²
A.GLC.500D/2/3.00.UR	DELTA 3.00	2	5.86m²

Solar Collector

CODE	AREA (m^2)	DIMENSIONS (mm)
DELTA 1.5	1.51m²	1501x1007x85
DELTA 1.7	1.68m²	1420x1183x85
DELTA 2.0H	1.96m²	1503x1305x85
DELTA 2.0	2.02m²	2006x1007x85
DELTA 2.25	2.24m²	1893x1183x85
DELTA 2.5	2.53m²	2008x1258x85
DELTA 2.7	2.67m²	2260x1183x85
DELTA 3.0	2.93m²	2007x1458x85

Storage Tank



TYPE	A SUPPORT BRACKET DISTANCE (mm)	B DIAMETER (mm)	C LENGTH (mm)	CAPACITY (lit)
80	640	500	800	75
120	860	500	1000	112
150	860/1080	500	1250	136
160	860/1080	530	1250	158
200	1080	580	1250	190
300	1080	580	1800	290
500	1080	700	1950	486

THERMICSOL

ALPHA GLASS TS-FP Solar Water Heater Sets

WRAS
WATER REGULATIONS ADVISORY SCHEME

All our storage tanks bear the Energy Efficiency Label and are manufactured using WRAS-approved materials suitable for potable water.

Complying to the European standars specification EN 12976-2 having:

- Steel according to EN 10130 A1 DCP01-03/EK - thickness 2.5 mm
- Pre-painted galvanized steel external cladding - thickness 0.5 mm
- Eco-friendly polyurethane insulation, density **42kg/m^3**, thickness 50 mm, thermal conductivity λ = 0.0192 W/mK
- Anti-corrosion protection with enamel coating according to DIN 4753 suitable for potable water
- Magnesium anode according to EN 12438
- Large flange Ø140 mm for easy inspection and maintenance
- High-quality brass connection components
- Available in capacities from 80 L to 500 L
- Double energy: solar + backup electric heater
- Triple energy: solar + backup electric heater + additional coil for connection to a heat pump or auxiliary heat source
- Anodized aluminium collector frame **103 mm**
- High-efficiency full plate aluminium absorber with selective coating
- 3.2 mm tempered prismatic solar glass
- 40 mm mineral wool rear collector insulation, thermal conductivity λ = 0.034 W/mK
- Special design for improved performance even in areas with hard water and high limescale formation
- Fast and reliable hot water supply
- Quick and easy installation
- Space-saving design
- **Long service life and reliability**

*** EXTERNAL CLADDING COLOURS**
Colored galvanized steel
RAL 9006 RAL 9007 RAL 9010

**extra charge*
RAL 8017
* Upon request

OPTIONAL EXTERNAL CLADDING MATERIALSEN
**extra charge*
STAINLESS STEEL 430 BA* (magnetic)
* Upon request

STAINLESS STEEL 304 BA* (non-magnetic)
* Upon request

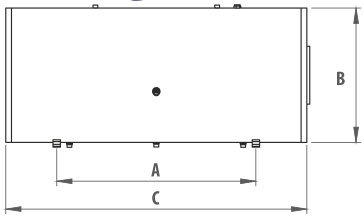
Solar water heater ALPHA GLASS TS-FP sets

SET CODE	COLECTOR CODE	COLLECTORS PER SET	COLLECTOR SURFACE
TS.GLC.80D/1/1.50.UR	TS-FP 1.50	1	1.51m²
TS.GLC.120D/1/1.50.UR	TS-FP 1.50	1	1.51m²
TS.GLC.120D/1/1.70.UR	TS-FP 1.70	1	1.68m²
TS.GLC.120D/1/2.00.UR	TS-FP 2.00	1	2.02m²
TS.GLC.150D/1/2.00.UR	TS-FP 2.00	1	2.02m²
TS.GLC.150D/1/2.30.UR	TS-FP 2.30	1	2.24m²
TS.GLC.150D/1/2.50.UR	TS-FP 2.50	1	2.53m²
TS.GLC.150D/2/1.50.UR	TS-FP 1.50	2	1.51m²
TS.GLC.160D/1/2.00.UR	TS-FP 2.00	1	2.02m²
TS.GLC.160D/1/2.30.UR	TS-FP 2.30	1	2.24m²
TS.GLC.160D/1/2.50.UR	TS-FP 2.50	1	2.53m²
TS.GLC.160D/2/1.50.UR	TS-FP 1.50	2	3.02m²
TS.GLC.160D/1/3.00.UR	TS-FP 3.00	1	2.93m²
TS.GLC.200D/1/2.00.UR	TS-FP 2.00	1	2.02m²
TS.GLC.200D/1/2.30.UR	TS-FP 2.30	1	2.24m²
TS.GLC.200D/1/2.50.UR	TS-FP 2.50	1	2.53m²
TS.GLC.200D/2/1.50.UR	TS-FP 1.50	2	3.02m²
TS.GLC.200D/2/2.00.UR	TS-FP 2.00	2	4.04m²
TS.GLC.300D/2/2.00.UR	TS-FP 2.00	2	4.04m²
TS.GLC.300D/2/2.50.UR	TS-FP 2.50	2	5.06m²
TS.GLC.300D/2/3.00.UR	TS-FP 3.00	2	5.86m²
TS.GLC.300D/3/2.00.UR	TS-FP 2.00	3	6.06m²
TS.GLC.500D/2/3.00.UR	TS-FP 3.00	2	5.86m²

Solar Collector

CODE	AREA (m^2)	DIMENSIONS (mm)
TS-FP 1.5	1.51 m^2	1501x1007x103
TS-FP 1.9	1.96 m^2	1503x1305x103
TS-FP 2.0	2.02 m^2	2006x1007x103
TS-FP 2.25	2.24 m^2	1893x1183x103
TS-FP 2.5	2.52 m^2	2006x1257x103
TS-FP 2.7	2.67 m^2	2261x1183x103
TS-FP 3.0	2.92 m^2	2006x1258x103

Storage Tank



TYPE	A SUPPORT BRACKET DISTANCE (mm)	B DIAMETER (mm)	C LENGTH (mm)	CAPACITY (lit)
80	640	500	800	75
120	860	500	1000	112
150	860/1080	500	1250	136
160	860/1080	530	1250	158
200	1080	580	1250	190
300	1080	580	1800	290
500	1080	700	1950	486

ALPHA GLASS CRONOS Solar Water Heater Sets

All our storage tanks bear the Energy Efficiency Label and are manufactured using WRAS-approved materials suitable for potable water.

Complying to the European standars specification EN 12976-2 having:

- Steel according to EN 10130 A1 DCP01-03/EK - thickness 2.5 mm
- Pre-painted galvanized steel external cladding - thickness 0.5 mm
- Eco-friendly polyurethane insulation, density **42kg/m^3**, thickness 50 mm, thermal conductivity λ = 0.0192 W/mK
- Anti-corrosion protection with enamel coating according to DIN 4753 suitable for potable water
- Magnesium anode according to EN 12438
- Large flange Ø140 mm for easy inspection and maintenance
- High-quality brass connection components
- Available in capacities from 160 L to 300 L
- Double energy: solar + backup electric heater
- Triple energy: solar + backup electric heater + additional coil for connection to a heat pump or auxiliary heat source
- Anodized aluminium collector frame **102 mm**
- High-efficiency full plate aluminium absorber with selective coating
- 3.2 mm tempered prismatic solar glass
- 50 mm glass wool rear collector insulation, thermal conductivity λ = 0.032 W/mK
- Special design for improved performance even in areas with hard water and high limescale formation
- Fast and reliable hot water supply
- Quick and easy installation
- Space-saving design
- **Long service life and reliability**

*** EXTERNAL CLADDING COLOURS**
Colored galvanized steel
RAL 9006 RAL 9007 RAL 9010

**extra charge*
RAL 8017
* Upon request

OPTIONAL EXTERNAL CLADDING MATERIALSEN
**extra charge*
STAINLESS STEEL 430 BA* (magnetic)
* Upon request

STAINLESS STEEL 304 BA* (non-magnetic)
* Upon request

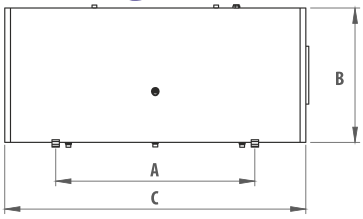
Solar water heater ALPHA GLASS CRONOS sets

SET CODE	COLECTOR CODE	COLLECTORS PER SET	COLLECTOR SURFACE
CR.GLS.160D/1/2.70.UR	CRONOS 2.70	1	2.73m²
CR.GLS.200D/1/2.70.UR	CRONOS 2.70	1	2.73m²
CR.GLS.200D/2/2.70.UR	CRONOS 2.70	2	5.46m²
CR.GLS.300D/2/2.70.UR	CRONOS 2.70	2	5.46m²

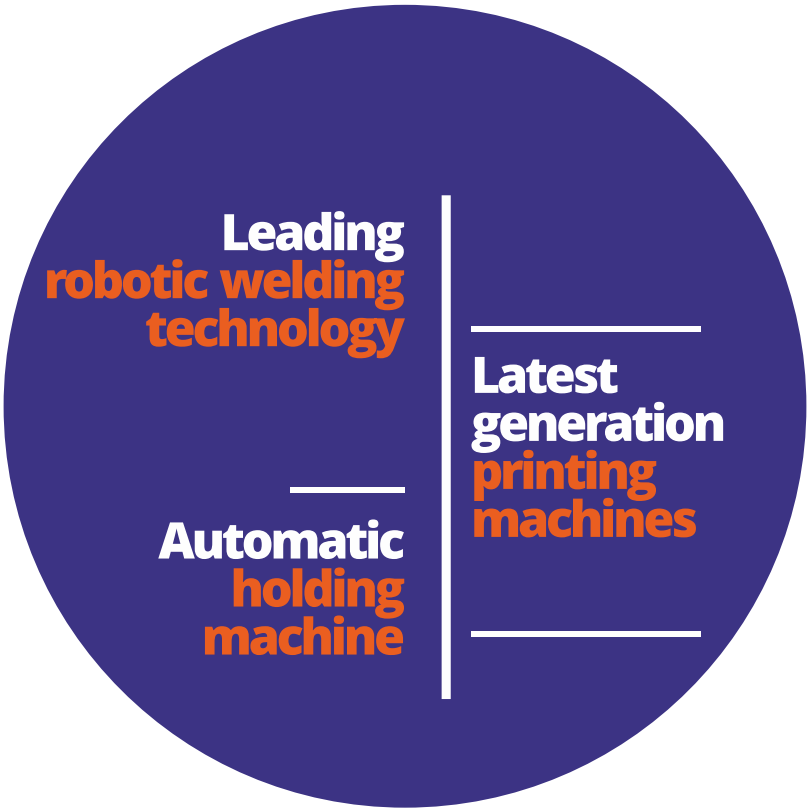
Solar Collector

CODE	AREA (m^2)	DIMENSIONS (mm)
CRONOS 2.7	2.72 m^2	2161x1263x102
CRONOS 2.7H	2.71 m^2	1263x2161x102

Storage Tank



TYPE	SUPPORT BRACKET DISTANCE (mm)	DIAMETER (mm)	LENGTH (mm)	CAPACITY (lit)
160	860/1080	530	1250	158
200	1080	580	1250	190
300	1080	580	1800	290



THERMICSOL

ALPHA INOX DELTA Solar Water Heater Sets

WRAS
WATER REGULATIONS ADVISORY SCHEME

All our storage tanks bear the Energy Efficiency Label and are manufactured using WRAS-approved materials suitable for potable water.

