KODSAN

PRODUCT CATALOGUE 2017

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About Us

About Us

Kodsan is the first and largest enamelled water heatermanufacturer in Turkey, it was founded in 1984 in order to provide solutions for challenging hot water projects. Working in a closed area of 12.000 m2 with over 100 experienced employees, Kodsan manufactures enamelled water heaters, accumulation tanks, air separators, dirt separators and balance tanks.

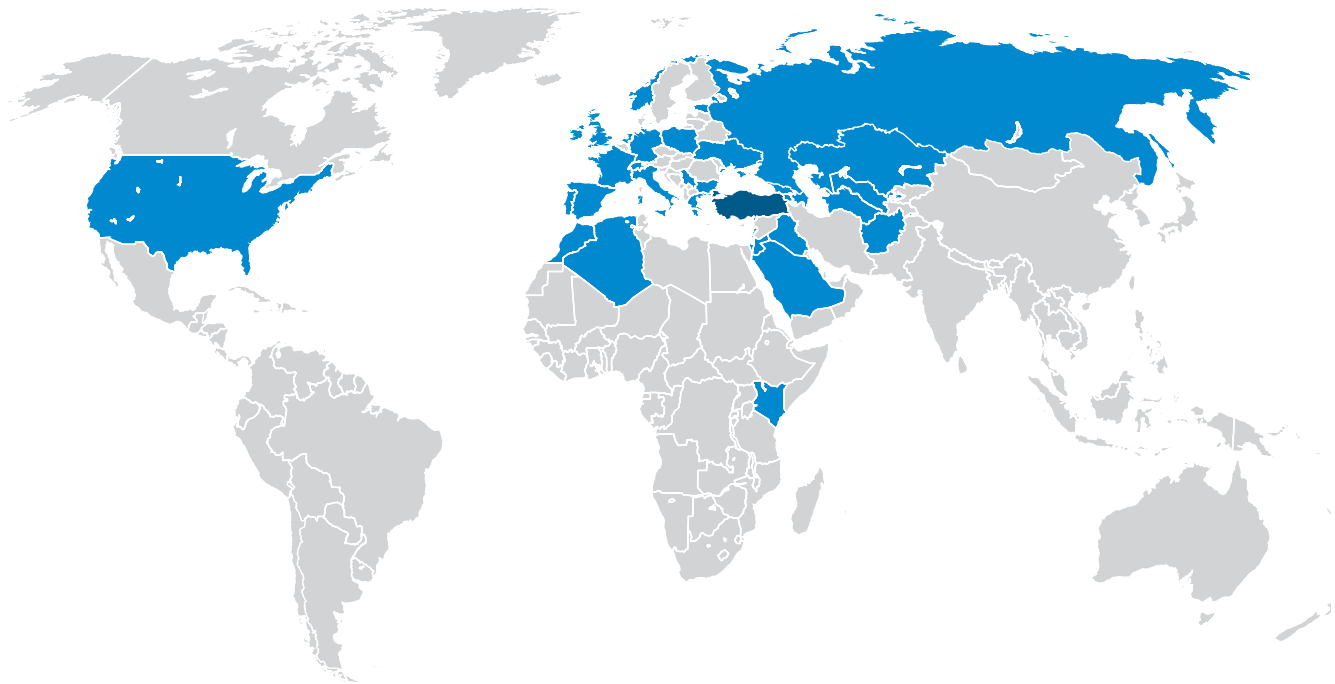
Kodsan as an exporter has reached more than 35 different countries on its exports journey that started in 2000. It has been proving its success in hot water systems worldwide while being the reference in Turkey.

KODSAN builds close relationships with its partners and upholds customer satisfaction as the principal value, merging high production capacity with fast and timely delivery.

With the awareness that sustainable success can only be achieved with continuous development, Kodsan's short-term objectives are to increase the export markets to more than 50 countries and to become one of the top five enamelled water heater producers in Europe.

İhracat Yapılan Ülkeler

- Afghanistan
- Algeria
- Armenia
- Azerbaijan
- Bulgaria
- Estonia
- France
- Denmark
- Georgia
- Germany
- Greece
- Iraq
- Ireland
- Israel
- Italy
- Jordan
- Kazakhstan
- Kenya
- Kosovo
- Kuwait
- Lebanon
- Moldova
- Morocco
- Netherlands
- Northern Cyprus
- Norway
- Poland
- Portugal
- Qatar
- Russia
- Saudi Arabia
- Serbia
- Spain
- Turkmenistan
- UAE
- Ukraine
- United Kingdom
- USA
- Uzbekistan



Number One Priority of Kodsan is Customer Satisfaction

Production Process

Kodsan water heaters are designed with modern technologies, environmentally friendly insulation and with customizable features in order to satisfy the different requirements of the customers. At Kodsan we demonstrate our commitment to hygiene and product longevity by specializing in the enameling process. The enamel we use in our products is according to European standards. All of Kodsan's water heaters come with a magnesium anode rod to provide cathodic protection ensuring a longer product lifecycle.

Quality Control

In order to provide superior quality to our partners, Kodsan completed the most significant certification processes for the globally accepted norms and regulations and developed a quality department with experienced personnel.

Kodsan's quality system is constructed according to ISO 9001 and product design is tested and certified according to TS EN 13445, Pr EN 12897 and TS 736. Enamel coating and cathodic protection is in accordance with DIN 4753-3. Kodsan products has been tested by TUV Rheinland and certified until B class energy efficiency in accordance with EN 15332. Products with electric heaters are tested and certified according to 2006/95/EC LVD low voltage directive.

Also Kodsan's products have CE, TSE, TSEK, Solarkeymark, EAC Eurasian Conformity documents and certificates. Material selection is made according to ASME, DIN and EN standards. Regarding production quality control, at the main stations 100% of the pieces are verified and controlled and at the substations we use a sample method that randomly selects elements for analysis. All the collected samples are analyzed at Kodsan's laboratory on a daily basis. Below a list of the performed tests:

- Enamel

Impact / Adhesion Strength Test
Citric Acid Resistance Test
Boiling Water and Steam Resistance Test (48 hours)

- Electrostatic Powder Painting Coating

Impact and Adhesion Test
Scratch Test
Bending Test
Salt Spray Test (400 hours)

- Polyurethane

Bulk Density
Molded Density

Performance Test

Performance of water heaters is tested at our laboratory which is equipped with state of the art instruments. The main tests conducted at the Kodsan laboratory are:

- Water heating efficiency test
- Heat loss test

Metal Sheet Quality

We use a low carbon steel hot rolled metal sheet, resistant to aging, appropriate for welding and compatible with enameling and rolling (cold bending).

Key Quality Features Of Kodsan Water Heaters

- Usage of low carbon steel hot rolled metal sheet compatible with enameling and rolling (cold bending).
- Enamel thickness is between 200µm-250µm,
- Serpentines are made with low carbon pipe and tested at the maximum pressure test
- Tanks are isolated with 50 mm polyurethane (HCFC-free) with density ranging between 42-44 kg/m^3
- Metal cover is electrostatic powder painted in order to prevent corrosion with thickness ranging from 50µm-80 µm. Before painting, the metal cover surface is cleaned with an iron phosphate treatment in order to increase the life span

01 KBS PRO SINGLE SERPENTINE WATER HEATER

Outer Appearance

Side Section View

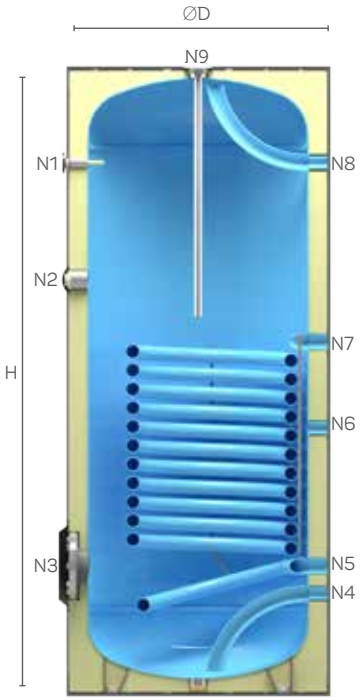
Top Section View

Volume : 100L – 3000L
Capacity : 5 kW – 237 kW
Maximum Operating Temperature : 95 °C
Body Operating Pressure : 10 Bar
Inner Surface Coating : Tank inner surface is enamelled (glass-lined) in accordance with DIN 4753-3 standard

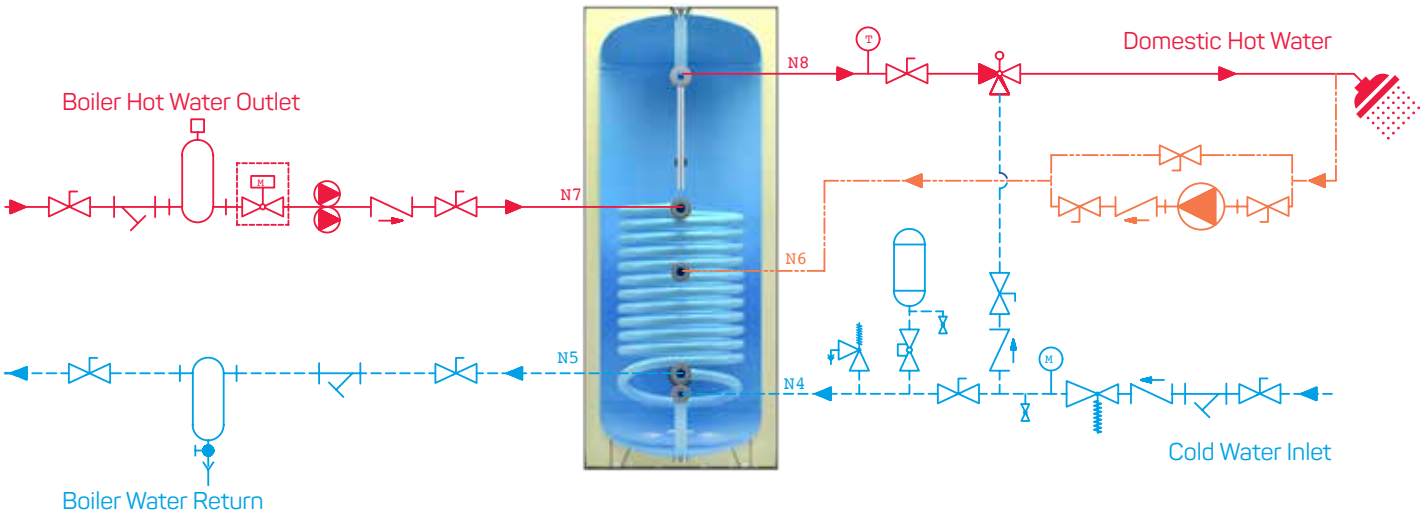
Insulation : In accordance with EN 15332 Energy Efficiency Standard
100L – 500L : 42 kg/m³ water based hard PU (HCFC-Free) foam
800L – 1000L : 42 kg/m³ water based hard PU (HCFC-Free) foam (Optional)
800L – 3000L : 18 kg/m³ soft PU
800L – 3000L : 26 kg/m³ flame retardant soft PU (Optional)

External Cover Coating
100L – 500L : Electrostatic Powder Painted Steel / Artificial Leather / IXPE / ABS
800L – 3000L : Artificial Leather / IXPE / ABS

Thermometer : 0°C - 120°C
Inspection and Cleaning Flange : Inspection and cleaning flange is available in all series
Electric Heater : Electric heater can be installed (Optional)
Cathodic Protection Element : Magnesium anode in accordance with DIN 4753-3 standard (Electronic anode option)



Installation Diagram



Installation diagram given above is just a template. Installation must be done according to update standards and directives.

DESCRIPTION	Code	Unit	KBS 100	KBS 160	KBS 200	KBS 300	KBS 400	KBS 500	KBS 800	KBS 1000	KBS 1500	KBS 2000	KBS 2500	KBS 3000
Volume	V	L	100	160	200	300	390	500	800	1000	1500	2000	2500	3000
Body Diameter	ØD	mm	490	590	590	700	750	750	900	1000	1120	1260	1460	1460
Total Height	H	mm	1080	1125	1320	1210	1450	1800	2100	2070	2300	2230	2200	2560
Electric Heater	N2	inch	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"	2"	2"
Cleaning Flange	N3	inch	4"	4"	4"	4"	4"	4"	5"	5"	5"	5"	5"	5"
Domestic Cold Water Inlet	N4	inch	3/4"	3/4"	3/4"	1"	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"
Domestic Hot Water Outlet	N8	inch	3/4"	3/4"	3/4"	1"	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"
Recirculation Diameters	N6	inch	3/4"	3/4"	3/4"	1"	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"
Serpentine Diameter	N5-N7	inch	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"
Insulation Type & Thickness	t	mm	PU/50	PU/50	PU/50	PU/50	PU/50	PU/50	SP/80	SP/80	SP/80	SP/80	SP/80	SP/80
Energy Heat Loss	-	kWh/d	1,28	1,51	1,78	2,03	2,26	2,77	3,94	4,62	-	-	-	-
Gross Weight	G	kg	69	91	109	123	156	194	261	283	380	594	717	840
Tipping Height	-	mm	1205	1290	1465	1420	1650	1970	2305	2320	2580	2580	2660	3020
Magnesium Anode Connections	N9	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Thermometer and Sensor Connections	N1	inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"

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02 KBS-B BASIC SINGLE SERPENTINE WATER HEATER

Outer Appearance

Side Section View

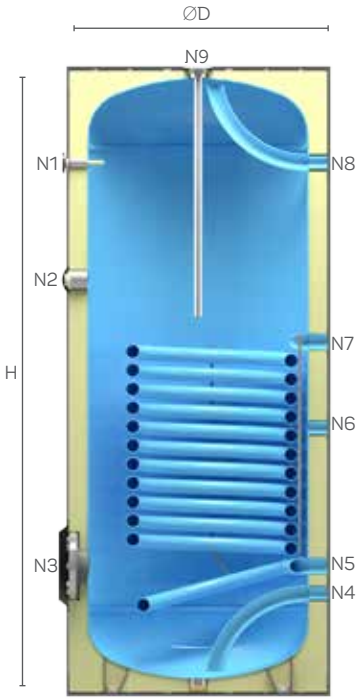
Top Section View

Volume : 100L – 500L
Capacity : 5 kW – 65 kW
Maximum Operating Temperature : 95 °C
Body Operating Pressure : 6 Bar / 10 Bar
Inner Surface Coating : Tank inner surface is enamelled (glass-lined) in accordance with DIN 4753-3 standard

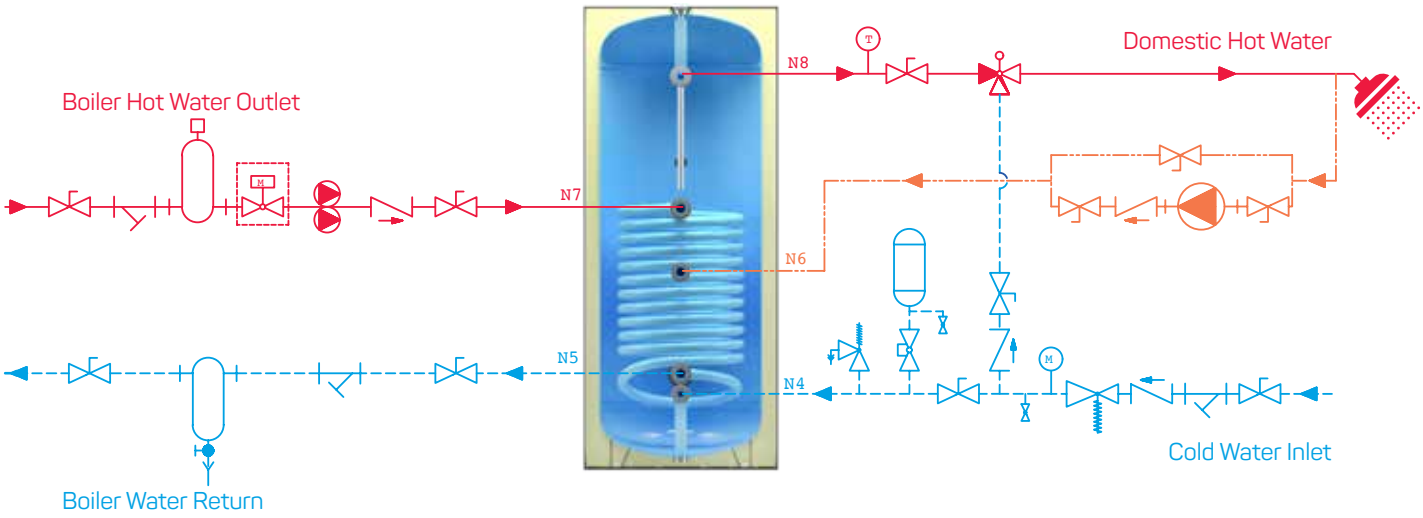
Insulation : In accordance with EN 15332 Energy Efficiency Standard
100L – 500L : 42 kg/m^3 water based hard PU (HCFC-Free) foam

External Cover Coating
100L – 500L : IXPE

Thermometer : 0°C - 120°C
Inspection and Cleaning Flange : Available in 400L - 500L
Electric Heater : Electric heater can be installed (Optional)
Cathodic Protection Element : Magnesium anode in accordance with DIN 4753-3 standard (Electronic anode option)



Installation Diagram



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KBS-B BASIC 6 BAR

DESCRIPTION	Code	Unit	KBS-B 100	KBS-B 160	KBS-B 200	KBS-B 300	KBS-B 400	KBS-B 500
Volume	V	L	100	160	200	300	390	500
Body Diameter	ØD	mm	490	590	590	700	750	750
Total Height	H	mm	1080	1125	1320	1210	1450	1800
Electric Heater	N2	inch	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
Cleaning Flange	N3	inch	-	-	-	-	4"	4"
Domestic Cold Water Inlet	N4	inch	3/4"	3/4"	3/4"	1"	1"	1"
Domestic Hot Water Outlet	N8	inch	3/4"	3/4"	3/4"	1"	1"	1"
Recirculation Diameters	N6	inch	3/4"	3/4"	3/4"	1"	1"	1"
Serpentine Diameter	N5-N7	inch	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Insulation Type & Thickness	t	mm	PU/50	PU/50	PU/50	PU/50	PU/50	PU/50
Energy Heat Loss	-	kWh/d	1,28	1,51	1,78	2,03	2,26	2,77
Gross Weight	G	kg	65	78	90	107	138	160
Tipping Height	-	mm	1205	1290	1465	1420	1650	1970
Magnesium Anode Connections	N9	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Thermometer and Sensor Connections	N1	inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"

KBS-B BASIC 10 BAR

Code	Unit	KBS-B 100	KBS-B 160	KBS-B 200	KBS-B 300	KBS-B 400	KBS-B 500
V	L	100	160	200	300	390	500
ØD	mm	490	590	590	700	750	750
H	mm	1080	1125	1320	1210	1450	1800
N2	inch	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
N3	inch	-	-	-	-	4"	4"
N4	inch	3/4"	3/4"	3/4"	1"	1"	1"
N8	inch	3/4"	3/4"	3/4"	1"	1"	1"
N6	inch	3/4"	3/4"	3/4"	1"	1"	1"
N5-N7	inch	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
t	mm	PU/50	PU/50	PU/50	PU/50	PU/50	PU/50
-	kWh/d	1,28	1,51	1,78	2,03	2,26	2,77
G	kg	68	82	96	113	154	181
-	mm	1205	1290	1465	1420	1650	1970
N9	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
N1	inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"

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03 KBD PRO DOUBLE SERPENTINE WATER HEATER

Outer Appearance

Side Section View

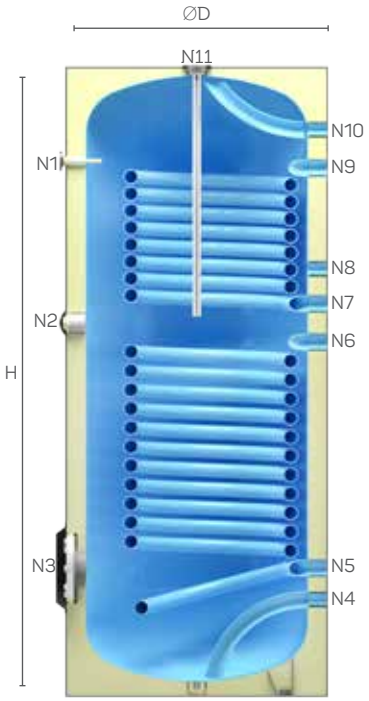
Top Section View

Volume	: 160L – 3000L
Capacity Range	: 4.2 kW – 172.5 kW (Boiler Side)
Maximum Operating Temperature	: 95 °C
Body Operating Pressure	: 10 Bar
Inner Surface Coating	: Tank inner surface is enamelled (glass-lined) in accordance with DIN 4753-3 standard

