KODSAN

WATER HEATERS & STORAGE TANKS

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2021

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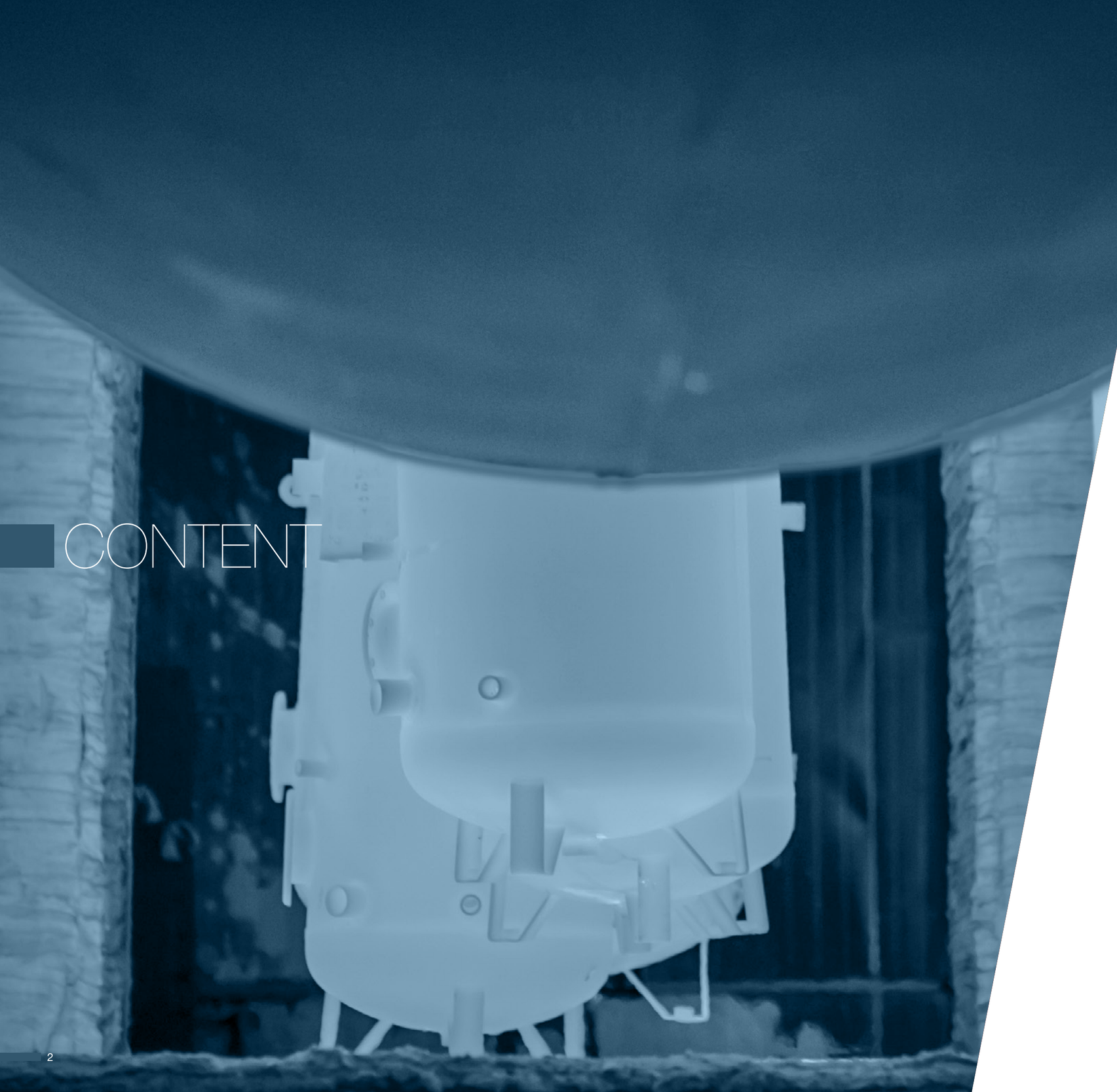

CONTENT

KODSAN

Our Vision

In the light of the principles of honesty and trust, to provide human and environment-oriented products and services, to enlarge the business opportunities it has developed, and to be one of the top 5 companies in the world in the industry.

Our Mission

With its expert and dynamic team, innovative spirit and strong business partners, spreading our quality to the World, to create added value and difference by enlarging the business models.

About Us

Kodsan entered the heating industry with solid fuel boiler production when Mehmet Namık Kodaman founded the company in 1984, Ankara. It has become a leading company with its innovations, success, and people-oriented business strategies. It has grown, developed, and renewed considerably with the strength of over 35 years of experience.

As Turkey's first and largest enamel coated water heater manufacturer, Kodsan increases its recognition in early 2000, in Turkey and surrounding countries. Kodsan manufactures enamel/ non-enamel covered water heaters, heat interface units, automatic pump controlled expansion systems, separators and filters, installment protection equipments.

Additionally, with its extensive technical service network, Kodsan provides service for energy consumption management and heat meter inspection.

Main Export Countries

Azerbaijan, Canada, Denmark, France, Germany, Greece, Holland, Iraq, Israel, Italy, Kenya, Norway, Portugal, Qatar, Republic of South Africa, Russia, Saudi Arabia, South Korea, Spain, Sweden, Thailand, United Arab Emirates, United Kingdom, Uruguay

Our Achievements

Kodsan shines out with its advanced technology, high efficiency products and flexible production capability which can quickly adapt to the customer demands. However among these specialities, Kodsan prioritizes human health as well as the environment. Following this principle, all production processes and products are appropriate to the Europe Environment and Human Health Regulations(Reach and Rosh). For example;

- WRAS certification for the used enamel as well as for all the materials and products that contacts the drinkable water.
- Kodsan manufactures specially designed products that avoid bacteria growth such as legionella which causes the legionnaire disease.
- Kodsan is one of the limited companies that has a waste water treatment facility.
- Raw material which does not include heavy metals and with low carbon footprint are being used during production.
- Maximum sensitivity shown for recycling through all production processes.

Milestones

1984 — Founded in Ankara as a solid fuel boiler manufacturer on 400m².

1992 — Started to the construction of 2000m² area in Sincan Organized Industrial Zone.

1998 — Enameled water heater manufacturing started.

2000 — First export sales is realized.

2002 — Separator production line was established.

2004 — Boiler manufaturing ended.

2013 — Company reached 12.000m² closed area and 16.500m² area in total.

2015 — Partnership with Minol ZENNER started.

2016 — The number of export sales exceeded 35 countries.

2017 — Design Center is approved by government.

2018 — The production lines and designs of the company have been purchased, and the Heat Interface Unit manufacturing has started.

2019 — Distribution for TR market with RBM started.

Company reached 20.000m² closed area and 24.500m² area in total.

2020 — The number of Export sales exceed 50 countries.

UP TO
10 YEARS WARRANTY

Leading the industry with its products, Kodsan creates a difference in terms of warranty, and service by offering up to 10 years warranty service which is being done for the first time in the industry.

ENERGY
EFFICIENCY

Adopting environmentally friendly approach and using energy efficient products, Kodsan offers eco-designed products in accordance with the ErP Directions.

Class A Energy Efficiency

Kodsan has crowned its eco-designed products approach with energy efficient and high quality products up to A class.

BLUESHELL
COVER TECHNOLOGY

Kodsan fulfills its adopted missions with a BlueShell™ insulation by maximizing heat efficiency, creating a humidity barrier, reducing labor costs, providing ease of assembly and disassembly for the customer, and minimizing environmental damage.

BlueShell™

FLEXIBLE
PRODUCTION

Kodsan has a flexible production capability that can quickly adapt to customer requests with its highly efficient and environmentally friendly products.

Tests Being Held into Kodsan Laboratory

Kodsan which is also known as the only company in Turkey that can test its products at its very own laboratory in the industry runs; Aging test, ErP test and Capacity test to ensure the product quality.

11.11 **KBS** SINGLE COIL WATER HEATER

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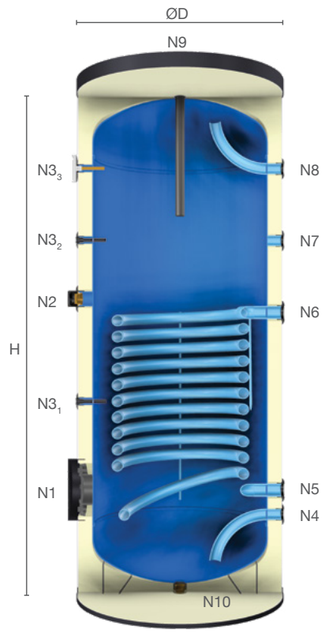


Volume
100L-3000L

Maximum Heating Power
272 kW_h

Maximum Solar Collector Area
87 m^2

Heat Exchanger Maximum Operating Temperature
110°C

Heat Exchanger Maximum Operating Pressure
10 bar

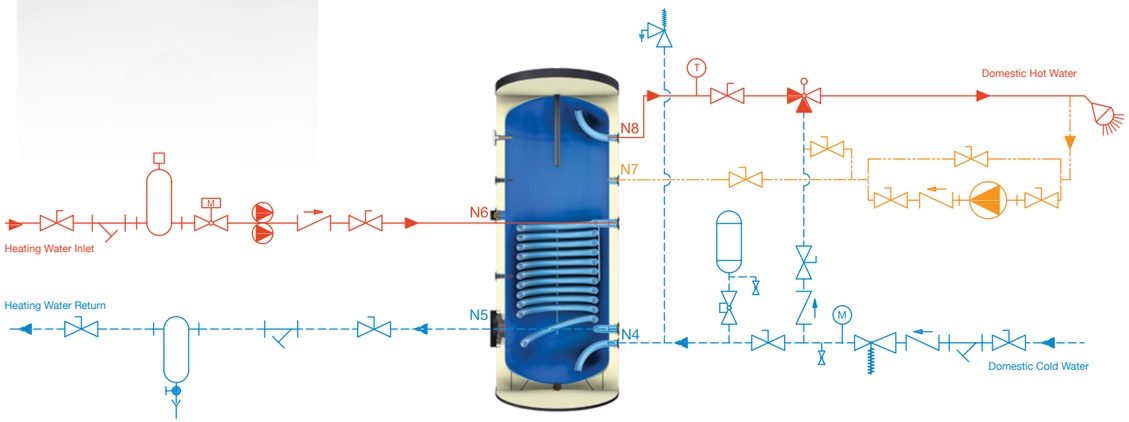
Domestic Hot Water Maximum Operating Temperature
95°C

Domestic Hot Water Maximum Operating Pressure
10 bar

Inner Surface Coating
Tank inner surface is enamelled (glass-lined) in accordance with DIN 4753-3 standard.

Manufactured in accordance with 2014/68/EU Pressure Equipment Directive, TS EN 13445-3, TS736 and TS EN 12897 standards.

INSTALLATION DIAGRAM



Relief valves with membrane should be installed at higher level than top of the tank.
Thus it is protected against high temperature and calcification and it is not necessary to discharge the tank when working on the relief valve.

The installaion diagram shown above is just an example. The installion must be done according to updated standards and instructions.

		100L-500L	800L-1000L	1500L-2000L	2500L-3000L
INSULATION	PU- 42kg/m³ HCFC-free polyurethane in accordance with the 814/2013 EU ErP Comission Regulations and TS EN 12897 Standards	STD/50 mm	x	x	x
	Soft PU- 15 kg/m³ soft polyurethane	x	STD / 80mm	STD / 80mm	STD / 80mm
	Soft PU- 26 kg/m³ flame retardant soft polyurethane	x	OPS / 80mm	OPS / 80mm	OPS / 80mm
	Izomax- 50kg/m³ insulation with d0 fire class as well as with BL-S3 compatible with the ErP regulations following the 814/2013 EU Comission Regulations and TS EN 12897 Standards	x	OPS / 80mm	OPS / 80mm OPS / 100mm	OPS / 80mm
COATING	Blueshell- Recyclable polyethylene cover that provides heat-saving	STD	x	x	x
	Vinleks- Artificial Leather	x	STD	STD	STD
	Izoqua- Waterproof PVC unit which is suitable for exterior usage. **(Optional only with the izomax insulation application)**	x	OPS	OPS	OPS
EQUIPMENT	Thermometer (0°C- 120°C)	STD/Ø63	STD/Ø100	STD/Ø100	STD/Ø100
	Steel Sensor Tube	STD/Ø9 mm 2 pieces	STD/Ø9 mm 2 pieces	STD/Ø9 mm 2 pieces	STD/Ø9 mm 2 pieces
	Cleaning & Control Flange	STD/Ø100 mm	STD/Ø125 mm OPS/Ø400 mm	STD/Ø125 mm OPS/Ø400 mm	STD/Ø125 mm OPS/Ø400 mm
	Electric Heater	OPS/1½"	OPS/2"	OPS/2"	OPS/2"
CATHODIC PROTECTION	Magnesium Anode	STD	STD	STD	STD
	Electronic Anode	OPS	OPS	OPS	OPS
CARRIER ELEMENT	Steel leg system mounted on a palette from 3 different locations	STD	STD	STD-x	x
	Circle steel leg system that provides circular floor contact	x	x	x-STD	STD

STD: Abbreviation for spare parts and equipments which belong to the standard products.
OPS: Abbreviation for the optional spare parts and equipments for non-standart products.

	Code	Unit	11.11.11	11.11.13	11.11.14	11.11.16	11.11.18	11.11.20	11.11.21	11.11.22	11.11.23	11.11.24	11.11.25
Capacity	V	lt	100	160	200	300	500	800	1000	1500	2000	2500	3000
Insulation Type & Thickness	i	mm	PU/50	PU/50	PU/50	PU/50	PU/50	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80
Diameter	ØD	mm	480	580	580	580	740	910	1010	1120	1310	1460	1460
Height	H	mm	1110	1135	1340	1860	1845	2110	2070	2375	2280	2160	2580
Cleaning & Control Flange Diameter	N1	inch	Ø100	Ø100	Ø100	Ø100	Ø100	Ø125	Ø125	Ø125	Ø125	Ø125	Ø125
Electric Heater Connection	N2	inch	1½"	1½"	1½"	1½"	1½"	2"	2"	2"	2"	2"	2"
Thermometer / Steel Sensor Tube Connections	N3	inch/mm	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9
Domestic Cold Water Inlet Connection	N4	inch	¾"	¾"	¾"	¾"	1"	1¼"	1¼"	1¼"	1¼"	1½"	1½"
Heat Exchanger (Coil) Inlet/ Outlet Connections	N5-N6	inch	1"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1½"	1½"
Circulation Return Connection	N7	inch	¾"	¾"	¾"	¾"	¾"	1¼"	1¼"	1¼"	1¼"	1½"	1½"
Domestic Hot Water Outlet Connection	N8	inch	¾"	¾"	¾"	¾"	1"	1¼"	1¼"	1¼"	1¼"	1½"	1½"
Magnesium Anode Connection	N9	inch	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"
Blind Connection	N10	inch	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	2"	2"	2"	2"
Gross Weight	G	kg	52	75	88	98	150	245	260	360	455	650	735
Tilt Height	R	mm	1210	1275	1460	1950	1990	2300	2305	2625	2630	2610	2965

The table shown above is prepared based on spare parts and equipments which belong to the standard products; all products have internal thread connection.

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11.12 KBS-B BASIC SINGLE COIL WATER HEATER

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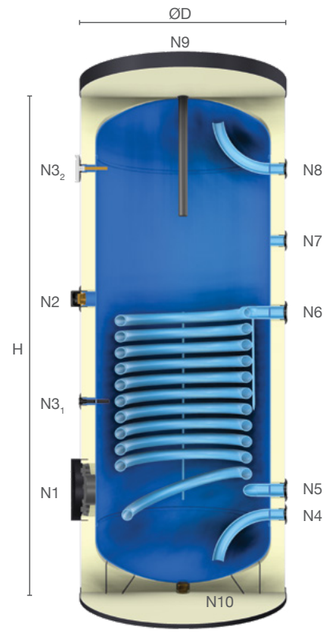


Volume
100L-500L

Maximum Heating Power
66 kW_h

Maximum Solar Collector Area
19 m^2

Heat Exchanger Maximum Operating Temperature
110°C

Heat Exchanger Maximum Operating Pressure
10 bar

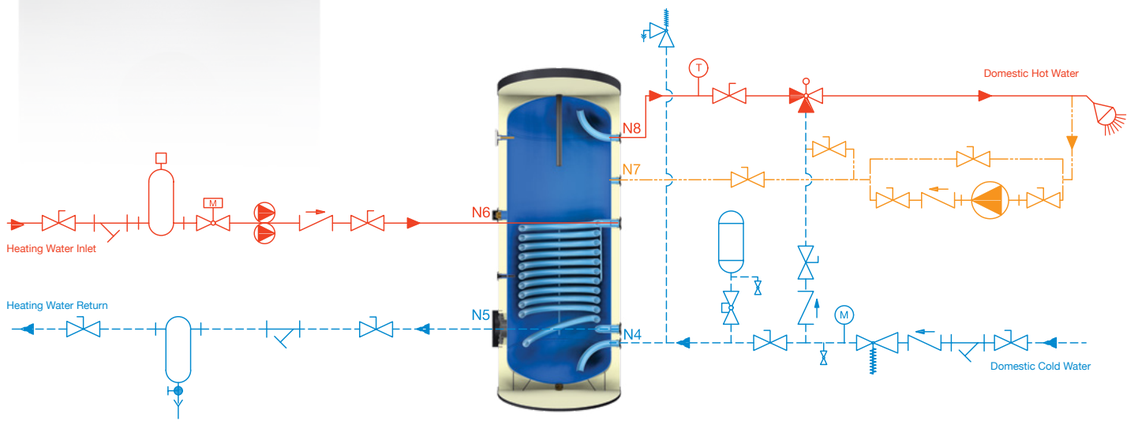
Domestic Hot Water Maximum Operating Temperature
95°C

Domestic Hot Water Maximum Operating Pressure
6bar / 10 bar

Inner Surface Coating
Tank inner surface is enamelled (glass-lined) in accordance with DIN 4753-3 standard.