Complying to the European standars specification EN 12976-2 having:

- Stainless steel Hi-Mo SS316L - thickness 1.5 or 2.0 mm
- TIG welding with robotic technology
- Pre-painted galvanized steel external cladding - thickness 0.5 mm
- Eco-friendly polyurethane insulation, density **42kg/m^3**, thickness 50 mm, thermal conductivity λ = 0.0192 W/mK
- Magnesium anode according to EN 12438
- Large flange Ø140 mm for easy inspection and maintenance
- High-quality stainless steel SS316L connection components

- Available in capacities from 120 L to 500 L
- Double energy: solar + backup electric heater
- Triple energy: solar + backup electric heater + additional coil for connection to a heat pump or auxiliary heat source

- Anodized aluminium collector frame **85 mm**
- High-efficiency full plate aluminium absorber with selective coating
- 3.2 mm tempered prismatic solar glass

- Special design for improved performance even in areas with hard water and high limescale formation

- Fast and reliable hot water supply
- Quick and easy installation
- Space-saving design
- **Long service life and reliability**

*** EXTERNAL CLADDING COLOURS**
Colored galvanized steel
RAL 9006 RAL 9007 RAL 9010

**extra charge*
RAL 8017
* Upon request

OPTIONAL EXTERNAL CLADDING MATERIALSEN
**extra charge*
STAINLESS STEEL 430 BA* (magnetic)
* Upon request

STAINLESS STEEL 304 BA* (non-magnetic)
* Upon request

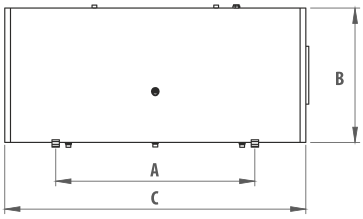
Solar water heater ALPHA INOX DELTA sets

SET CODE	COLECTOR CODE	COLLECTORS PER SET	COLLECTOR SURFACE
A.INC.120D/1/1.50.UR	DELTA 1.50	1	1.51m²
A.INC.120D/1/1.70.UR	DELTA 1.70	1	1.68m²
A.INC.120D/1/2.00.UR	DELTA 2.00	1	2.02m²
A.INC.150D/1/2.00.UR	DELTA 2.00	1	2.02m²
A.INC.150D/1/2.30.UR	DELTA 2.30	1	2.24m²
A.INC.150D/1/2.50.UR	DELTA 2.50	1	2.53m²
A.INC.150D/2/1.50.UR	DELTA 1.50	2	1.51m²
A.INC.160D/1/2.00.UR	DELTA 2.00	1	2.02m²
A.INC.160D/1/2.30.UR	DELTA 2.30	1	2.24m²
A.INC.160D/1/2.50.UR	DELTA 2.50	1	2.53m²
A.INC.160D/2/1.50.UR	DELTA 1.50	2	3.02m²
A.INC.160D/1/3.00.UR	DELTA 3.00	1	2.93m²
A.INC.200D/1/2.00.UR	DELTA 2.00	1	2.02m²
A.INC.200D/1/2.30.UR	DELTA 2.30	1	2.24m²
A.INC.200D/1/2.50.UR	DELTA 2.50	1	2.53m²
A.INC.200D/2/1.50.UR	DELTA 1.50	2	3.02m²
A.INC.200D/2/2.00.UR	DELTA 2.00	2	4.04m²
A.INC.300D/2/2.00.UR	DELTA 2.00	2	4.04m²
A.INC.300D/2/2.50.UR	DELTA 2.50	2	5.06m²
A.INC.300D/2/3.00.UR	DELTA 3.00	2	5.86m²
A.INC.300D/3/2.00.UR	DELTA 2.00	3	6.06m²
A.INC.500D/2/3.00.UR	DELTA 3.00	2	5.86m²

Solar Collector

CODE	AREA (m^2)	DIMENSIONS (mm)
DELTA 1.5	1.51m²	1501x1007x85
DELTA 1.7	1.68m²	1420x1183x85
DELTA 2.0H	1.96m²	1503x1305x85
DELTA 2.0	2.02m²	2006x1007x85
DELTA 2.25	2.24m²	1893x1183x85
DELTA 2.5	2.53m²	2008x1258x85
DELTA 2.7	2.67m²	2260x1183x85
DELTA 3.0	2.93m²	2007x1458x85

Stainless Steel Storage Tank



TYPE	A SUPPORT BRACKET DISTANCE (mm)	B DIAMETER (mm)	C LENGTH (mm)	CAPACITY (lit)
120	860	500	1000	112
150	860/1080	500	1250	136
160	860/1080	530	1250	158
200	1080	580	1250	190
300	1080	580	1800	290
500	1080	700	1950	486

ALPHA INOX TS-FP Solar Water Heater Sets

WRAS
WATER REGULATIONS ADVISORY SCHEME

All our storage tanks bear the Energy Efficiency Label and are manufactured using WRAS-approved materials suitable for potable water.

Complying to the European standars specification EN 12976-2 having:

- Stainless steel Hi-Mo SS316L - thickness 1.5 or 2.0 mm
- TIG welding with robotic technology
- Pre-painted galvanized steel external cladding - thickness 0.5 mm
- Eco-friendly polyurethane insulation, density **42kg/m^3**, thickness 50 mm, thermal conductivity λ = 0.0192 W/mK
- Magnesium anode according to EN 12438
- Large flange Ø140 mm for easy inspection and maintenance
- High-quality stainless steel SS316L connection components

- Available in capacities from 120 L to 500 L
- Double energy: solar + backup electric heater
- Triple energy: solar + backup electric heater + additional coil for connection to a heat pump or auxiliary heat source

- Anodized aluminium collector frame **103 mm**
- High-efficiency full plate aluminium absorber with selective coating
- 3.2 mm tempered prismatic solar glass
- 40 mm mineral wool rear collector insulation, thermal conductivity λ = 0.034 W/mK

- Special design for improved performance even in areas with hard water and high limescale formation

- Fast and reliable hot water supply
- Quick and easy installation
- Space-saving design
- **Long service life and reliability**

*** EXTERNAL CLADDING COLOURS**
Colored galvanized steel

RAL 9006 RAL 9007 RAL 9010

**extra charge*
RAL 8017
* Upon request

OPTIONAL EXTERNAL CLADDING MATERIALSEN
**extra charge*

STAINLESS STEEL 430 BA* (magnetic)
* Upon request

STAINLESS STEEL 304 BA* (non-magnetic)
* Upon request

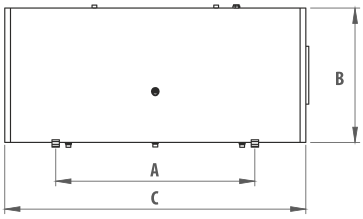
Solar water heater ALPHA INOX TS-FP sets

SET CODE	COLECTOR CODE	COLLECTORS PER SET	COLLECTOR SURFACE
TS.INC.120D/1/1.50.UR	TS-FP 1.50	1	1.51m²
TS.INC.120D/1/1.70.UR	TS-FP 1.70	1	1.68m²
TS.INC.120D/1/2.00.UR	TS-FP 2.00	1	2.02m²
TS.INC.150D/1/2.00.UR	TS-FP 2.00	1	2.02m²
TS.INC.150D/1/2.30.UR	TS-FP 2.30	1	2.24m²
TS.INC.150D/1/2.50.UR	TS-FP 2.50	1	2.53m²
TS.INC.150D/2/1.50.UR	TS-FP 1.50	2	1.51m²
TS.INC.160D/1/2.00.UR	TS-FP 2.00	1	2.02m²
TS.INC.160D/1/2.30.UR	TS-FP 2.30	1	2.24m²
TS.INC.160D/1/2.50.UR	TS-FP 2.50	1	2.53m²
TS.INC.160D/2/1.50.UR	TS-FP 1.50	2	3.02m²
TS.INC.160D/1/3.00.UR	TS-FP 3.00	1	2.93m²
TS.INC.200D/1/2.00.UR	TS-FP 2.00	1	2.02m²
TS.INC.200D/1/2.30.UR	TS-FP 2.30	1	2.24m²
TS.INC.200D/1/2.50.UR	TS-FP 2.50	1	2.53m²
TS.INC.200D/2/1.50.UR	TS-FP 1.50	2	3.02m²
TS.INC.200D/2/2.00.UR	TS-FP 2.00	2	4.04m²
TS.INC.300D/2/2.00.UR	TS-FP 2.00	2	4.04m²
TS.INC.300D/2/2.50.UR	TS-FP 2.50	2	5.06m²
TS.INC.300D/2/3.00.UR	TS-FP 3.00	2	5.86m²
TS.INC.300D/3/2.00.UR	TS-FP 2.00	3	6.06m²
TS.INC.500D/2/3.00.UR	TS-FP 3.00	2	5.86m²

Solar Collector

CODE	AREA (m^2)	DIMENSIONS (mm)
TS-FP 1.5	1.51 m^2	1501x1007x103
TS-FP 1.9	1.96 m^2	1503x1305x103
TS-FP 2.0	2.02 m^2	2006x1007x103
TS-FP 2.25	2.24 m^2	1893x1183x103
TS-FP 2.5	2.52 m^2	2006x1257x103
TS-FP 2.7	2.67 m^2	2261x1183x103
TS-FP 3.0	2.92 m^2	2006x1258x103

Stainless Steel Storage Tank



TYPE	A SUPPORT BRACKET DISTANCE (mm)	B DIAMETER (mm)	C LENGTH (mm)	CAPACITY (lit)
120	860	500	1000	112
150	860/1080	500	1250	136
160	860/1080	530	1250	158
200	1080	580	1250	190
300	1080	580	1800	290
500	1080	700	1950	486

ALPHA INOX CRONOS Solar Water Heater Sets

All our storage tanks bear the Energy Efficiency Label and are manufactured using WRAS-approved materials suitable for potable water.

Complying to the European standars specification EN 12976-2 having:

- Stainless steel Hi-Mo SS316L - thickness 1.5 or 2.0 mm
- TIG welding with robotic technology
- Pre-painted galvanized steel external cladding - thickness 0.5 mm
- Eco-friendly polyurethane insulation, density **42kg/m^3**, thickness 50 mm, thermal conductivity λ = 0.0192 W/mK
- Magnesium anode according to EN 12438
- Large flange Ø140 mm for easy inspection and maintenance
- High-quality stainless steel SS316L connection components

- Available in capacities from 160 L to 300 L
- Double energy: solar + backup electric heater
- Triple energy: solar + backup electric heater + additional coil for connection to a heat pump or auxiliary heat source

- Anodized aluminium collector frame **102 mm**
- High-efficiency full plate aluminium absorber with selective coating
- 3.2 mm tempered prismatic solar glass
- 50 mm glass wool rear collector insulation, thermal conductivity λ = 0.032 W/mK

- Special design for improved performance even in areas with hard water and high limescale formation

- Fast and reliable hot water supply
- Quick and easy installation
- Space-saving design
- **Long service life and reliability**

*** EXTERNAL CLADDING COLOURS**
Colored galvanized steel

RAL 9006 RAL 9007 RAL 9010

**extra charge*

RAL 8017

* Upon request

OPTIONAL EXTERNAL CLADDING MATERIALSEN

**extra charge*

STAINLESS STEEL 430 BA* (magnetic)
* Upon request

STAINLESS STEEL 304 BA* (non-magnetic)
* Upon request

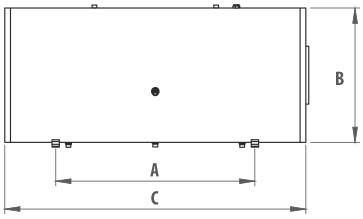
Solar water heater ALPHA INOX CRONOS sets

SET CODE	COLECTOR CODE	COLLECTORS PER SET	COLLECTOR SURFACE
CR.GLS.160D/1/2.70.UR	CRONOS 2.70	1	2.73m²
CR.GLS.200D/1/2.70.UR	CRONOS 2.70	1	2.73m²
CR.GLS.200D/2/2.70.UR	CRONOS 2.70	2	5.46m²
CR.GLS.300D/2/2.70.UR	CRONOS 2.70	2	5.46m²

Solar Collector

CODE	AREA (m^2)	DIMENSIONS (mm)
CRONOS 2.7	2.72 m^2	2161x1263x102
CRONOS 2.7H	2.71 m^2	1263x2161x102

Stainless Steel Storage Tank



TYPE	A SUPPORT BRACKET DISTANCE (mm)	B DIAMETER (mm)	C LENGTH (mm)	CAPACITY (lit)
160	860/1080	530	1250	158
200	1080	580	1250	190
300	1080	580	1800	290

PERFORMANCE
RELIABILITY
DURABILITY

THERMIC SOL

The power of the sun in the right hands

STORAGE TANKS

- PERFORMANCE
- RELIABILITY
- DURABILITY

GLASS enamelled horizontal storage tanks

- Steel according to EN 10130 A1 DCP01-03/EK - thickness 2.5 mm
- Pre-painted galvanized steel external cladding - thickness 0.5 mm
- Automated MIG welding with robotic technology
- Eco-friendly polyurethane insulation, density **42kg/m^3**, thickness 50 mm, thermal conductivity λ = 0.0192 W/mK
- Anti-corrosion protection with enamel coating according to DIN 4753 suitable for potable water
- Magnesium anode according to EN 12438
- Large flange Ø140 mm for easy inspection and maintenance
- High-quality brass connection components
- Double energy: solar + backup electric heater
- Triple energy: solar + backup electric heater + additional coil for connection to a heat pump or auxiliary heat source
- Special design for improved performance even in areas with hard water and high limescale formation.