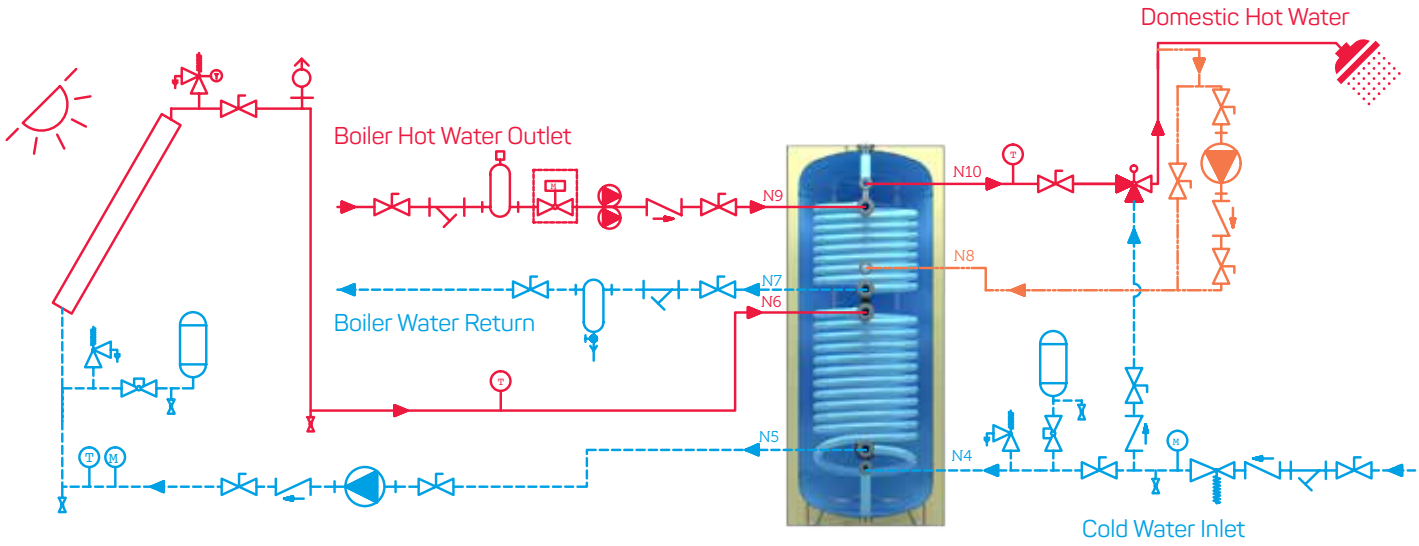
Insulation	: In accordance with EN 15332 Energy Efficiency Standard
160L – 500L	: 42 kg/m³ water based hard PU (HCFC-Free) foam
800L – 1000L	: 42 kg/m³ water based hard PU (HCFC-Free) foam (Optional)
800L – 3000L	: 18 kg/m³ soft PU
800L – 3000L	: 26 kg/m³ flame retardant soft PU (Optional)

External Cover Coating	
160L – 500L	: Electrostatic Powder Painted Steel / Artificial Leather / IXPE / ABS
800L – 3000L	: Artificial Leather / IXPE / ABS

Thermometer	: 0°C - 120°C
Inspection and Cleaning Flange	: Inspection and cleaning flange is available in all series
Electric Heater	: Electric heater can be installed (Optional)
Cathodic Protection Element	: Magnesium anode in accordance with DIN 4753-3 standard (Electronic anode option)



Installation Diagram



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DESCRIPTION	Code	Unit	KBD 160	KBD 200	KBD 300	KBD 400	KBD 500	KBD 800	KBD 1000	KBD 1500	KBD 2000	KBD 2500	KBD 3000
Volume	V	L	160	190	282	380	500	785	1000	1500	2000	2500	3000
Body Diameter	ØD	mm	590	590	700	750	750	900	1000	1120	1260	1460	1460
Total Height	H	mm	1125	1320	1210	1450	1800	2100	2070	2300	2230	2200	2560
Electric Heater	N2	inch	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"	2"	2"
Cleaning Flange	N3	inch	4"	4"	4"	4"	4"	5"	5"	5"	5"	5"	5"
Domestic Hot Water Outlet	N4-N10	inch	3/4"	3/4"	1"	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"
Recirculation Diameters	N8	inch	3/4"	3/4"	1"	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"
Upper Serpantine Daimeter	N7-N9	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"
Lower Serpantine Diameter	N6-N5	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"
Insulation Type & Thickness	t	mm	PU/50	PU/50	PU/50	PU/50	PU/50	SP/80	SP/80	SP/80	SP/80	SP/80	SP/80
Gross Weight	G	kg	95	112	132	170	223	290	318	417	640	812	925
Tipping Height	-	mm	1290	1465	1420	1650	1970	2300	2320	2580	2580	2660	3020
Energy Heat Loss	-	kWh/d	1,37	1,44	2,07	2,19	2,69	3,84	4,64	4,24	-	-	-
Magnesium Anode Connections	N11	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Thermometer and Sensor Connections	N1	inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"

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04 KBD-B BASIC DOUBLE SERPENTINE WATER HEATER

Outer Appearance

Side Section View

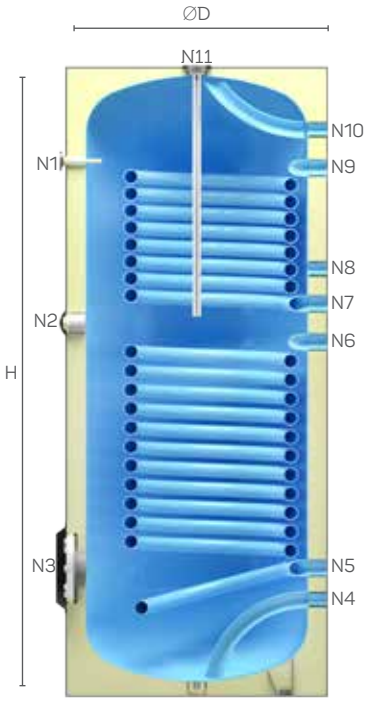
Top Section View

Volume : 160L – 500L
Capacity Range : 4 kW – 40 kW (Boiler Side)
Maximum Operating Temperature : 95 °C
Body Operating Pressure : 6 Bar / 10 Bar
Inner Surface Coating : Tank inner surface is enamelled (glass-lined) in accordance with DIN 4753-3 standard

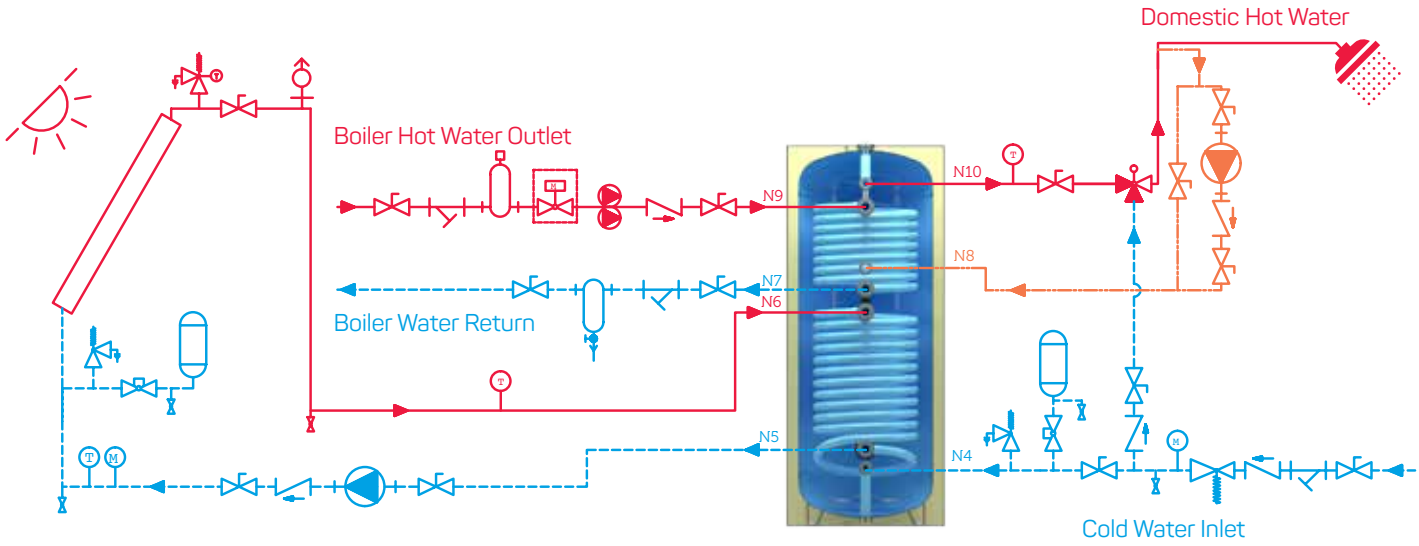
Insulation : In accordance with EN 15332 Energy Efficiency Standard
160L – 500L : 42 kg/m^3 water based hard PU (HCFC-Free) foam

External Cover Coating
160L – 500L : IXPE

Thermometer : 0°C - 120°C
Inspection and Cleaning Flange : Available in 400L - 500L
Electric Heater : Electric heater can be installed (Optional)
Cathodic Protection Element : Magnesium anode in accordance with DIN 4753-3 standard (Electronic anode option)



Installation Diagram



Installation diagram given above is just a template. Installation must be done according to update standards and directives.

KBD-B BASIC 6 BAR

DESCRIPTION	Code	Unit	KBD-B 160	KBD-B 200	KBD-B 300	KBD-B 400	KBD-B 500
Volume	V	L	160	190	282	380	500
Body Diameter	ØD	mm	590	590	700	750	750
Total Height	H	mm	1125	1320	1210	1450	1800
Electric Heater	N2	inch	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
Cleaning Flange	N3	inch	-	-	-	4"	4"
Domestic Hot Water Outlet	N4-N10	inch	3/4"	3/4"	1"	1"	1"
Recirculation Diameters	N8	inch	3/4"	3/4"	1"	1"	1"
Upper Serpentine Daimeter	N7-N9	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Lower Serpentine Daimeter	N6-N5	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Insulation Type & Thickness	t	mm	PU/50	PU/50	PU/50	PU/50	PU/50
Energy Heat Loss	-	kWh/d	1,37	1,44	2,07	2,19	2,69
Gross Weight	G	kg	82	104	114	153	175
Tipping Height	-	mm	1290	1465	1420	1650	1970
Magnesium Anode Connections	N11	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Thermometer and Sensor Connections	N1	inch	1/2"	1/2"	1/2"	1/2"	1/2"

KBD-B BASIC 10 BAR

Code	Unit	KBD-B 160	KBD-B 200	KBD-B 300	KBD-B 400	KBD-B 500
V	L	160	190	282	380	500
ØD	mm	590	590	700	750	750
H	mm	1125	1320	1210	1450	1800
N2	inch	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
N3	inch	-	-	-	4"	4"
N4	inch	3/4"	3/4"	1"	1"	1"
N8	inch	3/4"	3/4"	1"	1"	1"
N6	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
N5-N7	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
t	mm	PU/50	PU/50	PU/50	PU/50	PU/50
-	kWh/d	1,37	1,44	2,07	2,19	2,69
G	kg	87	110	120	170	197
-	mm	1290	1465	1420	1650	1970
N9	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
N1	inch	1/2"	1/2"	1/2"	1/2"	1/2"

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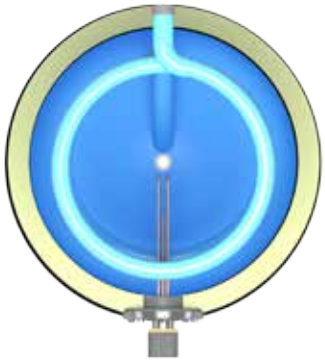
05 KXS SINGLE ROW SERPENTINE HEAT PUMP WATER HEATER

Outer Appearance

Side Section View



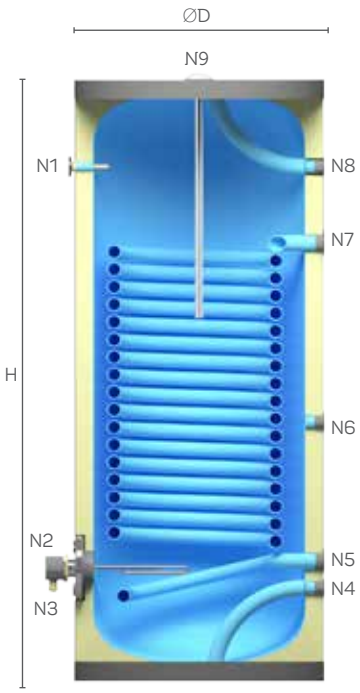
Top Section View

Volume : 160L – 2000L
Capacity Range : 4.6 kW – 43.6 kW
Maximum Operating Temperature : 95 °C
Body Operating Pressure : 10 Bar
Inner Surface Coating : Tank inner surface is enamelled (glass-lined) in accordance with DIN 4753-3 standard

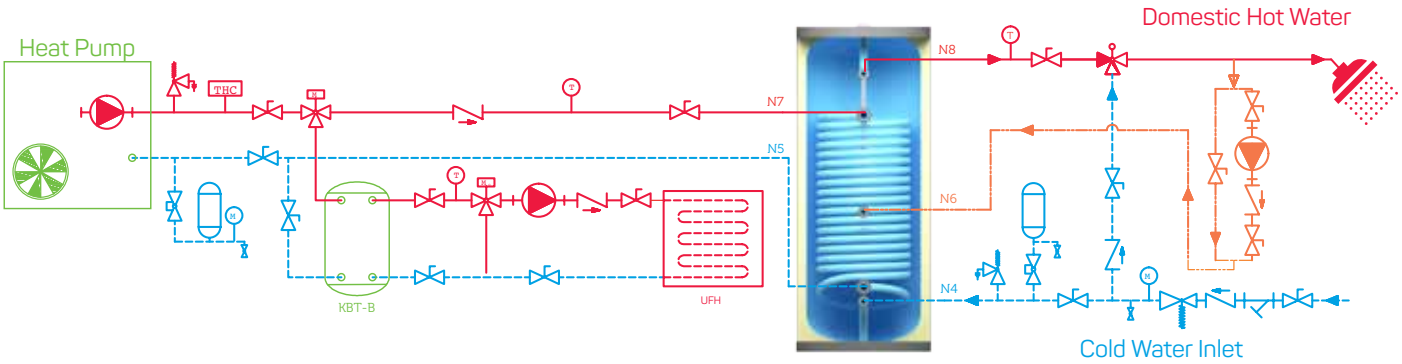
Insulation : Insulation is in accordance with EN 15332 Energy Efficiency Standard
160L – 500L : 42 kg/m³ water based hard PU (HCFC-Free) foam
800L – 1000L : 42 kg/m³ water based hard PU (HCFC-Free) foam (Optional)
800L – 2000L : 18 kg/m³ soft PU
800L – 2000L : 26 kg/m³ flame retardant soft PU (Optional)

External Cover Coating
160L – 500L : Electrostatic Powder Painted Steel / Artificial Leather / IXPE / ABS
800L – 2000L : Artificial Leather / IXPE / ABS

Thermometer : 0°C - 120°C
Inspection and Cleaning Flange : Inspection and cleaning flange is available in all series
Electric Heater : Electric heater can be installed (Optional)
Cathodic Protection Element : Magnesium anode in accordance with DIN 4753-3 standard (Electronic anode option)



Installation Diagram



Installation diagram given above is just a template. Installation must be done according to update standards and directives.

DESCRIPTION	Code	Unit	KXS 160	KXS 200	KXS 300	KXS 500	KXS 800	KXS 1000	KXS 1500	KXS 2000
Volume	V	L	160	200	300	500	800	1000	1500	2000
Body Diameter	ØD	mm	590	590	700	750	900	1000	1120	1260
Total Height	H	mm	1125	1320	1210	1800	2100	2070	2300	2230
Electric Heater	N3	inch	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"
Cleaning Flange	N2	inch	4"	4"	4"	4"	5"	5"	5"	5"
Domestic Cold Water Inlet	N4	inch	3/4"	3/4"	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Domestic Hot Water Outlet	N8	inch	3/4"	3/4"	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Recirculation Diameter	N6	inch	3/4"	3/4"	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Serpentine Diameter	N5-N7	inch	1"	1"	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Insulation Type & Thickness	t	mm	PU/50	PU/50	PU/50	PU/50	SP/80	SP/80	SP/80	SP/80
Gross Weight	G	kg	105	124	135	210	273	298	411	594
Tipping Height	-	mm	1290	1465	1420	1970	2300	2320	2580	2580
Magnesium Anode Connections	N9	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Thermometer and Sensor Connections	N1	inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"

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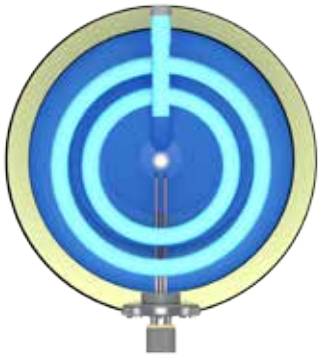
06 KXD DOUBLE ROW SERPENTINE HEAT PUMP WATER HEATER

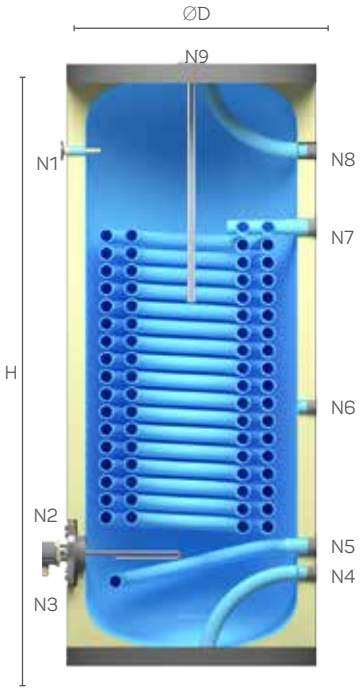
Outer Appearance

Side Section View

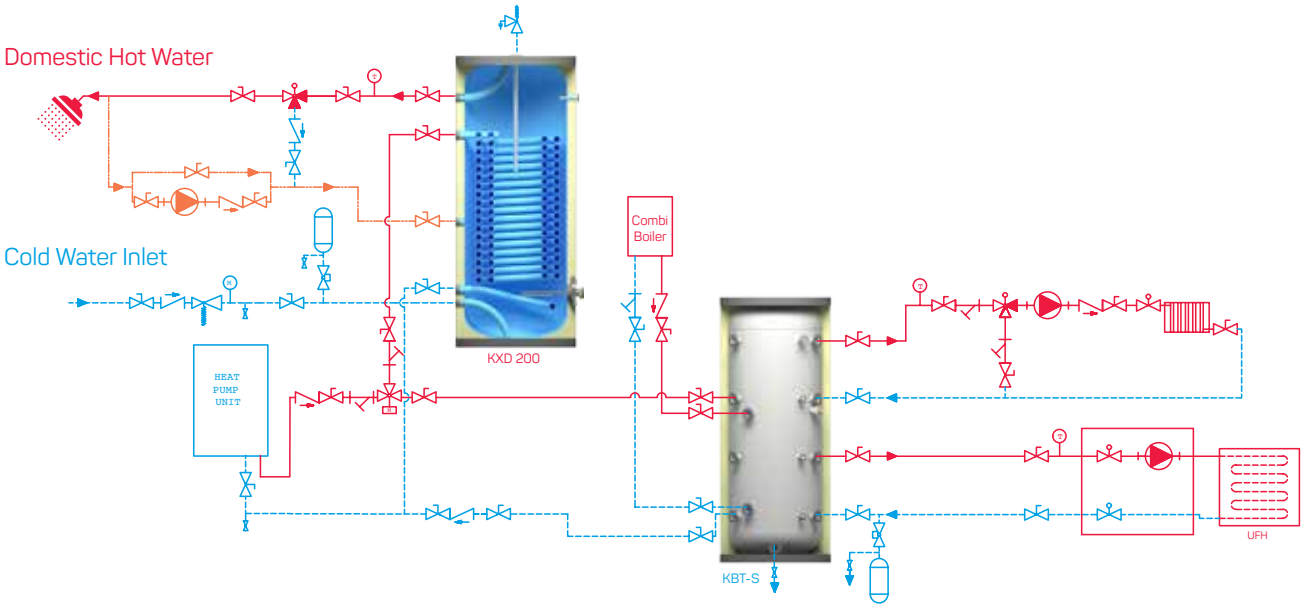


Top Section View

Volume	: 160L – 500L
Capacity Range	: 13.4 kW – 28.7 kW
Maximum Operating Temperature	: 95 °C
Body Operating Pressure	: 10 Bar
Inner Surface Coating	: Tank inner surface is enamelled (glass-lined) in accordance with DIN 4753-3 standard
Insulation	: Insulation is in accordance with EN 15332 Energy Efficiency Standard
160L – 500L	: 42 kg/m^3 water based hard PU (HCFC-Free) foam
External Cover Coating	
160L – 500L	: Electrostatic Powder Painted Steel / Artificial Leather / IXPE / ABS
Thermometer	: 0°C - 120°C
Inspection and Cleaning Flange	: Inspection and cleaning flange is available in all series
Electric Heater	: Electric heater can be installed (Optional)
Cathodic Protection Element	: Magnesium anode in accordance with DIN 4753-3 standard (Electronic anode option)



Installation Diagram



Installation diagram given above is just a template. Installation must be done according to update standards and directives.