Manufactured in accordance with 2014/68/EU Pressure Equipment Directive, TS EN 13445-3, TS736 and TS EN 12897 standards.

INSTALLATION DIAGRAM



Relief valves with membrane should be installed at higher level than top of the tank.
Thus it is protected against high temperature and calcification and it is not necessary to discharge the tank when working on the relief valve.

The installaion diagram shown above is just an example. The installion must be done according to updated standards and instructions.

		100L-500L
INSULATION	PU- 42kg/m^3 HCFC-free polyurethane in accordance with the 814/2013 EU ErP Comission Regulations and TS EN 12897 Standards	STD/50 mm
	Soft PU- 15 kg/m^3 soft polyurethane	x
	Soft PU- 26 kg/m^3 flame retardant soft polyurethane	x
	Izomax- 50kg/m^3 insulation with d0 fire class as well as with BL-S3 compatible with the ErP regulations following the 814/2013 EU Comission Regulations and TS EN 12897 Standards	x
COATING	Blueshell- Recyclable polyethylene cover that provides heat-saving	STD
	Vinleks- Artificial Leather	x
	Izoqua- Waterproof PVC unit which is suitable for exterior usage. **(Optional only with the izomax insulation application)**	x
EQUIPMENT	Thermometer (0°C- 120°C)	STD/Ø63
	Steel Sensor Tube	STD/Ø9 mm 1 pieces
	Cleaning & Control Flange	STD/Ø100 mm
	Electric Heater	OPS/1½"
CATHODIC PROTECTION	Magnesium Anode	STD
	Electronic Anode	OPS
CARRIER ELEMENT	Steel leg system mounted on a palette from 3 different locations	STD
	Circle steel leg system that provides circular floor contact	x

STD: Abbreviation for spare parts and equipments which belong to the standard products.
OPS: Abbreviation for the optional spare parts and equipments for non-standart products.

	Code	Unit	11.12.11	11.12.13	11.12.14	11.12.16	11.12.18
Capacity	V	lt	100	160	200	300	500
Insulation Type & Thickness	i	mm	PU/50	PU/50	PU/50	PU/50	PU/50
Diameter	ØD	mm	480	580	580	580	740
Height	H	mm	1110	1135	1340	1860	1845
Cleaning & Control Flange Diameter	N1	inch	Ø100	Ø100	Ø100	Ø100	Ø100
Electric Heater Connection	N2	inch	1½"	1½"	1½"	1½"	1½"
Thermometer / Steel Sensor Tube Connections	N3	inch/mm	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9
Domestic Cold Water Inlet Connection	N4	inch	¾"	¾"	¾"	1"	1"
Heat Exchanger (Coil) Inlet/ Outlet Connections	N5-N6	inch	1"	1¼"	1¼"	1¼"	1¼"
Circulation Return Connection	N7	inch	¾"	¾"	¾"	¾"	¾"
Domestic Hot Water Outlet Connection	N8	inch	¾"	¾"	¾"	1"	1"
Magnesium Anode Connection	N9	inch	1¼"	1¼"	1¼"	1¼"	1¼"
Blind Connection	N10	inch	1¼"	1¼"	1¼"	1¼"	1¼"
Gross Weight	G	kg	52	68	76	98	135
Tilt Height	R	mm	1210	1275	1460	1950	1990

The table shown above is prepared based on spare parts and equipments which belong to the standard products; all products have internal thread connection.

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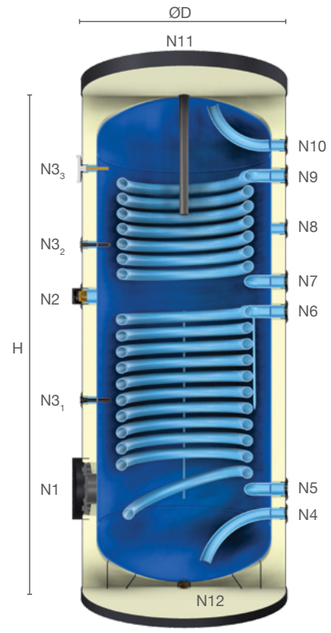
11.13 **KBD** DOUBLE COIL WATER HEATER



Volume
160L-3000L

Upper Heat Exchanger Maximum Heating Power
141 kW_h

Lower Heat Exchanger Maximum Heating Power
272 kW_h

Maximum Solar Collector Area
87 m^2

Heat Exchanger Maximum Operating Temperature
110°C

Heat Exchanger Maximum Operating Pressure
10 bar

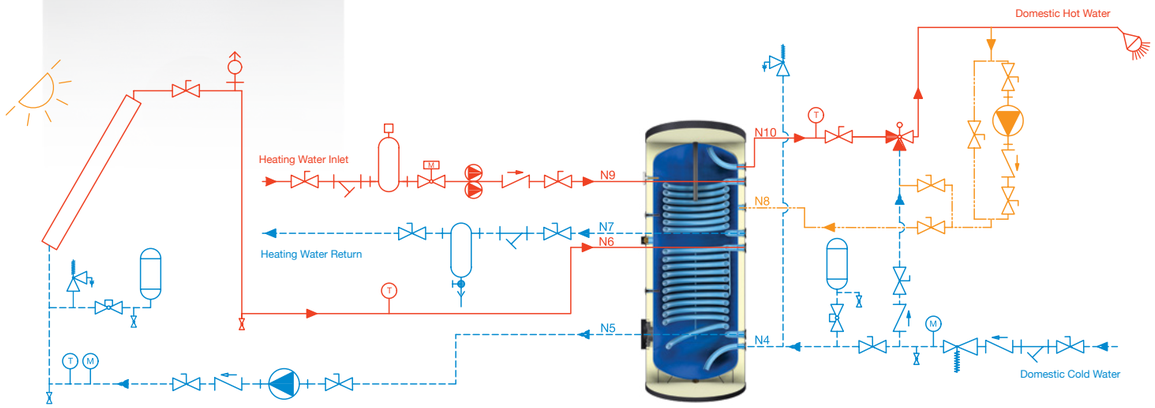
Domestic Hot Water Maximum Operating Temperature
95°C

Domestic Hot Water Maximum Operating Pressure
10 bar

Inner Surface Coating
Tank inner surface is enamelled (glass-lined) in accordance with DIN 4753-3 standard.

Manufactured in accordance with 2014/68/EU Pressure Equipment Directive, TS EN 13445-3, TS736 and TS EN 12897 standards.

INSTALLATION DIAGRAM



Relief valves with membrane should be installed at higher level than top of the tank.
Thus it is protected against high temperature and calcification and it is not necessary to discharge the tank when working on the relief valve.

The installaion diagram shown above is just an example. The installion must be done according to updated standards and instructions.

		160L-500L	800L-1000L	1500L-2000L	2500L-3000L
INSULATION	PU- 42kg/m³ HCFC-free polyurethane in accordance with the 814/2013 EU ErP Comission Regulations and TS EN 12897 Standards	STD/50 mm	x	x	x
	Soft PU- 15 kg/m³ soft polyurethane	x	STD / 80mm	STD / 80mm	STD / 80mm
	Soft PU- 26 kg/m³ flame retardant soft polyurethane	x	OPS / 80mm	OPS / 80mm	OPS / 80mm
	Izomax- 50kg/m³ insulation with d0 fire class as well as with BL-S3 compatible with the ErP regulations following the 814/2013 EU Comission Regulations and TS EN 12897 Standards	x	OPS / 80mm	OPS / 80mm OPS / 100mm	OPS / 80mm
COATING	Blueshell- Recyclable polyethylene cover that provides heat-saving	STD	x	x	x
	Vinleks- Artificial Leather	x	STD	STD	STD
	Izoqua- Waterproof PVC unit which is suitable for exterior usage. **(Optional only with the izomax insulation application)**	x	OPS	OPS	OPS
EQUIPMENT	Thermometer (0°C- 120°C)	STD/Ø63	STD/Ø100	STD/Ø100	STD/Ø100
	Steel Sensor Tube	STD/Ø9 mm 2 pieces	STD/Ø9 mm 2 pieces	STD/Ø9 mm 2 pieces	STD/Ø9 mm 2 pieces
	Cleaning & Control Flange	STD/Ø100 mm	STD/Ø125 mm OPS/Ø400 mm	STD/Ø125 mm OPS/Ø400 mm	STD/Ø125 mm OPS/Ø400 mm
	Electric Heater	OPS/1½"	OPS/2"	OPS/2"	OPS/2"
CATHODIC PROTECTION	Magnesium Anode	STD	STD	STD	STD
	Electronic Anode	OPS	OPS	OPS	OPS
CARRIER ELEMENT	Steel leg system mounted on a palette from 3 different locations	STD	STD	STD-x	x
	Circle steel leg system that provides circular floor contact	x	x	x-STD	STD

STD: Abbreviation for spare parts and equipments which belong to the standard products.
OPS: Abbreviation for the optional spare parts and equipments for non-standart products.

	Code	Unit	11.13.13	11.13.14	11.13.16	11.13.18	11.13.20	11.13.21	11.13.22	11.13.23	11.13.24	11.13.25
Capacity	V	lt	160	200	300	500	800	1000	1500	2000	2500	3000
Insulation Type & Thickness	i	mm	PU/50	PU/50	PU/50	PU/50	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80
Diameter	ØD	mm	580	580	580	740	910	1010	1120	1310	1460	1460
Height	H	mm	1135	1340	1860	1845	2110	2070	2375	2280	2160	2580
Cleaning & Control Flange Diameter	N1	inch	Ø100	Ø100	Ø100	Ø100	Ø125	Ø125	Ø125	Ø125	Ø125	Ø125
Electric Heater Connection	N2	inch	1½"	1½"	1½"	1½"	2"	2"	2"	2"	2"	2"
Thermometer / Steel Sensor Tube Connections	N3	inch/mm	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9
Domestic Cold Water Inlet Connection	N4	inch	¾"	¾"	¾"	1"	1¼"	1¼"	1¼"	1¼"	1½"	1½"
Lower Heat Exchanger (Coil) Inlet/Outlet Connections	N5-N6	inch	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1½"	1½"
Upper Heat Exchanger (Coil) Inlet/Outlet Connections	N7-N9	inch	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1½"	1½"
Circulation Return Connection	N8	inch	¾"	¾"	¾"	¾"	1¼"	1¼"	1¼"	1¼"	1½"	1½"
Domestic Hot Water Outlet Connection	N10	inch	¾"	¾"	¾"	1"	1¼"	1¼"	1¼"	1¼"	1½"	1½"
Magnesium Anode Connection	N11	inch	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"
Blind Connection	N12	inch	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	2"	2"	2"	2"
Gross Weight	G	kg	82	91	104	178	275	290	390	500	720	805
Tilt Height	R	mm	1275	1460	1950	1990	2300	2305	2625	2630	2610	2965

The table shown above is prepared based on spare parts and equipments which belong to the standard products; all products have internal thread connection.

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11.14 KBD-B BASIC DOUBLE COIL WATER HEATER

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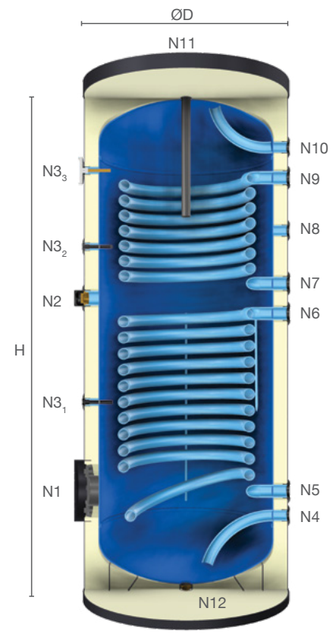


Volume
160L-500L

Upper Heat Exchanger Maximum Heating Power
41 kW_h

Lower Heat Exchanger Maximum Heating Power
55 kW_h

Maximum Solar Collector Area
29 m^2

Heat Exchanger Maximum Operating Temperature
110°C

Heat Exchanger Maximum Operating Pressure
10 bar

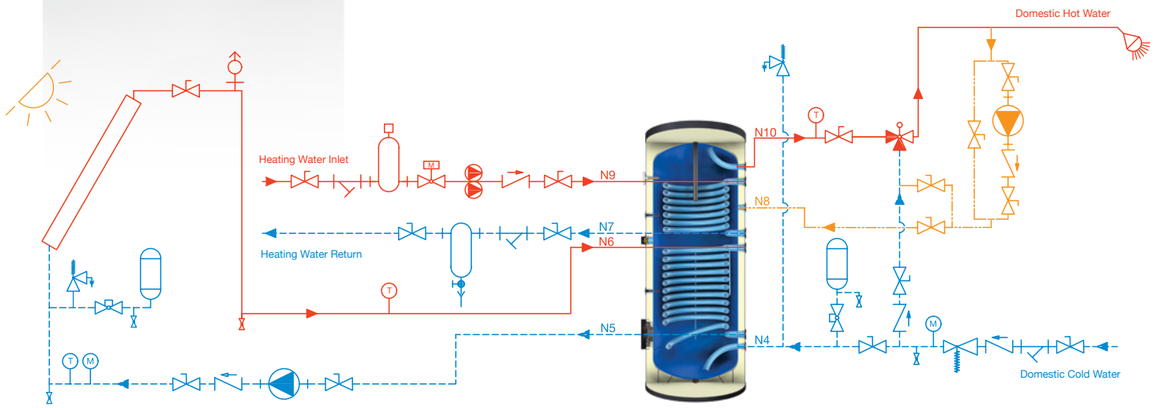
Domestic Hot Water Maximum Operating Temperature
95°C

Domestic Hot Water Maximum Operating Pressure
6 bar / 10 bar

Inner Surface Coating
Tank inner surface is enamelled (glass-lined) in accordance with DIN 4753-3 standard.

Manufactured in accordance with 2014/68/EU Pressure Equipment Directive, TS EN 13445-3, TS736 and TS EN 12897 standards.

INSTALLATION DIAGRAM



Relief valves with membrane should be installed at higher level than top of the tank.
Thus it is protected against high temperature and calcification and it is not necessary to discharge the tank when working on the relief valve.

The installaion diagram shown above is just an example. The installion must be done according to updated standards and instructions.

		160L-500L
INSULATION	PU- 42kg/m^3 HCFC-free polyurethane in accordance with the 814/2013 EU ErP Comission Regulations and TS EN 12897 Standards	STD/50 mm
	Soft PU- 15 kg/m^3 soft polyurethane	x
	Soft PU- 26 kg/m^3 flame retardant soft polyurethane	x
	Izomax- 50kg/m^3 insulation with d0 fire class as well as with BL-S3 compatible with the ErP regulations following the 814/2013 EU Comission Regulations and TS EN 12897 Standards	x
COATING	Blueshell- Recyclable polyethylene cover that provides heat-saving	STD
	Vinleks- Artificial Leather	x
	Izoqua- Waterproof PVC unit which is suitable for exterior usage. **(Optional only with the izomax insulation application)**	x
EQUIPMENT	Thermometer (0°C- 120°C)	STD/Ø63
	Steel Sensor Tube	STD/Ø9 mm 2 pieces
	Cleaning & Control Flange	STD/Ø100 mm
	Electric Heater	OPS/1½"
CATHODIC PROTECTION	Magnesium Anode	STD
	Electronic Anode	OPS
CARRIER ELEMENT	Steel leg system mounted on a palette from 3 different locations	STD
	Circle steel leg system that provides circular floor contact	x

STD: Abbreviation for spare parts and equipments which belong to the standard products.
OPS: Abbreviation for the optional spare parts and equipments for non-standart products.