WRAS

CE

Available in capacities from 80L to 500L

Tanks with capacities above 160 L are also available with side fittings instead of central fittings (extra charge).

Tanks with capacities above 160 L are also available with a full-length heat exchanger for operation with a heat pump.

*** EXTERNAL CLADDING COLOURS**

Colored galvanized steel

RAL 9006 RAL 9007 RAL 9010

extra charge

RAL 8017

* Upon request

OPTIONAL EXTERNAL CLADDING MATERIALSEN

extra charge

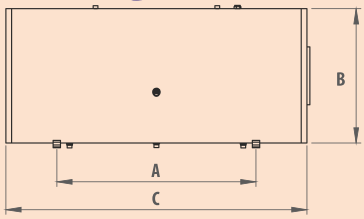
STAINLESS STEEL 430 BA* (magnetic)

* Upon request

STAINLESS STEEL 304 BA* (non-magnetic)

* Upon request

Storage Tank



TYPE	A SUPPORT BRACKET DISTANCE (mm)	B DIAMETER (mm)	C LENGTH (mm)	ACTUAL CAPACITY (mm)
80	640	500	800	75
120	860	500	1000	112
150	860/1080	500	1250	136
160	860/1080	530	1250	158
200	1080	580	1250	190
300	1080	580	1800	290
500	1080	700	1950	486

Stainless steel horizontal storage tanks

- Stainless steel Hi-Mo SS316L - thickness 1.5 or 2.0 mm
- TIG welding with robotic technology
- Pre-painted galvanized steel external cladding - thickness 0.5 mm
- Eco-friendly polyurethane insulation, density **42kg/m^3**, thickness 50 mm, thermal conductivity λ = 0.0192 W/mK
- Magnesium anode according to EN 12438
- Large flange Ø140 mm for easy inspection and maintenance
- High-quality stainless steel SS316L connection components
- Double energy: solar + backup electric heater
- Triple energy: solar + backup electric heater + additional coil for connection to a heat pump or auxiliary heat source
- Special design for improved performance even in areas with hard water and high limescale formation

CE

Available in capacities from 120L to 500L

Tanks with capacities above 160 L are also available with side fittings instead of central fittings (extra charge).
Tanks with capacities above 160 L are also available with a full-length heat exchanger for operation with a heat pump.

*** EXTERNAL CLADDING COLOURS**
Colored galvanized steel

RAL 9006 RAL 9007 RAL 9010

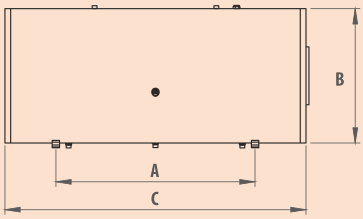
extra charge
RAL 8017
* Upon request

OPTIONAL EXTERNAL CLADDING MATERIALSEN
extra charge

STAINLESS STEEL 430 BA* (magnetic)
* Upon request

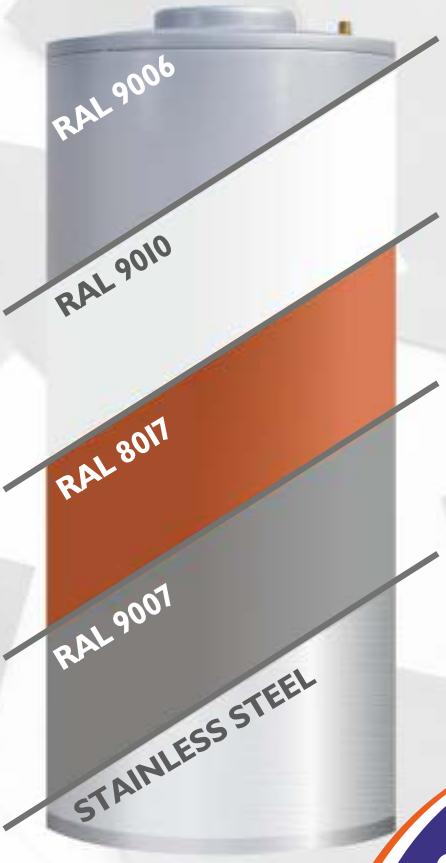
STAINLESS STEEL 304 BA* (non-magnetic)
* Upon request

Stainless Steel Storage Tank



TYPE	A SUPPORT BRACKET DISTANCE (mm)	B DIAMETER (mm)	C LENGTH (mm)	ACTUAL CAPACITY (mm)
120	860	500	1000	112
150	860/1080	500	1250	136
160	860/1080	530	1250	158
200	1080	580	1250	190
300	1080	580	1800	290
500	1080	700	1950	486

CHOOSE THE COLOUR FOR YOUR TANKS

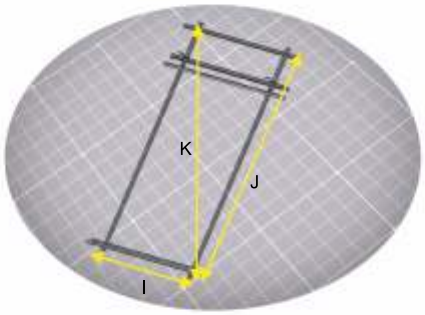


Our tanks are manufactured from recyclable steel according to Green Steel Certificate 7722-60

FRAME DIMENSIONS

All our frames are made of
Magnelis galvanized steel
** Versions of SS316L available*
as custom models upon request

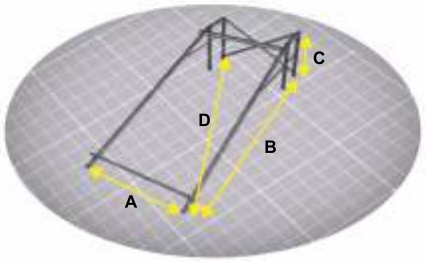
Universal support frame for complete natural circulation SWH sets



0°

Assembly dimensions for universal 0°

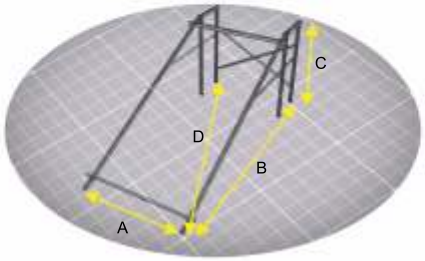
TYPE	I (mm)	K (mm)	J (mm)
Tank + 1/2.0m²	1127	2406	2657
Tank + 1/2.5m²	1127	2408	2659
Tank + 2/1.5m²	1128	1901	2263
Tank + 2/2.0m²	1127	2406	2657
Tank + 2/2.7m²	1255	2561	2852



15°

Assembly dimensions for universal 15°

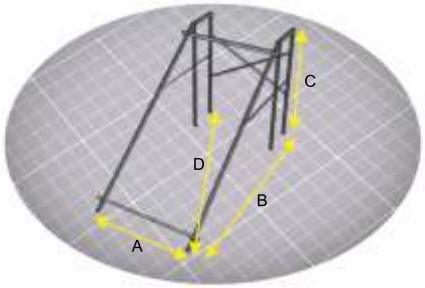
TYPE	A (mm)	B (mm)	C (mm)	D (mm)
Tank + 1/2.0m²	888	2621	605	2767
Tank + 1/2.5m²	1080	2621	605	2846
Tank + 2/1.5m²	1080	2159	480	2427
Tank + 2/2.0m²	1080	2621	605	2846
Tank + 2/2.7m²	1080	2754	670	2969



30°

Assembly dimensions for universal 30°

TYPE	A (mm)	B (mm)	C (mm)	D (mm)
Tank + 1/2.0m²	888	2409	1100	2567
Tank + 1/2.5m²	1080	2409	1100	2652
Tank + 2/1.5m²	1080	1997	860	2284
Tank + 2/2.0m²	1080	2409	1100	2652
Tank + 2/2.7m²	1080	2504	1230	2738

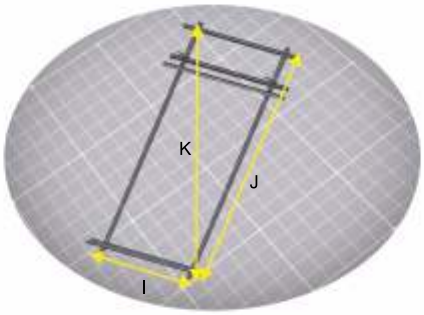


45°

Assembly dimensions for universal 45°

TYPE	A (mm)	B (mm)	C (mm)	D (mm)
Tank + 1/2.0m²	888	2122	1490	2300
Tank + 1/2.5m²	1080	2122	1490	2394
Tank + 2/1.5m²	1080	1738	1200	2061
Tank + 2/2.0m²	1080	2122	1490	2394
Tank + 2/2.7m²	1080	2315	1490	2566

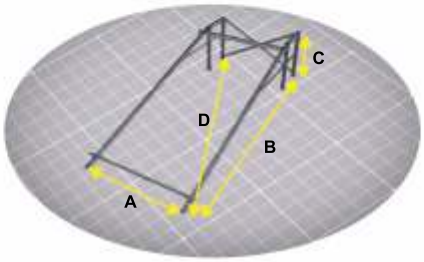
Universal support frame
for forced circulation DHW systems (collector only)



0°

Assembly dimensions for universal 0°

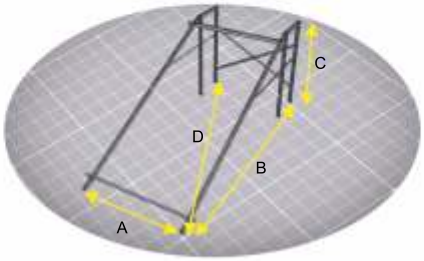
TYPE	I (mm)	K (mm)	J (mm)
Tank + 1/2.0m²	1080	2006	2515
Tank + 1/2.5m²	1080	2008	2517
Tank + 2/1.5m²	1228	1501	1939
Tank + 2/2.0m²	1517	2006	2515
Tank + 2/2.7m²	1517	2161	2640



15°

Assembly dimensions for universal 15°

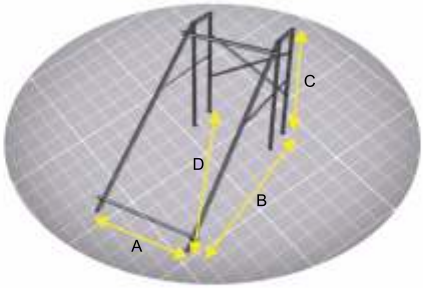
TYPE	A (mm)	B (mm)	C (mm)	D (mm)
Tank + 1/2.0m²	888	2184	605	2358
Tank + 1/2.5m²	1080	2184	605	2449
Tank + 2/1.5m²	1080	1724	480	2049
Tank + 2/2.0m²	1080	2184	605	2049
Tank + 2/2.7m²	1080	2317	670	2568



30°

Assembly dimensions for universal 30°

TYPE	A (mm)	B (mm)	C (mm)	D (mm)
Tank + 1/2.0m²	888	1972	1100	2163
Tank + 1/2.5m²	1080	1972	1100	2262
Tank + 2/1.5m²	1080	1560	860	1913
Tank + 2/2.0m²	1080	1972	1100	2262
Tank + 2/2.7m²	1080	2067	1230	2345



45°

Assembly dimensions for universal 45°

TYPE	A (mm)	B (mm)	C (mm)	D (mm)
Tank + 1/2.0m²	888	1685	1490	1905
Tank + 1/2.5m²	1080	1685	1490	2017
Tank + 2/1.5m²	1080	1301	1200	1709
Tank + 2/2.0m²	1080	1685	1490	2017
Tank + 2/2.7m²	1080	1878	1490	2180

THERMIC SOL

The power of the sun in the right hands

SOLAR THERMAL COLLECTORS

- *Solar Keymark certified*
- *Quality assurance*
- *High efficiency*
- *Suitable for open or closed circuit*

Thermic DELTA Collectors

- Anodized aluminium collector frame - **85 mm** profile
- **Full plate** aluminium absorber with blue selective coating
- Harp-type hydraulic grid made of Ø8 copper tubes laser-welded to the absorber surface for immediate heat transfer
- 3.2 mm prismatic tempered solar glass, low-iron, high-transmittance front cover

Würzburg 50°C :
1.5 = 719 kWh/m², 1.7 = 800 kWh/m²
2.0 = 961 kWh/m², 2.0H = 933 kWh/m²
2.25 = 1.066 kWh/m², 2.5 = 1.199 kWh/m²
2.7 = 1.271 kWh/m², 3.0 = 1.390 kWh/m²

