

SOLAREKS

Solar Water Heating Systems

Product Catalog

SOLAREKS

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75 lt CLOSED LOOP SYSTEM



75 lt SYSTEM TECHNICAL SPECIFICATIONS

Capacity: For families of two people

Collector		Boiler	
Quantity	1	System	Closed Loop
Dimensions	1930 x 930 x 100 mm	Dimensions	1000 x Ø 540 mm
Weight	33.5 kg	Weight	49 kg
Absorber Plate	Copper & Aluminium	Working Pressure	6 bar
Glazing	Solar & Normal Glass	Test Pressure	12 bar
Insulation	Polyurethane & Glasswool	Insulation	Glasswool
Sealant	EPDM	Covering	Stainless & Galvanized Steel
Case	Aluminium	Electrical Heater	2000 W
Moisture Control System	✓	Corrosion Protection	Cathodic Protection & Zinc Coated
Connection	3/4 "		

Geographic and Climatic Limitations: Mostly used in cold geographic areas where there is a risk of freezing and the places where the mains water has a high percentage of lime.

100 lt CLOSED LOOP SYSTEM



100 lt SYSTEM TECHNICAL SPECIFICATIONS

Capacity: For families of two - three people

Collector		Boiler	
Quantity	1	System	Closed Loop
Dimensions	1900 x 1200 x 100 mm	Dimensions	1200 x Ø 540 mm
Weight	42 kg	Weight	60 kg
Absorber Plate	Copper & Aluminium	Working Pressure	6 bar
Glazing	Solar & Normal Glass	Test Pressure	12 bar
Insulation	Polyurethane & Glasswool	Insulation	Glasswool
Sealant	EPDM	Covering	Stainless & Galvanized Steel
Case	Aluminium	Electrical Heater	2000 W
Moisture Control System	✓	Corrosion Protection	Cathodic Protection & Zinc Coated
Connection	3/4 "		

Geographic and Climatic Limitations: Mostly used in cold geographic areas where there is a risk of freezing and the places where the mains water has a high percentage of lime.

150 lt CLOSED LOOP SYSTEM



150 lt SYSTEM TECHNICAL SPECIFICATIONS

Capacity: For families of four - five people

Collector		Boiler	
Quantity	2	System	Closed Loop
Dimensions	1930 x 930 x 100 mm	Dimensions	1770 x Ø 540 mm
Weight	33.5 kg	Weight	90 kg
Absorber Plate	Copper & Aluminium	Working Pressure	6 bar
Glazing	Solar & Normal Glass	Test Pressure	12 bar
Insulation	Polyurethane & Glasswool	Insulation	Glasswool
Sealant	EPDM	Covering	Stainless & Galvanized Steel
Case	Aluminium	Electrical Heater	2000 W
Moisture Control System	✓	Corrosion Protection	Cathodic Protection & Zinc Coated
Connection	3/4 "		

Geographic and Climatic Limitations: Mostly used in cold geographic areas where there is a risk of freezing and the places where the mains water has a high percentage of lime.

180 lt CLOSED LOOP SYSTEM



180 lt SYSTEM TECHNICAL SPECIFICATIONS

Capacity: For families of five - six people

Collector		Boiler	
Quantity	2	System	Closed Loop
Dimensions	1900 x 1200 x 100 mm	Dimensions	1660 x Ø 590 mm
Weight	42 kg	Weight	90 kg
Absorber Plate	Copper & Aluminium	Working Pressure	6 bar
Glazing	Solar & Normal Glass	Test Pressure	12 bar
Insulation	Polyurethane & Glasswool	Insulation	Glasswool
Sealant	EPDM	Covering	Stainless & Galvanized Steel
Case	Aluminium	Electrical Heater	2000 W
Moisture Control System	✓	Corrosion Protection	Cathodic Protection & Zinc Coated
Connection	3/4 "		

Geographic and Climatic Limitations: Mostly used in cold geographic areas where there is a risk of freezing and the places where the mains water has a high percentage of lime.

240 lt CLOSED LOOP SYSTEM



240 lt SYSTEM TECHNICAL SPECIFICATIONS

Capacity: For families of six - seven people

Collector		Boiler	
Quantity	3	System	Closed Loop
Dimensions	1930 x 930 x 100 mm	Dimensions	1760 x Ø 630 mm
Weight	33.5 kg	Weight	113 kg
Absorber Plate	Copper & Aluminium	Working Pressure	6 bar
Glazing	Solar & Normal Glass	Test Pressure	12 bar
Insulation	Polyurethane & Glasswool	Insulation	Glasswool
Sealant	EPDM	Covering	Stainless & Galvanized Steel
Case	Aluminium	Electrical Heater	2000 W
Moisture Control System	✓	Corrosion Protection	Cathodic Protection & Zinc Coated
Connection	3/4 "		

Geographic and Climatic Limitations: Mostly used in cold geographic areas where there is a risk of freezing and the places where the mains water has a high percentage of lime.