	Code	Unit	11.14.13	11.14.14	11.14.16	11.14.18
Capacity	V	lt	160	200	300	500
Insulation Type & Thickness	i	mm	PU/50	PU/50	PU/50	PU/50
Diameter	ØD	mm	580	580	580	740
Height	H	mm	1135	1340	1860	1845
Cleaning & Control Flange Diameter	N1	inch	Ø100	Ø100	Ø100	Ø100
Electric Heater Connection	N2	inch	1½"	1½"	1½"	1½"
Thermometer / Steel Sensor Tube Connections	N3	inch/mm	½"/ 9	½"/ 9	½"/ 9	½"/ 9
Domestic Cold Water Inlet Connection	N4	inch	¾"	¾"	1"	1"
Lower Heat Exchanger (Coil) Inlet/Outlet Connections	N5-N6	inch	1¼"	1¼"	1¼"	1¼"
Upper Heat Exchanger (Coil) Inlet/Outlet Connections	N7-N9	inch	1¼"	1¼"	1¼"	1¼"
Circulation Return Connection	N8	inch	¾"	¾"	¾"	¾"
Domestic Hot Water Outlet Connection	N10	inch	¾"	¾"	1"	1"
Magnesium Anode Connection	N11	inch	1¼"	1¼"	1¼"	1¼"
Blind Connection	N12	inch	1¼"	1¼"	1¼"	1¼"
Gross Weight	G	kg	80	87	104	155
Tilt Height	R	mm	1275	1460	1950	1990

The table shown above is prepared based on spare parts and equipments which belong to the standard products; all products have internal thread connection.

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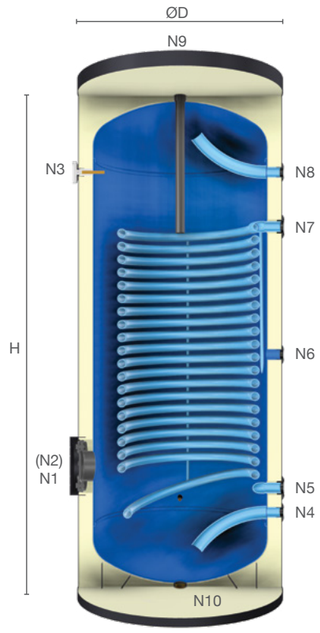
11.15 **KXS** SINGLE ROW COIL HEAT PUMP WATER HEATER

KODSAN



Volume
160L-500L

Maximum Heating Power
251 kW_h

Maximum Solar Collector Area
54 m^2

Heat Exchanger Maximum Operating Temperature
110°C

Heat Exchanger Maximum Operating Pressure
10 bar

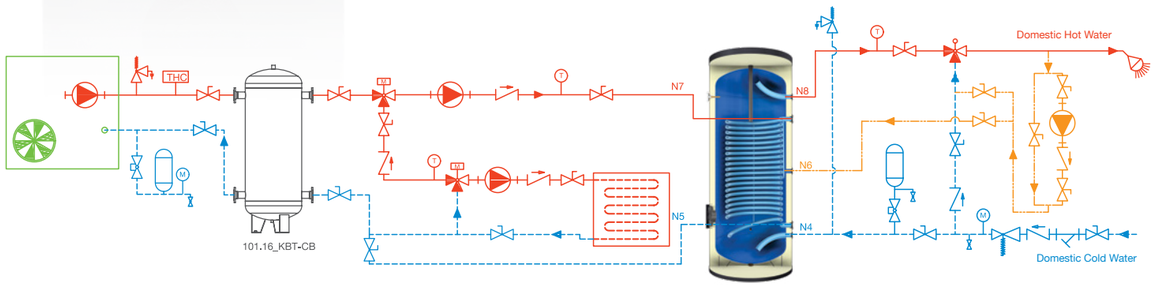
Domestic Hot Water Maximum Operating Temperature
95°C

Domestic Hot Water Maximum Operating Pressure
10 bar

Inner Surface Coating
Tank inner surface is enamelled (glass-lined) in accordance with DIN 4753-3 standard.

Manufactured in accordance with 2014/68/EU Pressure Equipment Directive, TS EN 13445-3, TS736 and TS EN 12897 standards.

INSTALLATION DIAGRAM



Relief valves with membrane should be installed at higher level than top of the tank.
Thus it is protected against high temperature and calcification and it is not necessary to discharge the tank when working on the relief valve.

The installaion diagram shown above is just an example. The installion must be done according to updated standards and instructions.

		160L-500L
INSULATION	PU- 42kg/m^3 HCFC-free polyurethane in accordance with the 814/2013 EU ErP Comission Regulations and TS EN 12897 Standards	STD/50 mm
	Soft PU- 15 kg/m^3 soft polyurethane	x
	Soft PU- 26 kg/m^3 flame retardant soft polyurethane	x
	Izomax- 50kg/m^3 insulation with d0 fire class as well as with BL-S3 compatible with the ErP regulations following the 814/2013 EU Comission Regulations and TS EN 12897 Standards	x
COATING	Blueshell- Recyclable polyethylene cover that provides heat-saving	STD
	Vinleks- Artificial Leather	x
	Izoqua- Waterproof PVC unit which is suitable for exterior usage. **(Optional only with the izomax insulation application)**	x
EQUIPMENT	Thermometer (0°C- 120°C)	STD/Ø63
	Steel Sensor Tube	STD/Ø9 mm 2 pieces
	Cleaning & Control Flange	STD/Ø100 mm
	Electric Heater	OPS/1½"
CATHODIC PROTECTION	Magnesium Anode	STD
	Electronic Anode	OPS
CARRIER ELEMENT	Steel leg system mounted on a palette from 3 different locations	STD
	Circle steel leg system that provides circular floor contact	x

STD: Abbreviation for spare parts and equipments which belong to the standard products.
OPS: Abbreviation for the optional spare parts and equipments for non-standart products.

	Code	Unit	11.15.13	11.15.14	11.15.16	11.15.18
Capacity	V	lt	160	200	300	500
Insulation Type & Thickness	i	mm	PU/50	PU/50	PU/50	PU/50
Diameter	ØD	mm	580	580	700	740
Height	H	mm	1135	1340	1220	1845
Cleaning & Control Flange Diameter	N1	inch	Ø100	Ø100	Ø100	Ø100
Electric Heater Connection	N2	inch	1½"	1½"	1½"	1½"
Thermometer / Steel Sensor Tube Connections	N3	inch/mm	½"/ 9	½"/ 9	½"/ 9	½"/ 9
Domestic Cold Water Inlet Connection	N4	inch	¾"	¾"	1"	1"
Heat Exchanger (Coil) Inlet/ Outlet Connections	N5-N7	inch	1"	1"	1"	1"
Circulation Return Connection	N6	inch	¾"	¾"	1"	1"
Domestic Hot Water Outlet Connection	N8	inch	¾"	¾"	1"	1"
Magnesium Anode Connection	N9	inch	1¼"	1¼"	1¼"	1¼"
Blind Connection	N10	inch	1¼"	1¼"	1¼"	1¼"
Gross Weight	G	kg	80	92	120	165
Tilt Height	R	mm	1275	1460	1410	1990

The table shown above is prepared based on spare parts and equipments which belong to the standard products; all products have internal thread connection.

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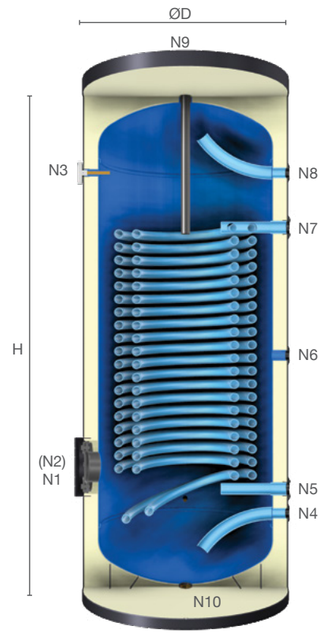
11.16 KXD DOUBLE ROW COIL HEAT PUMP WATER HEATER

KODSAN



Volume
160L-500L

Maximum Heating Power
218 kW_h

Maximum Solar Collector Area
17 m^2

Heat Exchanger Maximum Operating Temperature
110°C

Heat Exchanger Maximum Operating Pressure
10 bar

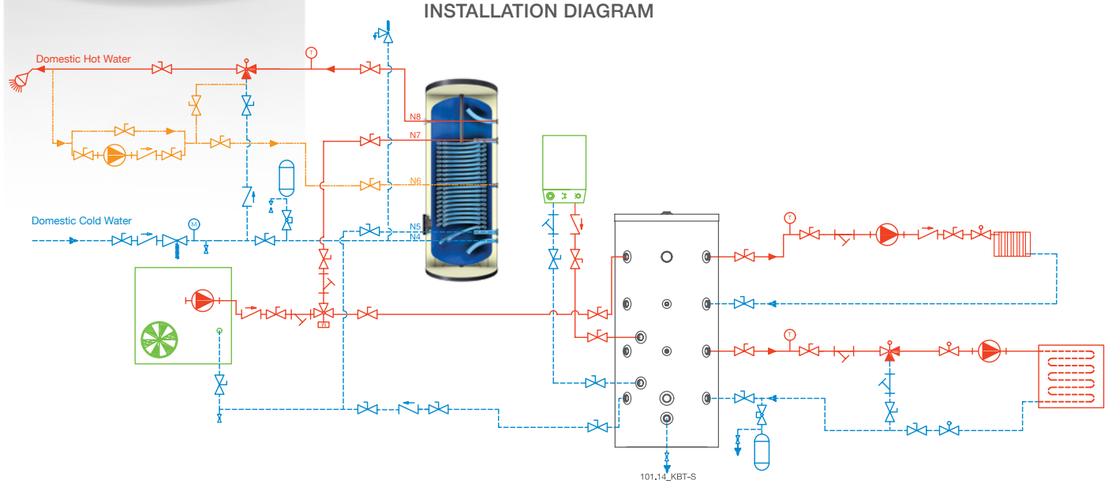
Domestic Hot Water Maximum Operating Temperature
95°C

Domestic Hot Water Maximum Operating Pressure
10 bar

Inner Surface Coating
Tank inner surface is enamelled (glass-lined) in accordance with DIN 4753-3 standard.

Manufactured in accordance with 2014/68/EU Pressure Equipment Directive, TS EN 13445-3, TS736 and TS EN 12897 standards.

INSTALLATION DIAGRAM



Relief valves with membrane should be installed at higher level than top of the tank.
Thus it is protected against high temperature and calcification and it is not necessary to discharge the tank when working on the relief valve.
The installaion diagram shown above is just an example. The installion must be done according to updated standards and instructions.

		160L-500L
INSULATION	PU- 42kg/m³ HCFC-free polyurethane in accordance with the 814/2013 EU ErP Comission Regulations and TS EN 12897 Standards	STD/50 mm
	Soft PU- 15 kg/m³ soft polyurethane	x
	Soft PU- 26 kg/m³ flame retardant soft polyurethane	x
	Izomax- 50kg/m³ insulation with d0 fire class as well as with BL-S3 compatible with the ErP regulations following the 814/2013 EU Comission Regulations and TS EN 12897 Standards	x
COATING	Blueshell- Recyclable polyethylene cover that provides heat-saving	STD
	Vinleks- Artificial Leather	x
	Izoqua- Waterproof PVC unit which is suitable for exterior usage. **(Optional only with the izomax insulation application)**	x
EQUIPMENT	Thermometer (0°C- 120°C)	STD/Ø63
	Steel Sensor Tube	STD/Ø9 mm 2 pieces
	Cleaning & Control Flange	STD/Ø100 mm
	Electric Heater	OPS/1½"
CATHODIC PROTECTION	Magnesium Anode	STD
	Electronic Anode	OPS
CARRIER ELEMENT	Steel leg system mounted on a palette from 3 different locations	STD
	Circle steel leg system that provides circular floor contact	x

STD: Abbreviation for spare parts and equipments which belong to the standard products.
OPS: Abbreviation for the optional spare parts and equipments for non-standart products.

	Code	Unit	11.16.13	11.16.14	11.16.16	11.16.18
Capacity	V	lt	160	200	300	500
Insulation Type & Thickness	i	mm	PU/50	PU/50	PU/50	PU/50
Diameter	ØD	mm	580	580	700	740
Height	H	mm	1135	1340	1220	1845
Cleaning & Control Flange Diameter	N1	inch	Ø100	Ø100	Ø100	Ø100
Electric Heater Connection	N2	inch	1½"	1½"	1½"	1½"
Thermometer / Steel Sensor Tube Connections	N3	inch/mm	½"/ 9	½"/ 9	½"/ 9	½"/ 9
Domestic Cold Water Inlet Connection	N4	inch	¾"	¾"	1"	1"
Heat Exchanger (Coil) Inlet/ Outlet Connections	N5-N7	inch	1¼"	1¼"	1¼"	1¼"
Circulation Return Connection	N6	inch	¾"	¾"	1"	1"
Domestic Hot Water Outlet Connection	N8	inch	¾"	¾"	1"	1"
Magnesium Anode Connection	N9	inch	1¼"	1¼"	1¼"	1¼"
Blind Connection	N10	inch	1¼"	1¼"	1¼"	1¼"
Gross Weight	G	kg	95	113	150	210
Tilt Height	R	mm	1275	1460	1410	1990

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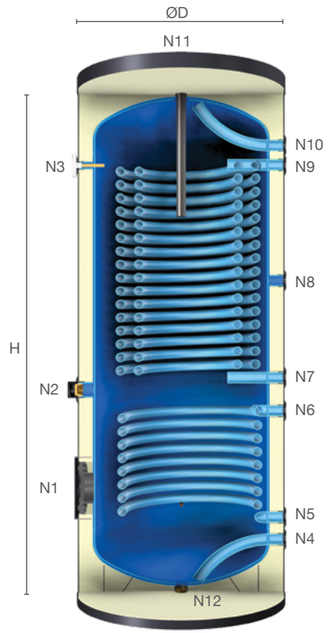
11.17 KSH HYBRID WATER HEATER



Volume
200L-1000L

Upper Heat Exchanger Maximum Heating Power
161 kW_h

Lower Heat Exchanger Maximum Solar Collector Area
10 m^2

Heat Exchanger Maximum Operating Temperature
110°C

Heat Exchanger Maximum Operating Pressure
10 bar

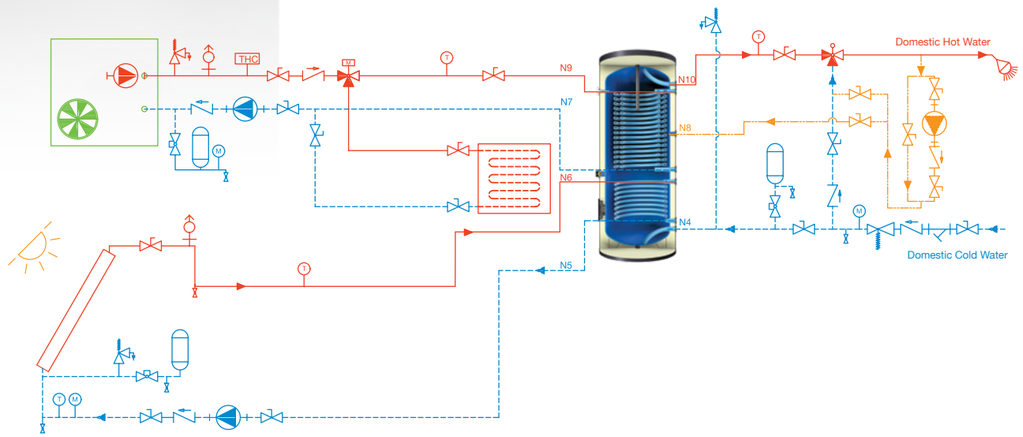
Domestic Hot Water Maximum Operating Temperature
95°C

Domestic Hot Water Maximum Operating Pressure
10 bar

Inner Surface Coating
Tank inner surface is enamelled (glass-lined) in accordance with DIN 4753-3 standard.

Manufactured in accordance with 2014/68/EU Pressure Equipment Directive, TS EN 13445-3, TS736 and TS EN 12897 standards.

INSTALLATION DIAGRAM



Relief valves with membrane should be installed at higher level than top of the tank.
Thus it is protected against high temperature and calcification and it is not necessary to discharge the tank when working on the relief valve.

The installaion diagram shown above is just an example. The installion must be done according to updated standards and instructions.

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		200L-500L	800L-1000L
INSULATION	PU- 42kg/m³ HCFC-free polyurethane in accordance with the 814/2013 EU ErP Comission Regulations and TS EN 12897 Standards	STD/50 mm	x
	Soft PU- 15 kg/m³ soft polyurethane	x	STD/80 mm
	Soft PU- 26 kg/m³ flame retardant soft polyurethane	x	OPS/80 mm
	Izomax- 50kg/m³ insulation with d0 fire class as well as with BL-S3 compatible with the ErP regulations following the 814/2013 EU Comission Regulations and TS EN 12897 Standards	x	OPS/80 mm
COATING	Blueshell- Recyclable polyethylene cover that provides heat-saving	STD	x
	Vinleks- Artificial Leather	x	STD
	Izoqua- Waterproof PVC unit which is suitable for exterior usage. **(Optional only with the izomax insulation application)**	x	OPS
EQUIPMENT	Thermometer (0°C- 120°C)	STD/Ø63	STD/Ø100
	Steel Sensor Tube	STD/Ø9 mm 3 pieces	STD/Ø9 mm 3 pieces
	Cleaning & Control Flange	STD/Ø100 mm	STD/Ø125 mm
	Electric Heater	OPS/1½"	OPS/2"
CATHODIC PROTECTION	Magnesium Anode	STD	STD
	Electronic Anode	OPS	OPS
CARRIER ELEMENT	Steel leg system mounted on a palette from 3 different locations	STD	STD
	Circle steel leg system that provides circular floor contact	x	x

STD: Abbreviation for spare parts and equipments which belong to the standard products.
OPS: Abbreviation for the optional spare parts and equipments for non-standart products.