PART NUMBER	GROSS AREA (m²)	DIMENSIONS (mm)
DELTA 1.5	1.51 m²	1501x1007x85
DELTA 1.7	1.68 m²	1420x1183x85
DELTA 2.0	2.02 m²	2006x1007x85
DELTA 2.0.H	2.02 m²	1007x2006x85
DELTA 2.25	2.24 m²	1893x1183x85
DELTA 2.5	2.53 m²	2008x1258x85
DELTA 2.7	2.67 m²	2260x1183x85
DELTA 3.0	2.93 m²	2007x1458x85

Performance parameters test method	Quasi dynamic				
Performance parameters (related to AG)	n0,b	a1	a2	a5	Kd
Units	-	W/(m²K)	W/(m²K²)	J/(m²K)	-
Test results	0.725	3.62	0.006	13 660	0.99

Thermic TS-FP Collectors

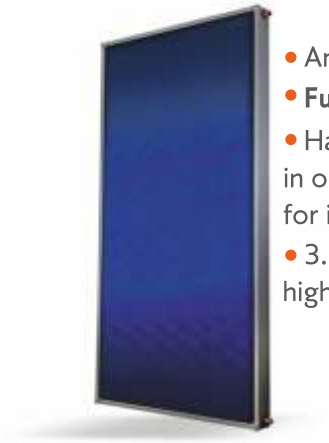
- Anodized aluminium collector frame - **103 mm** profile
- **Full plate** aluminium absorber with blue selective coating
- Harp-type hydraulic grid made of Ø8 copper tubes laser-welded to the absorber surface for immediate heat transfer
- 3.2 mm prismatic tempered solar glass, low-iron, high-transmittance front cover

Würzburg 50°C :
1.90 = 980 kWh/m²
2.0 = 1.010 kWh/m²,
2.25 = 1.121 kWh/m²,
2.5 = 1.261 kWh/m²,
2.7 = 1.336 kWh/m²,
3.0 = 1.461 kWh/m²

PART NUMBER	GROSS AREA (m²)	DIMENSIONS (mm)
TS-FP 1.5	1.51 m²	1501x1007x103
TS-FP 1.9	1.96 m²	1503x1305x103
TS-FP 2.0	2.02 m²	2006x1007x103
TS-FP 2.25	2.24 m²	1893x1183x103
TS-FP 2.5	2.52 m²	2006x1257x103
TS-FP 2.7	2.67 m²	2261x1183x103
TS-FP 3.0	2.92 m²	2006x1258x103

Performance parameters test method	Quasi dynamic						
Performance parameters (related to AG)	n0,b	c1	c2	c3	c4	c6	Kd
Units	-	W/(m²K)	W/(m²K²)	J/(m³K)	-	s/m	-
Test results	0.727	3.286	0.010	0.000	0.000	0.000	0.959

Thermic CRONOS Collectors



- Anodized aluminium collector frame - **102 mm** profile
- **Full plate** aluminium absorber with blue selective coating
- Harp-type hydraulic grid made of Ø15 copper tubes for use in open-loop systems, laser-welded to the absorber surface for immediate heat transfer
- 3.2 mm prismatic tempered solar glass, low-iron, high-transmittance front cover

Würzburg 50°C :
2.7 = 1.517 kWh/m²
2.7H = 1.517 kWh/m²

PART NUMBER	GROSS AREA (m²)	DIMENSIONS (mm)
CRONOS 2.7	2.73 m²	2161x1263x102
CRONOS 2.7H	2.73 m²	1263x2161x103

Performance parameters test method	Steady state - outdoor				
Performance parameters (related to A_G)	n0,b	a1	a2	a5	Kd
Units	-	W/(m²K)	W/(m²K²)	J/(m²K)	-
Test results	0.799	2.48	0.025	9 797	0.90

Thermic SUPRA Collectors

- Anodized aluminium collector frame - **85 mm** profile
- **Full plate** aluminium absorber with blue selective coating
- Harp-type hydraulic grid made of Ø8 copper tubes for use in open-loop systems, laser-welded to the absorber surface for immediate heat transfer
- 3.2 mm prismatic tempered solar glass, low-iron, high-transmittance front cover

Würzburg 50°C :
2.5 = 1.385 kWh/m²
2.9 = 1.605 kWh/m² ,
3.3 = 1.808 kWh/m²

PART NUMBER	GROSS AREA (m²)	DIMENSIONS (mm)
SUPRA 2.5	2.52 m²	2006x1257x85
SUPRA 2.9	2.92 m²	2006x1457x85
SUPRA 3.3	3.29 m²	2261x1457x85

Performance parameters test method	Steady state - outdoor				
Performance parameters (related to A_G)	n0,b	a1	a2	a5	Kd
Units	-	W/(m²K)	W/(m²K²)	J/(m²K)	-
Test results	0.736	3.28	0.012	20060	0.94

HECTOR Collectors (for Open-Loop Systems)

- Anodized aluminium collector frame - **85 mm** profile
- **Full plate** aluminium absorber with blue selective coating
- Harp-type hydraulic grid made of Ø15 copper tubes for use in open-loop systems, laser-welded to the absorber surface for immediate heat transfer
- 3.2 mm prismatic tempered solar glass, low-iron, high-transmittance front cover

Würzburg 50°C :
1.5 = 661 kWh/m^2 ,
1.7 = 736 kWh/m^2
2.0 = 859 kWh/m^2 ,
2.3 = 981 kWh/m^2 ,
2.5 = 1.104 kWh/m^2,
2.7 = 1.276 kWh/m^2,
2.9 = 1.396 kWh/m^2

PART NUMBER	GROSS AREA (m²)	DIMENSIONS (mm)
HECTOR 1.50	1.51 m²	1501x1007x85
HECTOR 1.70	1.68 m²	1420x1183x85
HECTOR 1.90	2.02 m²	2006x1007x85
HECTOR 2.00	1.96 m²	1503x1305x85
HECTOR 2.30	2.24 m²	1893x1183x85
HECTOR 2.50	2.53 m²	2008x1258x85
HECTOR 2.7	2.67 m²	2260x1183x85
HECTOR 2.9	2.93 m²	2007x1458x85

Performance parameters test method	Quasi dynamic				
Performance parameters (related to AG)	n0,b	a1	a2	a5	Kd
Units	-	W/(m²K)	W/(m²K²)	J/(m²K)	-
Test results	0.701	3.62	0.008	17 941	0.98

PERFORMANCE
RELIABILITY
DURABILITY

VERTICAL DHW STORAGE TANKS

FOR FORCED CIRCULATION SYSTEMS 150L-1000L

- Steel according to EN 10130 A1 DCP01-03/EK
- Pre-painted galvanized steel external cladding - thickness 0.5 mm
- Eco-friendly polyurethane insulation, density 42 kg/m^3, thickness 50 mm, thermal conductivity λ = 0.0192 W/mK
- Optional PVC external insulation with soft polyurethane foam, 100 mm thickness and colored PVC fabric removable with zipper
- Anti-corrosion protection with enamel coating according to DIN 4753 suitable for potable water
- Magnesium anode(s) according to EN 12438
- Available in capacities from 150 L to 1000 L
- Double energy: solar + backup electric heater
- Triple energy: solar + backup electric heater + additional coil for connection to a heat pump or auxiliary heat source
- Special design for improved performance even in areas with hard water and high limescale formation
- Antibacterial internal coating suitable for potable water
- Height-adjustable supports for floor leveling

THERMIC manufactures its vertical DHW storage tanks in accordance with European standards and offers capacities from 150 to 1000 litres. They are available with one or two coil heat exchangers (serpentines). A backup electric heater is also available at extra cost, and the tanks include provisions for temperature sensors, thermometer, recirculation, etc.

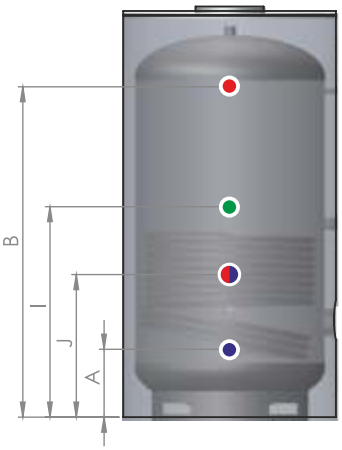
WRAS

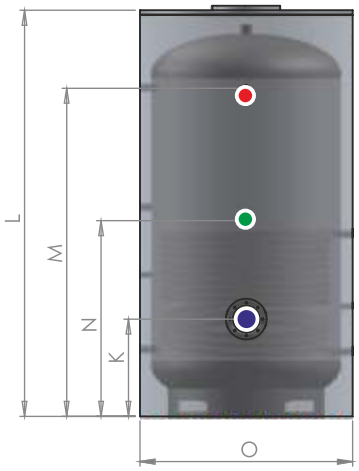
CE

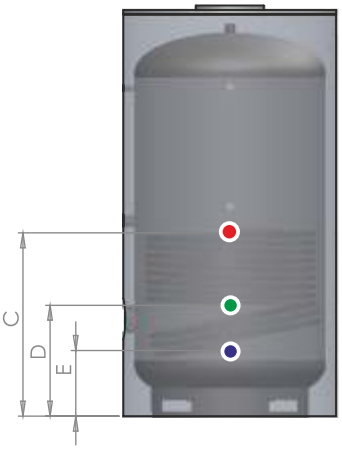
ALL TANKS ARE ALSO AVAILABLE IN STAINLESS STEEL 316L

All tanks are also available in Stainless Steel 316L (non-enameled) with the same characteristics, dimensions and capacities.

Vertical DHW storage tanks with single coil type exchanger







- **Material:** steel sheet according to EN 10130:2006 DCP01-03/EK
- **External cladding:** pre-painted galvanized steel sheet 0.5 mm (EN 10204 / 2.2)
- **Welding:** automated MIG welding with robotic technology
- **Internal anti-corrosion protection:** enamel coating (DIN 4753-3) with magnesium anode (EN 12438)
- **Maximum operating temperature:** 95°C
- **Insulation with metal cladding:** rigid polyurethane foam, 50 mm thickness, density 42 kg/m^3 (DIN 53420)
- **Insulation with PVC cladding:** soft polyurethane foam 100 mm thickness (for 750 L & 1000 L)
- **Heat exchanger:** steel coil type
- **Heat exchanger test pressure:** 25 bar
- **Magnesium anode:** size depending on tank capacity
- **Electric back-up heater:** optional (not included), available in various power ratings (kW)

Also available with metal cladding for 750 L & 1000 L tanks.

Specifications

	MODEL	BLLTGL150/1ME	BLLTGL200/1ME	BLLTGL300/1ME	BLLTGL500/1ME	BLLTGL750/1ME BLLTGL750/1SE	BLLTGL1000/1ME BLLTGL1000/1SE
	Tank capacity (L)	134	183	277	470	756	938
	Heat exchanger capacity (L)	4.5	5	7.2	12	13.5	21
	Heat exchanger surface area (m²)	0.5	0.85	1.18	1.42	2.0	3.3
	Heat exchanger connection (in)	3/4"	1"	1"	1"	1"	1"
A	Cold water inlet (mm)	200	200	235	225	335	340
B	Hot water outlet (mm)	1040	1040	1615	1655	1495	1750
C	Heat exchanger inlet (mm)	605	610	850	840	845	1115
D	Temperature sensor pocket (mm)	375	370	405	465	525	580
E	Heat exchanger outlet (mm)	210	200	250	220	325	350
I	Magnesium anode connection (mm)*	*	*	*	1040	965	1220
J	Recirculation connection (mm)	635	640	938	765	665	620
K	Cleaning flange (mm)**	375	390	370	435	465	570
L	Total height (mm)	1250	1250	1800	1920	1800	2100
M	Thermometer connection (mm)	950	900	1500	1655	1485	1720
N	Electric heater port (mm)	675	670	1040	910	910	1160
O	Diameter with metal cladding (mm)	500	580	580	700	940	940
	Diameter with PVC cladding (mm)	-	-	-	-	1040	1040
	Internal tank diameter (mm)	400	480	480	600	840	840
	Max. operating pressure (bar)	8	8	8	8	8	8
	Max. test pressure (bar)	12	12	12	12	12	12
	Weight with PVC cladding (kg)	-	-	-	-	205	275
	Weight with metal cladding (kg)	63.5	80	110	160	235	305
	PVC insulation thickness (mm)	-	-	-	-	100	
	Metal cladding insulation thickness (mm)	50					