DESCRIPTION	Code	Unit	KXD 160	KXD 200	KXD 300	KXD 500
Volume	V	L	160	200	300	500
Body Diameter	ØD	mm	590	590	700	750
Total Height	H	mm	1125	1320	1210	1800
Electric Heater	N2	inch	1 1/2"	1 1/2"	1 1/2"	1 1/2"
Cleaning Flange	N3	inch	4"	4"	4"	4"
Domestic Cold Water Inlet	N4	inch	3/4"	3/4"	1"	1"
Domestic Hot Water Outlet	N8	inch	3/4"	3/4"	1"	1"
Recirculation Diameter	N6	inch	3/4"	3/4"	1"	1"
Serpentine Diameter	N5-N7	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Insulation Type & Thickness	t	mm	PU/50	PU/50	PU/50	PU/50
Gross Weight	G	kg	112	137	153	237
Tipping Height		mm	1290	1465	1420	1970
Magnesium Anode Connections	N9	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Thermometer and Sensor Connections	N1	inch	1/2"	1/2"	1/2"	1/2"

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07 KCS SINGLE COPPER COIL SERPENTINE WATER HEATER

Outer Appearance

Side Section View

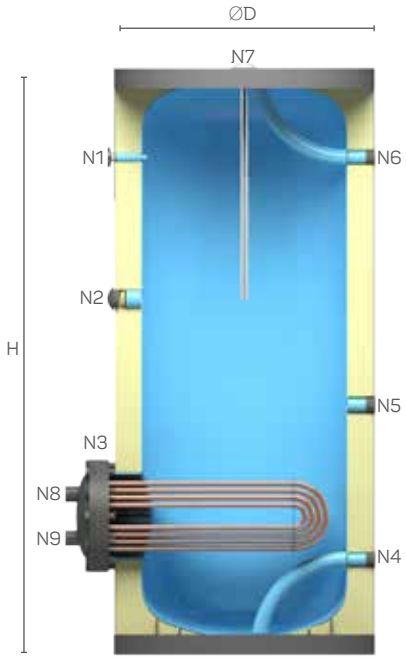
Top Section View

Volume : 160L – 5000L
Capacity Range : 21.5 kW – 515.1 kW
Maximum Operating Temperature : 95 °C
Body Operating Pressure : 10 Bar
Inner Surface Coating : Tank inner surface is enamelled (glass-lined) in accordance with DIN 4753-3 standard

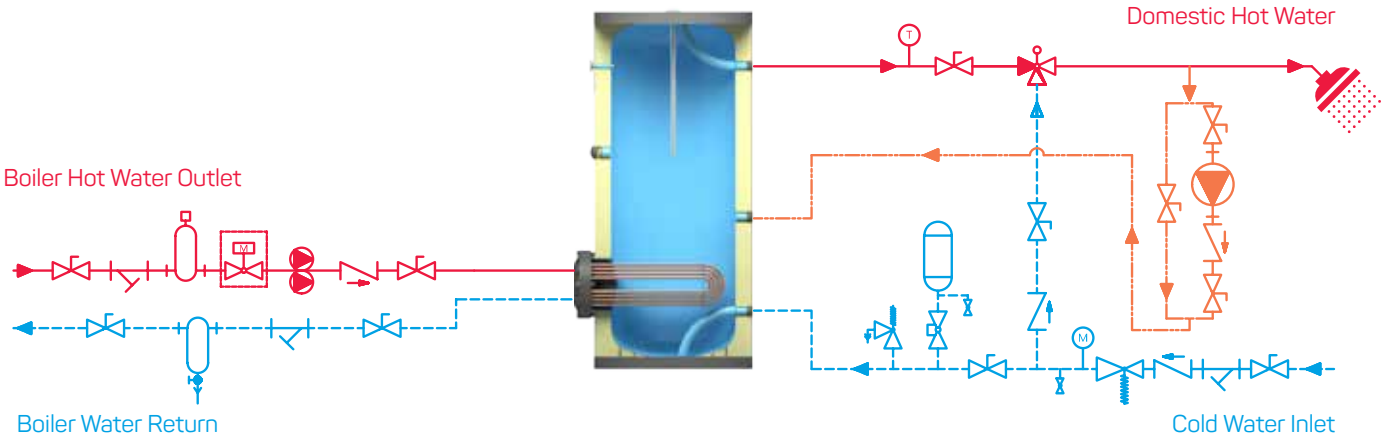
Insulation : Insulation is in accordance with EN 15332 Energy Efficiency Standard
160L – 5000L : 18 kg/m³ soft PU
160L – 5000L : 26 kg/m³ flame retardant soft PU (Optional)

External Cover Coating
160L – 5000L : Artificial Leather / IXPE / ABS

Thermometer : 0°C - 120°C
Inspection and Cleaning Flange : Inspection and cleaning flange is available in all series
Electric Heater : Electric heater can be installed (Optional)
Cathodic Protection Element : Electronic anode in accordance with DIN 4753-3 standard



Installation Diagram



Installation diagram given above is just a template. Installation must be done according to update standards and directives.

DESCRIPTION	Code	Unit	KCS 160	KCS 200	KCS 300	KCS 500	KCS 800	KCS 1000	KCS 1500	KCS 2000	KCS 2500	KCS 3000	KCS 4000	KCS 5000
Volume	V	L	160	200	300	500	800	1000	1500	2000	2500	3000	4000	5000
Body Diameter	ØD	mm	590	590	700	750	900	1000	1120	1260	1460	1460	1660	1660
Total Height	H	mm	1150	1350	1240	1830	2100	2070	2300	2230	2200	2560	2580	3100
Electric Heater	N2	inch	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"	2"	2"	2"	2"
Serpentine Flange	N3	mm	250	250	250	300	300	300	300	300	500	500	500	500
Domestic Cold Water Inlet	N4	inch	3/4"	3/4"	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	2"	2"
Domestic Hot Water Outlet	N6	inch	3/4"	3/4"	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	2"	2"
Recirculation Diameters	N5	inch	3/4"	3/4"	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	2"	2"
Serpentine Diameter	N8-N9	inch	1 1/2"	1 1/2"	2"	2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	3"	3"	3"	3"
Energy Heat Loss	-	kWh/d	1,51	1,78	2,03	2,26	2,77	3,94	4,62	-	-	-	-	-
Gross Weight	G	kg	130	150	176	248	343	365	506	577	662	748	965	1085
Tipping Height	-	mm	1315	1495	1445	2000	2300	2320	2580	2580	2660	2970	3090	3555
Thermometer and Sensor Connections	N1	inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Insulation Type & Thickness	t	mm	SP/50	SP/50	SP/50	SP/50	SP/80	SP/80	SP/80	SP/80	SP/80	SP/80	SP/80	SP/80
Magnesium Anode Connections	N7	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"

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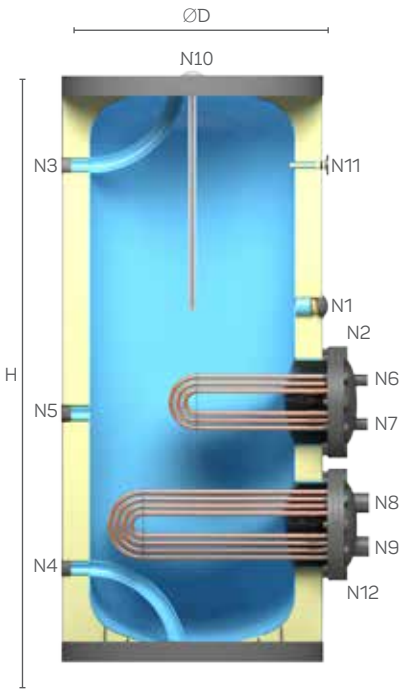
08 KCD DOUBLE COPPER COIL SERPENTINE WATER HEATER

Outer Appearance

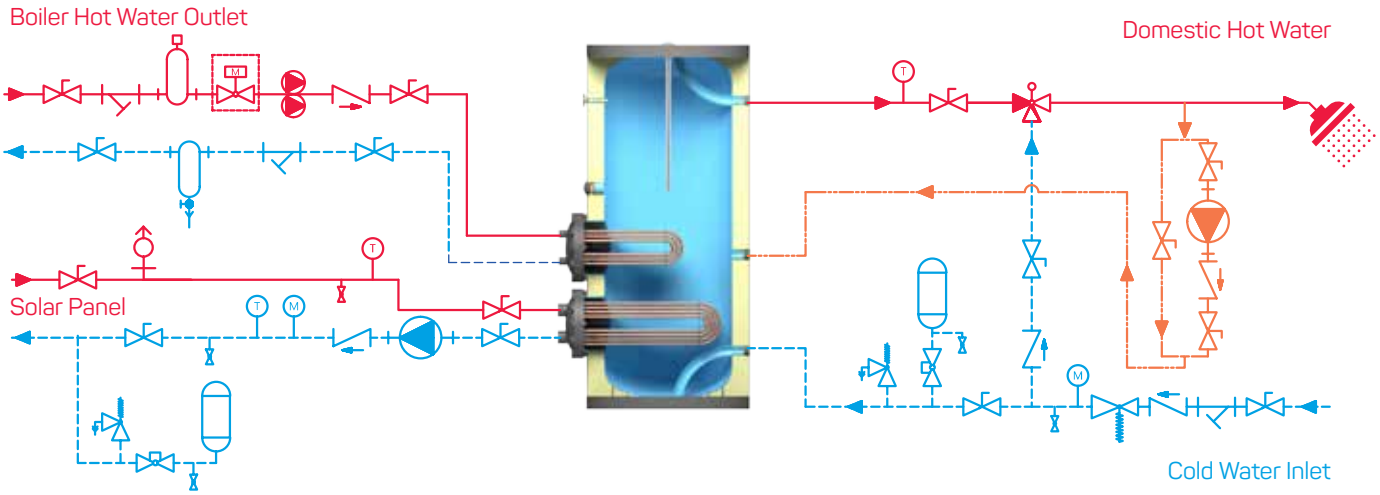
Side Section View

Top Section View

Volume	: 160L – 5000L
Capacity Range	: 12.9 kW – 186.8 kW
Maximum Operating Temperature	: 95 °C
Body Operating Pressure	: 10 Bar
Inner Surface Coating	: Tank inner surface is enamelled (glass-lined) in accordance with DIN 4753-3 standard
Insulation	: Insulation is in accordance with EN 15332 Energy Efficiency Standard
160L – 5000L	: 18 kg/m^3 soft PU
160L – 5000L	: 26 kg/m^3 flame retardant soft PU (Optional)
External Cover Coating	
160L – 5000L	: Artificial Leather / IXPE / ABS
Thermometer	: 0°C - 120°C
Inspection and Cleaning Flange	: Inspection and cleaning flange is available in all series
Electric Heater	: Electric heater can be installed (Optional)
Cathodic Protection Element	: Electronic anode in accordance with DIN 4753-3 standard



Installation Diagram



Installation diagram given above is just a template. Installation must be done according to update standards and directives.

DESCRIPTION	Code	Unit	KCD 160	KCD 200	KCD 300	KCD 500	KCD 800	KCD 1000	KCD 1500	KCD 2000	KCD 2500	KCD 3000	KCD 4000	KCD 5000
Volume	V	L	160	200	300	500	800	1000	1500	2000	2500	3000	4000	5000
Body Diameter	ØD	mm	590	590	700	750	900	1000	1120	1260	1460	1460	1660	1660
Total Height	H	mm	1150	1350	1240	1830	2100	2070	2300	2230	2200	2560	2580	3100
Electric Heater	N1	inch	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"	2"	2"	2"	2"
Serpentine Flange	ØN2-N12	mm	250/200	250/200	250/200	300/250	300/250	400/300	400/300	400/400	500	400/500	400/500	400/500
Domestic Cold Water Inlet	N4	inch	3/4"	3/4"	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	2"	2"
Domestic Hot Water Outlet	N3	inch	3/4"	3/4"	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	2"	2"
Recirculation Diameters	N5	inch	3/4"	3/4"	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	2"	2"
Upper Serpantine Daimeter	N6-N7	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	2"	2"	2"	2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"
Lower Serpantine Diameter	N8-N9	inch	1 1/2"	1 1/2"	2"	2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	3"	3"	3"	3"
Energy Heat Loss		kWh/d	1,37	1,44	2,07	2,19	2,69	3,84	4,64	-	-	-	-	-
Insulation Type & Thickness	t	mm	SP/50	SP/50	SP/50	SP/50	SP/80	SP/80	SP/80	SP/80	SP/80	SP/80	SP/80	SP/80
Gross Weight	G	kg	176	195	214	310	408	432	585	665	733	848	1075	1200
Tipping Height		mm	1315	1495	1445	2000	2300	2320	2580	2580	2660	2970	3090	3555
Thermometer and Sensor Connections	N11	inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Magnesium Anode Connections	N10	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"

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09 KEB ELECTRIC WATER HEATER

Outer Appearance

Side Section View

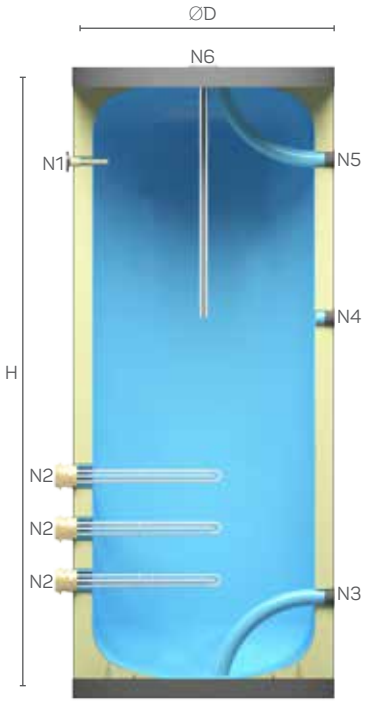
Top Section View

Volume : 100L – 5000L
Capacity Range : 2 kW - 60 kW (Please contact us for larger control panels and heaters)
Maximum Operating Temperature : 95 °C
Body Operating Pressure : 10 Bar
Inner Surface Coating : Tank inner surface is enamelled (glass-lined) in accordance with DIN 4753-3 standard

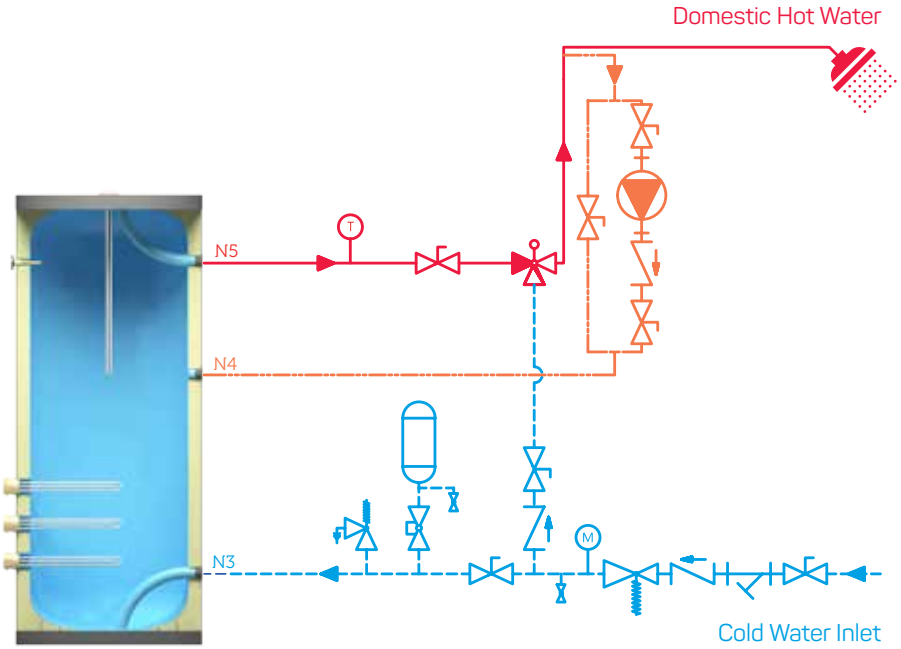
Insulation : Insulation is in accordance with EN 15332 Energy Efficiency Standard
100L – 500L : 42 kg/m^3 water based hard PU (HCFC-Free) foam
800L – 1000L : 42 kg/m^3 water based hard PU (HCFC-Free) foam (Optional)
800L – 5000L : 26 kg/m^3 flame retardant soft PU

External Cover Coating
100L – 500L : Electrostatic Powder Painted Steel / IXPE
800L – 5000L : IXPE / Artificial Leather

Thermometer : 0°C - 120°C
Inspection and Cleaning Flange : Inspection and cleaning flange is available in all series
Electric Heater : Electric heater between 2 – 60 kW can be installed (Optional)
Residual Current Device : Residual current device can be installed (Optional)
Cathodic Protection Element : Magnesium anode in accordance with DIN 4753-3 standard (Electronic anode option)



Installation Diagram



Installation diagram given above is just a template. Installation must be done according to update standards and directives.

DESCRIPTION	Code	Unit	KEB 100	KEB 160	KEB 200	KEB 300	KEB 400	KEB 500	KEB 800	KEB 1000	KEB 1500	KEB 2000	KEB 2500	KEB 3000	KEB 4000	KEB 5000
Volume	V	L	100	160	200	300	400	500	800	1000	1500	2000	2500	3000	4000	5000
Body Diameter	ØD	mm	490	590	590	700	750	750	900	1000	1120	1260	1460	1460	1660	1660
Total Height	H	mm	1080	1125	1320	1210	1450	1800	2100	2070	2300	2230	2200	2560	2665	3100
Electric Heater	N2	inch	SELECTION IS MADE ACCORDING TO CUSTOMER DEMAND FOR HEATING													
Domestic Cold Water Inlet	N3	inch	3/4"	3/4"	3/4"	1"	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
Domestic Hot Water Outlet	N5	inch	3/4"	3/4"	3/4"	1"	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
Recirculation Diameters	N4	inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"	1"	1"	1"	1 1/4"	1 1/4"	1 1/4"
Insulation Type & Thickness	t	mm	PU/50	PU/50	PU/50	PU/50	PU/50	PU/50	SP/80	SP/80	SP/80	SP/80	SP/80	SP/80	SP/80	SP/80
Energy Heat Loss	-	kWh /d	1,38	1,59	1,7	1,99	2,34	2,63	3,62	4,24						
Gross Weight	G	kg	WEIGHT OF THE PRODUCTS VARIES ACCORDING TO THE HEATERS													
Tipping Height	–	mm	1205	1290	1465	1420	1650	1970	2300	2320	2580	2580	2660	3020	3160	3535
Thermometer and Sensor Connections	N1	inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
P&T Valve	-	inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Magnesium Anode Connections	N6	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"

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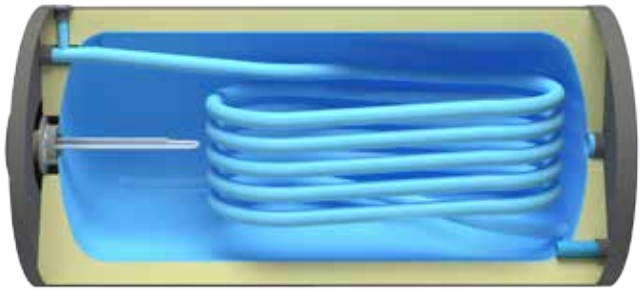
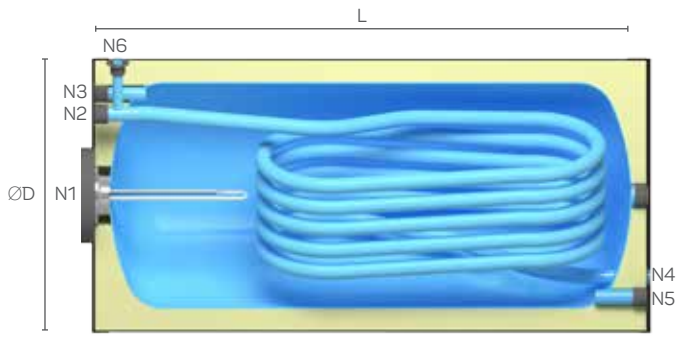
10 KSS HORIZONTAL SERPENTINE WATER HEATER

Outer Appearance

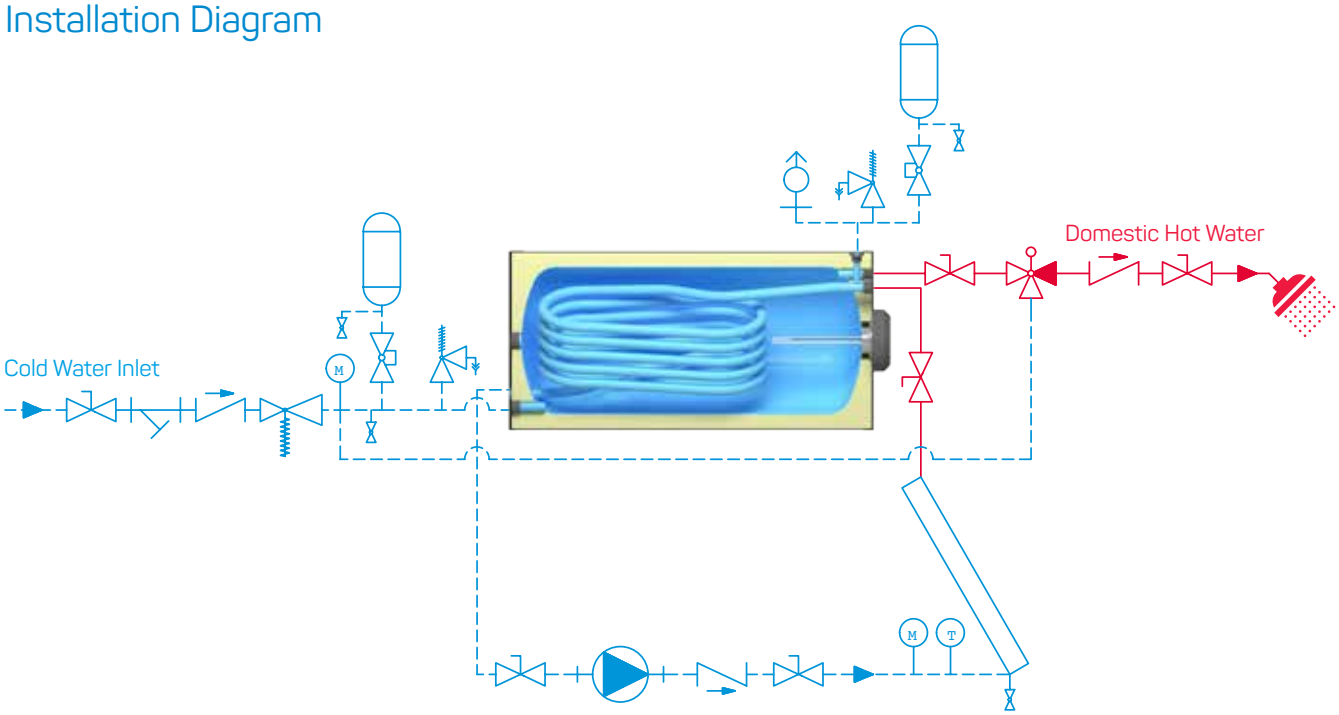


Side Section View

Volume	: 150L – 400L
Maximum Operating Temperature	: 95 °C
Body Operating Pressure	: 10 Bar
Inner Surface Coating	: Tank inner surface is enamelled (glass-lined) in accordance with DIN 4753-3 standard
Insulation	: Insulation is in accordance with EN 15332 Energy Efficiency Standard, 42 kg/m³ water based hard PU (HCFC-Free) foam
External Cover Coating	: Electrostatic powder painted steel
Inspection and Cleaning Flange	: Inspection and cleaning flange is available in all series
Electric Heater	: One electric heater (2 kW) element can be installed (Optional)
Cathodic Protection Element	: Magnesium anode in accordance with DIN 4753-3 standard (Electronic anode option)



Installation Diagram



Installation diagram given above is just a template. Installation must be done according to update standards and directives.