	Code	Unit	11.17.14	11.17.16	11.17.18	11.17.20	11.17.21
Capacity	V	lt	200	300	500	800	1000
Insulation Type & Thickness	i	mm	PU/50	PU/50	PU/50	SPU/80	SPU/80
Diameter	ØD	mm	580	580	740	910	1010
Height	H	mm	1340	1860	1845	2110	2200
Cleaning & Control Flange Diameter	N1	inch	Ø100	Ø100	Ø100	Ø125	Ø125
Electric Heater Connection	N2	inch	1½"	1½"	1½"	2"	2"
Thermometer / Steel Sensor Tube Connections	N3	inch/mm	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9
Domestic Cold Water Inlet Connection	N4	inch	1"	1"	1"	1¼"	1¼"
Lower Heat Exchanger (Coil) Inlet/Outlet Connections	N5-N6	inch	1"	1"	1"	1"	1"
Upper Heat Exchanger (Coil) Inlet/Outlet Connections	N7-N9	inch	1¼"	1¼"	1¼"	1¼"	1¼"
Circulation Return Connection	N8	inch	1"	1"	1"	1¼"	1¼"
Domestic Hot Water Outlet Connection	N10	inch	1"	1"	1"	1¼"	1¼"
Magnesium Anode Connection	N11	inch	1¼"	1¼"	1¼"	1¼"	1¼"
Blind Connection	N12	inch	1¼"	1¼"	1¼"	1¼"	1¼"
Gross Weight	G	kg	113	156	165	310	340
Tilt Height	R	mm	1460	1950	1990	2300	2420

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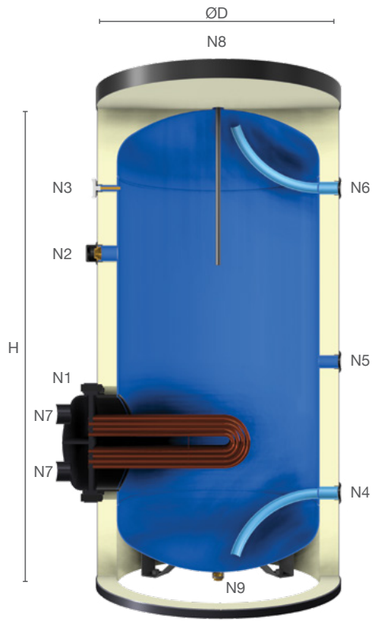
11.18 **KCS** SINGLE COPPER COIL WATER HEATER

KODSAN



Volume
800L-5000L

Maximum Heating Power
466 kW_h

Maximum Solar Collector Area
110 m^2

Heat Exchanger Maximum Operating Temperature
110°C

Heat Exchanger Maximum Operating Pressure
10 bar / 16 bar

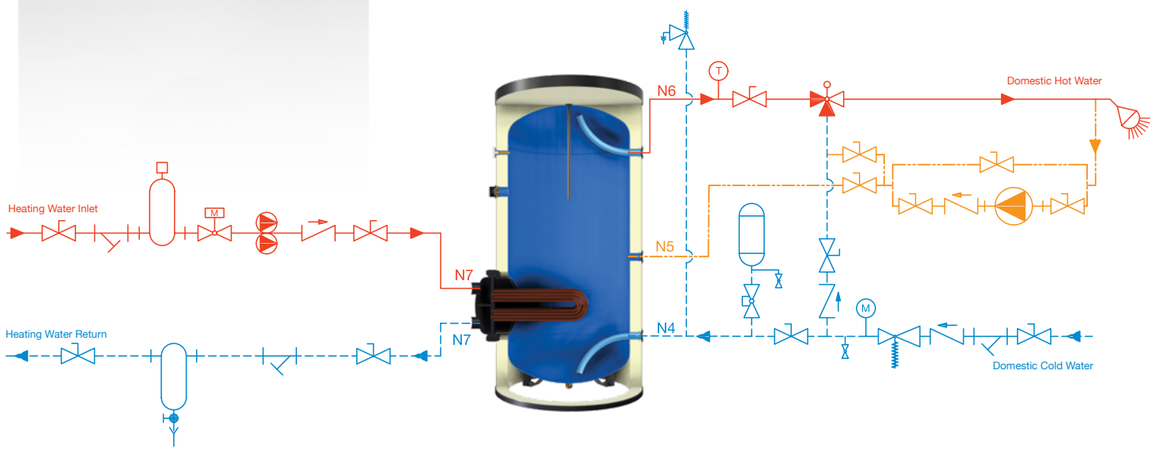
Domestic Hot Water Maximum Operating Temperature
95°C

Domestic Hot Water Maximum Operating Pressure
10 bar

Inner Surface Coating
Tank inner surface is enamelled (glass-lined) in accordance with DIN 4753-3 standard.

Manufactured in accordance with 2014/68/EU Pressure Equipment Directive, TS EN 13445-3, TS736 and TS EN 12897 standards.

INSTALLATION DIAGRAM



Relief valves with membrane should be installed at higher level than top of the tank.
Thus it is protected against high temperature and calcification and it is not necessary to discharge the tank when working on the relief valve.

The installaion diagram shown above is just an example. The installion must be done according to updated standards and instructions.

		800L-1000L	1500L-2000L	2500L-3000L	4000L-5000L
INSULATION	PU- 42kg/m^3 HCFC-free polyurethane in accordance with the 814/2013 EU ErP Comission Regulations and TS EN 12897 Standards	x	x	x	x
	Soft PU- 15 kg/m^3 soft polyurethane	STD/80 mm	STD/80 mm	STD/80 mm	STD/80 mm
	Soft PU- 26 kg/m^3 flame retardant soft polyurethane	OPS/80 mm	OPS/80 mm	OPS/80 mm	OPS/80 mm
	Izomax- 50kg/m^3 insulation with d0 fire class as well as with BL-S3 compatible with the ErP regulations following the 814/2013 EU Comission Regulations and TS EN 12897 Standards	OPS/80 mm	OPS/80 mm OPS/100 mm	OPS/80 mm	OPS/80 mm
COATING	Blueshell- Recyclable polyethylene cover that provides heat-saving	x	x	x	x
	Vinleks- Artificial Leather	STD	STD	STD	STD
	Izoqua- Waterproof PVC unit which is suitable for exterior usage. **(Optional only with the izomax insulation application)**	OPS	OPS	OPS	OPS
EQUIPMENT	Thermometer (0°C- 120°C)	STD/Ø100	STD/Ø100	STD/Ø100	STD/Ø100
	Steel Sensor Tube	STD/Ø9 mm 2 pieces	STD/Ø9 mm 2 pieces	STD/Ø9 mm 2 pieces	STD/Ø9 mm 2 pieces
	Cleaning & Control Flange	STD/Ø400 mm	STD/Ø400 mm	STD/Ø400 mm- STD/Ø500 mm	STD/Ø500 mm
	Electric Heater	OPS/2"	OPS/2"	OPS/2"	OPS/2"
CATHODIC PROTECTION	Magnesium Anode	x	x	x	x
	Electronic Anode	STD	STD	STD	STD
CARRIER ELEMENT	Steel leg system mounted on a palette from 3 different locations	STD	STD-x	x	x
	Circle steel leg system that provides circular floor contact	x	x-STD	STD	STD

STD: Abbreviation for spare parts and equipments which belong to the standard products.
OPS: Abbreviation for the optional spare parts and equipments for non-standart products.

	Code	Unit	11.18.20	11.18.21	11.18.22	11.18.23	11.18.24	11.18.25	11.18.26	11.18.27
Capacity	V	lt	800	1000	1500	2000	2500	3000	4000	5000
Insulation Type & Thickness	i	mm	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80
Diameter	ØD	mm	910	1010	1120	1310	1460	1460	1660	1660
Height	H	mm	2110	2070	2375	2280	2160	2580	2575	3230
Heat Exchanger (Coil) Flange Diameter	ØN1	mm	Ø400	Ø400	Ø400	Ø400	Ø400	Ø500	Ø500	Ø500
Electric Heater Connection	N2	inch	2"	2"	2"	2"	2"	2"	2"	2"
Thermometer / Steel Sensor Tube Connections	N3	inch/mm	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9
Domestic Cold Water Inlet Connection	N4	inch	1¼"	1¼"	1¼"	1¼"	1½"	1½"	2"	2"
Circulation Return Connection	N5	inch	1¼"	1¼"	1¼"	1¼"	1½"	1½"	2"	2"
Domestic Hot Water Outlet Connection	N6	inch	1¼"	1¼"	1¼"	1¼"	1½"	1½"	2"	2"
Heat Exchanger (Coil) Inlet/ Outlet Connections	N7	inch	1½"	2"	2"	2½"	2½"	2½"	3"	3"
Electronic Anode Connection	N8	inch	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"
Blind Connection	N9	inch	1¼"	1¼"	2"	2"	2"	2"	2"	2"
Gross Weight	G	kg	263	279	376	462	623	700	897	1048
Tilt Height	R	mm	2300	2305	2625	2630	2610	2965	3065	3635

The table shown above is prepared based on spare parts and equipments which belong to the standard products; all products have internal thread connection.

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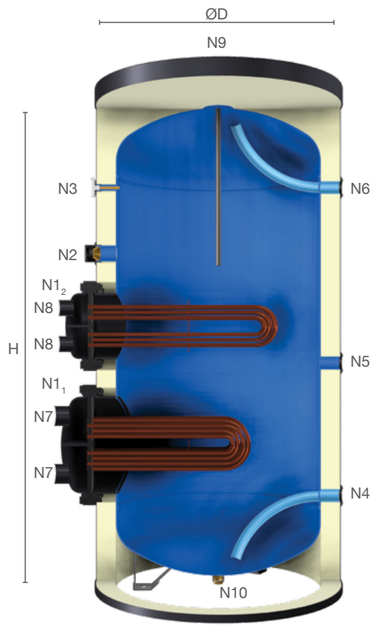
11.19 **KCD** DOUBLE COPPER COIL WATER HEATER

KODSAN



Volume
800L-5000L

Upper Heat Exchanger Maximum Heating Power
208 kW_h

Lower Heat Exchanger Maximum Heating Power
466 kW_h

Maximum Solar Collector Area
110 m^2

Heat Exchanger Maximum Operating Temperature
110°C

Heat Exchanger Maximum Operating Pressure
10 bar / 16 bar

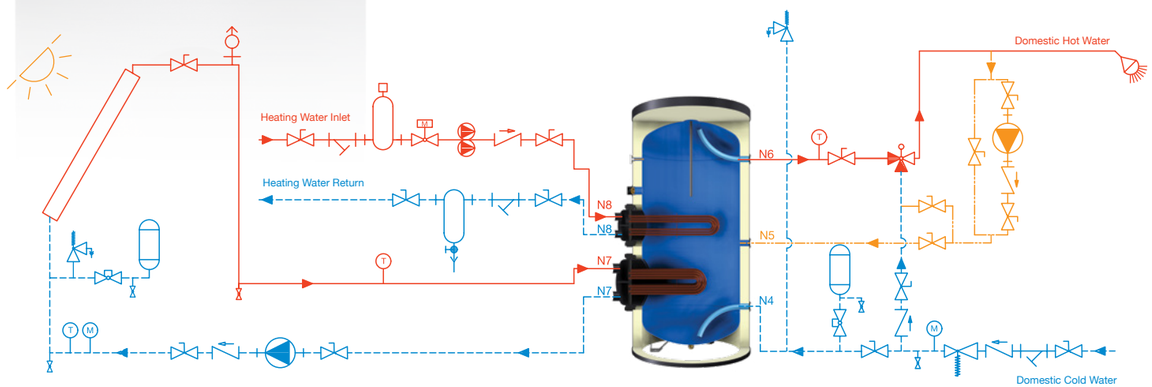
Domestic Hot Water Maximum Operating Temperature
95°C

Domestic Hot Water Maximum Operating Pressure
10 bar

Inner Surface Coating
Tank inner surface is enamelled (glass-lined) in accordance with DIN 4753-3 standard.

Manufactured in accordance with 2014/68/EU Pressure Equipment Directive, TS EN 13445-3, TS736 and TS EN 12897 standards.

INSTALLATION DIAGRAM



Relief valves with membrane should be installed at higher level than top of the tank.
Thus it is protected against high temperature and calcification and it is not necessary to discharge the tank when working on the relief valve.

The installaion diagram shown above is just an example. The installion must be done according to updated standards and instructions.

			800L-1000L	1500L-2000L	2500L-3000L	4000L-5000L
INSULATION	PU- 42kg/m³ HCFC-free polyurethane in accordance with the 814/2013 EU ErP Comission Regulations and TS EN 12897 Standards		x	x	x	x
	Soft PU- 15 kg/m³ soft polyurethane		STD/80 mm	STD/80 mm	STD/80 mm	STD/80 mm
	Soft PU- 26 kg/m³ flame retardant soft polyurethane		OPS/80 mm	OPS/80 mm	OPS/80 mm	OPS/80 mm
	Izomax- 50kg/m³ insulation with d0 fire class as well as with BL-S3 compatible with the ErP regulations following the 814/2013 EU Comission Regulations and TS EN 12897 Standards		OPS/80 mm	OPS/80 mm OPS/100 mm	OPS/80 mm	OPS/80 mm
COATING	Blueshell- Recyclable polyethylene cover that provides heat-saving		x	x	x	x
	Vinleks- Artificial Leather		STD	STD	STD	STD
	Izoqua- Waterproof PVC unit which is suitable for exterior usage. **(Optional only with the izomax insulation application)**		OPS	OPS	OPS	OPS
EQUIPMENT	Thermometer (0°C- 120°C)		STD/Ø100	STD/Ø100	STD/Ø100	STD/Ø100
	Steel Sensor Tube		STD/Ø9 mm 2 pieces	STD/Ø9 mm 2 pieces	STD/Ø9 mm 2 pieces	STD/Ø9 mm 2 pieces
	Cleaning & Control Flange	Upper Coil	STD/Ø274 mm	STD/Ø274-Ø324 mm	STD/Ø400 mm	STD/Ø400 mm
		Lower Coil	STD/Ø400 mm	STD/Ø400 mm	STD/Ø400-Ø500 mm	STD/Ø500 mm
	Electric Heater		OPS/2"	OPS/2"	OPS/2"	OPS/2"
CATHODIC PROTECTION	Magnesium Anode		x	x	x	x
	Electronic Anode		STD	STD	STD	STD
CARRIER ELEMENT	Steel leg system mounted on a palette from 3 different locations		STD	STD-x	x	x
	Circle steel leg system that provides circular floor contact		x	x-STD	STD	STD

STD: Abbreviation for spare parts and equipments which belong to the standard products.
OPS: Abbreviation for the optional spare parts and equipments for non-standart products.

	Code	Unit	11.19.20	11.19.21	11.19.22	11.19.23	11.19.24	11.19.25	11.19.26	11.19.27
Capacity	V	lt	800	1000	1500	2000	2500	3000	4000	5000
Insulation Type & Thickness	i	mm	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80
Diameter	ØD	mm	910	1010	1120	1310	1460	1460	1660	1660
Height	H	mm	2110	2070	2375	2280	2160	2580	2575	3230
Lower Heat Exchanger (Coil) Flange Connection	ØN1$_{-1}$	mm	Ø400	Ø400	Ø400	Ø400	Ø400	Ø500	Ø500	Ø500
Upper Heat Exchanger (Coil) Flange Connection	ØN1$_{-2}$	mm	Ø274	Ø274	Ø274	Ø324	Ø400	Ø400	Ø400	Ø400
Electric Heater Connection	N2	inch	2"	2"	2"	2"	2"	2"	2"	2"
Thermometer / Steel Sensor Tube Connections	N3	inch/mm	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9
Domestic Cold Water Inlet Connection	N4	inch	1¼"	1¼"	1¼"	1¼"	1½"	1½"	2"	2"
Circulation Return Connection	N5	inch	1¼"	1¼"	1¼"	1¼"	1½"	1½"	2"	2"
Domestic Hot Water Outlet Connection	N6	inch	1¼"	1¼"	1¼"	1¼"	1½"	1½"	2"	2"
Lower Heat Exchanger (Coil) Inlet/Outlet Connections	N7	inch	2½"	2½"	2½"	2½"	2½"	2½"	3"	3"
Upper Heat Exchanger (Coil) Inlet/Outlet Connections	N8	inch	1¼"	1¼"	1¼"	1½"	1½"	2"	2"	2"
Electronic Anode Connection	N9	inch	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"
Blind Connection	N10	inch	1¼"	1¼"	2"	2"	2"	2"	2"	2"
Gross Weight	G	kg	309	327	427	526	697	775	981	1136
Tilt Height	R	mm	2300	2305	2625	2630	2610	2965	3065	3635

The table shown above is prepared based on spare parts and equipments which belong to the standard products; all products have internal thread connection.