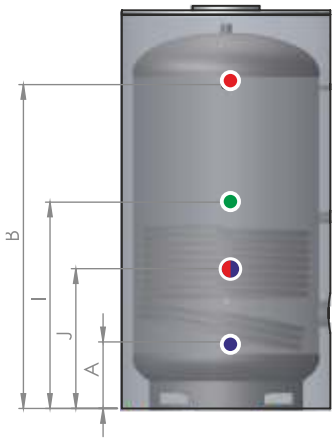
Hydraulic connections

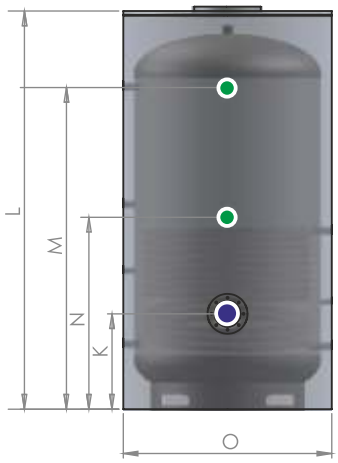
	MODEL	BLLTGL150/1ME	BLLTGL200/1ME	BLLTGL300/1ME	BLLTGL500/1ME	BLLTGL750/1ME BLLTGL750/1SE	BLLTGL1000/1ME BLLTGL1000/1SE
A	Cold water inlet	1"	1"	1"	1"	1"	1"
B	Hot water outlet	1"	1"	1"	1"	1"	1"
C	Heat exchanger inlet	3/4"	1"	1"	1"	1"	1"
D	Temperature sensor pocket	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
E	Heat exchanger outlet	3/4"	1"	1"	1"	1"	1"
I	Magnesium anode connection	-	-	-	1"	1"	1"
J	Recirculation connection	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
M	Thermometer connection	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
N	Electric heater port	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"

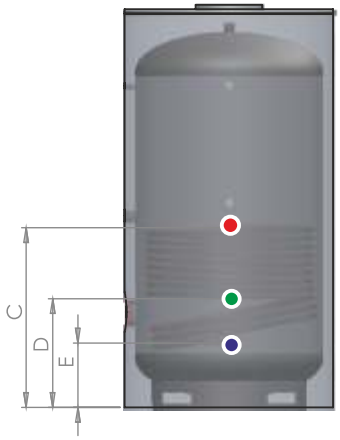
- For all vertical DHW storage tanks and solar water heating systems in operation, it is necessary to install an expansion vessel, a safety valve, and anodic protection in the domestic hot water circuit.

- The magnesium anode is installed at the top of the tank using a 1" or 1 1/4" connection. For tanks with capacities above 500 L, a second anode is installed at the position indicated in the drawing position I.

Vertical DHW storage tanks with single long coil type exchanger for heat pump







- **Material:** steel sheet according to EN 10130:2006 DCP01-03/EK
- **External cladding:** pre-painted galvanized steel sheet 0.5 mm (EN 10204 / 2.2)
- **Welding:** automated MIG welding with robotic technology
- **Internal anti-corrosion protection:** enamel coating (DIN 4753-3) with magnesium anode (EN 12438)
- **Maximum operating temperature:** 95°C
- **Insulation with metal cladding:** rigid polyurethane foam, 50 mm thickness, density 42 kg/m^3 (DIN 53420)
- **Insulation with PVC cladding:** soft polyurethane foam 100 mm thickness (for 750 L & 1000 L)
- **Heat exchanger:** steel coil type
- **Heat exchanger test pressure:** 25 bar
- **Magnesium anode:** size depending on tank capacity
- **Electric back-up heater:** optional (not included), available in various power ratings (kW)

Also available with metal cladding for 750 L & 1000 L tanks.

Specifications

	MODEL	BLLTGL150/1LE	BLLTGL200/1LE	BLLTGL300/1LE	BLLTGL500/1LE	BLLTGL750/1LE/ME BLLTGL750/1LE	BLLTGL1000/1LE/ME BLLTGL1000/1LE
	Tank capacity (L)	132	180	274	453	745	924
	Heat exchanger capacity (L)	5.90	7.70	10.80	13.00	21.20	34.70
	Heat exchanger surface area (m²)	1.00	1.97	2.80	3.90	5.00	5.95
	Heat exchanger connection (in)	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
A	Cold water inlet (mm)	200	200	235	225	335	340
B	Hot water outlet (mm)	1040	1040	1615	1655	1495	1750
C	Heat exchanger inlet (mm)	605	610	850	840	845	1115
D	Temperature sensor pocket (mm)	375	370	405	465	525	580
E	Heat exchanger outlet (mm)	210	200	250	220	325	350
I	Magnesium anode connection (mm)*	*	*	*	1040	965	1220
J	Recirculation connection (mm)	635	640	938	765	665	620
K	Cleaning flange (mm)**	375	390	370	435	465	570
L	Total height (mm)	1250	1250	1800	1920	1800	2100
M	Thermometer connection (mm)	950	900	1500	1655	1485	1720
N	Electric heater port (mm)	675	670	1040	910	910	1160
O	Diameter with metal cladding (mm)	500	580	580	700	940	940
	Diameter with PVC cladding (mm)	-	-	-	-	1040	1040
	Internal tank diameter (mm)	400	480	480	600	840	840
	Max. operating pressure (bar)	8	8	8	8	8	8
	Max. test pressure (bar)	12	12	12	12	12	12
	Weight with PVC cladding (kg)	-	-	-	-	223	285
	Weight with metal cladding (kg)	65.5	84	120	168	239	320
	PVC insulation thickness (mm)	-	-	-	-	100	
	Metal cladding insulation thickness (mm)	50					

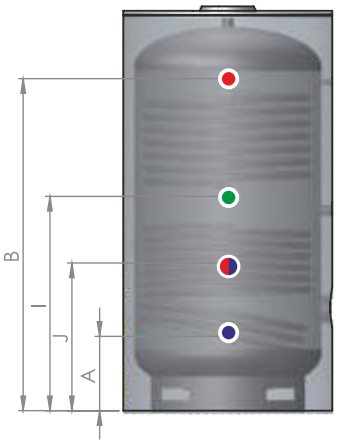
Hydraulic connections

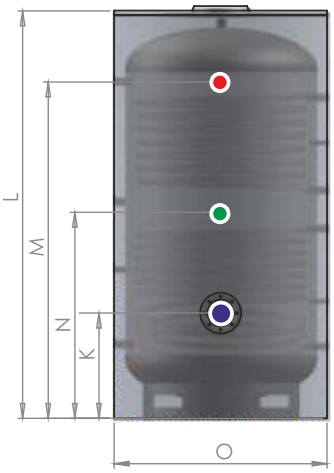
	MODEL	BLLTGL150/1LE	BLLTGL200/1LE	BLLTGL300/1LE	BLLTGL500/1LE	BLLTGL750/1LE/ME BLLTGL750/1LE	BLLTGL1000/1LE/ME BLLTGL1000/1LE
A	Cold water inlet	1"	1"	1"	1"	1"	1"
B	Hot water outlet	1"	1"	1"	1"	1"	1"
C	Heat exchanger inlet	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
D	Temperature sensor pocket	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
E	Heat exchanger outlet	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
I	Magnesium anode connection	-	-	-	1"	1"	1"
J	Recirculation connection	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
M	Thermometer connection	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
N	Electric heater port	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"

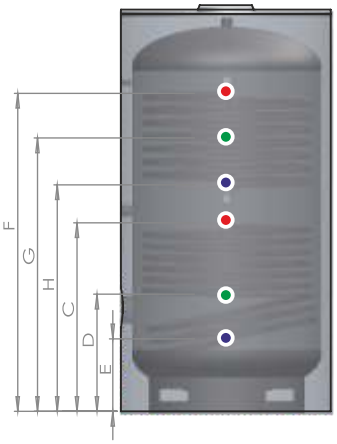
- For all vertical DHW storage tanks and solar water heating systems in operation, it is necessary to install an expansion vessel, a safety valve, and anodic protection in the domestic hot water circuit.

- The magnesium anode is installed at the top of the tank using a 1" or 1 1/4" connection. For tanks with capacities above 500 L, a second anode is installed at the position indicated in the drawing position I.

Vertical DHW storage tanks with double coil type exchanger







- **Material:** steel sheet according to EN 10130:2006 DCP01-03/EK
- **External cladding:** pre-painted galvanized steel sheet 0.5 mm (EN 10204 / 2.2)
- **Welding:** automated MIG welding with robotic technology
- **Internal anti-corrosion protection:** enamel coating (DIN 4753-3) with magnesium anode (EN 12438)
- **Maximum operating temperature:** 95°C
- **Insulation with metal cladding:** rigid polyurethane foam, 50 mm thickness, density 42 kg/m^3 (DIN 53420)
- **Insulation with PVC cladding:** soft polyurethane foam 100 mm thickness (for 750 L & 1000 L)
- **Heat exchanger:** steel coil type
- **Heat exchanger test pressure:** 25 bar
- **Magnesium anode:** size depending on tank capacity
- **Electric back-up heater:** optional (not included), available in various power ratings (kW)

Also available with metal cladding for 750 L & 1000 L tanks.

Specifications

	MODEL	BLLTGL150/2/ME	BLLTGL200/2/ME	BLLTGL300/2/ME	BLLTGL500/2/ME	BLLTGL750/2/ME BLLTGL750/2/SE	BLLTGL1000/2/ME BLLTGL1000/2/SE
	Tank capacity (L)	131	178	270	460	741	922
	Lower heat exchanger capacity (L)	4.5	5	7.2	12	13.5	21
	Upper heat exchanger capacity (L)	2.8	3.5	5.2	5.6	10.3	13
	Lower heat exchanger surface area (m²)	0.5	0.85	1.18	1.42	2.0	3.3
	Upper heat exchanger surface area (m²)	0.3	0,48	0.83	0.93	1.52	1.9
	Lower heat exchanger connection (in)	3/4"	1"	1"	1"	1"	1"
	Upper heat exchanger connection (in)	3/4"	1"	1"	1"	1"	1"
A	Cold water inlet (mm)	200	200	235	225	335	340
B	Hot water outlet (mm)	1040	1040	1615	1655	1495	1750
C	Lower heat exchanger inlet (mm)	605	610	850	840	845	1115
D	Temperature sensor pocket (mm)	375	370	405	465	525	580
E	Lower heat exchanger outlet (mm)	210	200	250	220	325	350
F	Upper heat exchanger inlet (mm)	1025	1040	1570	1655	1425	1740
G	Temperature sensor pocket (mm)	875	920	1360	1370	1225	1560
H	Upper heat exchanger outlet (mm)	755	760	1150	1155	1015	1290
I	Magnesium anode connection (mm)*	*	*	*	1040	965	1220
J	Recirculation connection (mm)	635	640	938	765	665	620
K	Cleaning flange (mm)**	375	390	370	435	465	570
L	Total height (mm)	1250	1250	1800	1920	1780	2020
M	Thermometer connection (mm)	950	900	1500	1655	1485	1720
N	Electric heater port (mm)	675	670	1040	910	910	1160
O	Diameter with metal cladding (mm)	500	580	580	700	940	940
	Diameter with PVC cladding (mm)	-	-	-	-	1040	1040
	Internal tank diameter (mm)	400	480	480	600	840	840
	Max. operating pressure (bar)	8	8	8	8	8	8
	Max. test pressure (bar)	12	12	12	12	12	12
	Weight with PVC cladding (kg)	-	-	-	-	250	310
	Weight with metal cladding (kg)	73.5	89.5	122.5	180	272	345
	PVC insulation thickness (mm)	-	-	-	-	100	
	Metal cladding insulation thickness (mm)	50					