DESCRIPTION	Code	Unit	KSS 150	KSS 200	KSS 300	KSS 400
Volume	V	L	150	200	300	400
Body Diameter	ØD	mm	585	585	585	640
Length	H	mm	940	1215	1875	1900
Electric Heater & Magnesium Anode Connections	N1	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Insulation Type & Thickness	t	mm	PU/50	PU/50	PU/50	PU/50
Gross Weight	G	kg	86	106	147	170
Domestic Hot Water Outlet	N3	inch	3/4"	3/4"	3/4"	3/4"
Collector Input/Output	N2-N4	inch	3/4"	3/4"	3/4"	3/4"
Domestic Cold Water Inlet	N5	inch	3/4"	3/4"	3/4"	3/4"
Air Release Valve Connection	N6	inch	1/2"	1/2"	1/2"	1/2"

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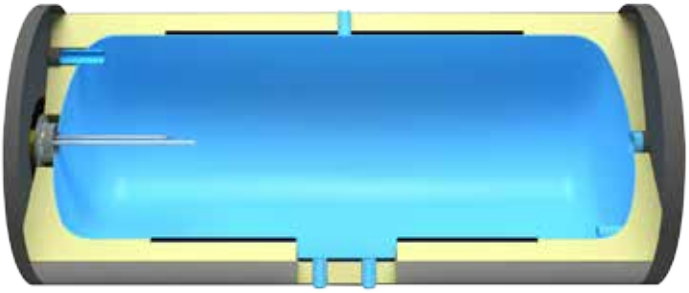
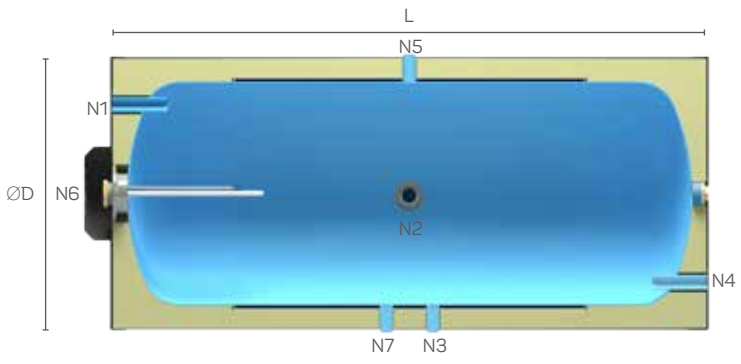
11 KSC HORIZONTAL DOUBLE WALL WATER HEATER

Outer Appearance

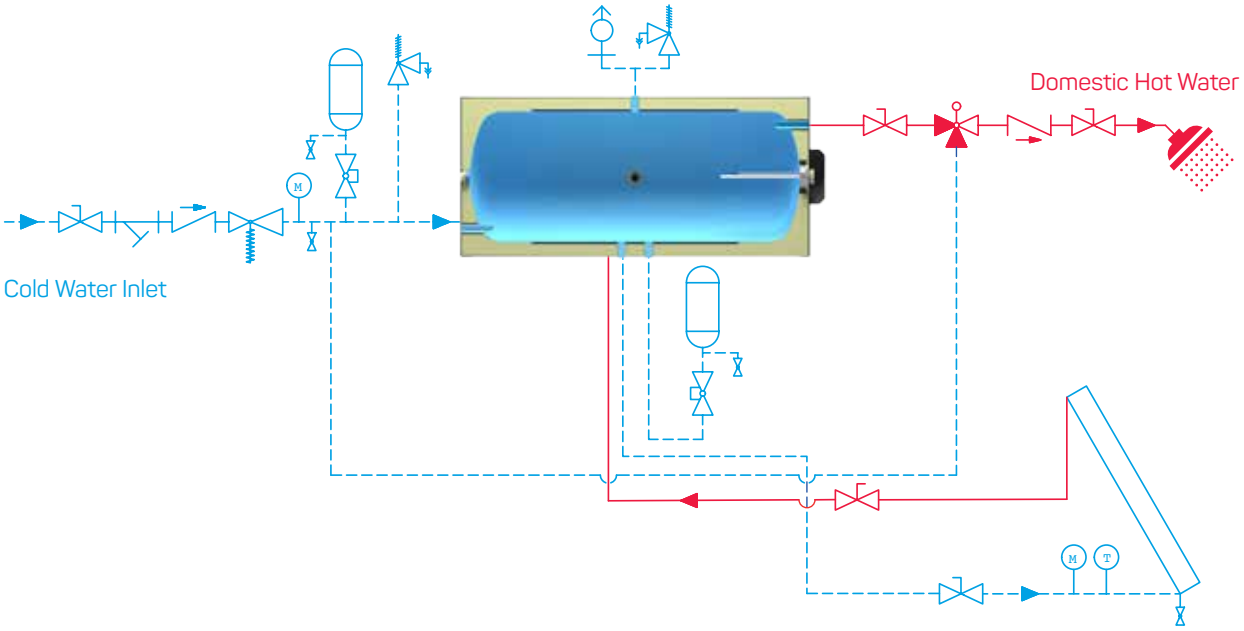


Side Section View

Volume	: 150L – 300L
Maximum Operating Temperature	: 95 °C
Body Operating Pressure	: 10 Bar
Inner Surface Coating	: Tank inner surface is enamelled (glass-lined) in accordance with DIN 4753-3 standard
Insulation	: Insulation is in accordance with EN 15332 Energy Efficiency Standard, 42 kg/m^3 water based hard PU (HCFC-Free) foam
External Cover Coating	: Electrostatic powder painted steel
Inspection and Cleaning Flange	: Inspection and cleaning flange is available in all series
Electric Heater	: One electric heater (2 kW) element can be installed (Optional)
Cathodic Protection Element	: Magnesium anode in accordance with DIN 4753-3 standard (Electronic anode option)



Installation Diagram



Installation diagram given above is just a template. Installation must be done according to update standards and directives.

DESCRIPTION	Code	Unit	KSC 150	KSC 200	KSC 250	KSC 300
Volume	V	L	150	200	250	300
Body Diameter	ØD	mm	585	585	585	585
Length	H	mm	940	1315	1570	1860
Insulation Type & Thickness	t	mm	PU/50	PU/50	PU/50	PU/50
Gross Weight	G	kg	84	96	118	135
Domestic Hot Water Outlet	N1	inch	3/4"	3/4"	3/4"	3/4"
Collector Input/Output	N2-N3	inch	3/4"	3/4"	3/4"	3/4"
Domestic Cold Water Inlet	N4	inch	3/4"	3/4"	3/4"	3/4"
Air Release Valve Connection	N5	inch	1/2"	1/2"	1/2"	1/2"
Electric Heater & Magnesium Anode Connections	N6	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Drain	N7	inch	1/2"	1/2"	1/2"	1/2"

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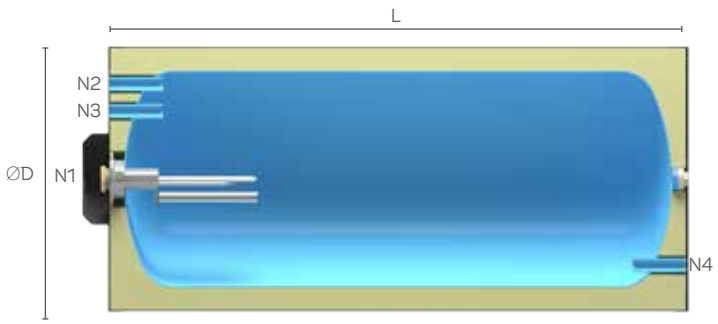
12 KSO SOLAR WATER HEATER

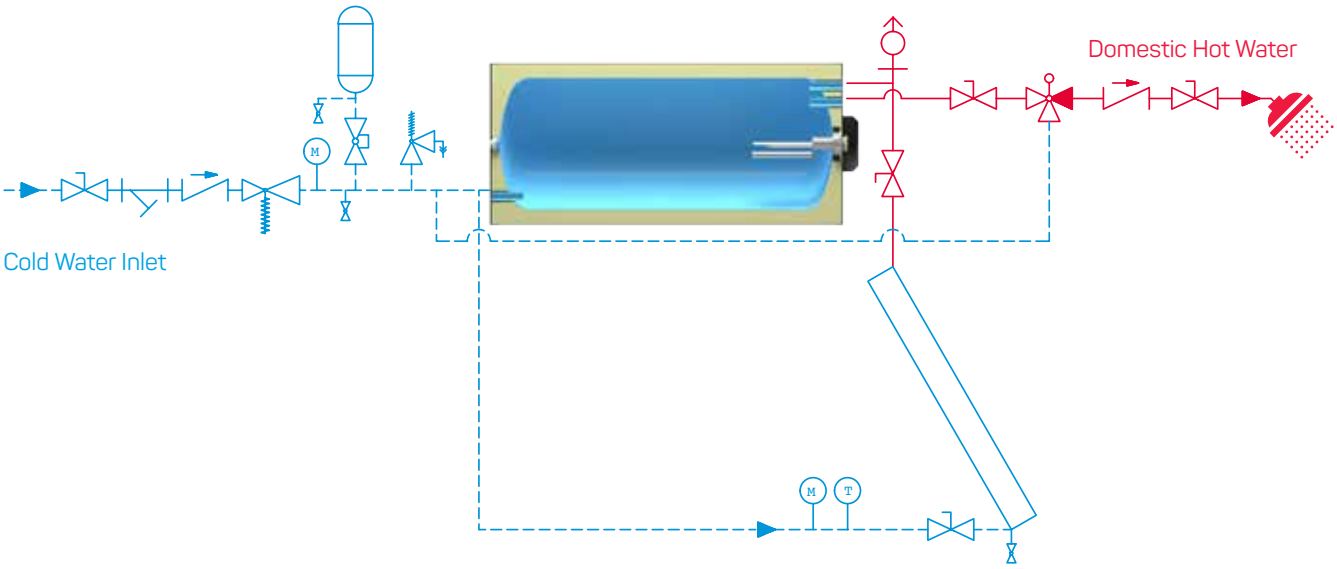
Outer Appearance

Side Section View

Volume	: 150L – 400L
Maximum Operating Temperature	: 95 °C
Body Operating Pressure	: 10 Bar
Inner Surface Coating	: Tank inner surface is enamelled (glass-lined) in accordance with DIN 4753-3 standard
Insulation	: Insulation is in accordance with EN 15332 Energy Efficiency Standard, 42 kg/m^3 water based hard PU (HCFC-Free) foam
External Cover Coating	: Electrostatic powder painted steel
Inspection and Cleaning Flange	: Inspection and cleaning flange is available in all series
Electric Heater	: One electric heater (2 kW) element can be installed (Optional)
Cathodic Protection Element	: Magnesium anode in accordance with DIN 4753-3 standard (Electronic anode option)



Installation Diagram



Installation diagram given above is just a template. Installation must be done according to update standards and directives.

DESCRIPTION	Code	Unit	KSO 150	KSO 200	KSO 250	KSO 300	KSO 400
Volume	V	L	150	200	250	300	400
Body Diameter	ØD	mm	585	585	585	585	640
Length	H	mm	940	1315	1570	1860	1900
Insulation Type & Thickness	t	mm	PU/50	PU/50	PU/50	PU/50	PU/50
Gross Weight	G	kg	75	85	106	120	132
Domestic Hot Water Outlet	N2	inch	3/4"	3/4"	3/4"	3/4"	3/4"
Collector Input/Output	N3-N4	inch	3/4"	3/4"	3/4"	3/4"	3/4"
Electric Heater & Magnesium Anode Connections	N1	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"

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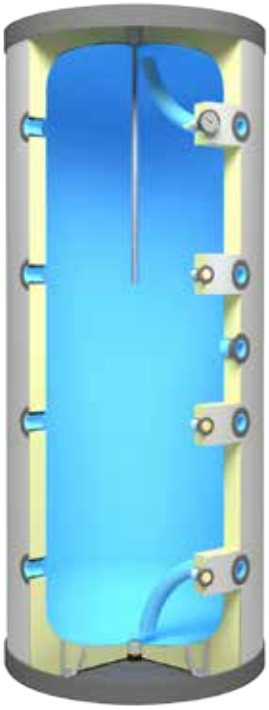
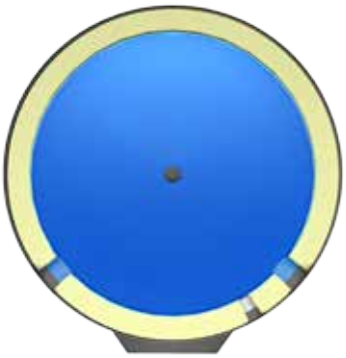
13 KAT ENAMELLED ACCUMULATION TANK

Outer Appearance



Side Section View



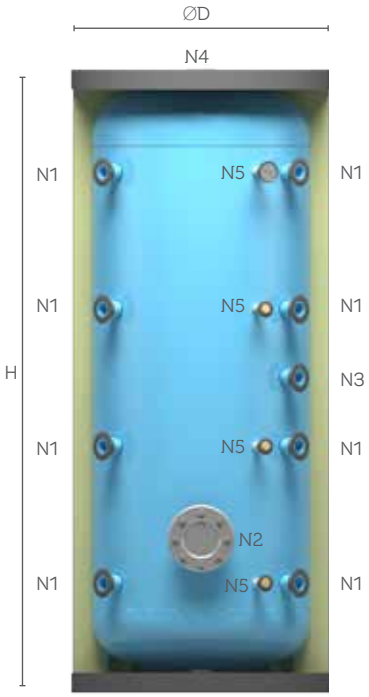
Top Section View

Volume : 100L – 5000L
Maximum Operating Temperature : 95 °C
Body Operating Pressure : 10 Bar
Inner Surface Coating : Tank inner surface is enamelled (glass-lined) in accordance with DIN 4753-3 standard

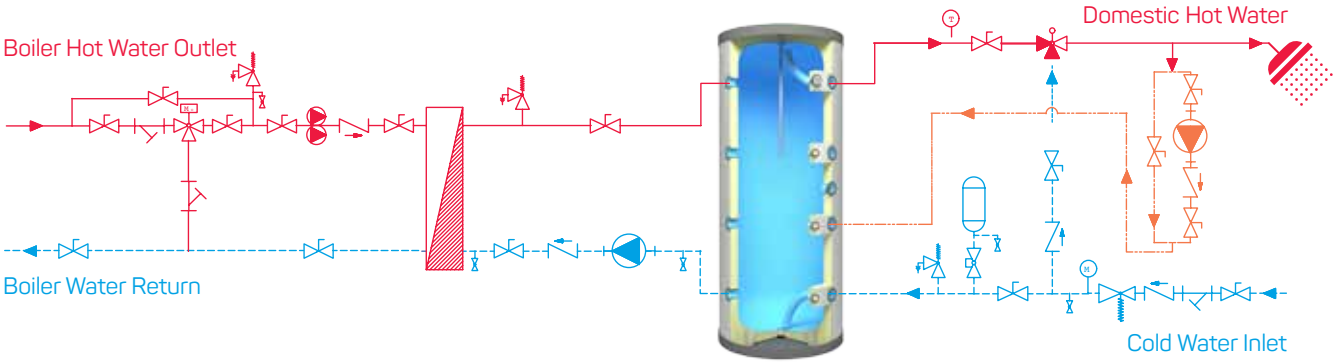
Insulation : Insulation is in accordance with EN 15332 Energy Efficiency Standard
100L – 500L : 42 kg/m³ water based hard PU (HCFC-Free) foam
800L – 1000L : 42 kg/m³ water based hard PU (HCFC-Free) foam (Optional)
800L – 5000L : 18 kg/m³ soft PU
800L – 5000L : 26 kg/m³ flame retardant soft PU (Optional)

External Cover Coating
100L – 500L : Electrostatic Powder Painted Steel / Artificial Leather / IXPE / ABS
800L – 5000L : Artificial Leather / IXPE / ABS

Thermometer : 0°C - 120°C
Inspection and Cleaning Flange : Inspection and cleaning flange is available in all series
Electric Heater : Electric heater can be installed (Optional)
Cathodic Protection Element : Magnesium anode in accordance with DIN 4753-3 standard (Electronic anode option)



Installation Diagram



Installation diagram given above is just a template. Installation must be done according to update standards and directives.

DESCRIPTION	Code	Unit	KAT 100	KAT 160	KAT 200	KAT 300	KAT 400	KAT 500	KAT 800	KAT 1000	KAT 1500	KAT 2000	KAT 2500	KAT 3000	KAT 4000	KAT 5000
Volume	V	L	100	170	200	285	400	516	800	1000	1500	2000	2500	3000	4000	5000
Body Diameter	ØD	mm	490	590	590	700	750	750	900	1000	1120	1260	1460	1460	1660	1660
Total Height	H	mm	1080	1125	1320	1210	1450	1800	2100	2070	2300	2230	2200	2560	2665	3100
Domestic Hot Water Outlet	N1	inch	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"	3"	3"
Cleaning Flange	N2	inch	4"	4"	4"	4"	4"	4"	5"	5"	5"	5"	5"	5"	5"	5"
Electric Heater	N3	inch	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"	2"	2"	2"	2"
Insulation Type & Thickness	t	mm	PU/50	PU/50	PU/50	PU/50	PU/50	PU/50	SP/80	SP/80	SP/80	SP/80	SP/80	SP/80	SP/80	SP/80
Gross Weight	G	kg	57	74	81	99	132	155	225	237	332	472	562	622	762	882
Energy Heat Loss	-	kWh /d	1,38	1,59	1,7	1,99	2,34	2,63	3,61	4,24	-	-	-	-	-	-
Tipping Height	-	mm	1205	1290	1465	1420	1650	1970	2300	2320	2580	2580	2660	3020	3160	3535
Thermometer and Sensor Connections	N5	inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Magnesium Anode Connections	N4	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"

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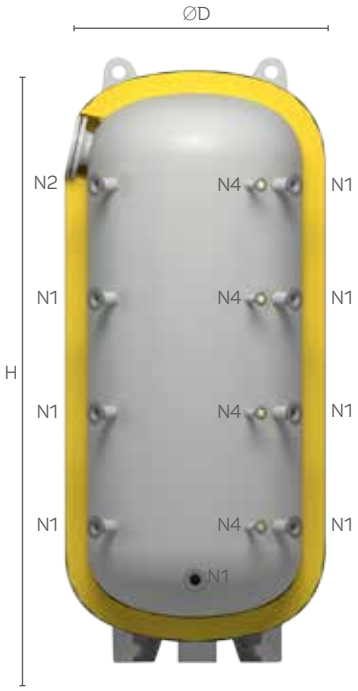
14 KGA GALVANIZED ACCUMULATION TANK

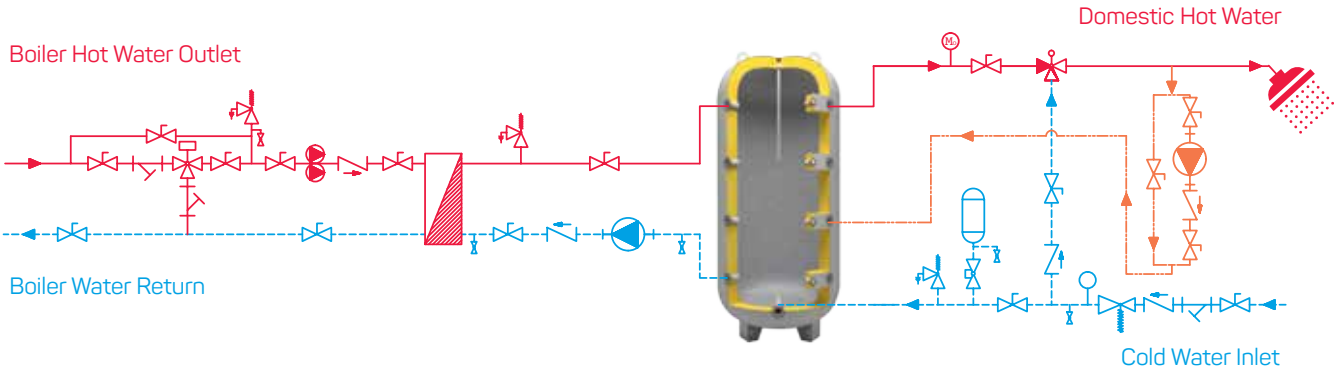
Outer Appearance

Side Section View

Volume	: 750L – 5000L
Maximum Operating Temperature	: 95 °C
Body Operating Pressure	: 10 Bar / 16 Bar
Inner Surface Coating	: KGA series tanks are made of S355J2 quality steel and galvanized in accordance with TS EN ISO 1461 standard
Insulation	: Insulation is in accordance with EN 15332 Energy Efficiency Standard
750L – 5000L	: 18 kg/m³ soft PU
750L – 5000L	: 26 kg/m³ flame retardant soft PU (Optional)
External Cover Coating	
750L – 5000L	: Artificial Leather / IXPE
Sensor Connections	: According to the operating conditions the tank has four sensor connection.
Inspection Flange	: Available at all series.