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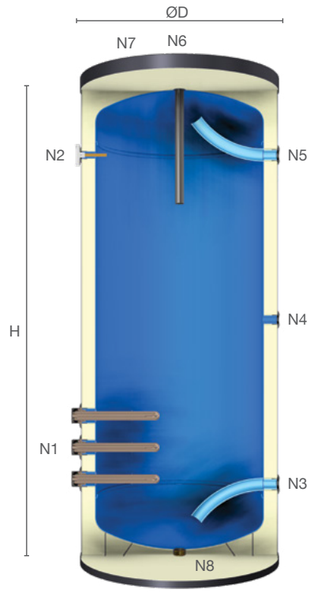
11.23 **KEB** ELECTRIC WATER HEATER



Volume
100L – 5000L

Maximum Electrical Heating Power
105 kW_e

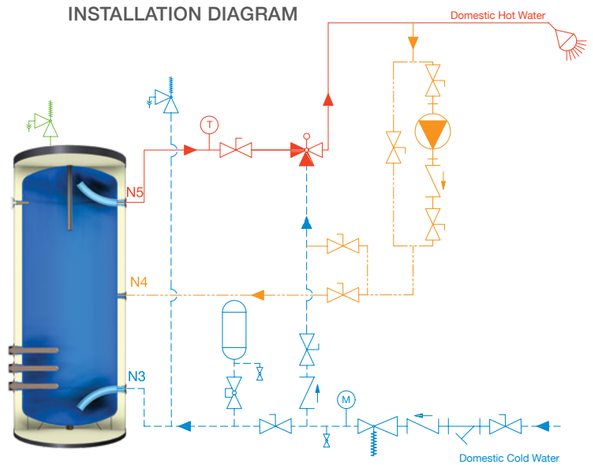
Domestic Hot Water Maximum Operating Temperature
95°C

Domestic Hot Water Maximum Operating Pressure
10 Bar

Inner Surface Coating
Tank inner surface is enamelled (glass-lined) in accordance with DIN 4753-3 standard.

Manufactured in accordance with 2014/68/EU Pressure Equipment Directive, TS EN 13445-3, TS736 and TS EN 12897 standards.

INSTALLATION DIAGRAM



Relief valves with membrane should be installed at higher level than top of the tank.
Thus it is protected against high temperature and calcification and it is not necessary to discharge the tank when working on the relief valve.

The installaion diagram shown above is just an example. The installion must be done according to updated standards and instructions.

		100L-500L	800L-1000L	1500L-2000L	2500L-3000L	4000L-5000L
INSULATION	PU- 42kg/m³ HCFC-free polyurethane in accordance with the 814/2013 EU ErP Comission Regulations and TS EN 12897 Standards	STD/50 mm	x	x	x	x
	Soft PU- 15 kg/m³ soft polyurethane	x	x	x	x	x
	Soft PU- 26 kg/m³ flame retardant soft polyurethane	x	STD/80 mm	STD/80 mm	STD/80 mm	STD/80 mm
	Izomax- 50kg/m³ insulation with d0 fire class as well as with BL-S3 compatible with the ErP regulations following the 814/2013 EU Comission Regulations and TS EN 12897 Standards	x	OPS/80 mm	OPS/80 mm OPS/100 mm	OPS/80 mm	OPS/80 mm
COATING	Blueshell- Recyclable polyethylene cover that provides heat-saving	x	x	x	x	x
	Sheet Metal- Electrostatic Powder Painted Sheet	STD	x	x	x	x
	Vinleks- Artificial Leather	x	STD	STD	STD	STD
	Izoqua- Waterproof PVC unit which is suitable for exterior usage. **(Optional only with the izomax insulation application)**	x	OPS	OPS	OPS	OPS
EQUIPMENT	Thermometer (0°C- 120°C)	STD/Ø63	STD/Ø100	STD/Ø100	STD/Ø100	STD/Ø100
	Steel Sensor Tube	x	x	x	x	x
	Electric Heater	STD/ 1½" 2kW-30kW	STD/ 2" 2kW-105kW	STD/ 2" 2kW-105kW	STD/ 2" 2kW-105kW	STD/ 2" 2kW-105kW
	Residual Current Device	OPS	OPS	OPS	OPS	OPS
	T&P Valve Connection	STD/ ¾"	STD/ ¾"	STD/ ¾"	STD/ ¾"	STD/ ¾"
CATHODIC PROTECTION	Magnesium Anode	STD	STD	STD	STD	STD
	Electronic Anode	OPS	OPS	OPS	OPS	OPS
CARRIER ELEMENT	Steel leg system mounted on a palette from 3 different locations	STD	STD	STD-x	x	x
	Circle steel leg system that provides circular floor contact	x	x	x-STD	STD	STD

STD: Abbreviation for spare parts and equipments which belong to the standard products.
OPS: Abbreviation for the optional spare parts and equipments for non-standart products.

	Code	Unit	11.23.11	11.23.13	11.23.14	11.23.16	11.23.18	11.23.20	11.23.21	11.23.22	11.23.23	11.23.24	11.23.25	11.23.26	11.23.27
Capacity	V	lt	100	160	200	300	500	800	1000	1500	2000	2500	3000	4000	5000
Insulation Type & Thickness	i	mm	PU/50	PU/50	PU/50	PU/50	PU/50	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80
Diameter	ØD	mm	480	580	580	580	740	910	1010	1120	1310	1460	1460	1660	1660
Height	H	mm	1110	1135	1340	1860	1845	2110	2070	2375	2280	2160	2580	2575	3230
Electric Heater Connection	N1	inch	THE HEATER MAY BE CHOSEN OPTIONALLY												
Thermometer / Steel Sensor Tube Connections	N2	inch/mm	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9
Domestic Cold Water Inlet Connection	N3	inch	¾"	¾"	¾"	¾"	1"	1¼"	1¼"	1¼"	1¼"	1½"	1½"	1½"	1½"
Circulation Return Connection	N4	inch	¾"	¾"	¾"	¾"	¾"	1"	1"	1"	1"	1"	1¼"	1¼"	1¼"
Domestic Hot Water Outlet Connection	N5	inch	¾"	¾"	¾"	¾"	1"	1¼"	1¼"	1¼"	1¼"	1½"	1½"	1½"	1½"
Magnesium Anode Connection	N6	inch	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"
P&T Valve Connection	N7	inch	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"
Blind Connection	N8	inch	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	2"	2"	2"	2"	2"	2"
Gross Weight	G	kg	THE WEIGHT OF THE PRODUCTS MAY VARY ACCORDING TO CHOSEN HEATER/S. THE WEIGHT OF THE PRODUCTS WITHOUT HEATER/S ARE EQUAL TO ENAMELED ACCUMULATION TANK.												
Tilt Height	R	mm	1210	1275	1460	1950	1990	2300	2305	2625	2630	2610	2965	3065	3635

The table shown above is prepared based on spare parts and equipments which belong to the standard products; all products have internal thread connection.

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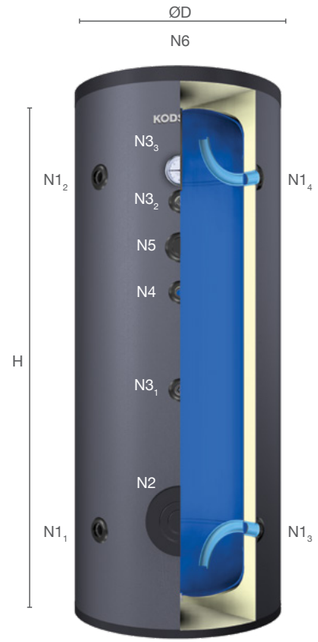
51.11 **KAT** ENAMELLED ACCUMULATION TANK

KODSAN



Volume
100L – 5000L

Domestic Hot Water Maximum Operating Temperature
95°C

Domestic Hot Water Maximum Operating Pressure
10 Bar

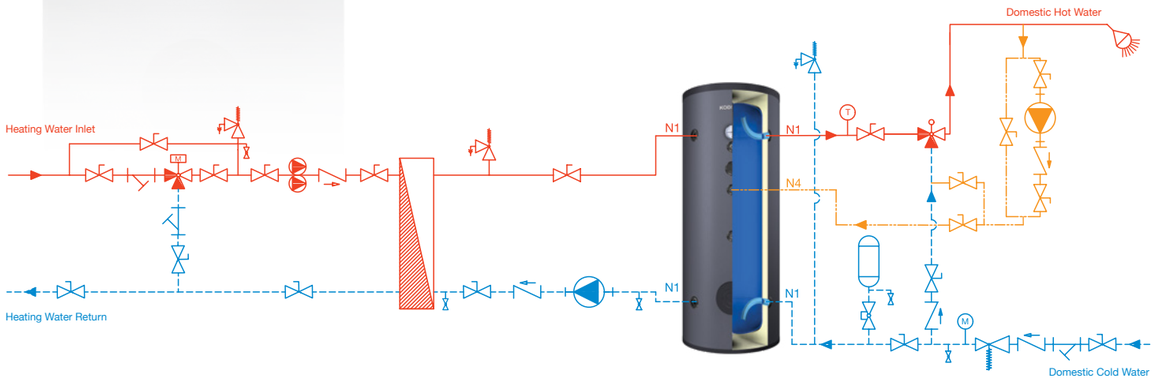
Inner Surface Coating
Tank inner surface is enamelled (glass-lined) in accordance with DIN 4753-3 standard.

		100L-500L	800L-1000L	1500L-2000L	2500L-3000L	4000L-5000L
INSULATION	PU- 42kg/m³ HCFC-free polyurethane in accordance with the 814/2013 EU ErP Comission Regulations and TS EN 12897 Standards	STD/50 mm	x	x	x	x
	Soft PU- 15 kg/m³ soft polyurethane	x	STD/80 mm	STD/80 mm	STD/80 mm	STD/80 mm
	Soft PU- 26 kg/m³ flame retardant soft polyurethane	x	OPS/80 mm	OPS/80 mm	OPS/80 mm	OPS/80 mm
	Izomax- 50kg/m³ insulation with d0 fire class as well as with BL-S3 compatible with the ErP regulations following the 814/2013 EU Comission Regulations and TS EN 12897 Standards	x	OPS/80 mm	OPS/80 mm OPS/100 mm	OPS/80 mm	OPS/80 mm
COATING	Blueshell- Recyclable polyethylene cover that provides heat-saving	STD	x	x	x	x
	Vinleks- Artificial Leather	x	STD	STD	STD	STD
	Izoqua- Waterproof PVC unit which is suitable for exterior usage. **(Optional only with the izomax insulation application)**	x	OPS	OPS	OPS	OPS
EQUIPMENT	Thermometer (0°C- 120°C)	STD/Ø63	STD/Ø100	STD/Ø100	STD/Ø100	STD/Ø100
	Steel Sensor Tube	STD/Ø9 mm 2 pieces	STD/Ø9 mm 2 pieces	STD/Ø9 mm 2 pieces	STD/Ø9 mm 2 pieces	STD/Ø9 mm 2 pieces
	Cleaning & Control Flange	STD/Ø100 mm	STD/Ø125 mm OPS/Ø400 mm	STD/Ø125 mm OPS/Ø400 mm	STD/Ø125 mm OPS/Ø400 mm	STD/Ø125 mm OPS/Ø400 mm
	Electric Heater	OPS/1½"	OPS/2"	OPS/2"	OPS/2"	OPS/2"
CATHODIC PROTECTION	Magnesium Anode	STD	STD	STD	STD	STD
	Electronic Anode	OPS	OPS	OPS	OPS	OPS
CARRIER ELEMENT	Steel leg system mounted on a palette from 3 different locations	STD	STD	STD-x	x	x
	Circle steel leg system that provides circular floor contact	x	x	x-STD	STD	STD

STD: Abbreviation for spare parts and equipments which belong to the standard products.
OPS: Abbreviation for the optional spare parts and equipments for non-standart products.

Manufactured in accordance with 2014/68/EU Pressure Equipment Directive, TS EN 13445-3, TS736 and TS EN 12897 standards.

INSTALLATION DIAGRAM



Relief valves with membrane should be installed at higher level than top of the tank.
Thus it is protected against high temperature and calcification and it is not necessary to discharge the tank when working on the relief valve.

The installaion diagram shown above is just an example. The installion must be done according to updated standards and instructions.

	Code	Unit	51.11.11	51.11.13	51.11.14	51.11.16	51.11.18	51.11.20	51.11.21	51.11.22	51.11.23	51.11.24	51.11.25	51.11.26	51.11.27
Capacity	V	lt	100	160	200	300	500	800	1000	1500	2000	2500	3000	4000	5000
Insulation Type & Thickness	i	mm	PU/50	PU/50	PU/50	PU/50	PU/50	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80
Diameter	ØD	mm	480	580	580	580	740	910	1010	1120	1310	1460	1460	1660	1660
Height	H	mm	1110	1135	1340	1860	1845	2110	2070	2375	2280	2160	2580	2575	3230
Primary/Secondary Energy Inlet/Outlet Connections	N1	inch	1"	1¼"	1¼"	1¼"	1¼"	1½"	1½"	1½"	1½"	2"	2"	3"	3"
Cleaning & Control Flange Diameter	N2	inch	Ø100	Ø100	Ø100	Ø100	Ø100	Ø125	Ø125	Ø125	Ø125	Ø125	Ø125	Ø125	Ø125
Thermometer / Steel Sensor Tube Connections	N3	inch/mm	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9	½"/ 9
Circulation Return Connection	N4	inch	¾"	¾"	¾"	¾"	¾"	1¼"	1¼"	1¼"	1¼"	1½"	1½"	2"	2"
Electric Heater Connection	N5	inch	1½"	1½"	1½"	1½"	1½"	2"	2"	2"	2"	2"	2"	2"	2"
Magnesium Anode Connection	N6	inch	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"
Blind Connection	N7	inch	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	2"	2"	2"	2"	2"	2"
Gross Weight	G	kg	40	58	65	75	113	190	205	295	370	520	575	760	890
Tilt Height	R	mm	1210	1275	1460	1950	1990	2300	2305	2625	2630	2610	2965	3065	3635

The table shown above is prepared based on spare parts and equipments which belong to the standard products; all products have internal thread connection.

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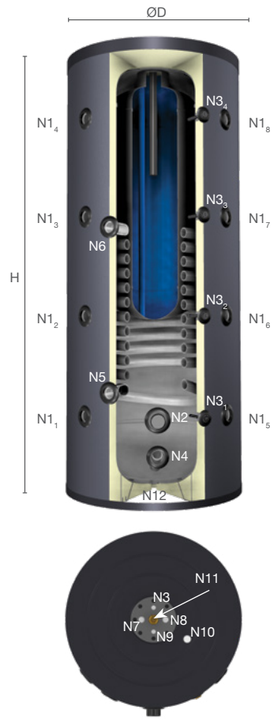
101.12 **KCB-S** SINGLE COIL COMBI BUFFER TANK

KODSAN



BULK ORDER

Volume
500L/100L-2000L/350L

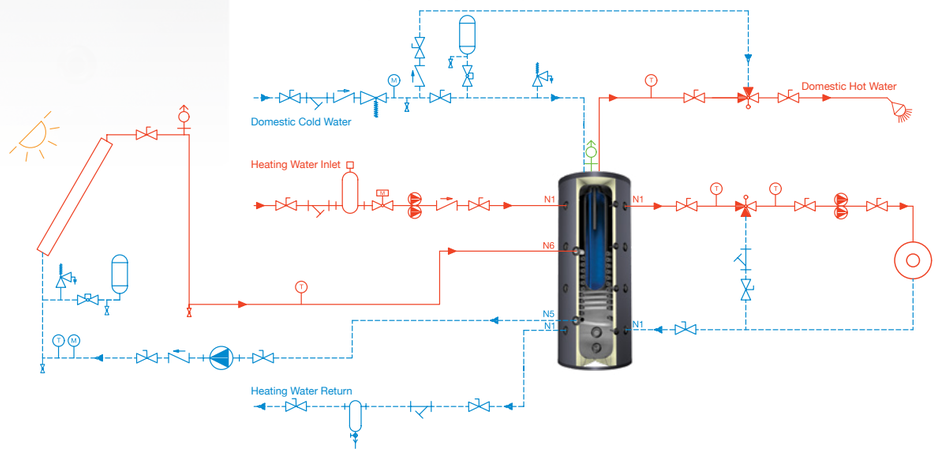
Domestic Hot Water Maximum Operating Temperature
95°C

Domestic Hot Water Maximum Operating Pressure
Inner Tank: 6 bar / Outer Tank: 3 bar

Inner Surface Coating
Tank inner surface is enamelled (glass-lined) in accordance with DIN 4753-3 standard.

Manufactured in accordance with 2014/68/EU Pressure Equipment Directive, TS EN 13445-3, TS736 and TS EN 12897 standards.

INSTALLATION DIAGRAM



Relief valves with membrane should be installed at higher level than top of the tank.
Thus it is protected against high temperature and calcification and it is not necessary to discharge the tank when working on the relief valve.
The installaion diagram shown above is just an example. The installion must be done according to updated standards and instructions.