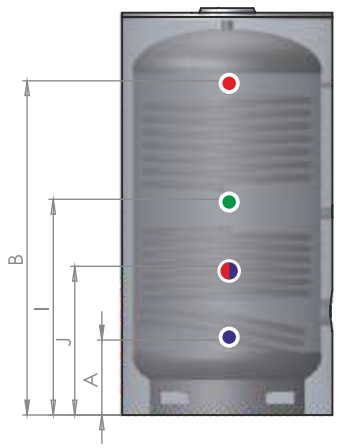
Hydraulic connections

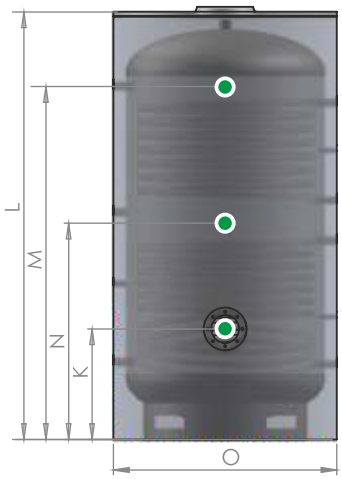
	MODEL	BLLTGL150/2/ME	BLLTGL200/2/ME	BLLTGL300/2/ME	BLLTGL500/2/ME	BLLTGL750/2/ME BLLTGL750/2/SE	BLLTGL1000/2/ME BLLTGL1000/2/SE
A	Cold water inlet	1"	1"	1"	1"	1"	1"
B	Hot water outlet	1"	1"	1"	1"	1"	1"
C	Lower heat exchanger inlet	3/4"	1"	1"	1"	1"	1"
D	Temperature sensor pocket	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
E	Lower heat exchanger outlet	3/4"	1"	1"	1"	1"	1"
F	Upper heat exchanger inlet	3/4"	1"	1"	1"	1"	1"
G	Temperature sensor pocket	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
H	Upper heat exchanger outlet	3/4"	1"	1"	1"	1"	1"
I	Magnesium anode connection	-	-	-	1"	1"	1"
J	Recirculation connection	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
M	Thermometer connection	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
N	Electric heater port	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"

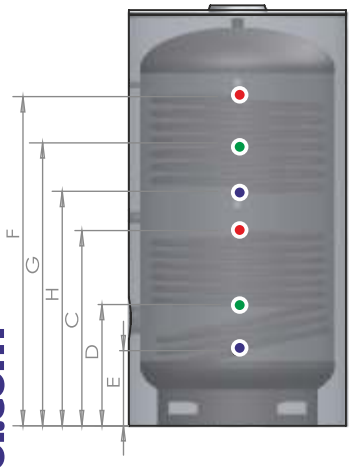
- For all vertical DHW storage tanks and solar water heating systems in operation, it is necessary to install an expansion vessel, a safety valve, and anodic protection in the domestic hot water circuit.

- The magnesium anode is installed at the top of the tank using a 1" or 1 1/4" connection. For tanks with capacities above 500 L, a second anode is installed at the position indicated in the drawing position I.

Vertical DHW storage tanks with double coil type heat exchangers for heat pump (standard + long)







- **Material:** steel sheet according to EN 10130:2006 DCP01-03/EK
- **External cladding:** pre-painted galvanized steel sheet 0.5 mm (EN 10204 / 2.2)
- **Welding:** automated MIG welding with robotic technology
- **Internal anti-corrosion protection:** enamel coating (DIN 4753-3) with magnesium anode (EN 12438)
- **Maximum operating temperature:** 95°C
- **Insulation with metal cladding:** rigid polyurethane foam, 50 mm thickness, density 42 kg/m^3 (DIN 53420)
- **Insulation with PVC cladding:** soft polyurethane foam 100 mm thickness (for 750 L & 1000 L)
- **Heat exchanger:** steel coil type
- **Heat exchanger test pressure:** 25 bar
- **Magnesium anode:** size depending on tank capacity
- **Electric back-up heater:** optional (not included), available in various power ratings (kW)

Also available with metal cladding for 750 L & 1000 L tanks.

Specifications

	MODEL	BLLTGL200/2LE	BLLTGL300/2LE	BLLTGL500/2LE	BLLTGL750/2LE/ME BLLTGL750/2LE	BLLTGL1000/2LE/ME BLLTGL1000/2LE
	Tank capacity (L)	174	267	453	736	907
	Lower heat exchanger capacity (L)	7.7	10.8	13	21.2	34.7
	Upper heat exchanger capacity (L)	3.5	5.2	5.6	10.3	13
	Lower heat exchanger surface area (m²)	1.97	2.8	3.9	5	5.95
	Upper heat exchanger surface area (m²)	0,48	0.83	0.93	1.52	1.9
	Lower heat exchanger connection (in)	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
	Upper heat exchanger connection (in)	1"	1"	1"	1"	1"
A	Cold water inlet (mm)	200	235	225	335	340
B	Hot water outlet (mm)	1040	1615	1655	1495	1750
C	Lower heat exchanger inlet (mm)	610	850	840	845	1115
D	Temperature sensor pocket (mm)	370	405	465	525	580
E	Lower heat exchanger outlet (mm)	200	250	220	325	350
F	Upper heat exchanger inlet (mm)	1040	1570	1655	1425	1740
G	Temperature sensor pocket (mm)	920	1360	1370	1225	1560
H	Upper heat exchanger outlet (mm)	760	1150	1155	1015	1290
I	Magnesium anode connection (mm)*	*	*	1040	965	1220
J	Recirculation connection (mm)	640	938	765	665	620
K	Cleaning flange (mm)**	390	370	435	465	570
L	Total height (mm)	1250	1800	1920	1780	2020
M	Thermometer connection (mm)	900	1500	1655	1485	1720
N	Electric heater port (mm)	670	1040	910	910	1160
O	Diameter with metal cladding (mm)	580	580	700	940	940
	Diameter with PVC cladding (mm)	-	-	-	1040	1040
	Internal tank diameter (mm)	480	480	600	840	840
	Max. operating pressure (bar)	8	8	8	8	8
	Max. test pressure (bar)	12	12	12	12	12
	Weight with PVC cladding (kg)	-	-	-	270	340
	Weight with metal cladding (kg)	94	130	188	298	394
	PVC insulation thickness (mm)	-	-	-	100	
	Metal cladding insulation thickness (mm)	50				

Hydraulic connections

	MODEL	BLLTGL200/2LE	BLLTGL300/2LE	BLLTGL500/2LE	BLLTGL750/2LE/ME BLLTGL750/2LE	BLLTGL1000/2LE/ME BLLTGL1000/2LE
A	Cold water inlet	1"	1"	1"	1"	1"
B	Hot water outlet	1"	1"	1"	1"	1"
C	Lower heat exchanger inlet	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
D	Temperature sensor pocket	1/2"	1/2"	1/2"	1/2"	1/2"
E	Lower heat exchanger outlet	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
F	Upper heat exchanger inlet	1"	1"	1"	1"	1"
G	Temperature sensor pocket	1/2"	1/2"	1/2"	1/2"	1/2"
H	Upper heat exchanger outlet	1"	1"	1"	1"	1"
I	Magnesium anode connection	-	1"	1"	1"	1"
J	Recirculation connection	3/4"	3/4"	3/4"	3/4"	3/4"
M	Thermometer connection	1/2"	1/2"	1/2"	1/2"	1/2"
N	Electric heater port	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"

- For all vertical DHW storage tanks and solar water heating systems in operation, it is necessary to install an expansion vessel, a safety valve, and anodic protection in the domestic hot water circuit.

- The magnesium anode is installed at the top of the tank using a 1" or 1 1/4" connection. For tanks with capacities above 500 L, a second anode is installed at the position indicated in the drawing position I.

VERTICAL DHW STORAGE TANKS

WITH REMOVABLE HEAT EXCHANGERS FOR FORCED CIRCULATION SYSTEMS 1500 – 3000 L

- High-efficiency large-surface coil heat exchangers
- Designed for use with multiple energy sources: solar collectors, space heating boiler, electric back-up heater and heat pump
- High-efficiency insulation: soft polyurethane foam with PVC cladding, 100 mm thickness
- Epoxy anti-corrosion internal coating suitable for potable water
- Magnesium anode protection according to DIN 12438
- Antibacterial internal lining suitable for potable water
- Steel tank construction according to EN 12897:2006
- Manufactured using EN 10130 A1 steel

Large-capacity range product overview

Large-capacity vertical DHW storage tanks suitable for the storage and supply of domestic hot water in a wide range of applications.
The stored water is potable water supplied directly from the mains network and intended for all domestic hot water uses.

Manufactured according to European standards and available in capacities from 1500 L to 3000 L.

Equipped with coil heat exchangers allowing connection to multiple heat sources such as solar collectors, space heating boilers, heat pumps or other closed-loop heating systems.

The tanks also include connections for temperature sensors, thermometer and electric back-up heater, allowing flexible integration into different system configurations.

WRAS

CE

Advantages

- Improved energy efficiency of the overall heating system
- Stable and continuous domestic hot water supply
- High thermal energy storage capacity
  Space-saving vertical design
- Compatibility with multiple heat sources
- Flexible system configuration according to project requirements

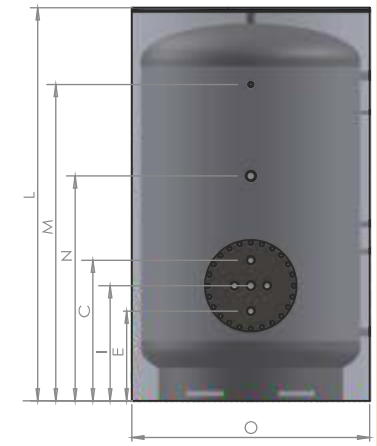
Typical Applications

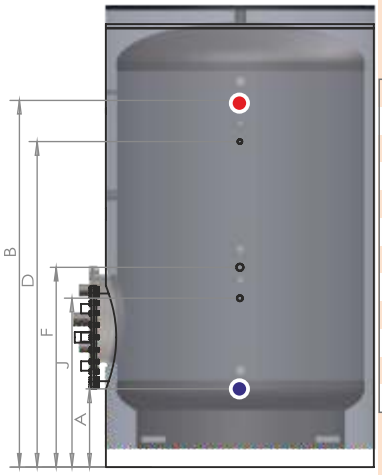
- Industrial, hotel and hospital DHW installations
- Solar thermal systems for hot water production and thermal energy storage
- Heat pump systems for DHW production and storage
- Biomass heating systems for water heating and storage

All tanks are also available in Stainless Steel 316L (non-enameled) with the same characteristics, dimensions and capacities.

ALL TANKS ARE ALSO AVAILABLE IN STAINLESS STEEL 316L

Vertical DHW storage tanks without heat exchanger 1500 - 3000 L For large-capacity DHW installations





- Steel tank construction - EN 10130 steel
- Pre-painted galvanized steel external cladding, thickness 0.5 mm (EN 10204/2.2)
- Automated MIG welding with robotic technology
- Epoxy anti-corrosion internal coating suitable for potable or clean water storage
- Magnesium anode protection according to DIN 12438 (number varies according to tank size)
- Maximum operating temperature: 95°C
- PVC external insulation: soft polyurethane foam, 100 mm thickness
- Tank without internal heat exchanger
- Electric back-up heater: available upon request

Option with metal cladding available

Specifications

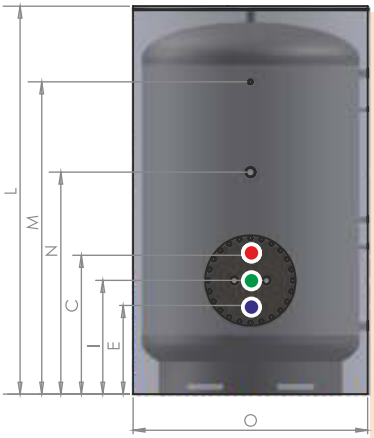
	MODEL	BLLTR1500/0	BLLTR2000/0	BLLTR2500/0	BLLTR3000/0
	Tank capacity (L)	1507	2067	2411	3112
A	Cold water inlet (mm)	430	380	380	485
B	Hot water outlet (mm)	1580	1780	1780	2320
C	Optional connection (mm)	780	770	730	830
D	Temperature sensor pocket (mm)	1380	1580	1430	1885
E	Optional connection (mm)	500	490	450	690
F	Magnesium anode connection (mm)*	980	970	930	995
I	Magnesium anode port on cleaning flange (mm)	640	630	590	550
J	Recirculation connection (mm)	830	820	780	1380
L	Total height (mm)	2000	2200	2200	2750
M	Thermometer connection (mm)	1570	1730	1720	2270
N	Electric back-up heater connection (mm)	1150	1230	1180	1560
O	Diameter with metal cladding (mm)	1200	1300	1400	1400
	Diameter with PVC cladding (mm)	1300	1400	1500	1500
	Internal tank diameter (mm)	1100	1200	1300	1300
	Max. operating pressure (bar)	8	8	8	8
	Max. test pressure (bar)	12	12	12	12
	Weight with PVC cladding (kg)	298	417	600	833
	Weight with metal cladding (kg)	370	446	657	918
	PVC insulation thickness (mm)	100			
	Metal cladding insulation thickness (mm)	50			

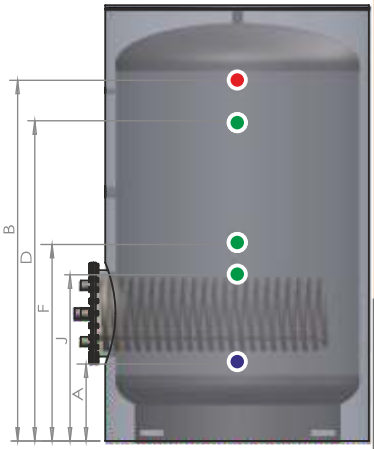
Hydraulic connections

	MODEL	BLLTR1500/0	BLLTR2000/0	BLLTR2500/0	BLLTR3000/0
A	Cold water inlet	1 1/2"	1 1/2"	1 1/2"	1 1/2"
B	Hot water outlet	1 1/2"	1 1/2"	1 1/2"	1 1/2"
C	Optional connection	1 1/4"	1 1/4"	1 1/4"	1 1/4"
D	Temperature sensor pocket	1/2"	1/2"	1/2"	1/2"
E	Optional connection	1 1/4"	1 1/4"	1 1/4"	1 1/4"
F	Magnesium anode connection	1"	1"	1"	1"
I	Magnesium anode port on cleaning flange	1 1/4"	1 1/4"	1 1/4"	1 1/4"
J	Recirculation connection	3/4"	3/4"	3/4"	3/4"
M	Thermometer connection	1/2"	1/2"	1/2"	1/2"
N	lectric back-up heater connection	1 1/2"	1 1/2"	1 1/2"	1 1/2"

- In all vertical DHW storage tanks and combined system installations, it is necessary to install an expansion vessel, safety valve and magnesium anode protection on the domestic hot water circuit.
- The indicated weight refers to tanks without heat exchanger. Tanks equipped with heat exchangers are +60 kg with the 3.2 m² coil and +90 kg with the 5.4 m² coil.
- The two magnesium anodes are installed on the cleaning flange ports. An additional anode port is provided above the recirculation connection if additional anode protection is required.