Installation Diagram



Installation diagram given above is just a template. Installation must be done according to update standards and directives.

DESCRIPTION	Code	Unit	KGA 750	KGA 1000	KGA 1500	KGA 2000	KGA 2500	KGA 3000	KGA 4000	KGA 5000
Body Diameter	ØD	mm	750	850	1050	1050	1300	1300	1400	1400
Total Height	H	mm	2000	2090	2060	2730	2270	2660	3020	3670
Domestic Hot Water Outlet	N1	inch	1 1/2"	2"	2 1/2"	2 1/2"	3"	3"	3"	3"
Cleaning Flange	N2	DN	125	125	125	125	150	150	150	150
Gross Weight	G	kg	165	220	320	400	460	550	750	850
Tipping Height	-	mm	2155	2275	2330	2940	2595	2980	3350	3950
Thermometer and Sensor Connections	N4	inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"

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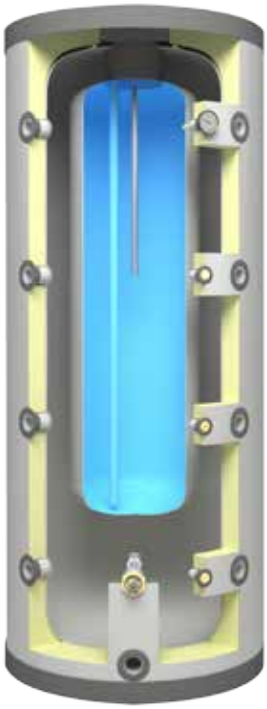
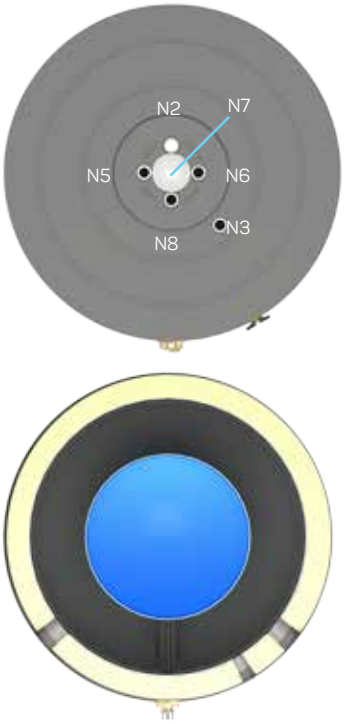
15 KCB COMBI BUFFER TANK

Outer Appearance



Side Section View



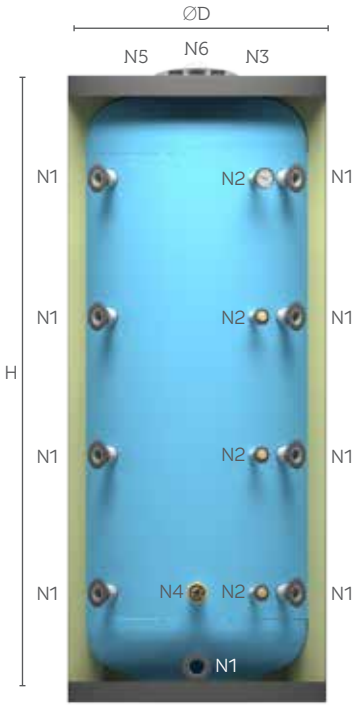
Top Section View

Volume : 500L/100L – 2000L/350L
Maximum Operating Temperature : 95 °C
Operating Pressure : Inner Tank: 3 Bar / Body: 6 Bar
Inner Surface Coating : Tank inner surface is enamelled (glass-lined) in accordance with DIN 4753-3 standard

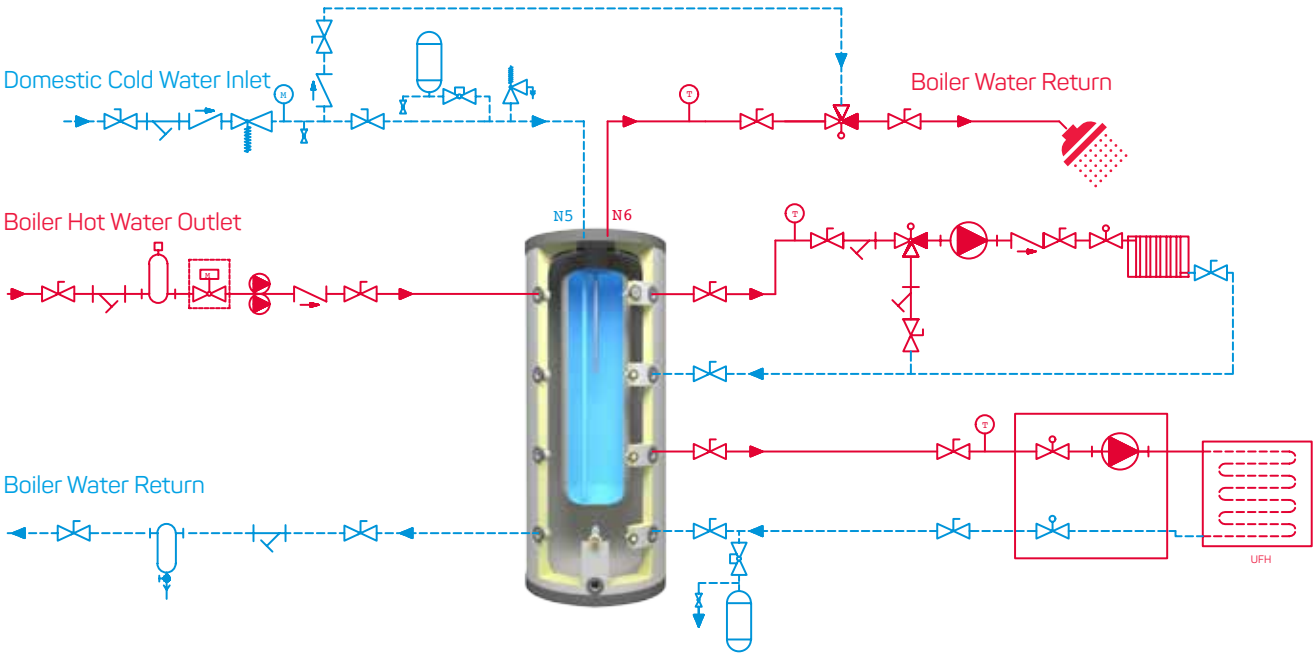
Insulation : Insulation is in accordance with EN 15332 Energy Efficiency Standard
500L : 42 kg/m³ water based hard PU (HCFC-Free) foam
800L – 1000L : 42 kg/m³ water based hard PU (HCFC-Free) foam (Optional)
800L – 2000L : 18 kg/m³ soft PU
800L – 2000L : 26 kg/m³ flame retardant soft PU (Optional)

External Cover Coating
500L : Electrostatic Powder Painted Steel / Artificial Leather / IXPE / ABS
800L – 2000L : Artificial Leather / IXPE / ABS

Thermometer : 0°C - 120°C
Inspection and Cleaning Flange : Inspection and cleaning flange is available in all series
Electric Heater : Electric heater can be installed (Optional)
Cathodic Protection Element : Magnesium anode in accordance with DIN 4753-3 standard (Electronic anode option)



Installation Diagram



Installation diagram given above is just a template. Installation must be done according to update standards and directives.

DESCRIPTION	Code	Unit	KCB 500/100	KCB 500/160	KCB 800/160	KCB 1000/160	KCB 1000/200	KCB 1500/200	KCB 1500/350	KCB 2000/200	KCB 2000/350
Volume	V	L	500	500	800	1000	1000	1500	1500	2000	2000
Body Diameter	ØD	mm	750	750	900	1000	1000	1120	1120	1260	1260
Inner Tank Volume	V	L	100	160	160	160	200	200	350	200	350
Total Height	H	mm	1850	1850	2140	2110	2110	2340	2340	2270	2270
Cold Water Inlet	N5	inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"	1"
Hot Water Outlet	N6	inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"	1"
Domestic Hot Water Outlet	N1	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
Energy Heat Loss	-	kWh/d	2,63	2,63	3,62	4,24	4,24	-	-	-	-
Insulation Type & Thickness	t	mm	PU/50	PU/50	SP/80	SP/80	SP/80	SP/80	SP/80	SP/80	SP/80
Gross Weight	G	kg	246	261	386	392	407	570	590	645	665
Tipping Height	-	mm	2015	2015	2340	2355	2355	2615	2615	2615	2615
Thermometer and Sensor Connections	N2	inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Outer Tank Air Release Valve Connection	N3	inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Electric Heater	N4	inch	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
Magnesium Anode Connections	N7	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Inner Tank Air Release Valve Connection	N8	inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"

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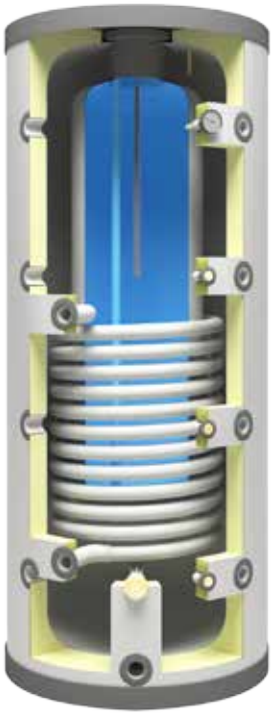
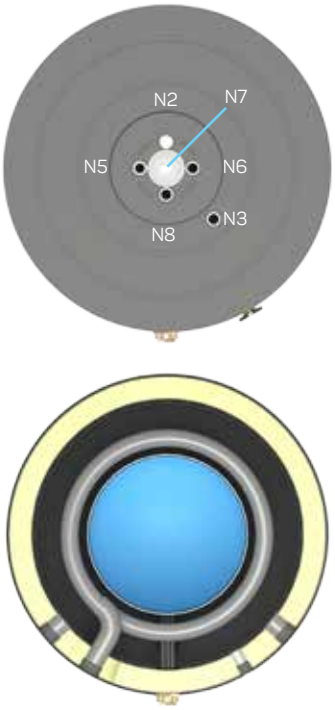
16 KCB-S SINGLE SERPENTINE COMBI BUFFER TANK

Outer Appearance



Side Section View



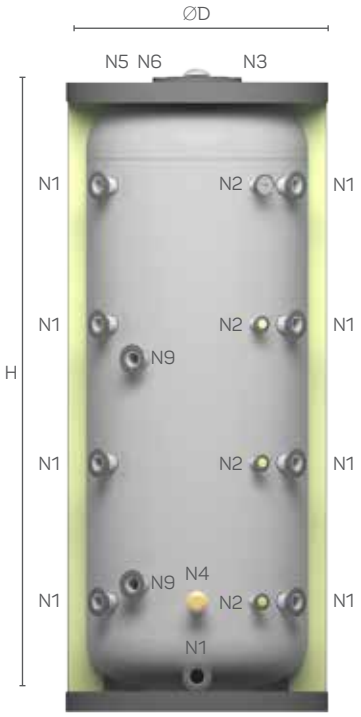
Top Section View

Volume : 500L/100L – 2000L/350L
Capacity Range : 49.4 kW – 93.3 kW
Maximum Operating Temperature : 95 °C
Operating Pressure : Inner Tank: 3 Bar / Body: 6 Bar
Inner Surface Coating : Tank inner surface is enamelled (glass-lined) in accordance with DIN 4753-3 standard

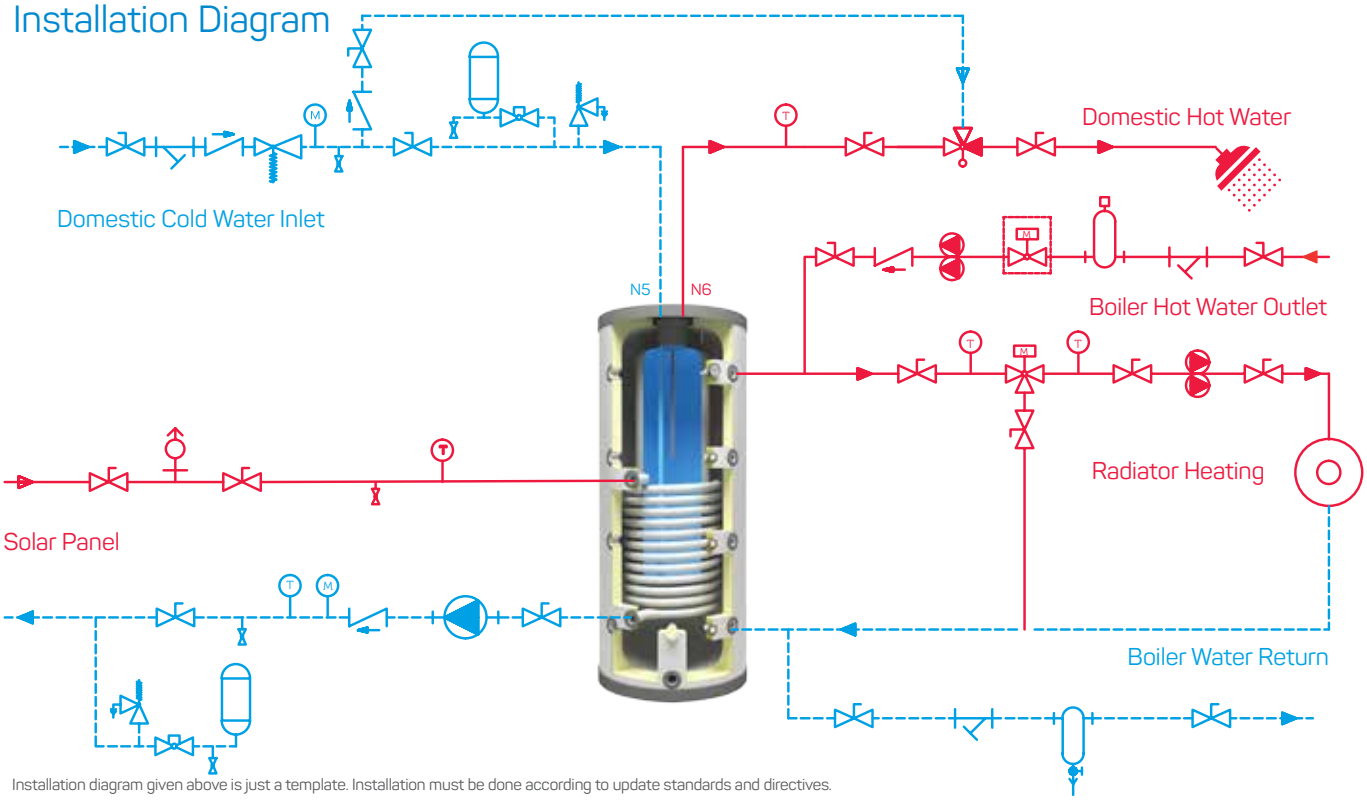
Insulation : Insulation is in accordance with EN 15332 Energy Efficiency Standard
500L : 42 kg/m³ water based hard PU (HCFC-Free) foam
800L – 1000L : 42 kg/m³ water based hard PU (HCFC-Free) foam (Optional)
800L – 2000L : 18 kg/m³ soft PU
800L – 2000L : 26 kg/m³ flame retardant soft PU (Optional)

External Cover Coating
500L : Electrostatic Powder Painted Steel / Artificial Leather / IXPE / ABS
800L – 2000L : Artificial Leather / IXPE / ABS

Thermometer : 0°C - 120°C
Inspection and Cleaning Flange : Inspection and cleaning flange is available in all series
Electric Heater : Electric heater can be installed (Optional)
Cathodic Protection Element : Magnesium anode in accordance with DIN 4753-3 standard (Electronic anode option)



Installation Diagram



Installation diagram given above is just a template. Installation must be done according to update standards and directives.

DESCRIPTION	Code	Unit	KCB-S 500/100	KCB-S 500/160	KCB-S 800/160	KCB-S 1000/160	KCB-S 1000/200	KCB-S 1500/200	KCB-S 1500/350	KCB-S 2000/200	KCB-S 2000/350
Volume	V	L	500	500	800	1000	1000	1500	1500	2000	2000
Body Diameter	ØD	mm	750	750	900	1000	1000	1120	1120	1260	1260
Inner Tank Volume	V	L	100	160	160	160	200	200	350	200	350
Total Height	H	mm	1850	1850	2140	2110	2110	2340	2340	2270	2270
Cold Water Inlet	N5	inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"	1"
Hot Water Outlet	N6	inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"	1"
Domestic Hot Water Outlet	N1	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
Insulation Type & Thickness	t	mm	PU/50	PU/50	SP/80	SP/80	SP/80	SP/80	SP/80	SP/80	SP/80
Energy Heat Loss	-	kWh/d	2,63	2,63	3,62	4,24	4,24	-	-	-	-
Gross Weight	G	kg	280	296	425	433	448	618	638	767	787
Tipping Height	-	mm	2015	2015	2340	2355	2355	2615	2615	2615	2615
Thermometer and Sensor Connections	N2	inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Outer Tank Air Release Valve Connection	N3	inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Electric Heater	N4	inch	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
Magnesium Anode Connections	N7	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Inner Tank Air Release Valve Connection	N8	inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Serpentine Diameter	N9	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"

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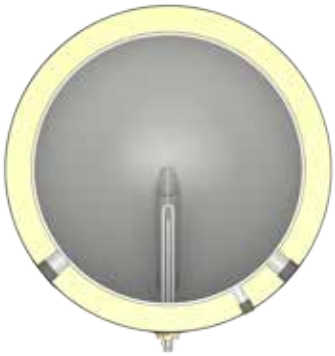
17 KBT-B BUFFER TANK

Outer Appearance

Side Section View



Top Section View

Volume : 100L – 2000L (Please contact us for different capacities and pressure)

Maximum Operating Temperature : 95 °C

Body Operating Pressure : 6 Bar

Inner Surface Coating : Buffer tanks are made of high quality S235JR (EN 10025) corrosion resistance steel

Insulation : Insulation is in accordance with EN 15332 Energy Efficiency Standard

100L – 500L : 42 kg/m³ water based hard PU (HCFC-Free) foam

800L – 1000L : 42 kg/m³ water based hard PU (HCFC-Free) foam (Optional)

800L – 2000L : 18 kg/m³ soft PU

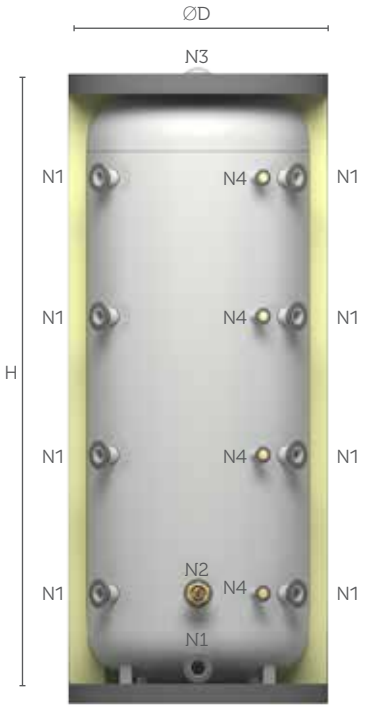
800L – 2000L : 26 kg/m³ flame retardant soft PU (Optional)

External Cover Coating

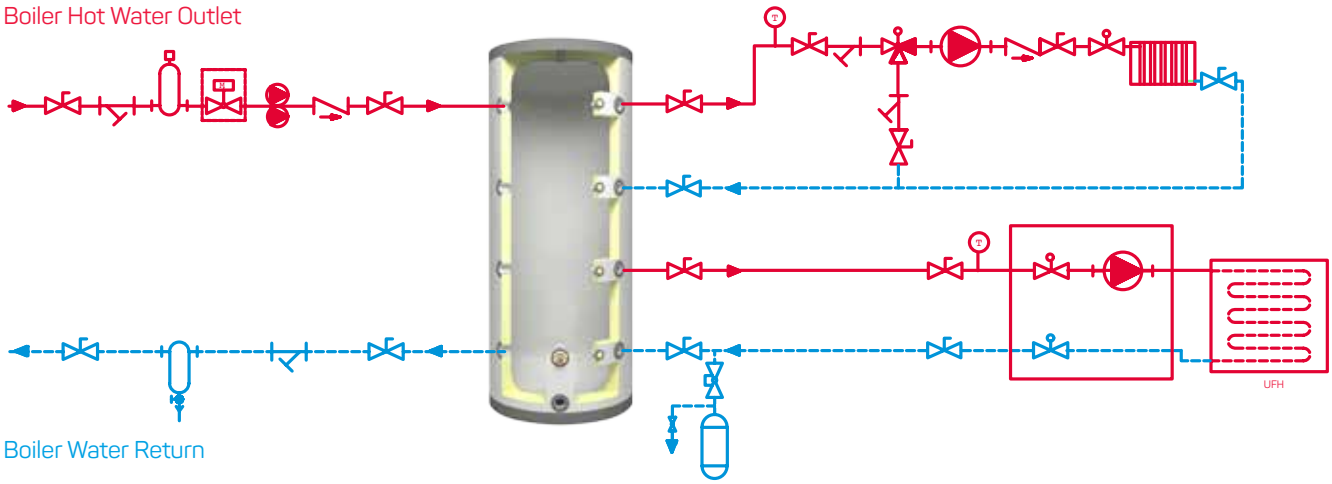
100L - 500L : Electrostatic Powder Painted Steel / Artificial Leather / IXPE / ABS

800L – 2000L : Artificial Leather / IXPE / ABS

Electric Heater : Electric heater can be installed (Optional)



Installation Diagram



Installation diagram given above is just a template. Installation must be done according to update standards and directives.