		500L/ 100L-160L	800L-1000L/ 160L-200L	1500L/ 200L-350L	2000L/ 200L-350L
INSULATION	PU- 42kg/m³ HCFC-free polyurethane in accordance with the 814/2013 EU ErP Comission Regulations and TS EN 12897 Standards	STD/50 mm	x	x	x
	Soft PU- 15 kg/m³ soft polyurethane	x	STD/80 mm	STD/80 mm	STD/80 mm
	Soft PU- 26 kg/m³ flame retardant soft polyurethane	x	OPS/80 mm	OPS/80 mm	OPS/80 mm
	Izomax- 50kg/m³ insulation with d0 fire class as well as with BL-S3 compatible with the ErP regulations following the 814/2013 EU Comission Regulations and TS EN 12897 Standards	x	x	x	x
COATING	Blueshell- Recyclable polyethylene cover that provides heat-saving	STD	x	x	x
	Vinleks- Artificial Leather	x	STD	STD	STD
	Izoqua- Waterproof PVC unit which is suitable for exterior usage. **(Optional only with the izomax insulation application)**	x	OPS	OPS	OPS
EQUIPMENT	Thermometer (0°C- 120°C)	OPS/Ø63	OPS/Ø100	OPS/Ø100	OPS/Ø100
	Steel Sensor Tube	STD/Ø9 mm 4 pieces	STD/Ø9 mm 4 pieces	STD/Ø9 mm 4 pieces	STD/Ø9 mm 4 pieces
	Cleaning & Control Flange	STD/Ø100 mm	STD/Ø125 mm	STD/Ø125 mm	STD/Ø125 mm
	Electric Heater	OPS/1½"	OPS/2"	OPS/2"	OPS/2"
CATHODIC PROTEC-TION	Magnesium Anode	STD	STD	STD	STD
	Electronic Anode	OPS	OPS	OPS	OPS
CARRIER ELEMENT	Steel leg system mounted on a palette from 3 different locations	STD	STD	STD	x
	Circle steel leg system that provides circular floor contact	x	x	x	STD

STD: Abbreviation for spare parts and equipments which belong to the standard products.
OPS: Abbreviation for the optional spare parts and equipments for non-standart products.

	Code	Unit	101.12.18.1	101.12.18.2	101.12.20.2	101.12.21.2	101.12.21.3	101.12.22.3	101.12.22.4	101.12.23.3	101.12.23.4
Capacity	V	lt	500/100	500/160	800/160	1000/160	1000/200	1500/200	1500/350	2000/200	2000/350
Insulation Type & Thickness	i	mm	PU/50	PU/50	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80
Diameter	ØD	mm	740	740	910	1010	1010	1120	1120	1310	1260
Height	H	mm	1845	1845	2110	2070	2070	2375	375	2280	2280
Primary/Secondary Energy Inlet/Outlet Connections	N1	inch	1¼"	1¼"	1¼"	1¼"	1¼"	1½"	1½"	1½"	1½"
Electric Heater Connection	N2	inch	1½"	1½"	2"	2"	2"	2"	2"	2"	2"
Thermometer & Sensor Tube Connections	N3	inch	½"	½"	½"	½"	½"	½"	½"	½"	½"
Drain Connection	N4	inch	1¼"	1¼"	1¼"	1¼"	1¼"	1½"	1½"	1½"	1½"
Heat Exchanger (Coil) Inlet/ Outlet Connections	N5-N6	inch	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"
Domestic Cold Water Inlet Connection	N7	inch	¾"	¾"	¾"	¾"	¾"	¾"	1"	1"	1"
Domestic Hot Water Outlet Connection	N8	inch	¾"	¾"	¾"	¾"	¾"	¾"	1"	1"	1"
Inner Tank Air Ventilation Connections	N9	inch	½"	½"	½"	½"	½"	½"	½"	½"	½"
Outer Tank Air Ventilation Connections	N10	inch	½"	½"	½"	½"	½"	½"	½"	½"	½"
Magnesium Anode Connection	N11	inch	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"
Blind Connection	N12	inch	1¼"	1¼"	1¼"	1¼"	1¼"	2"	2"	2"	2"
Gross Weight	G	kg	176	190	290	305	317	415	427	510	522
Tilt Height	R	mm	1990	1990	2300	2305	2305	2625	2625	2630	2605

The table shown above is prepared based on spare parts and equipments which belong to the standard products; all products have internal thread connection.

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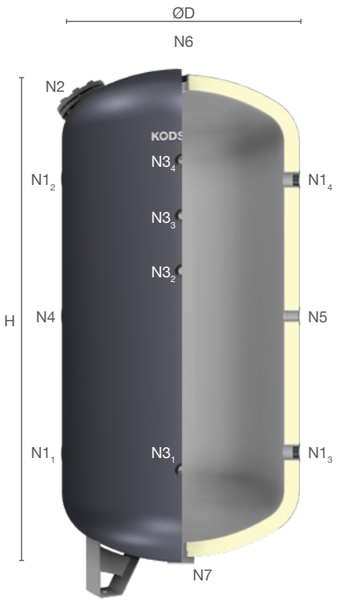
51.12 **KGA** GALVANIZED ACCUMULATION TANK

KODSAN



Volume
800L – 5000L

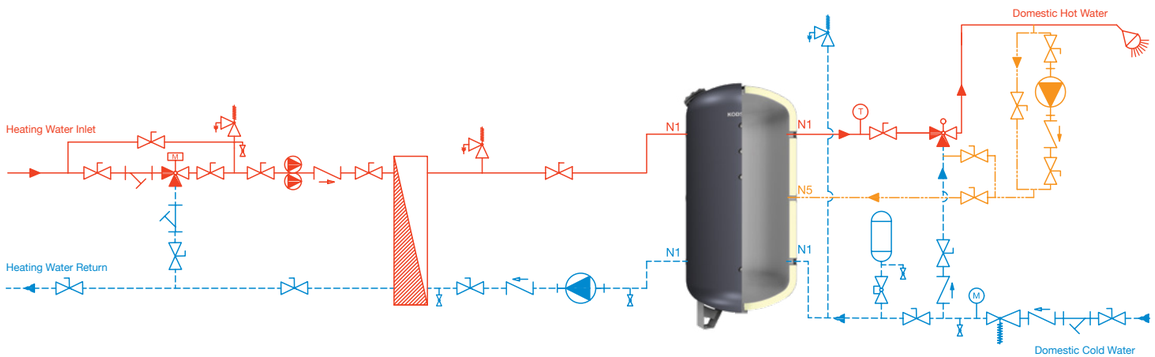
Domestic Hot Water Maximum Operating Temperature
95°C

Domestic Hot Water Maximum Operating Pressure
10 Bar / 16 bar

Inner Surface Coating
Tank is made of S355J2 quality steel and galvanized in accordance with TS EN ISO 1461 standard.

Manufactured in accordance with 2014/68/EU Pressure Equipment Directive, TS EN 13445-3, TS736 and TS EN 12897 standards.

INSTALLATION DIAGRAM



Relief valves with membrane should be installed at higher level than top of the tank.
Thus it is protected against high temperature and calcification and it is not necessary to discharge the tank when working on the relief valve.

The installaion diagram shown above is just an example. The installion must be done according to updated standards and instructions.

		800L-1000L	1500L-2000L	2500L-3000L	4000L-5000L
INSULATION	PU- 42kg/m³ HCFC-free polyurethane in accordance with the 814/2013 EU ErP Comission Regulations and TS EN 12897 Standards	x	x	x	x
	Soft PU- 15 kg/m³ soft polyurethane	STD/60 mm	STD/60 mm	STD/60 mm	STD/60 mm
	Soft PU- 26 kg/m³ flame retardant soft polyurethane	OPS/60 mm	OPS/60 mm	OPS/60 mm	OPS/60 mm
	Izomax- 50kg/m³ insulation with d0 fire class as well as with BL-S3 compatible with the ErP regulations following the 814/2013 EU Comission Regulations and TS EN 12897 Standards	x	x	x	x
COATING	Blueshell- Recyclable polyethylene cover that provides heat-saving	x	x	x	x
	Vinleks- Artificial Leather	STD	STD	STD	STD
	Izoqua- Waterproof PVC unit which is suitable for exterior usage. **(Optional only with the izomax insulation application)**	x	x	x	x
EQUIPMENT	Thermometer (0°C- 120°C)	x	x	x	x
	Sensor Tube	OPS/¾" 4 pieces	OPS/¾" 4 pieces	OPS/¾" 4 pieces	OPS/¾" 4 pieces
	Cleaning & Control Flange	STD/DN100	STD/DN125	STD/DN150	STD/DN150
	Electric Heater	OPS/1"-1¼"	OPS/1½"	OPS/2"	OPS/2"
CATHODIC PROTECTION	Magnesium Anode	x	x	x	x
	Electronic Anode	x	x	x	x
CARRIER ELEMENT	Steel leg system mounted on a palette from 3 different locations	STD	STD	STD	STD
	Circle steel leg system that provides circular floor contact	x	x	x	x

STD: Abbreviation for spare parts and equipments which belong to the standard products.
OPS: Abbreviation for the optional spare parts and equipments for non-standart products.

	Code	Unit	51.12.20	51.12.21	51.12.22	51.12.23	51.12.24	51.12.25	51.12.26	51.12.27
Capacity	V	lt	800	1000	1500	2000	2500	3000	4000	5000
Insulation Type & Thickness	i	mm	SPU/60	SPU/60	SPU/60	SPU/60	SPU/60	SPU/60	SPU/60	SPU/60
Diameter	ØD	mm	870	970	1080	1270	1420	1420	1620	1620
Height	H	mm	2100	2090	2150	2650	2480	2880	2820	3420
Primary/Secondary Energy Inlet/Outlet Connections	N1	inch	1½"	2"	2½"	2½"	3"	3"	3"	3"
Cleaning & Control Flange Diameter	N2	DN	DN100	DN100	DN125	DN125	DN150	DN150	DN150	DN150
Thermometer & Sensor Connections	N3	inch	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"
Electric Heater Connection	N4	inch	1"	1¼"	1½"	1½"	2"	2"	2"	2"
Circulation Return Connection	N5	inch	1"	1¼"	1½"	1½"	2"	2"	2"	2"
Air Ventilation Connection	N6	inch	1½"	2"	2½"	2½"	3"	3"	3"	3"
Blind Connection	N7	inch	1"	1¼"	1½"	1½"	2"	2"	2"	2"
Gross Weight	G	kg	220	250	360	420	490	540	820	930
Tilt Height	R	mm	2275	2305	2475	2920	2860	3215	3255	3790

The table shown above is prepared based on spare parts and equipments which belong to the standard products; all products have internal thread connection.

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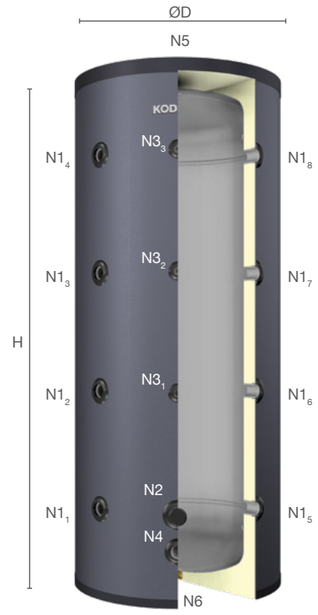
101.13 **KBT-B** BUFFER TANK

KODSAN



BULK ORDER

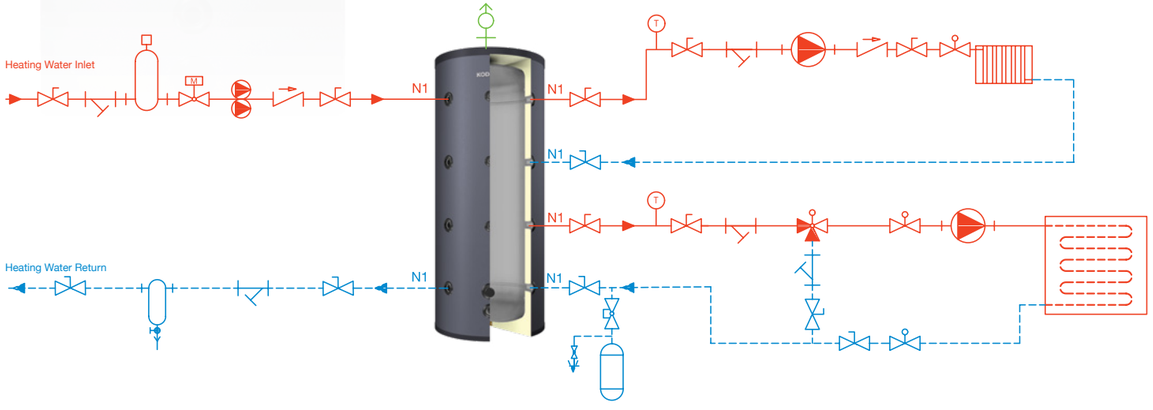
Volume
100L – 5000L

Domestic Hot Water Maximum Operating Temperature
95°C

Domestic Hot Water Maximum Operating Pressure
6 Bar

Manufactured in accordance with 2014/68/EU Pressure Equipment Directive, TS EN 13445-3, TS736 and TS EN 12897 standards.

INSTALLATION DIAGRAM



The installaion diagram shown above is just an example. The installion must be done according to updated standards and instructions.

		100L-300L	500L	800L-1000L	1500L-2000L	2500L-3000L	4000L-5000L
INSULATION	PU- 42kg/m³ HCFC-free polyurethane in accordance with the 814/2013 EU ErP Comission Regulations and TS EN 12897 Standards	STD/50 mm	STD/50 mm	x	x	x	x
	Soft PU- 15 kg/m³ soft polyurethane	x	x	STD/80 mm	STD/80 mm	STD/80 mm	STD/80 mm
	Soft PU- 26 kg/m³ flame retardant soft polyurethane	x	x	OPS/80 mm	OPS/80 mm	OPS/80 mm	OPS/80 mm
	Izomax- 50kg/m³ insulation with d0 fire class as well as with BL-S3 compatible with the ErP regulations following the 814/2013 EU Comission Regulations and TS EN 12897 Standards	x	x	OPS/80 mm	OPS/80 mm OPS/100 mm	OPS/80 mm	OPS/80 mm
COATING	Blueshell- Recyclable polyethylene cover that provides heat-saving	STD	STD	x	x	x	x
	Vinleks- Artificial Leather	x	x	STD	STD	STD	STD
	Izoqua- Waterproof PVC unit which is suitable for exterior usage. **(Optional only with the izomax insulation application)**	x	x	OPS	OPS	OPS	OPS
EQUIPMENT	Thermometer (0°C- 120°C)	OPS/Ø63	OPS/Ø63	OPS/Ø100	OPS/Ø100	OPS/Ø100	OPS/Ø100
	Steel Sensor Tube	OPS/Ø9 mm 3 pieces	OPS/Ø9 mm 3 pieces	OPS/Ø9 mm 3 pieces	OPS/Ø9 mm 3 pieces	OPS/Ø9 mm 3 pieces	OPS/Ø9 mm 3 pieces
	Cleaning & Control Flange	x	x	x	x	x	x
	Electric Heater	x	OPS/1½"	OPS/2"	OPS/2"	OPS/2"	OPS/2"
	Air Ventilation Connection	STD/1¼"	STD/1¼"	STD/1¼"	STD/1¼"	STD/1¼"	STD/1¼"
CATHODIC PROTECTION	Magnesium Anode	x	x	x	x	x	x
	Electronic Anode	x	x	x	x	x	x
CARRIER ELEMENT	Steel leg system mounted on a palette from 3 different locations	STD	STD	STD	STD-x	x	x
	Circle steel leg system that provides circular floor contact	x	x	x	x-STD	STD	STD

STD: Abbreviation for spare parts and equipments which belong to the standard products.
OPS: Abbreviation for the optional spare parts and equipments for non-standart products.

	Code	Unit	101.13.11	101.13.13	101.13.14	101.13.16	101.13.18	101.13.20	101.13.21	101.13.22	101.13.23	101.13.24	101.13.25	101.13.26	101.13.27
Capacity	V	lt	100	160	200	300	500	800	1000	1500	2000	2500	3000	4000	5000
Insulation Type & Thickness	i	mm	PU/50	PU/50	PU/50	PU/50	PU/50	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80
Diameter	ØD	mm	480	580	580	700	740	910	1010	1120	1310	1460	1460	1660	1660
Height	H	mm	1110	1135	1340	1220	1845	2110	2070	2375	2280	2160	2580	2575	3230
Primary/Secondary Energy Inlet/Outlet Connections*	N1	inch	1"	1¼"	1¼"	1¼"	1¼"	1½"	1½"	1½"	1½"	2"	2"	3"	3"
Electric Heater Connection	N2	inch	-	-	-	-	1½"	2"	2"	2"	2"	2"	2"	2"	2"
Thermometer & Sensor Tube Connections	N3	inch	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"
Drain Connection	N4	inch	1"	1¼"	1¼"	1¼"	1¼"	1½"	1½"	1½"	1½"	2"	2"	3"	3"
Air Ventilation Connection	N5	inch	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"
Blind Connection	N6	inch	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	2"	2"	2"	2"	2"	2"
Gross Weight	G	kg	36	54	60	70	106	183	197	286	360	510	563	745	870
Tilt Height	R	mm	1210	1275	1460	1410	1990	2300	2305	2625	2630	2610	2965	3065	3635

* : The number of energy inlet/outlet connections is 4 for 100L-300L products, 2 for the primary circuit, 2 for the secondary circuit; and 8 for 500L-5000L products, 4 for the primary circuit, and 4 for the secondary circuit.