Vertical DHW storage tanks with single coil heat exchanger 1500 - 3000 L For large-capacity DHW installations





- Steel tank construction - EN 10130 steel
- Pre-painted galvanized steel external cladding, thickness 0.5 mm (EN 10204/2.2)
- Automated MIG welding with robotic technology
- Epoxy anti-corrosion internal coating suitable for potable water and magnesium anode protection according to DIN 12438
- Maximum operating temperature: 95°C
- PVC external insulation: soft polyurethane foam, 100 mm thickness
- Single coil heat exchanger - available in two versions: 3.2 m^2 or 5.4 m^2 heat exchange surface
- Heat exchanger test pressure: 25 bar
- Magnesium anode(s) (number varies according to tank size)
- Electric back-up heater: available upon request

Option with metal cladding available

Specifications

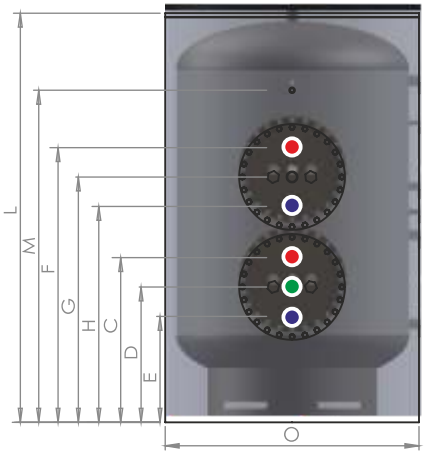
	MODEL	BLLTR1500/1/3.2 BLLTR1500/1/5.4	BLLTR2000/1/3.2 BLLTR2000/1/5.4	BLLTR2500/1/3.2 BLLTR2500/1/5.4	BLLTR3000/1/3.2 BLLTR3000/1/5.4
	Tank capacity (L)	1488	2040	2397	3079
	Heat exchanger capacity (3.2 m² coil) (L)	15	15	15	15
	Heat exchanger capacity (5.4 m² coil) (L)	23.5	23.5	23.5	23.5
	Heat exchanger surface area (3.2 m² coil) (m²)	3.2	3.2	3.2	3.2
	Heat exchanger surface area (5.4 m² coil) (m²)	5.4	5.4	5.4	5.4
	Heat exchanger connection (3.2 m² coil) (inch)	1"	1"	1"	1"
	Heat exchanger connection (5.4 m² coil) (inch)	1"	1"	1"	1"
A	Cold water inlet (mm)	430	380	380	485
B	Hot water outlet (mm)	1580	1780	1780	2320
C	Heat exchanger inlet (mm)	780	770	730	830
D	Temperature sensor pocket (mm)	1380	1580	1430	1885
E	Heat exchanger outlet (mm)	500	490	450	690
F	Magnesium anode connection (mm)*	980	970	930	995
I	Magnesium anode port on cleaning flange (mm)	640	630	590	550
J	Recirculation connection (mm)	830	820	780	1380
L	Total height (mm)	2000	2200	2200	2750
M	Thermometer connection (mm)	1570	1730	1720	2270
N	Electric back-up heater connection (mm)	1150	1230	1180	1560
O	Diameter with metal cladding (mm)	1200	1300	1400	1400
	Diameter with PVC cladding (mm)	1300	1400	1500	1500
	Internal tank diameter (mm)	1100	1200	1300	1300
	Max. operating pressure (bar)	8	8	8	8
	Max. test pressure (bar)	12	12	12	12
	Weight with PVC cladding (kg)	298	417	600	833
	Weight with metal cladding (kg)	370	446	657	918
	PVC insulation thickness (mm)	100			
	Metal cladding insulation thickness (mm)	50			

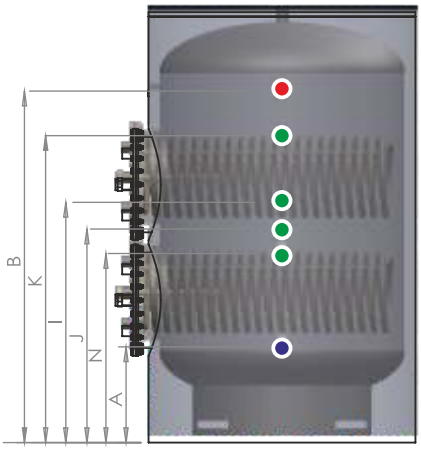
Hydraulic connections

	MODEL	BLLTR1500/1/3.2 BLLTR1500/1/5.4	BLLTR2000/1/3.2 BLLTR2000/1/5.4	BLLTR2500/1/3.2 BLLTR2500/1/5.4	BLLTR3000/1/3.2 BLLTR3000/1/5.4
A	Cold water inlet	1 1/2"	1 1/2"	1 1/2"	1 1/2"
B	Hot water outlet	1 1/2"	1 1/2"	1 1/2"	1 1/2"
C	Heat exchanger inlet	1 1/4"	1 1/4"	1 1/4"	1 1/4"
D	Temperature sensor pocket	1/2"	1/2"	1/2"	1/2"
E	Heat exchanger outlet	1 1/4"	1 1/4"	1 1/4"	1 1/4"
F	Magnesium anode connection	1"	1"	1"	1"
I	Magnesium anode connection on heat exchanger flange	1 1/4"	1 1/4"	1 1/4"	1 1/4"
J	Recirculation connection	3/4"	3/4"	3/4"	3/4"
M	Thermometer connection	1/2"	1/2"	1/2"	1/2"
N	Electric back-up heater connection	1 1/2"	1 1/2"	1 1/2"	1 1/2"

- In all vertical DHW storage tanks and combined system installations, it is necessary to install an expansion vessel, safety valve and magnesium anode protection on the domestic hot water circuit.
- The indicated weight refers to tanks without heat exchanger. Tanks equipped with heat exchangers are +60 kg with the 3.2 m² coil and +90 kg with the 5.4 m² coil.
- The two magnesium anodes are installed on the cleaning flange ports. An additional anode port is provided above the recirculation connection if additional anode protection is required.

Vertical DHW storage tanks with double coil heat exchangers 1500 - 3000 L For large-capacity DHW installations





- Steel tank construction - EN 10130 steel
- Pre-painted galvanized steel external cladding, thickness 0.5 mm (EN 10204/2.2)
- Automated MIG welding with robotic technology
- Epoxy anti-corrosion internal coating suitable for potable water and magnesium anode protection according to DIN 12438
- Maximum operating temperature: 95 °C
- PVC external insulation: soft polyurethane foam, 100 mm thickness
- Two coil heat exchangers - each available in two versions: 3.2 m^2 or 5.4 m^2 heat exchange surface
- Heat exchanger test pressure: 25 bar
- Magnesium anode(s) (number varies according to tank size)
- Electric back-up heater: available upon request

Option with metal cladding available

Specifications

	MODEL	BLLTR1500/2/3.2/3.2 BLLTR1500/2/5.4/3.2 BLLTR1500/2/5.4/5.4	BLLTR2000/2/3.2/3.2 BLLTR2000/2/5.4/3.2 BLLTR2000/2/5.4/5.4	BLLTR2500/2/3.2/3.2 BLLTR2500/2/5.4/3.2 BLLTR2500/2/5.4/5.4	BLLTR3000/2/3.2/3.2 BLLTR3000/2/5.4/3.2 BLLTR3000/2/5.4/5.4
	Tank capacity (L)	1490	2018	2398	3090
	Heat exchanger capacity 3.2 (L)	15	15	15	15
	Heat exchanger capacity 5.4 (L)	23.5	23.5	23.5	23.5
	Heat exchanger surface area 3.2 (m^2)	3.2	3.2	3.2	3.2
	Heat exchanger surface area 5.4 (m^2)	5.4	5.4	5.4	5.4
	Heat exchanger connection 3.2 (inch)	1"	1"	1"	1"
	Heat exchanger connection 5.4 (inch)	1"	1"	1"	1"
A	Cold water inlet (mm)	430	380	380	490
B	Hot water outlet (mm)	1580	1780	1780	2325
C	Lower heat exchanger inlet (mm)	780	730	730	765
D	Magnesium anode port on lower heat exchanger (mm)	640	590	590	625
E	Lower heat exchanger outlet (mm)	500	450	450	490
F	Upper heat exchanger inlet (mm)	1300	1250	1250	1285
G	Magnesium anode port on upper heat exchanger (mm)	1160	1110	1110	2275
H	Upper heat exchanger outlet (mm)	1020	970	970	1006
I	Magnesium anode connection (mm)*	1080	1030	1030	835
J	Recirculation connection (mm)	960	910	910	1065
K	Temperature sensor pocket (mm)	1380	1580	1580	1890
L	Total height (mm)	2000	2200	2200	2750
M	Thermometer connection (mm)	1570	1730	1730	1655
N	Electric back-up heater connection (mm)	850	800	1040	1465
O	Diameter with metal cladding (mm)	1200	1300	1400	1400
	Diameter with PVC cladding (mm)	1300	1400	1500	1500
	Internal tank diameter (mm)	1100	1200	1300	1300
	Max. operating pressure (bar)	8	8	8	8
	Max. test pressure (bar)	12	12	12	12
	Weight with PVC cladding (kg)	298	417	600	833
	Weight with metal cladding (kg)	370	446	657	918
	PVC insulation thickness (mm)	100			
	Metal cladding insulation thickness (mm)	50			

Hydraulic connections

	MODEL	BLLTR1500/2/3.2/3.2 BLLTR1500/2/5.4/3.2 BLLTR1500/2/5.4/5.4	BLLTR2000/2/3.2/3.2 BLLTR2000/2/5.4/3.2 BLLTR2000/2/5.4/5.4	BLLTR2500/2/3.2/3.2 BLLTR2500/2/5.4/3.2 BLLTR2500/2/5.4/5.4	BLLTR3000/2/3.2/3.2 BLLTR3000/2/5.4/3.2 BLLTR3000/2/5.4/5.4
A	Cold water inlet	1 1/2"	1 1/2"	1 1/2"	1 1/2"
B	Hot water outlet	1 1/2"	1 1/2"	1 1/2"	1 1/2"
C	Lower heat exchanger inlet	1 1/4"	1 1/4"	1 1/4"	1 1/4"
D	Magnesium anode port on lower heat exchanger	1 1/4"	1 1/4"	1 1/4"	1 1/4"
E	Lower heat exchanger outlet	1"	1"	1"	1"
F	Upper heat exchanger inlet	1"	1"	1"	1"
G	Magnesium anode port on upper heat exchanger	1 1/4"	1 1/4"	1 1/4"	1 1/4"
H	Upper heat exchanger outlet	1"	1"	1"	1"
I	Magnesium anode connection	1"	1"	1"	1"
J	Recirculation connection	3/4"	3/4"	3/4"	3/4"
M	Thermometer connection	1/2"	1/2"	1/2"	1/2"
N	Electric back-up heater connection	1 1/2"	1 1/2"	1 1/2"	1 1/2"

- In all vertical DHW storage tanks and combined system installations, it is necessary to install an expansion vessel, safety valve and magnesium anode protection on the domestic hot water circuit.