DESCRIPTION	Code	Unit	KBT-B 100	KBT-B 160	KBT-B 200	KBT-B 300	KBT-B 400	KBT-B 500	KBT-B 800	KBT-B 1000	KBT-B 1500	KBT-B 2000
Volume	V	L	100	160	200	300	400	500	800	1000	1500	2000
Body Diameter	ØD	mm	490	590	590	700	750	750	900	1000	1120	1260
Total Height	H	mm	1080	1125	1320	1210	1450	1800	2100	2070	2300	2230
Domestic Hot Water Outlet	N1	inch	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
Air Release Valve Connection	N4	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Insulation Type & Thickness	t	mm	PU/50	PU/50	PU/50	PU/50	PU/50	PU/50	SP/80	SP/80	SP/80	SP/80
Energy Heat Loss	-	kWh/d	1,38	1,59	1,7	1,99	2,34	2,63	3,61	4,24	-	-
Gross Weight	G	kg	55	72	79	97	130	153	223	235	330	470
Tipping Height	-	mm	1205	1290	1465	1420	1650	1970	2300	2320	2580	2580
Thermometer and Sensor Connections	N4	inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Electric Heater	N2	inch	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"

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18 KBT-S SINGLE SERPENTINE BUFFER TANK

Outer Appearance

Side Section View

Top Section View

Volume : 160L – 2000L (Please contact us for different capacities and pressure)

Maximum Operating Temperature : 95 °C

Body Operating Pressure : 6 Bar

Inner Surface Coating : Buffer tanks are made of high quality S235JR (EN 10025) corrosion resistance steel

Insulation : Insulation is in accordance with EN 15332 Energy Efficiency Standard

160L – 500L : 42 kg/m³ water based hard PU (HCFC-Free) foam

800L – 1000L : 42 kg/m³ water based hard PU (HCFC-Free) foam (Optional)

800L – 2000L : 18 kg/m³ soft PU

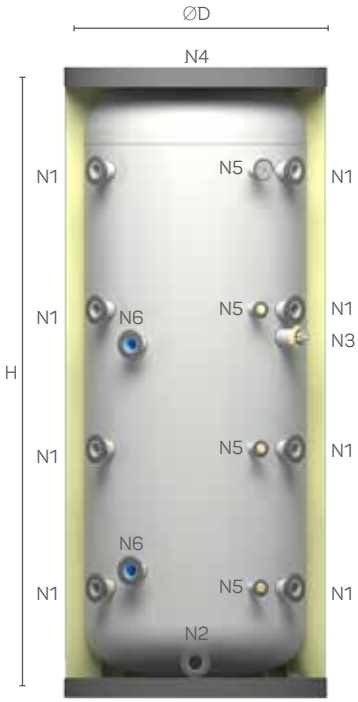
800L – 2000L : 26 kg/m³ flame retardant soft PU (Optional)

External Cover Coating

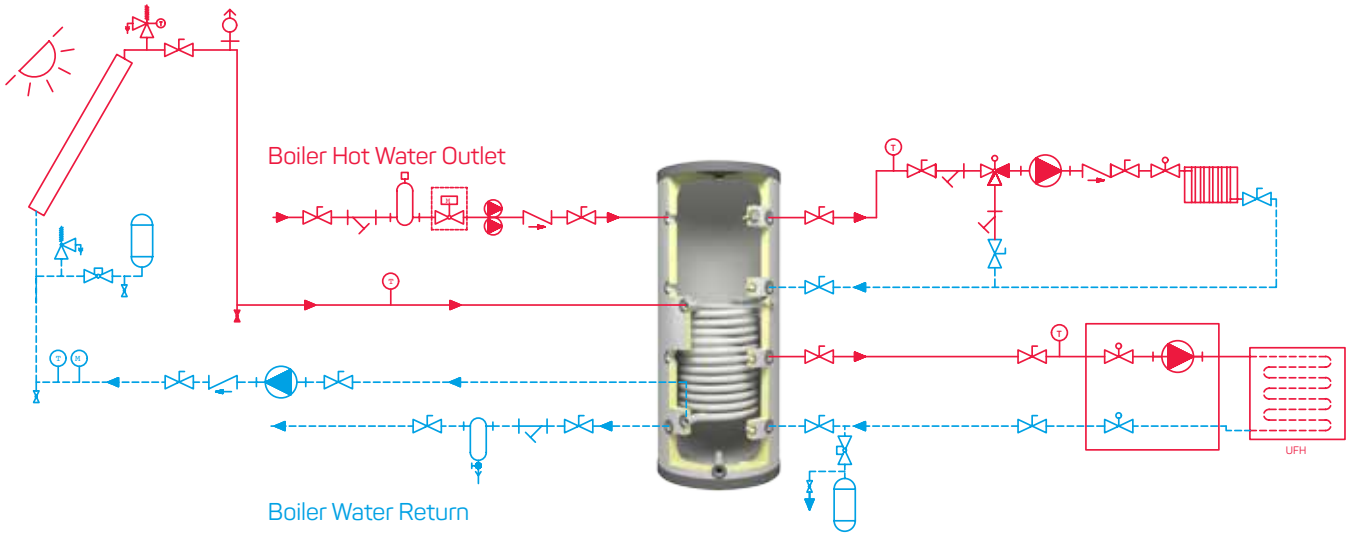
160L - 500L : Electrostatic Powder Painted Steel / Artificial Leather / IXPE / ABS

800L – 2000L : Artificial Leather / IXPE / ABS

Electric Heater : Electric heater can be installed (Optional)



Installation Diagram



Installation diagram given above is just a template. Installation must be done according to update standards and directives.

DESCRIPTION	Code	Unit	KBT-S 160	KBT-S 200	KBT-S 300	KBT-S 400	KBT-S 500	KBT-S 800	KBT-S 1000	KBT-S 1500	KBT-S 2000
Volume	V	L	160	200	300	400	500	800	1000	1500	2000
Body Diameter	ØD	mm	590	590	700	750	750	900	1000	1120	1260
Total Height	H	mm	1125	1320	1210	1450	1800	2100	2070	2300	2230
Domestic Water Outlet	N1	inch	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"
Drain	N2	inch	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"
Electric Heater	N3	inch	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"
Serpentine Diameter	N6	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Insulation Type & Thickness	t	mm	PU/50	PU/50	PU/50	PU/50	PU/50	SP/80	SP/80	SP/80	SP/80
Energy Heat Loss	-	kWh/d	1,51	1,78	2,03	2,26	2,77	3,94	4,62	-	-
Gross Weight	G	kg	91	109	123	156	194	261	283	380	594
Tipping Height	-	mm	1290	1465	1420	1650	1970	2300	2320	2580	2580
Thermometer and Sensor Connections	N5	inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Air Release Valve Connection	N4	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"

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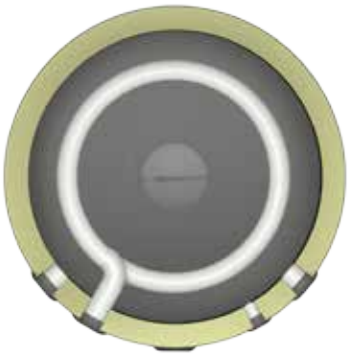
19 KBT-D DOUBLE SERPENTINE BUFFER TANK

Outer Appearance

Side Section View



Top Section View

Volume : 160L – 2000L (Please contact us for different capacities and pressure)

Maximum Operating Temperature : 95 °C

Body Operating Pressure : 6 Bar

Inner Surface Coating : Buffer tanks are made of high quality S235JR (EN 10025) corrosion resistance steel

Insulation : Insulation is in accordance with EN 15332 Energy Efficiency Standard

160L – 500L : 42 kg/m³ water based hard PU (HCFC-Free) foam

800L – 1000L : 42 kg/m³ water based hard PU (HCFC-Free) foam (Optional)

800L – 2000L : 18 kg/m³ soft PU

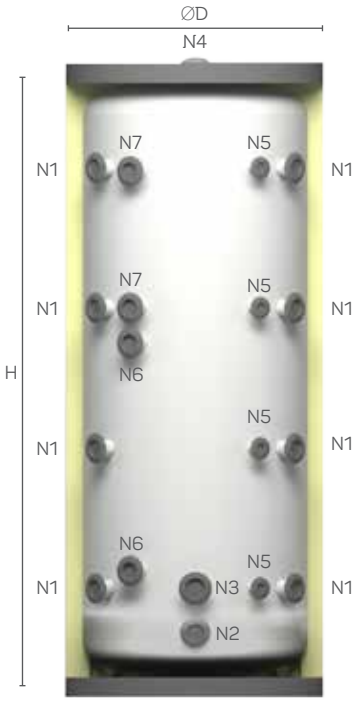
800L – 2000L : 26 kg/m³ flame retardant soft PU (Optional)

External Cover Coating

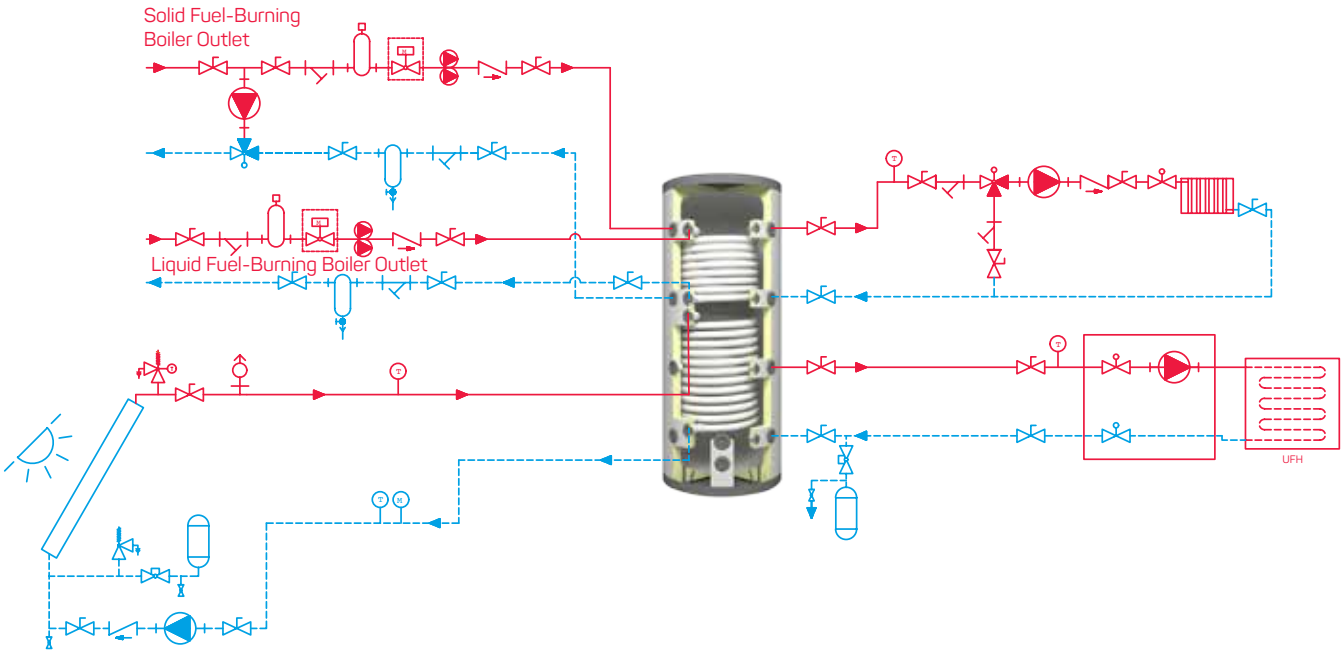
160L - 500L : Electrostatic Powder Painted Steel / Artificial Leather / IXPE / ABS

800L – 2000L : Artificial Leather / IXPE / ABS

Electric Heater : One electric heater can be installed (Optional)



Installation Diagram



Installation diagram given above is just a template. Installation must be done according to update standards and directives.

DESCRIPTION	Code	Unit	KBT-D 160	KBT-D 200	KBT-D 300	KBT-D 400	KBT-D 500	KBT-D 800	KBT-D 1000	KBT-D 1500	KBTD 2000
Volume	V	L	160	200	300	400	500	800	1000	1500	2000
Body Diameter	ØD	mm	590	590	700	750	750	900	1000	1120	1260
Total Height	H	mm	1125	1320	1210	1450	1800	2100	2070	2300	2230
Domestic Water Outlet	N1	inch	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"
Drain	N2	inch	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"
Electric Heater	N3	inch	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"
Upper Serpantine Diameter	N7	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Lower Serpantine Diameter	N6	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Insulation Type & Thickness	t	mm	PU/50	PU/50	PU/50	PU/50	PU/50	SP/80	SP/80	SP/80	SP/80
Energy Heat Loss	-	kWh/d	1,37	1,44	2,07	2,19	2,69	3,84	4,64	4,24	-
Gross Weight	G	kg	95	112	132	170	223	290	318	417	640
Tipping Height	-	mm	1290	1465	1420	1650	1970	2300	2320	2580	2580
Thermometer and Sensor Connections	N5	inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Air Release Valve Connection	N4	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"

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20 KBT-CB COOLING BUFFER TANK

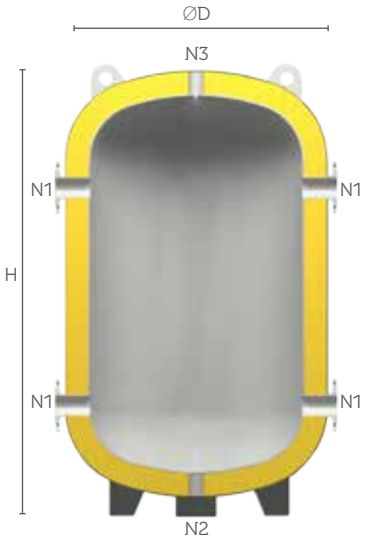
Outer Appearance

Side Section View

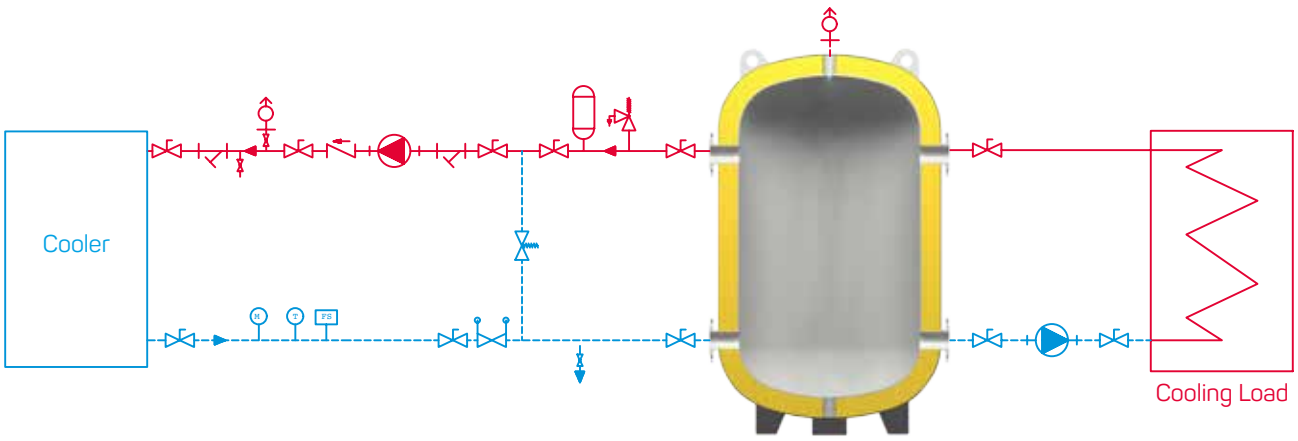
Volume : 100L – 5000L (Please contact us for different capacities and pressure)
Maximum Operating Temperature : 95 °C
Body Operating Pressure : 6 Bar
Connection Flange / Pressure Class : DN 50 – DN 300 / PN16
Inner Surface Coating : Buffer tanks are made of high quality S235JR (EN 10025) corrosion resistance steel

Insulation : Insulation is in accordance with EN 15332 Energy Efficiency Standard
100L – 500L : 42 kg/m³ water based hard PU (HCFC-Free) foam
800L – 5000L : 18 kg/m³ soft PU
800L – 5000L : 26 kg/m³ flame retardant soft PU (Optional)

External Cover Coating
100L – 500L : Electrostatic Powder Painted Steel / Artificial Leather / IXPE / ABS
800L – 5000L : Artificial Leather / IXPE / ABS
External surface is coated with two layer high quality primary paint



Installation Diagram



Installation diagram given above is just a template. Installation must be done according to update standards and directives.

DESCRIPTION	Code	Unit	KBT-CB 100	KBT-CB 300	KBT-CB 500	KBT-CB 800	KBT-CB 1000	KBT-CB 1500	KBT-CB 2000	KBT-CB 2500	KBT-CB 3000	KBT-CB 4000	KBT-CB 5000
Volume	V	L	100	300	500	800	1000	1500	2000	2500	3000	4000	5000
Body Diameter	ØD	mm	540	760	800	910	1010	1120	1260	1460	1460	1660	1660
Total Height	H	mm	1160	1285	1830	2130	2100	2440	2370	2260	2660	2700	3100
Domestic Water Outlet	N1	inch/ DN	1 1/2"	2"	2 1/2"	DN 80	DN 100	DN 125	DN 125	DN 150	DN 150	DN 200	DN 200
Discharge	N2	inch	1 1/4"	1 1/2"	1 1/2"	2"	2"	2"	2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"
Insulation Type & Thickness	t	mm	PU/50	PU/50	PU/50	SP/80	SP/80	SP/80	SP/80	SP/80	SP/80	SP/80	SP/80
Gross Weight	G	kg	48	84	140	372	471	746	847	1198	1258	1774	1894
Tipping Height	-	mm	1290	1515	2020	2335	2350	2700	2585	2710	3050	3190	3555
Air Release Valve Connection	N3	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"

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21 KBT-C BUFFER TANK WITH BAFFLE PLATE

Outer Appearance

Side Section View

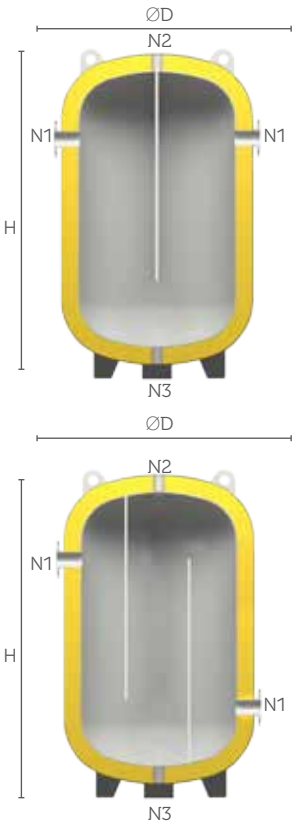
Volume	: 100L – 5000L (Please contact us for different capacities and pressure)
Maximum Operating Temperature	: 95 °C
Body Operating Pressure	: 6 Bar
Connection Flange / Pressure Class	: DN 50 – DN 300 / PN16
Inner Surface Coating	: Buffer tanks are made of high quality S235JR (EN 10025) corrosion resistance steel

Insulation	: Insulation is in accordance with EN 15332 Energy Efficiency Standard
100L – 5000L	: 18 kg/m³ soft PU
100L – 5000L	: 26 kg/m³ flame retardant soft PU (Optional)

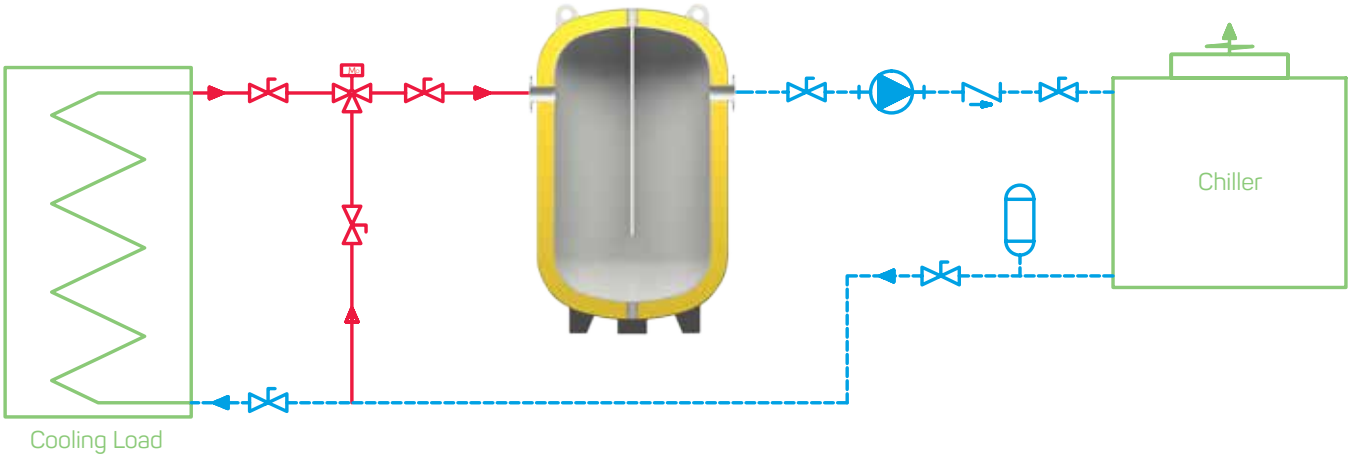
External Cover Coating

100L – 5000L	: Artificial Leather / IXPE / ABS

External surface is coated with two layer high quality primary paint



Installation Diagram



Installation diagram given above is just a template. Installation must be done according to update standards and directives.