The table shown above is prepared based on spare parts and equipments which belong to the standard products; all products have internal thread connection.

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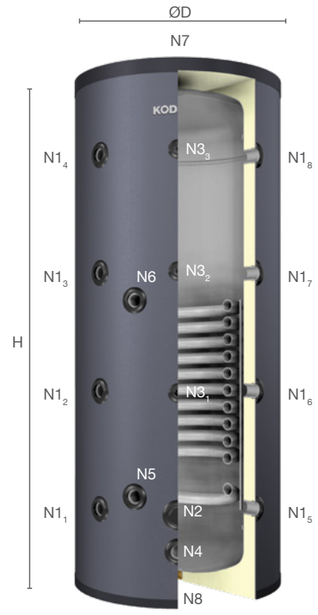
101.14 **KBT-S** SINGLE COIL BUFFER TANK

KODSAN



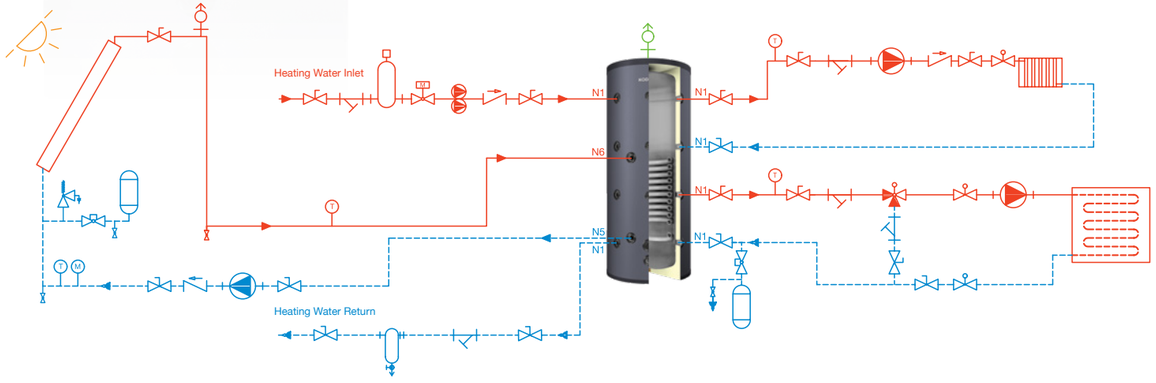
Volume
160L – 3000L

Domestic Hot Water Maximum Operating Temperature
95°C

Domestic Hot Water Maximum Operating Pressure
6 Bar

Manufactured in accordance with 2014/68/EU Pressure Equipment Directive, TS EN 13445-3, TS736 and TS EN 12897 standards.

INSTALLATION DIAGRAM



The installaion diagram shown above is just an example. The installion must be done according to updated standards and instructions.

		160L-300L	500L	800L-1000L	1500L-2000L	2500L-3000L
INSULATION	PU- 42kg/m³ HCFC-free polyurethane in accordance with the 814/2013 EU ErP Comission Regulations and TS EN 12897 Standards	STD/50 mm	STD/50 mm	x	x	x
	Soft PU- 15 kg/m³ soft polyurethane	x	x	STD/80 mm	STD/80 mm	STD/80 mm
	Soft PU- 26 kg/m³ flame retardant soft polyurethane	x	x	OPS/80 mm	OPS/80 mm	OPS/80 mm
	Izomax- 50kg/m³ insulation with d0 fire class as well as with BL-S3 compatible with the ErP regulations following the 814/2013 EU Comission Regulations and TS EN 12897 Standards	x	x	OPS/80 mm	OPS/80 mm OPS/100 mm	OPS/80 mm
COATING	Blueshell- Recyclable polyethylene cover that provides heat-saving	STD	STD	x	x	x
	Vinleks- Artificial Leather	x	x	STD	STD	STD
	Izoqua- Waterproof PVC unit which is suitable for exterior usage. **(Optional only with the izomax insulation application)**	x	x	OPS	OPS	OPS
EQUIPMENT	Thermometer (0°C- 120°C)	OPS/Ø63	OPS/Ø63	OPS/Ø100	OPS/Ø100	OPS/Ø100
	Steel Sensor Tube	OPS/Ø9 mm 3 pieces	OPS/Ø9 mm 3 pieces	OPS/Ø9 mm 3 pieces	OPS/Ø9 mm 3 pieces	OPS/Ø9 mm 3 pieces
	Cleaning & Control Flange	x	x	x	x	x
	Electric Heater	x	OPS/1½"	OPS/2"	OPS/2"	OPS/2"
	Air Ventilation Connection	STD/1¼"	STD/1¼"	STD/1¼"	STD/1¼"	STD/1¼"
CATHODIC PROTECTION	Magnesium Anode	x	x	x	x	x
	Electronic Anode	x	x	x	x	x
CARRIER ELEMENT	Steel leg system mounted on a palette from 3 different locations	STD	STD	STD	STD-x	x
	Circle steel leg system that provides circular floor contact	x	x	x	x-STD	STD

STD: Abbreviation for spare parts and equipments which belong to the standard products.
OPS: Abbreviation for the optional spare parts and equipments for non-standart products.

	Code	Unit	101.14.13	101.14.14	101.14.16	101.14.18	101.14.20	101.14.21	101.14.22	101.14.23	101.14.24	101.14.25
Capacity	V	lt	160	200	300	500	800	1000	1500	2000	2500	3000
Insulation Type & Thickness	i	mm	PU/50	PU/50	PU/50	PU/50	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80
Diameter	ØD	mm	580	580	700	740	910	1010	1120	1310	1460	1460
Height	H	mm	1135	1340	1220	1845	2110	2070	2375	2280	2160	2580
Primary/Secondary Energy Inlet/Outlet Connections*	N1	inch	1¼"	1¼"	1¼"	1¼"	1½"	1½"	1½"	1½"	2"	2"
Electric Heater Connection	N2	inch	-	-	-	1½"	2"	2"	2"	2"	2"	2"
Thermometer & Sensor Tube Connections	N3	inch	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"
Drain Connection	N4	inch	1¼"	1¼"	1¼"	1¼"	1½"	1½"	1½"	1½"	2"	2"
Heat Exchanger (Coil) Inlet/ Outlet Connections	N5-N6	inch	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1½"	1½"
Air Ventilation Connection	N7	inch	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"
Blind Connection	N8	inch	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	2"	2"	2"	2"
Gross Weight	G	kg	70	71	93	143	238	252	351	445	640	722
Tilt Height	R	mm	1275	1460	1410	1990	2300	2305	2625	2630	2610	2965

* : The number of energy inlet/outlet connections is 4 for 100L-300L products, 2 for the primary circuit, 2 for the secondary circuit; and 8 for 500L-3000L products, 4 for the primary circuit, and 4 for the secondary circuit.

The table shown above is prepared based on spare parts and equipments which belong to the standard products; all products have internal thread connection.

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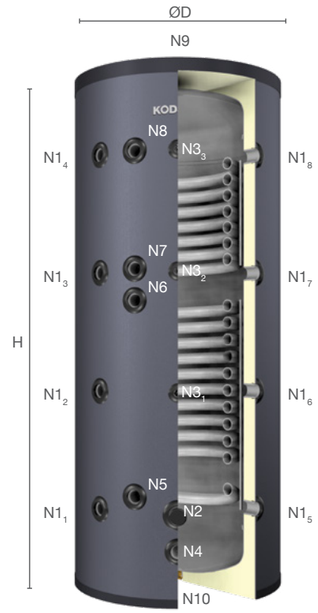
101.15 **KBT-D** DOUBLE COIL BUFFER TANK

KODSAN



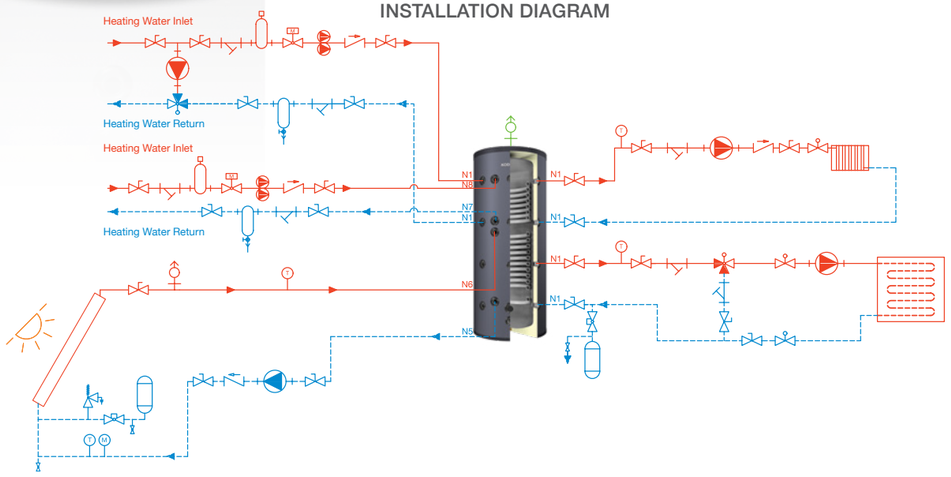
Volume
160L – 3000L

Domestic Hot Water Maximum Operating Temperature
95°C

Domestic Hot Water Maximum Operating Pressure
6 Bar

Manufactured in accordance with 2014/68/EU Pressure Equipment Directive, TS EN 13445-3, TS736 and TS EN 12897 standards.

INSTALLATION DIAGRAM



The installaion diagram shown above is just an example. The installion must be done according to updated standards and instructions.

		160L-300L	500L	800L-1000L	1500L-2000L	2500L-3000L
INSULATION	PU- 42kg/m³ HCFC-free polyurethane in accordance with the 814/2013 EU ErP Comission Regulations and TS EN 12897 Standards	STD/50 mm	STD/50 mm	x	x	x
	Soft PU- 15 kg/m³ soft polyurethane	x	x	STD/80 mm	STD/80 mm	STD/80 mm
	Soft PU- 26 kg/m³ flame retardant soft polyurethane	x	x	OPS/80 mm	OPS/80 mm	OPS/80 mm
	Izomax- 50kg/m³ insulation with d0 fire class as well as with BL-S3 compatible with the ErP regulations following the 814/2013 EU Comission Regulations and TS EN 12897 Standards	x	x	OPS/80 mm	OPS/80 mm OPS/100 mm	OPS/80 mm
COATING	Blueshell- Recyclable polyethylene cover that provides heat-saving	STD	STD	x	x	x
	Vinleks- Artificial Leather	x	x	STD	STD	STD
	Izoqua- Waterproof PVC unit which is suitable for exterior usage. **(Optional only with the izomax insulation application)**	x	x	OPS	OPS	OPS
EQUIPMENT	Thermometer (0°C- 120°C)	OPS/Ø63	OPS/Ø63	OPS/Ø100	OPS/Ø100	OPS/Ø100
	Steel Sensor Tube	OPS/Ø9 mm 3 pieces	OPS/Ø9 mm 3 pieces	OPS/Ø9 mm 3 pieces	OPS/Ø9 mm 3 pieces	OPS/Ø9 mm 3 pieces
	Cleaning & Control Flange	x	x	x	x	x
	Electric Heater	x	OPS/1½"	OPS/2"	OPS/2"	OPS/2"
	Air Ventilation Connection	STD/1¼"	STD/1¼"	STD/1¼"	STD/1¼"	STD/1¼"
CATHODIC PROTECTION	Magnesium Anode	x	x	x	x	x
	Electronic Anode	x	x	x	x	x
CARRIER ELEMENT	Steel leg system mounted on a palette from 3 different locations	STD	STD	STD	STD-x	x
	Circle steel leg system that provides circular floor contact	x	x	x	x-STD	STD

STD: Abbreviation for spare parts and equipments which belong to the standard products.
OPS: Abbreviation for the optional spare parts and equipments for non-standart products.

	Code	Unit	101.15.13	101.15.14	101.15.16	101.15.18	101.15.20	101.15.21	101.15.22	101.15.23	101.15.24	101.15.25
Capacity	V	lt	160	200	300	500	800	1000	1500	2000	2500	3000
Insulation Type & Thickness	i	mm	PU/50	PU/50	PU/50	PU/50	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80
Diameter	ØD	mm	580	580	700	740	910	1010	1120	1310	1460	1460
Height	H	mm	1135	1340	1220	1845	2110	2070	2375	2280	2160	2580
Primary/Secondary Energy Inlet/Outlet Connections	N1	inch	1¼"	1¼"	1¼"	1¼"	1½"	1½"	1½"	1½"	2"	2"
Electric Heater Connection	N2	inch	-	-	-	1½"	2"	2"	2"	2"	2"	2"
Thermometer & Sensor Tube Connections	N3	inch	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"
Drain Connection	N4	inch	1¼"	1¼"	1¼"	1¼"	1½"	1½"	1½"	1½"	2"	2"
Lower Heat Exchanger (Coil) Inlet/Outlet Connections	N5-N6	inch	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1½"	1½"
Upper Heat Exchanger (Coil) Inlet/Outlet Connections	N7-N8	inch	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1½"	1½"
Air Ventilation Connection	N9	inch	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"
Blind Connection	N10	inch	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	2"	2"	2"	2"
Gross Weight	G	kg	78	86	102	170	268	282	381	490	710	793
Tilt Height	R	mm	1275	1460	1410	1990	2300	2305	2625	2630	2610	2965

* : The number of energy inlet/outlet connections is 4 for 100L-300L products, 2 for the primary circuit, 2 for the secondary circuit; and 8 for 500L-3000L products, 4 for the primary circuit, and 4 for the secondary circuit.

The table shown above is prepared based on spare parts and equipments which belong to the standard products; all products have internal thread connection.

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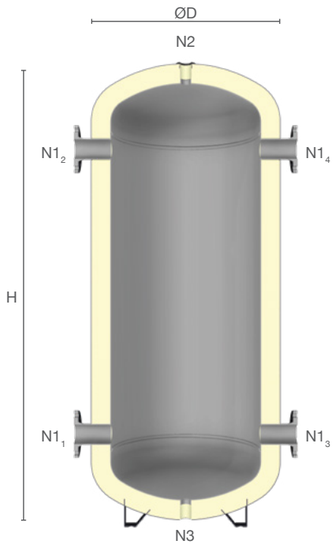
101.16 **KBT-CB** HYDRAULIC BALANCING BUFFER TANK

KODSAN



BULK ORDER

Volume
100L – 5000L

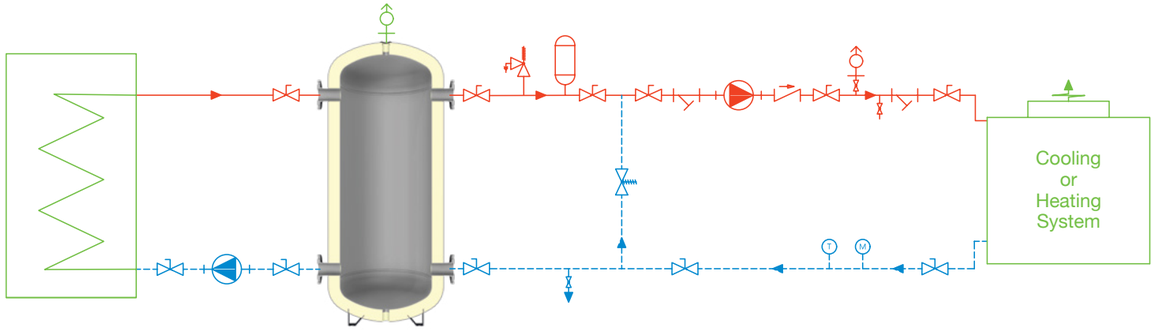
Domestic Hot Water Maximum Operating Temperature
95°C

Domestic Hot Water Maximum Operating Pressure
6 Bar

Flange Connection Pressure Class
PN16

Manufactured in accordance with 2014/68/EU Pressure Equipment Directive, TS EN 13445-3, TS736 and TS EN 12897 standards.

INSTALLATION DIAGRAM



The installaion diagram shown above is just an example. The installion must be done according to updated standards and instructions.