- The indicated weight refers to tanks without heat exchanger. Tanks equipped with heat exchangers are +60 kg with the 3.2 m^2 coil and +90 kg with the 5.4 m^2 coil.

- The two magnesium anodes are installed on the cleaning flange ports. An additional anode port is provided above the recirculation connection if additional anode protection is required.

THERMIC SOL

The power of the sun in the right hands

2 production facilities

385 sales points in Greece

52 worldwide sales network

BUFFER ACCUMULATION TANKS

- **Material Versions:**
  Carbon steel (DCP01)
  Enamelled steel (DCP01-03 EK)
  Stainless steel (SS316L)
- Models with metal external cladding: rigid polyurethane foam insulation, 40-50 mm thickness, density 38-42 kg/m^3 (DIN 53420)
  (applies to models up to 500 L)
- 750 L & 1000 L models (standard configuration): PVC external cladding with soft polyurethane foam insulation, 100 mm thickness
- Compatible with multiple heat sources: solar collectors, space heating boilers, electric back-up heaters and heat pumps
- Optional auxiliary connections

THERMIC manufactures buffer / accumulation tanks designed for applications where the water stored inside the tank is not intended for domestic use, but must remain clean and protected.

These tanks are suitable for installations with high quality and reliability requirements, where efficient thermal energy storage is required.

Manufactured according to European standards and available in capacities from 40 L to 1000 L.

The tanks are also equipped with connections for temperature sensors, thermometer and electric back-up heater.

WRAS

CE

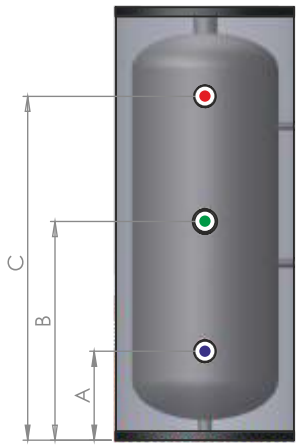
Advantages

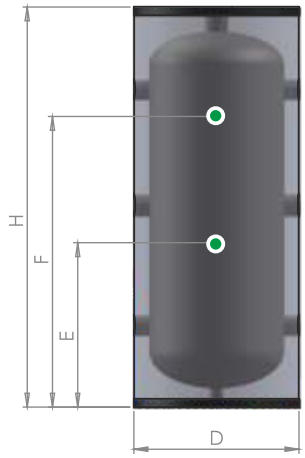
- Hygienic design suitable for systems requiring clean water
- Improved system efficiency for heating installations (solar, biomass, heat pump)
- Stable and rapid heat supply
- High thermal energy storage capacity
- Space-saving design
- Additional heating support for conventional heating systems
- Long service life and flexible design possibilities according to project requirements

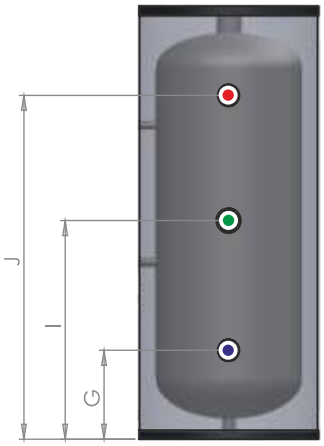
Applications

- Industrial, hotel and hospital installations
- Solar thermal systems for thermal energy storage
- Heat pump systems for thermal energy storage
- Biomass heating systems for thermal energy storage

Buffer / Accumulation tanks without heat exchanger







- In all buffer / accumulation tanks and in the respective system installations, the installation of an expansion vessel, safety valve and anodic protection is required.

NOTE: Buffer / accumulation tanks can also be manufactured and supplied with one or two coil-type heat exchangers.

- Steel tank construction - EN 10130 steel sheet (DCP01 / DCP01-03 EK)
- Pre-painted galvanized steel external cladding, thickness 0.5 mm (EN 10204/2.2)
- Automated MIG welding with robotic technology
- Internal anti-corrosion protection: enamel coating (DIN 4753-3) and magnesium anode protection according to DIN 12438 or stainless steel version (SS316L)
- Maximum operating temperature: 95 °C
- Models with metal external cladding: rigid polyurethane foam insulation, 40 mm thickness, density 38-42 kg/m^3 (DIN 53420)
- 750 L & 1000 L models: PVC external cladding with soft polyurethane foam insulation, 100 mm thickness
- Electric back-up heater: available upon request

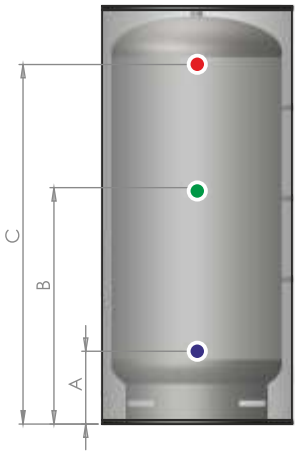
Specifications

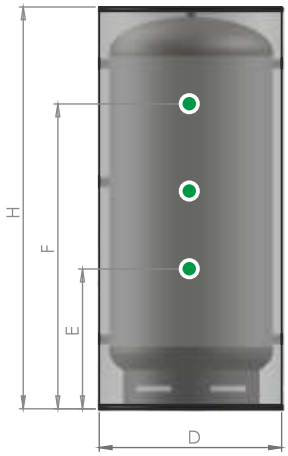
	MODEL	BT.0.40.EN	BT.0.60.EN	BT.0.80.EN
	Tank capacity (L)	33	46	60
H	Total height (mm)	580	710	900
D	Diameter with metal cladding (mm)	400	400	400
A	Optional connection (mm)	165	150	180
B	Optional connection (mm)	260	285	465
C	Optional connection (mm)	415	560	740
E	Optional connection (mm)	260	285	375
F	Optional connection (mm)	415	560	675
G	Optional connection (mm)	195	150	180
I	Optional connection (mm)	290	285	465
J	Optional connection (mm)	445	560	740
	Internal tank diameter (mm)	320	320	320
	Max. operating pressure (bar)	8	8	8
	Max. test pressure (bar)	12	12	12
	Weight with metal cladding (kg)	28	35	42
	Insulation thickness (mm)	50		

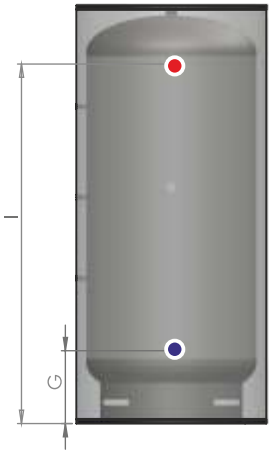
Hydraulic connections

	MODEL	BT.0.40.EN	BT.0.60.EN	BT.0.80.EN
A	Optional connection	1 1/4"	1 1/4"	1 1/4"
B	Optional connection	1 1/2"	1 1/2"	1 1/2"
C	Optional connection	1 1/4"	1 1/4"	1 1/4"
E	Optional connection	1/2"	1/2"	1/2"
F	Optional connection	1/2"	1/2"	1/2"
G	Optional connection	1 1/2"	1 1/2"	1 1/2"
I	Optional connection	1 1/4"	1 1/4"	1 1/4"

Buffer / Accumulation tanks without heat exchanger







- In all buffer / accumulation tanks and in the respective system installations, the installation of an expansion vessel, safety valve and anodic protection is required.

NOTE: Buffer / accumulation tanks can also be manufactured and supplied with one or two coil-type heat exchangers.

- Steel tank construction – EN 10130 steel sheet (DCP01 / DCP01-03 EK)
- Pre-painted galvanized steel external cladding, thickness 0.5 mm (EN 10204/2.2)
- Automated MIG welding with robotic technology
- Internal anti-corrosion protection: enamel coating (DIN 4753-3) and magnesium anode protection according to DIN 12438 (EN 12438) or stainless steel version (SS316L)
- Maximum operating temperature: 95°C
- Models with metal external cladding: rigid polyurethane foam insulation, 40–50 mm thickness, density 38-42 kg/m^3 (DIN 53420)
- 750 L & 1000 L models: PVC external cladding with soft polyurethane foam insulation, 100 mm thickness
- Electric back-up heater: available upon request

Specifications

	MODEL	BT.0.100.EN	BT.0.150.EN	BT.0.200.EN	BT.0.300.EN	BT.0.500.EN	BT.0.750.EN	BT.0.1000.EN
	Tank capacity (L)	98	139	197	301	480	820	972
H	Total height (mm)	920	1250	1250	1800	1920	1800	2100
D	Diameter with metal cladding (mm)	500	500	580	580	700	940	940
D	Diameter with PVC cladding (mm)	-	-	-	-	-	1040	1040
A	Optional connection (mm)	175	175	185	185	220	340	360
B	Optional connection (mm)	450	635	650	995	1030	1000	1170
C	Optional connection (mm)	725	1065	1000	1605	1640	1510	1780
E	Optional connection (mm)	360	360	365	645	680	650	820
O	Optional connection (mm)	-	-	-	995	1030	925	1120
F	Optional connection (mm)	550	890	825	1395	1430	1250	1570
G	Optional connection (mm)	175	175	185	185	220	340	360
I	Optional connection (mm)	315	1065	1000	1605	1640	1510	1780
	Internal tank diameter (mm)	400	400	480	480	600	840	840
	Max. operating pressure (bar)	8	8	8	8	8	8	8
	Max. test pressure (bar)	12	12	12	12	12	12	12
	Weight with PVC cladding (kg)	-	-	-	-	-	187	250
	Weight with metal cladding (kg)	48	63	55	95	150	209	278
	PVC insulation thickness (mm)	-	-	-	-	-	100	
	Metal cladding insulation thickness (mm)	50					100	100

Hydraulic connections

	MODEL	BT.0.100.EN	BT.0.150.EN	BT.0.200.EN	BT.0.300.EN	BT.0.500.EN	BT.0.750.EN	BT.0.1000.EN
A	Optional connection	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
B	Optional connection	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
C	Optional connection	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
E	Optional connection	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
O	Optional connection	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
F	Optional connection	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
G	Optional connection	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
I	Optional connection	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"

Back-up electric elements
(for vertical and horizontal tanks)

- **Plate Ø140mm material:** DCP steel
- **Material of tube:** Copper
- **Material of resistance:** NiCr 60/15 / Kanthal D
- **Material of tube for thermostat:** Copper
- **Material of insulator:** Ceramic/Plastic
- **Power per heating element:** 1,5kW, 2kW, 2,5kW, 3kW, 3,7kW, 4kW
- **Voltage:** 230V
- **Working condition:** Heating water
- **Treatment:** Annealing

ELECTRIC ELEMENT single phase for HORIZONTAL TANKS	
PART NUMBER	**DESCRIPTION**
1P.EE.1,5.F.P	single phase back-up electric element 1,5kW for horizontal tanks on flange plate
1P.EE.2.F.P	single phase back-up electric element 2kW for horizontal tanks on flange plate
1P.EE.2,5.F.P	single phase back-up electric element 2,5kW for horizontal tanks on flange plate
1P.EE.3.F.P	single phase back-up electric element 3kW for horizontal tanks on flange plate
1P.EE.3,7.F.P	single phase back-up electric element 3,7kW for horizontal tanks on flange plate
9289	single phase back-up electric element SS316L 2,5kW for horizontal tanks on flange plate
8025	single phase back-up electric element SS316L 3,7kW for horizontal tanks on flange plate

ELECTRIC ELEMENT single phase and 3phase for DHW FLOOR STANDING VERTICAL TANKS	
PART NUMBER	**DESCRIPTION**
1P.EE.4.TH	single phase back-up electric element 4kW threaded for vertical tanks

ELECTRIC ELEMENT for DHW FLOOR STANDING VERTICAL TANKS INCOLOY	
PART NUMBER	**DESCRIPTION**
3P.IN.EE.6.TH	3phase back-up electric element Incoloy 6kW threaded for vertical tanks
3P.IN.EE.9.TH	3phase back-up electric element Incoloy 9kW threaded for vertical tanks
3P.IN.EE.12.TH	3phase back-up electric element Incoloy 12kW threaded for vertical tanks
3P.IN.EE.16.TH	3phase back-up electric element Incoloy 16kW threaded for vertical tanks
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