DESCRIPTION	Code	Unit	KBT-C 100	KBT-C 300	KBT-C 500	KBT-C 800	KBT-C 1000	KBT-C 1500	KBT-C 2000	KBT-C 2500	KBT-C 3000	KBT-C 4000	KBT-C 5000
Baffle	-	Quan-tity	1				2				3		
Volume	V	L	100	300	500	800	1000	1500	2000	2500	3000	4000	5000
Body Diameter	ØD	mm	540	760	910	910	1010	1120	1260	1460	1460	1660	1660
Total Height	H	mm	1160	1285	1540	2130	2100	2440	2370	2260	2660	2700	3100
Domestic Water Outlet	N1	DN	50	50	65	80	100	125	125	150	150	200	200
Air Release Valve Connection	N2	inch	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Drain	N3	inch	3/4"	3/4"	1"	1"	1 1/4"	1 1/2"	1 1/2"	2"	2"	2"	2"
Gross Weight	G	kg	62	108	180	248	283	395	535	636	756	912	1080
Tipping Height	-	mm	1290	1515	2000	2335	2350	2700	2585	2710	3050	3190	3555

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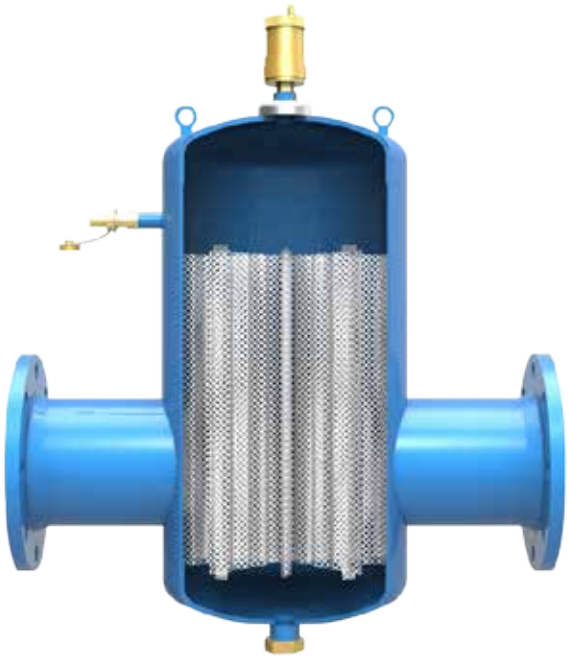
22 KHA DISCAL DEAERATOR

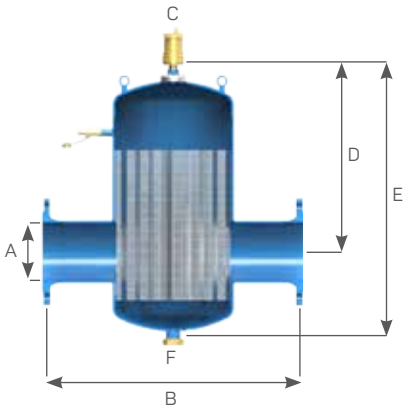
Outer Appearance

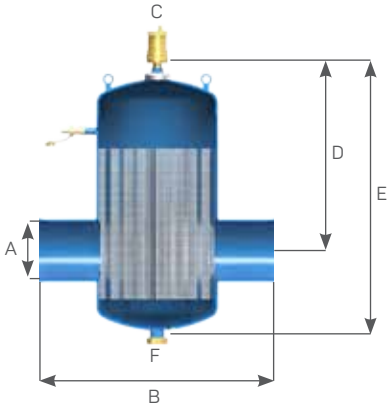


Side Section View

Capacity : 8,5 – 320,0 m³/sa
Maximum Operating Temperature : 110 °C

Connection Flange / Pressure Class : DN 50 – DN 300 / PN16 (EN1092-1) (Please contact us for products larger than specified in this catalogue)
Filter Material : Stainless Steel
Exterior Surface Protection Paint : DN 50 – DN 200 Electrostatic Powder Paint
: DN 250 – DN 300 Water based Paint

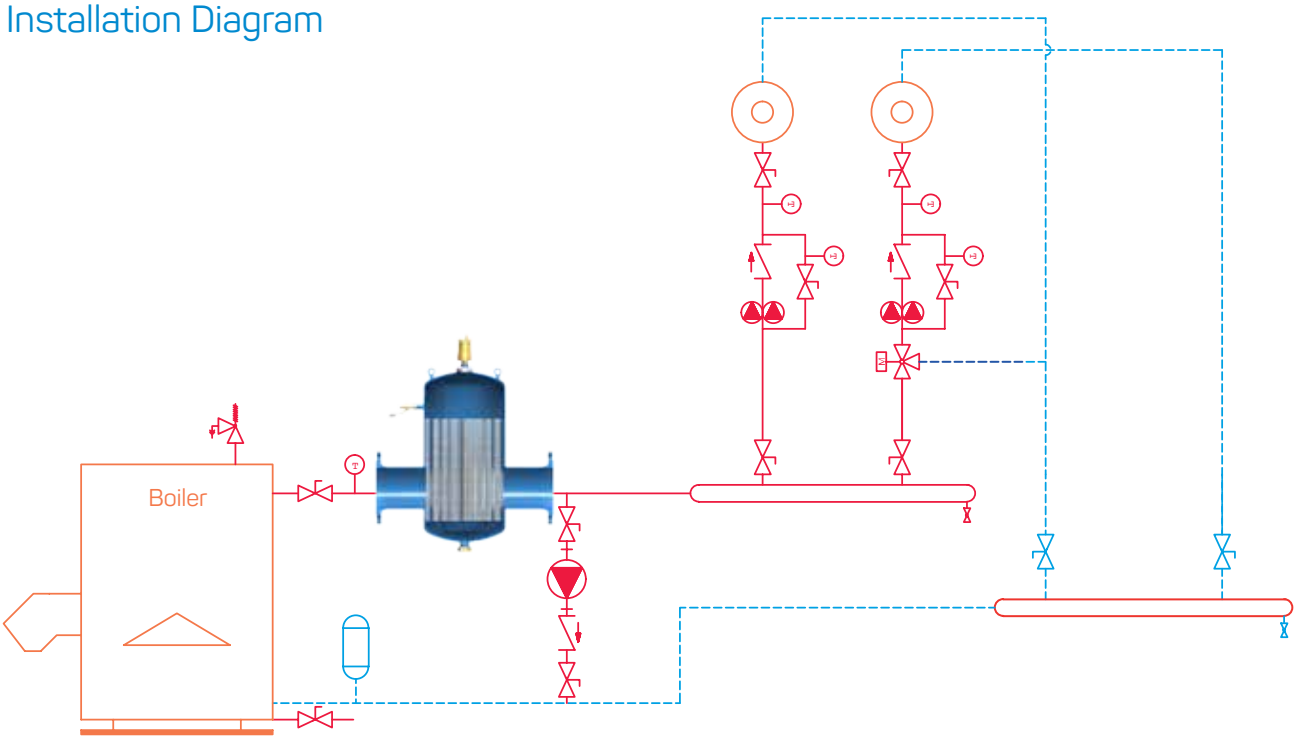




The amount of air which can remain dissolved in a water solution is a function of pressure and temperature. Air bubbles;
- Adhering to the heat transfer surfaces reduce thermal conductivity and lead to efficiency loss.
- Can cause corrosion in the heating systems and installation pipes.
- Cause cavitation in the pumps and installations.
- Cause failures in the pumps and other elements.
- May cause disturbing noises in the installation pumps and especially in the radiators.

SPECIFICATIONS / USAGE AREAS
- Air Separator separates and releases the micro-bubbles from the water out the heating system due to specially designed quality stainless steel, thus avoiding heat transfer problems during in installation and in the system. It also provides an efficient work of the system.
- The product can be used with all types of heating and cooling systems.
- The air at the top of unit is released out of tank with the help of and automatic air relief valve.
- Percentage of glycol in the heating system is maximum 50%

Installation Diagram



Installation diagram given above is just a template. Installation must be done according to update standards and directives.

KHA-F Flanged Discal Deaerator

TYPE	A (DN)	Body Diameter (Ø)	B (mm)	C (inch)	D (mm)	E (mm)	F (inch)	Weight (kg)	Flow (m3/h)
KHA-F 50	DN 50	168	350	1/2"	301	430	1"	15	8,5
KHA-F 65	DN 65	168	350	1/2"	301	430	1"	15,5	14,5
KHA-F 80	DN 80	219	466	1/2"	359	523	1"	28	22,0
KHA-F 100	DN 100	219	470	1/2"	359	523	1"	30	34,0
KHA-F 125	DN 125	323	635	1/2"	462	692	1"	48	59,0
KHA-F 150	DN 150	323	635	1/2"	462	692	1"	53	86,0
KHA-F 200	DN 200	400	774	1/2"	510	780	2"	81	140,0
KHA-F 250	DN 250	450	860	1/2"	580	880	2"	108	222,0
KHA-F 300	DN 300	500	926	1/2"	670	1000	2"	138	320,0

KHA-K Welded Discal Deaerator

TYPE	A (inch)	Body Diameter (Ø)	B (mm)	C (inch)	D (mm)	E (mm)	F (inch)	Weight (kg)	Flow (m3/h)
KHA-K 50	2"	168	260	1/2"	301	430	1"	10	8,5
KHA-K 65	2 1/2"	168	260	1/2"	301	430	1"	10,5	14,5
KHA-K 80	3"	219	366	1/2"	359	523	1"	20	22,0
KHA-K 100	4"	219	366	1/2"	359	523	1"	21	34,0
KHA-K 125	5"	323	525	1/2"	462	692	1"	35	59,0
KHA-K 150	6"	323	525	1/2"	462	692	1"	37	86,0
KHA-K 200	8"	400	650	1/2"	510	780	2"	58	140,0
KHA-K 250	10"	450	720	1/2"	580	880	2"	74	222,0
KHA-K 300	12"	500	770	1/2"	670	1000	2"	93	320,0

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23 KTT DIRT SEPARATOR

Outer Appearance

Side Section View

Capacity : 8,5 – 320,0 m^3/sa
Maximum Operating Temperature : 110 °C

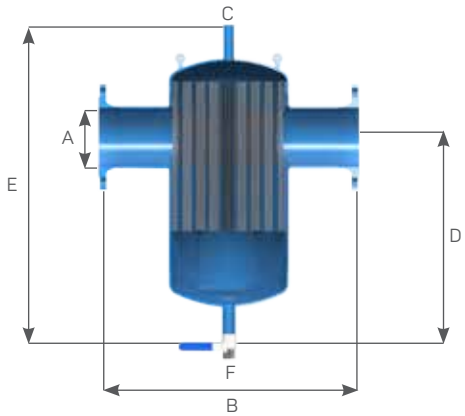
Connection Flange / Pressure Class : DN 50 – DN 300 / PN16 (EN1092-1) (Please contact us for products larger than specified in this catalogue)

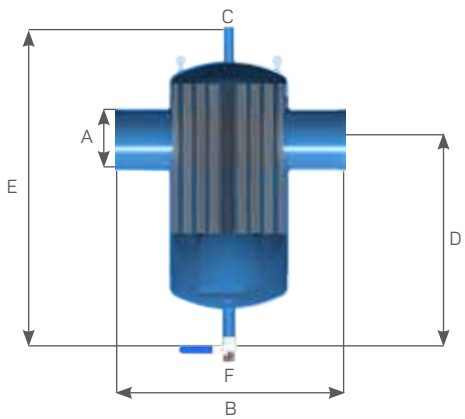
Filter Material : Stainless Steel
Exterior Surface Protection Paint : DN 50 – DN 200 Electrostatic Powder Paint
: DN 250 – DN 300 Water based Paint

The impurities mainly sand and rust particles circulating within the heating system cause efficiency loss, failures in heating and cooling systems, clogging the pumps and control valves.

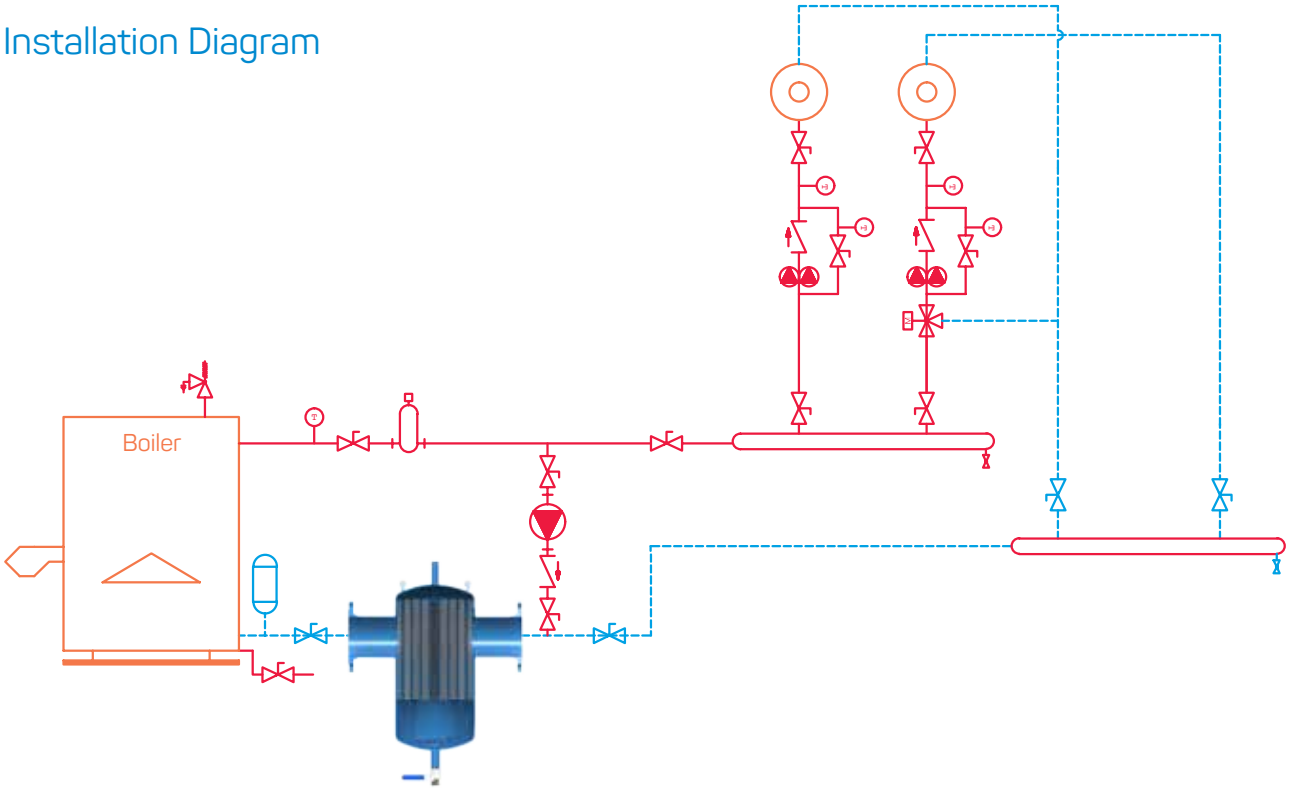
SPECIFICATIONS / USAGE AREAS

- Since the cleaning and maintenance of the classical type of dirt separators cannot be made easily by the user, they generally become out of function by time. With the help of ball valve on the bottom of the KTT series cleaning can be done very easily.
- Specially designed stainless steel mesh filters are present in KTT series.
- Percentage of glycol in the heating system is maximum 50%
- Accumulated impurity volume is much bigger according to classical dirt separators. Needed periodic cleaning is much more less





Installation Diagram



Installation diagram given above is just a template. Installation must be done according to update standards and directives.

KTT-F Flanged Dirt Separator

TYPE	A (DN)	Body Diameter (Ø)	B (mm)	C (inch)	D (mm)	E (mm)	F (inch)	Weight (kg)	Flow (m3/h)
KTT-F 50	DN 50	168	350	3/4"	425	620	1"	13	8,5
KTT-F 65	DN 65	168	350	3/4"	425	620	1"	15	14,5
KTT-F 80	DN 80	219	466	3/4"	500	740	1"	23	22,0
KTT-F 100	DN 100	219	470	3/4"	500	740	1"	25	34,0
KTT-F 125	DN 125	323	635	3/4"	600	900	1"	52	59,0
KTT-F 150	DN 150	323	635	3/4"	600	900	1"	54	86,0
KTT-F 200	DN 200	400	774	3/4"	570	720	2"	152	140,0
KTT-F 250	DN 250	450	860	3/4"	640	820	2"	280	222,0
KTT-F 300	DN 300	500	926	3/4"	730	940	2"	395	320,0

KTT-K Welded Dirt Separator

TYPE	A (inch)	Body Diameter (Ø)	B (mm)	C (inch)	D (mm)	E (mm)	F (inch)	Weight (kg)	Flow (m3/h)
KTT-K 50	2"	168	260	3/4"	425	620	1"	8	8,5
KTT-K 65	2 1/2"	168	260	3/4"	425	620	1"	9	14,5
KTT-K 80	3"	219	366	3/4"	500	740	1"	15	22,0
KTT-K 100	4"	219	366	3/4"	500	740	1"	16	34,0
KTT-K 125	5"	323	525	3/4"	600	900	1"	39	59,0
KTT-K 150	6"	323	525	3/4"	600	900	1"	40	86,0
KTT-K 200	8"	400	650	3/4"	570	720	2"	129	140,0
KTT-K 250	10"	450	720	3/4"	640	820	2"	246	222,0
KTT-K 300	12"	500	770	3/4"	730	940	2"	350	320,0

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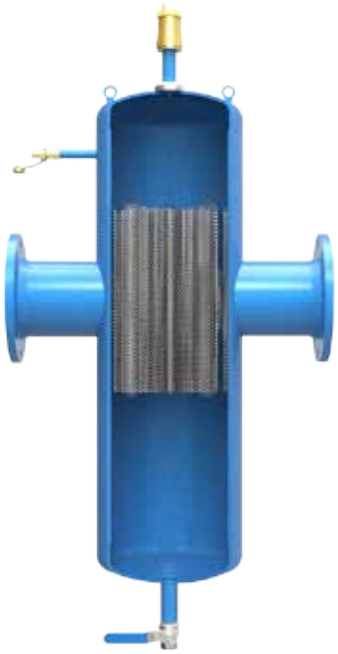
24 KPH DISCAL DEAERATOR & DIRT SEPARATOR

Outer Appearance

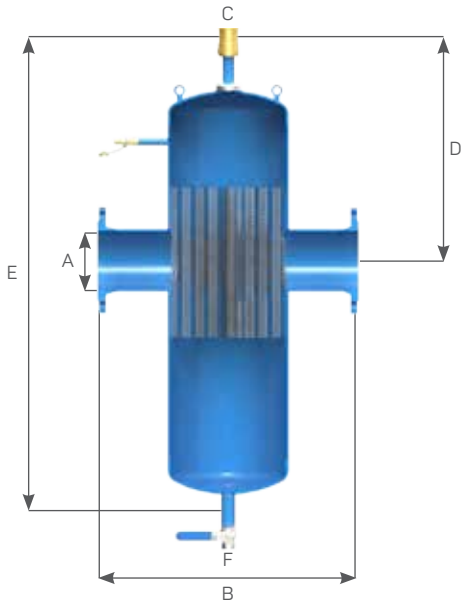


Side Section View

Capacity : 8,5 – 320,0 m^3/sa
Maximum Operating Temperature : 110 °C

Connection Flange / Pressure Class : DN 50 – DN 300 / PN16 (EN1092-1) (Please contact us for products larger than specified in this catalogue)

Filter Material : Stainless Steel
Exterior Surface Protection Paint : DN 50 – DN 200 Electrostatic Powder Paint
: DN 250 – DN 300 Water Based Paint

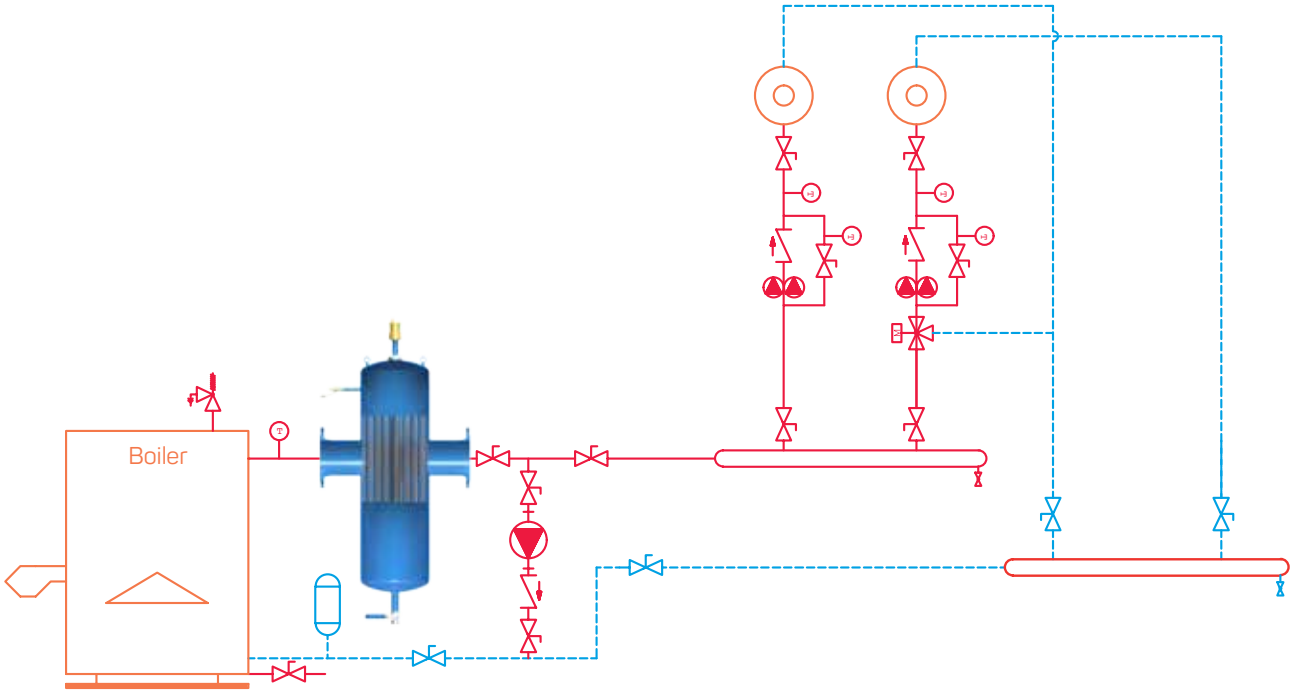


SPECIFICATIONS / USAGE AREAS

KPH series product provide air and dirt separation together in one unit. Due to the dual function it is cost and installation space efficient.