		100L-500L	800L-1000L	1500L-2000L	2500L-3000L	4000L-5000L
INSULATION	PU- 42kg/m³ HCFC-free polyurethane in accordance with the 814/2013 EU ErP Comission Regulations and TS EN 12897 Standards	OPS/ 50 mm*	x	x	x	x
	Soft PU- 15 kg/m³ soft polyurethane	STD/80 mm	STD/80 mm	STD/80 mm	STD/80 mm	STD/80 mm
	Soft PU- 26 kg/m³ flame retardant soft polyurethane	x	x	x	x	x
	Izomax- 50kg/m³ insulation with d0 fire class as well as with BL-S3 compatible with the ErP regulations following the 814/2013 EU Comission Regulations and TS EN 12897 Standards	x	OPS/80 mm	OPS/80 mm OPS/100 mm*	OPS/80 mm	OPS/80 mm
COATING	Blueshell- Recyclable polyethylene cover that provides heat-saving	x	x	x	x	x
	Vinleks- Artificial Leather	STD	STD	STD	STD	STD
	Izoqua- Dışarıda kullanıma uygun su geçirmez PVC kullanım ünitesi (Izomax izolasyonu kullanıldığı takdirde, opsiyonel olarak sunulur.)	x	OPS	OPS	OPS	OPS
EQUIPMENT	Thermometer (0°C- 120°C)	x	x	x	x	x
	Steel Sensor Tube	x	x	x	x	x
	Cleaning & Control Flange	x	x	x	x	x
	Electric Heater	x	x	x	x	x
	Air Ventilation Connection	STD/1¼"	STD/1¼"	STD/1¼"	STD/1¼"	STD/1¼"
CATHODIC PROTECTION	Magnesium Anode	x	x	x	x	x
	Electronic Anode	x	x	x	x	x
CARRIER ELEMENT	Steel leg system mounted on a palette from 3 different locations	STD	STD	STD-x	x	x
	Circle steel leg system that provides circular floor contact	x	x	x-STD	STD	STD

STD: Abbreviation for spare parts and equipments which belong to the standard products.
OPS: Abbreviation for the optional spare parts and equipments for non-standart products.
* Polyurethane insulation can be applied with threaded connection on request for bulk order.

	Code	Unit	101.16.11	101.16.16	101.16.18	101.16.20	101.16.21	101.16.22	101.16.23	101.16.24	101.16.25	101.16.26	101.16.27
Capacity	V	lt	100	300	500	800	1000	1500	2000	2500	3000	4000	5000
Insulation Type & Thickness	i	mm	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80
Diameter	ØD	mm	540	760	800	910	1010	1120	1310	1460	1460	1660	1660
Height	H	mm	1115	1225	1850	2110	2070	2375	2280	2160	2580	2575	3230
Primary/Secondary Energy Inlet/Outlet Connections	N1	inch/DN	Threaded 1½"	Threaded 2"	Threaded 2½"	Flanged DN80	Flanged DN100	Flanged DN125	Flanged DN125	Flanged DN150	Flanged DN150	Flanged DN200	Flanged DN200
Air Ventilation Connection	N2	inch	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"
Blind Connection	N3	inch	1¼"	1¼"	1¼"	1¼"	1¼"	2"	2"	2"	2"	2"	2"
Gross Weight	G	kg	46	80	118	199	215	311	385	540	593	806	931
Tilt Height	R	mm	1240	1440	2015	2300	2305	2625	2630	2610	2965	3065	3635

The table shown above is prepared based on spare parts and equipments which belong to the standard products; products 100L-300L have internal thread connection, products 800L-5000L have flaged connection.

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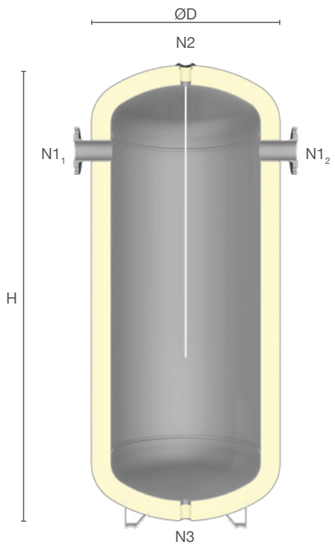
101.17 **KBT-C** BUFFER TANK WITH BAFFLE PLATE

KODSAN



BULK ORDER

Volume
100L – 5000L

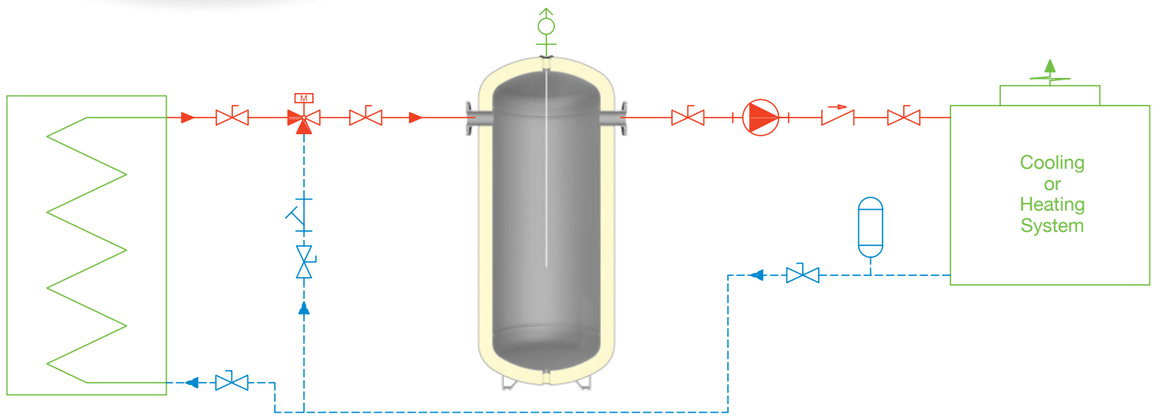
Domestic Hot Water Maximum Operating Temperature
95°C

Domestic Hot Water Maximum Operating Pressure
6 Bar

Flange Connection Pressure Class
PN16

Manufactured in accordance with 2014/68/EU Pressure Equipment Directive, TS EN 13445-3, TS736 and TS EN 12897 standards.

INSTALLATION DIAGRAM



The installaion diagram shown above is just an example. The installion must be done according to updated standards and instructions.

		100L-500L	800L-1000L	1500L-2000L	2500L-3000L	4000L-5000L
INSULATION	PU- 42kg/m³ HCFC-free polyurethane in accordance with the 814/2013 EU ErP Comission Regulations and TS EN 12897 Standards	x	x	x	x	x
	Soft PU- 15 kg/m³ soft polyurethane	STD/80 mm	STD/80 mm	STD/80 mm	STD/80 mm	STD/80 mm
	Soft PU- 26 kg/m³ flame retardant soft polyurethane	x	x	x	x	x
	Izomax- 50kg/m³ insulation with d0 fire class as well as with BL-S3 compatible with the ErP regulations following the 814/2013 EU Comission Regulations and TS EN 12897 Standards	x	OPS/80 mm	OPS/80 mm OPS/100 mm*	OPS/80 mm	OPS/80 mm
COATING	Blueshell- Recyclable polyethylene cover that provides heat-saving	x	x	x	x	x
	Vinleks- Artificial Leather	STD	STD	STD	STD	STD
	Izoqua- Waterproof PVC unit which is suitable for exterior usage. **(Optional only with the izomax insulation application)**	x	OPS	OPS	OPS	OPS
EQUIPMENT	Thermometer (0°C- 120°C)	x	x	x	x	x
	Steel Sensor Tube	x	x	x	x	x
	Cleaning & Control Flange	x	x	x	x	x
	Electric Heater	x	x	x	x	x
	Air Ventilation Connection	STD/1¼"	STD/1¼"	STD/1¼"	STD/1¼"	STD/1¼"
CATHODIC PROTECTION	Magnesium Anode	x	x	x	x	x
	Electronic Anode	x	x	x	x	x
CARRIER ELEMENT	Steel leg system mounted on a palette from 3 different locations	STD	STD	STD-x	x	x
	Circle steel leg system that provides circular floor contact	x	x	x-STD	STD	STD

STD: Abbreviation for spare parts and equipments which belong to the standard products.
OPS: Abbreviation for the optional spare parts and equipments for non-standart products.

	Code	Unit	101.17.11	101.17.16	101.17.18	101.17.20	101.17.21	101.17.22	101.17.23	101.17.24	101.17.25	101.17.26	101.17.27
Capacity	V	lt	100	300	500	800	1000	1500	2000	2500	3000	4000	5000
Insulation Type & Thickness	i	mm	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80	SPU/80
Diameter	ØD	mm	540	760	800	910	1010	1120	1310	1460	1460	1660	1660
Height	H	mm	1115	1225	1850	2110	2070	2375	2280	2160	2580	2575	3230
Number of Baffle & Energy Inlet/ Outlet Locations	-	pieces/-	1 / inlet: on top outlet: on top				2 / inlet: on bottom outlet: on top				3 / inlet: on bottom outlet: on bottom		
Primary/Secondary Energy Inlet/Outlet Connections	N1	DN	Flanged DN50	Flanged DN50	Flanged DN65	Flanged DN80	Flanged DN100	Flanged DN125	Flanged DN125	Flanged DN150	Flanged DN150	Flanged DN200	Flanged DN200
Air Ventilation Connection	N2	inch	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"
Blind Connection	N3	inch	1¼"	1¼"	1¼"	1¼"	1¼"	2"	2"	2"	2"	2"	2"
Gross Weight	G	kg	40	78	117	198	232	325	405	577	701	894	931
Tilt Height	R	mm	1240	1440	2015	2300	2305	2625	2630	2610	2965	3065	3635

The table shown above is prepared based on spare parts and equipments which belong to the standard products; all products have flanged connection.

KODSAN reserves the right to change the product specifications, technical information and installation diagrams without any notifications.
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911 KPG AUTOMATIC PUMP CONTROLLED EXPANSION SYSTEM

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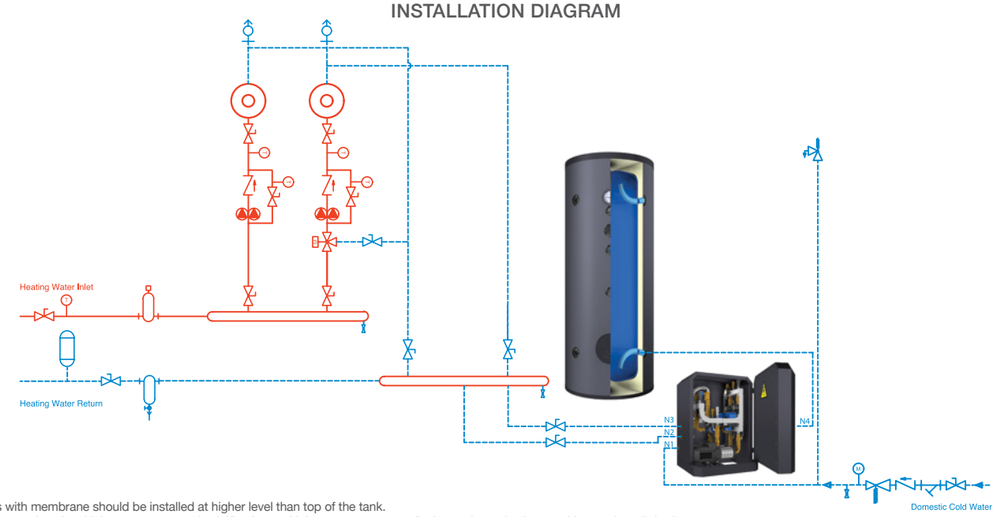
Automatic Pump Controlled Expansion System is a technological devices developed to absorb the volume changes that may occur at the heating and cooling systems and stabilize the installment pressure.

Considering the expansion and contraction of water due to the temperature variation, the amount of water changes in the system. The device keeps the pressure in the installment in balance with 0,1 bar precision by transmitting the water among the tank and installment through the proportioning valves and pumps.

Volume
Min. 500L
Tank
51.11 Enameled Accumulation Tank
Pump
Grundfos CM Serie
Control System
7" Touch Panel
Maximum Operating Temperature
95°C
Maximum Operating Pressure
6 bar / 10 bar / 16 bar
Control Circuit Voltage
230 V AC
Automatic Filling System
Avaliable

Manufactured in accordance with 2014/68/EU Pressure Equipment Directive, TS EN 13445-3, TS736 and TS EN 12897 standards.

INSTALLATION DIAGRAM



Relief valves with membrane should be installed at higher level than top of the tank.
Thus it is protected against high temperature and calcification and it is not necessary to discharge the tank when working on the relief valve.

The installaion diagram shown above is just an example. The installion must be done according to updated standards and instructions.

			500L	800L-1000L	1500L-2000L	2500L-3000L	4000L-5000L
INSULATION	TANK	PU- 42kg/m³ HCFC-free polyurethane in accordance with the 814/2013 EU ErP Comission Regulations and TS EN 12897 Standards	STD/50 mm	x	x	x	x
		Soft PU- 15 kg/m³ soft polyurethane	x	STD/80 mm	STD/80 mm	STD/80 mm	STD/80 mm
		Soft PU- 26 kg/m³ flame retardant soft polyurethane	x	OPS/80 mm	STD/80 mm	STD/80 mm	STD/80 mm
		Izomax- 50kg/m³ insulation with d0 fire class as well as with BL-S3 compatible with the ErP regulations following the 814/2013 EU Comission Regulations and TS EN 12897 Standards	x	OPS/80 mm	OPS/80 mm OPS/100 mm*	OPS/80 mm	OPS/80 mm
COATING	TANK	Blueshell- Recyclable polyethylene cover that provides heat-saving	STD	x	x	x	x
		Vinleks- Artificial Leather	x	STD	STD	STD	STD
		Izoqua- Waterproof PVC unit which is suitable for exterior usage. **(Optional only with the izomax insulation application)**	x	OPS	OPS	OPS	OPS
	UNIT	Sheet Metal- Electrostatic Powder Painted Sheet	STD	STD	STD	STD	STD
EQUIPMENT	TANK	Thermometer (0°C- 120°C)	STD/Ø63	STD/Ø100	STD/Ø100	STD/Ø100	STD/Ø100
		Steel Sensor Tube	OPS/Ø9 mm 2 pieces	OPS/Ø9 mm 2 pieces	OPS/Ø9 mm 2 pieces	OPS/Ø9 mm 2 pieces	OPS/Ø9 mm 2 pieces
		Cleaning & Control Flange	STD/4"	STD/5" OPS/16"	STD/5" OPS/16"	STD/5" OPS/16"	STD/5" OPS/16"
	UNIT	Pump	STD	STD	STD	STD	STD
		Automatic Filling System	STD	STD	STD	STD	STD
CARRIER ELEMENT	TANK	Steel leg system mounted on a palette from 3 different locations	STD	STD	STD-x	x	x
		Circle steel leg system that provides circular floor contact	x	x	x-STD	STD	STD
	UNIT	Rubber leg system mounted on a cell from 4 locations	STD	STD	STD	STD	STD

STD: Abbreviation for spare parts and equipments which belong to the standard products.
OPS: Abbreviation for the optional spare parts and equipments for non-standart products.

	Code	Unit	911.06	911.10	911.16
Capacity	V	lt	min 500L	min 500L	min 500L
Maximum Allowable Working Pressure	P	bar	6	10	16
Width	D1	mm	650	650	650
Depth	D2	mm	650	650	650
Height	H	mm	960	960	960
Domestic Cold Water Inlet Connection	N1	inch	1"	1"	1"
Expansion Line Inlet Connection	N2	icnh	1"	1"	1"
Pressurization Line Outlet Connection	N3	inch	1"	1"	1"
Storage Tank Connection	N4	inch	1¼"	1¼"	1¼"
Maximum Flow Rate	Q	m³/h	6	1	3,2
Power	P_{power}	kW	1,8	2,7	4,9
Gross Weight	G	kg	135	142	160
Tilt Height	R	mm	1100	1100	1100

The table shown above is prepared based on spare parts and equipments which belong to the standard products; all products have flanged connection.

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IMPORTANT NOTES

- We highly recommend to follow instructions specified at the user and installation guide attached to your product in order to secure of using it in safe and efficient.
- Safety Valve, expansion tank and, if required, pressure reducer valve should be used with our products (water heaters and storage tanks).
- KODSAN reserves the right to change the product specifications, technical information and installation diagrams without any notifications.
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- You may contact Kodsan for more details about your product.

SYMBOLS

Two-Way Motorized Valve	Bypass Valve	Pump	Pressure Relief Valve	Air Separator	Boiler System
Three-Way Modulating Motorized Valve	Drain Valve	Twin-Head Pump	Differential Pressure Regulating Valve	Dirt Separator	Condensing Boiler System
Two Way Thermostatic Valve	Shut Off Valve	Heat Meter	Flow Limiter	Membrane Expansion Tank	Cascade System
Three Way Thermostatic Valve	Strainer	Cold Water Flow Meter	Flow Sensor	Radiator or Underfloor Heating System	Combi System
Filling Valve	Check Valve	Pressure Gauge	Water Hammer Arrestor	Underfloor Heating System	Solar Panel
Ball Valve	Pressure Release Valve	Thermometer	Cable Terminal Box	Radiator Heating System	Heat Pump System
Thermostatic Outlet Ball Valve	Safety Thermostat	Air Relief Cock	Heat Exchanger	District Heating System	Usage Area

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