- If there are some limitations to install air and dirt separator separately the KPH series will be the ideal solution.
- The efficient and continuous separation of air and impurities circulating in the heating system considerably increases the efficiency and service life of the whole system.
- Percentage of glycol in the heating system is maximum 50%

Installation Diagram



Installation diagram given above is just a template. Installation must be done according to update standards and directives.

KPH-F Flanged Deaerator-Dirt Separator

TYPE	A (DN)	Body Diameter (Ø)	B (mm)	C (inch)	D (mm)	E (mm)	F (inch)	Weight (kg)	Flow (m3/h)
KPH-F 50	DN 50	168	350	1/2"	374	775	1 1/4"	18	8,50
KPH-F 65	DN 65	168	350	1/2"	374	775	1 1/4"	19	14,50
KPH-F 80	DN 80	219	466	1/2"	436	912	1 1/4"	33	22,00
KPH-F 100	DN 100	219	470	1/2"	436	912	1 1/4"	35	34,00
KPH-F 125	DN 125	323	635	1/2"	541	1245	1 1/4"	82	59,00
KPH-F 150	DN 150	323	635	1/2"	541	1245	1 1/4"	85	86,00
KPH-F 200	DN 200	400	774	1/2"	815	1915	2"	209	140,00
KPH-F 250	DN 250	450	860	1/2"	900	2125	2"	343	222,00
KPH-F 300	DN 300	500	926	1/2"	980	2315	2"	512	320,00

KPH-F Welded Deaerator-Dirt Separator

TYPE	A (inch)	Body Diameter (Ø)	B (mm)	C (inch)	D (mm)	E (mm)	F (inch)	Weight (kg)	Flow (m3/h)
KPH-K 50	2"	168	260	1/2"	374	775	1 1/4"	14	8,50
KPH-K 65	2 1/2"	168	260	1/2"	374	775	1 1/4"	15	14,50
KPH-K 80	3"	219	366	1/2"	436	912	1 1/4"	25	22,00
KPH-K 100	4"	219	366	1/2"	436	912	1 1/4"	35	34,00
KPH-K 125	5"	323	525	1/2"	541	1245	1 1/4"	73	59,00
KPH-K 150	6"	323	525	1/2"	541	1245	1 1/4"	75	86,00
KPH-K 200	8"	400	650	1/2"	815	1915	2"	186	140,00
KPH-K 250	10"	450	720	1/2"	900	2125	2"	310	222,00
KPH-K 300	12"	500	770	1/2"	980	2315	2"	465	320,00

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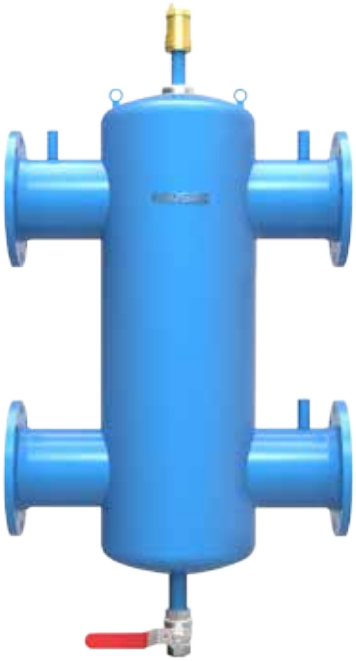
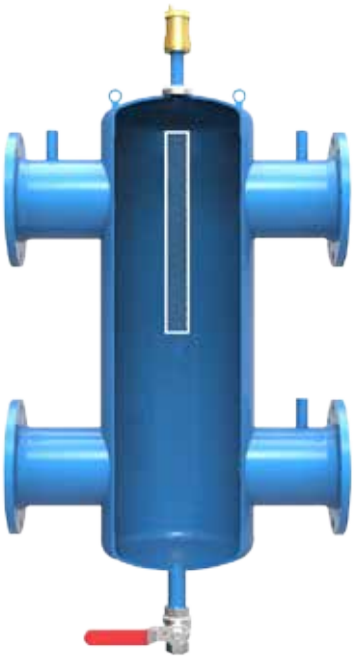
25 KDT HYDRAULIC SEPARATOR

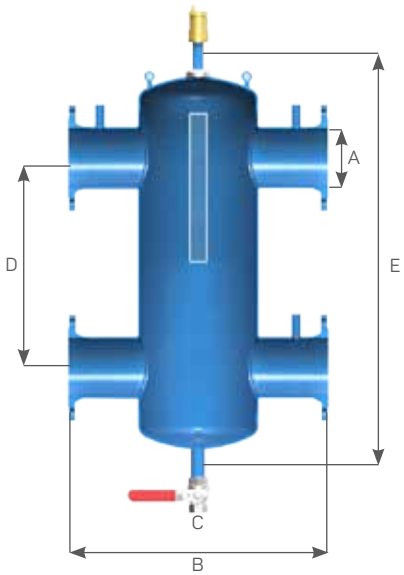


Outer Appearance



Side Section View

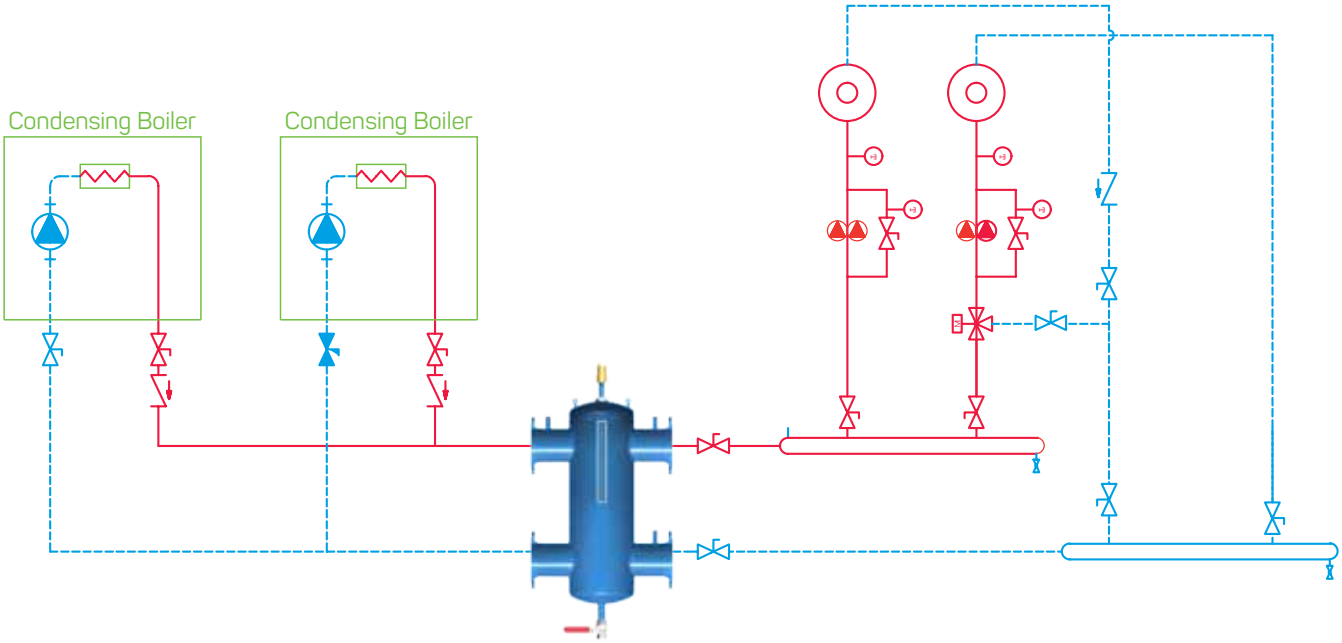
Capacity	: 9.0 – 420.0 m³/sa
Maximum Operating Temperature	: 110 °C
Connection Flange / Pressure Class	: DN 50 – DN 300 / PN16 (EN1092-1) (Please contact us for products larger than specified in this catalogue)
Filter Material	: Perforated Turbulator
Exterior Surface Protection Paint	: DN 50 – DN 200 Electrostatic Powder Paint : DN 250 – DN 300 Water based Paint



SPECIFICATIONS / USAGE AREAS

- In systems where primary and secondary hydraulic circuits should be separated hydraulically from each other.
- In systems where more than one energy sources (cascade system) are used
- In systems where several pumps and heating circuits are present
- In systems where pressure balancing is needed
- In systems where energy supply and/or energy demand are not constant
- Percentage of glycol in the heating system is maximum 50%

Installation Diagram



Installation diagram given above is just a template. Installation must be done according to update standards and directives.

KDT-F Flanged Hydraulic Separator

TYPE	A (DN)	Body Diameter (Ø)	B (mm)	C (inch)	D (mm)	E (mm)	Weight (kg)	Flow (m3/h)
KDT-F 50	DN 50	168	460	1"	330	1069	34,5	9,00
KDT-F 65	DN 65	168	460	1"	330	1069	39	18,00
KDT-F 80	DN 80	219	526	1 1/4"	450	1280	51	28,00
KDT-F 100	DN 100	219	529	1 1/4"	450	1280	55	56,00
KDT-F 125	DN 125	323	670	1 1/2"	560	1433	104	75,00
KDT-F 150	DN 150	323	670	1 1/2"	560	1433	108	110,00
KDT-F 200	DN 200	400	774	2"	1400	2500	255	180,00
KDT-F 250	DN 250	550	920	2"	1750	3100	410	300,00
KDT-F 300	DN 300	600	990	2"	2100	3640	600	420,00

KDT-K Welded Hydraulic Separator

TYPE	A (inch)	Body Diameter (Ø)	B (mm)	C (inch)	D (mm)	E (mm)	Weight (kg)	Flow (m3/h)
KDT-K 50	2"	168	370	1"	330	1069	24	9,00
KDT-K 65	2 1/2"	168	370	1"	330	1069	27	18,00
KDT-K 80	3"	219	426	1 1/4"	450	1280	35	28,00
KDT-K 100	4"	219	426	1 1/4"	450	1280	37	56,00
KDT-K 125	5"	323	560	1 1/2"	560	1433	79	75,00
KDT-K 150	6"	323	560	1 1/2"	560	1433	80	110,00
KDT-K 200	8"	400	650	2"	1400	2500	186	180,00
KDT-K 250	10"	550	780	2"	1750	3100	310	300,00
KDT-K 300	12"	600	835	2"	2100	3640	468	420,00

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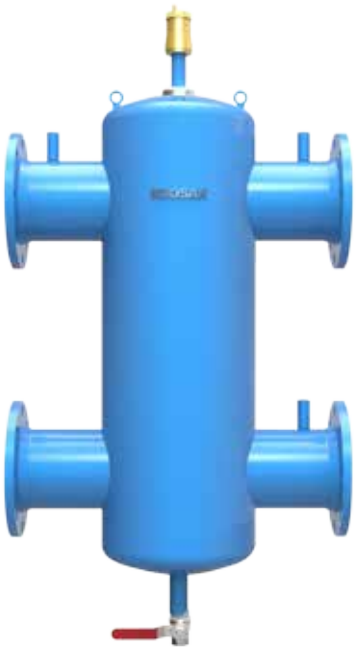
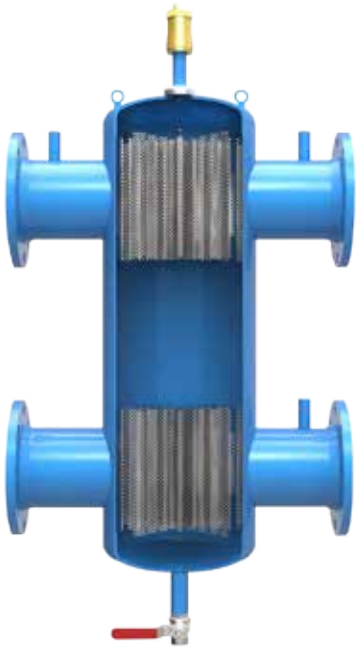
26 KPD MULTIFUNCTION HYDRAULIC SEPARATOR

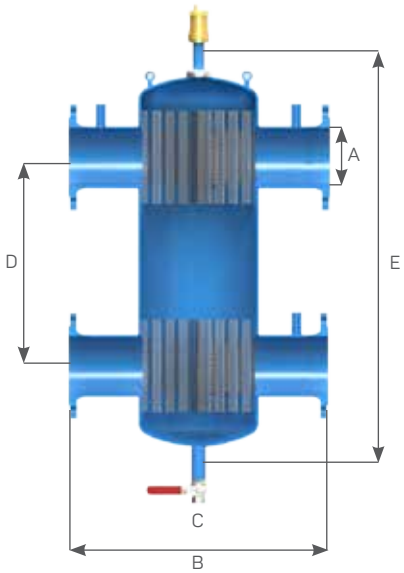


Outer Appearance



Side Section View

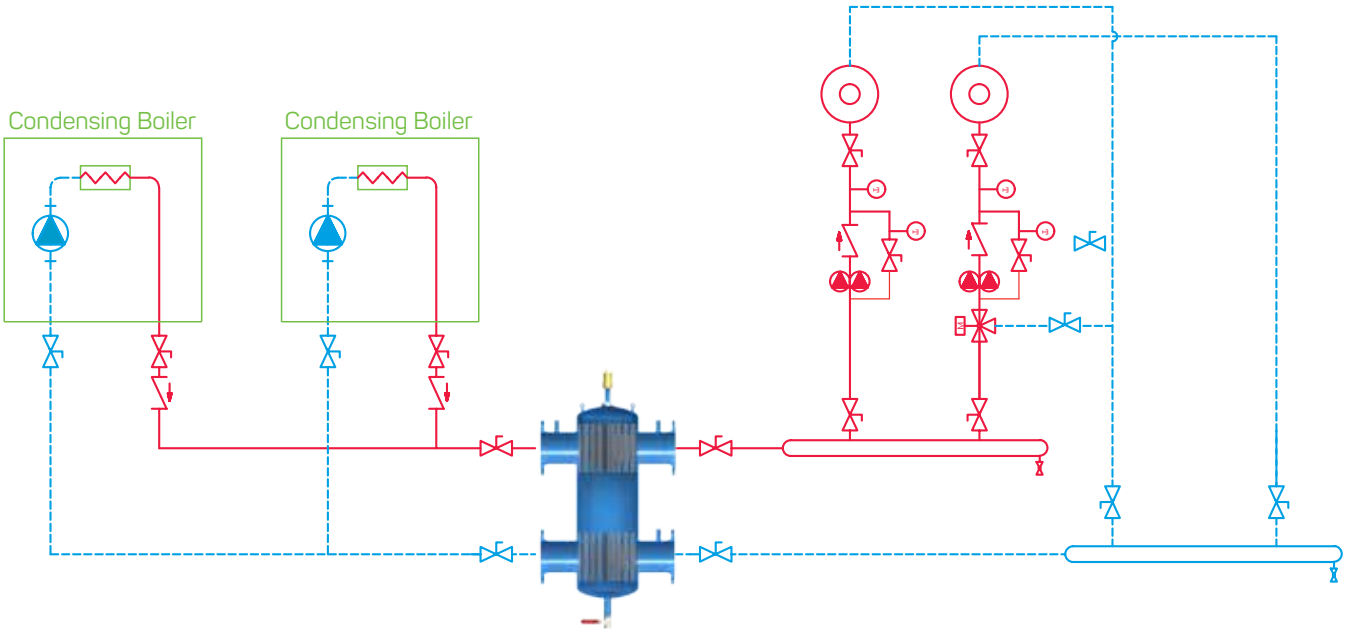
Capacity	: 9.0 – 420.0 m³/sa
Maximum Operating Temperature	: 110 °C
Connection Flange / Pressure Class	: DN 50 – DN 300 / PN16 (EN1092-1) (Please contact us for products larger than specified in this catalogue)
Filter Material	: Stainless Steel - Perforated Turbulator
Exterior Surface Protection Paint	: DN 50 – DN 200 Electrostatic Powder Paint : DN 250 – DN 300 Water based Paint



SPECIFICATIONS / USAGE AREAS

- Automatic air releasing and impurity separation can be performed additionally to hydraulic separation functions
- KPD multifunction hydraulic separators perform triple functions. Air, dirt and hydraulic separation together in one unit which is highly cost and space effective.
- Usage of a multifunction hydraulic separator solves hydraulic imbalance problems.
- KPD units prevent overloading of boilers or pumps.
- Automation systems will control the heating circuit more effective
- Percentage of glycol in the heating system is maximum 50%

Installation Diagram



Installation diagram given above is just a template. Installation must be done according to update standards and directives.

KPD-F Flanged Multifunction Hydraulic Separator

TYPE	A (DN)	Body Diameter (Ø)	B (mm)	C (inch)	D (mm)	E (mm)	Weight (kg)	Flow (m3/h)
KPD-F 50	DN 50	168	460	1"	330	1069	34,5	9,00
KPD-F 65	DN 65	168	460	1"	330	1069	39	18,00
KPD-F 80	DN 80	219	526	1 1/4"	450	1280	51	28,00
KPD-F 100	DN 100	219	529	1 1/4"	450	1280	55	56,00
KPD-F 125	DN 125	323	670	1 1/2"	560	1433	104	75,00
KPD-F 150	DN 150	323	670	1 1/2"	560	1433	108	110,00
KPD-F 200	DN 200	400	755	2"	1400	2500	220	180,00
KPD-F 250	DN 250	550	920	2"	1750	3100	365	300,00
KPD-F 300	DN 300	600	990	2"	2100	3640	470	420,00

KPD-K Welded Multifunction Hydraulic Separator

TYPE"	A (inch)	Body Diameter (Ø)	B (mm)	C (inch)	D (mm)	E (mm)	Weight (kg)	Flow (m3/h)
KPD-K 50	2"	168	370	1"	330	1069	30	9,00
KPD-K 65	2 1/2"	168	370	1"	330	1069	33	18,00
KPD-K 80	3"	219	426	1 1/4"	450	1280	42	28,00
KPD-K 100	4"	219	426	1 1/4"	450	1280	46	56,00
KPD-K 125	5"	323	560	1 1/2"	560	1433	92	75,00
KPD-K 150	6"	323	560	1 1/2"	560	1433	94	110,00
KPD-K 200	8"	400	650	2"	1400	2500	197	180,00
KPD-K 250	10"	550	780	2"	1750	3100	330	300,00
KPD-K 300	12"	600	835	2"	2100	3640	425	420,00

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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.
- Kodsan reserves the right to change technical information without notice for the purpose of improvement of quality and supplying products with better quality.
- Information and schemes given may not be copied and used without permission from Kodsan. If used, Kodsan does not take responsibility.
- Safety valve, expansion tank and, if required, pressure reducer valve should be used with our products (water heaters and storage tanks).
- For double serpentine products the bottom serpentine should be used for the solar energy system and its capacity can change according geographic location. If the bottom serpentine is used with other heat sources then you can take as reference the values of single serpentine water heaters for capacities bigger than 500 lt.
- You may contact KODSAN for more details about your product.

Icons

Two-Way Motorized Valve	Pressure Relief Valve	Check Valve	Twin-head pump	Radiator Heating System
Three-Way Modulating Motorized Valve	Pressure Gauge	Safety Thermostat	Ball Valve	Thermometer
Scald Protection Three-Way Valve	Drain Valve	Solar Panel	Membrane Expansion Tank	Dirt Separator
Three-Way Motorized Valve	Buffer Tank	Air Separator	Strainer	Ball Valve
Pressure Release Valve	Bypass Valve	Air Vent	Pump	Underfloor Heating

Notes

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