300 lt CLOSED LOOP SYSTEM



300 lt SYSTEM TECHNICAL SPECIFICATIONS

Capacity: For Commercial Use

Collector		Boiler	
Quantity	3	System	Closed Loop
Dimensions	1900 x 1200 x 100 mm	Dimensions	2060 x Ø 630 mm
Weight	42 kg	Weight	127 kg
Absorber Plate	Copper & Aluminium	Working Pressure	6 bar
Glazing	Solar & Normal Glass	Test Pressure	12 bar
Insulation	Polyurethane & Glasswool	Insulation	Glasswool
Sealant	EPDM	Covering	Stainless & Galvanized Steel
Case	Aluminium	Electrical Heater	2000 W
Moisture Control System	✓	Corrosion Protection	Cathodic Protection & Zinc Coated
Connection	3/4 "		

Geographic and Climatic Limitations: Mostly used in cold geographic areas where there is a risk of freezing and the places where the mains water has a high percentage of lime.

100 lt OPEN LOOP SYSTEM



100 lt SYSTEM TECHNICAL SPECIFICATIONS

Capacity: For families of two - three people

Collector		Boiler	
Quantity	1	System	Open Loop
Dimensions	1900 x 1200 x 100 mm	Dimensions	1000 x Ø 500 mm
Weight	42 kg	Weight	43 kg
Absorber Plate	Copper	Working Pressure	6 bar
Glazing	Solar & Normal Glass	Test Pressure	12 bar
Insulation	Polyurethane & Glasswool	Insulation	Glasswool
Sealant	EPDM	Covering	Stainless & Galvanized Steel
Case	Aluminium	Electrical Heater	2000 W
Moisture Control System	✓	Corrosion Protection	Cathodic Protection & Zinc Coated
Connection	3/4 "		

Geographic and Climatic Limitations: Mostly used in warm geographic areas where there is no risk of freezing and the places where the mains water has no lime.

150 lt OPEN LOOP SYSTEM



150 lt SYSTEM TECHNICAL SPECIFICATIONS

Capacity: For families of four - five people

Collector		Boiler	
Quantity	2	System	Open Loop
Dimensions	1930 x 930 x 100 mm	Dimensions	1770 x Ø 500 mm
Weight	33.5 kg	Weight	63 kg
Absorber Plate	Copper	Working Pressure	6 bar
Glazing	Solar & Normal Glass	Test Pressure	12 bar
Insulation	Polyurethane & Glasswool	Insulation	Glasswool
Sealant	EPDM	Covering	Stainless & Galvanized Steel
Case	Aluminium	Electrical Heater	2000 W
Moisture Control System	✓	Corrosion Protection	Cathodic Protection & Zinc Coated
Connection	3/4 "		

Geographic and Climatic Limitations: Mostly used in warm geographic areas where there is no risk of freezing and the places where the mains water has no lime.

180 lt OPEN LOOP SYSTEM

180 lt SYSTEM TECHNICAL SPECIFICATIONS

Capacity: For families of five - six people

Collector		Boiler	
Quantity	2	System	Open Loop
Dimensions	1900 x 1200 x 100 mm	Dimensions	1660 x Ø 540 mm
Weight	42 kg	Weight	64 kg
Absorber Plate	Copper	Working Pressure	6 bar
Glazing	Solar & Normal Glass	Test Pressure	12 bar
Insulation	Polyurethane & Glasswool	Insulation	Glasswool
Sealant	EPDM	Covering	Stainless & Galvanized Steel
Case	Aluminium	Electrical Heater	2000 W
Moisture Control System	✓	Corrosion Protection	Cathodic Protection & Zinc Coated
Connection	3/4 "		

Geographic and Climatic Limitations: Mostly used in warm geographic areas where there is no risk of freezing and the places where the mains water has no lime.

240 lt OPEN LOOP SYSTEM

240 lt SYSTEM TECHNICAL SPECIFICATIONS

Capacity: For families of six - seven people

Collector		Boiler	
Quantity	3	System	Open Loop
Dimensions	1930 x 930 x 100 mm	Dimensions	1760 x Ø 590 mm
Weight	33.5 kg	Weight	81 kg
Absorber Plate	Copper	Working Pressure	6 bar
Glazing	Solar & Normal Glass	Test Pressure	12 bar
Insulation	Polyurethane & Glasswool	Insulation	Glasswool
Sealant	EPDM	Covering	Stainless & Galvanized Steel
Case	Aluminium	Electrical Heater	2000 W
Moisture Control System	✓	Corrosion Protection	Cathodic Protection & Zinc Coated
Connection	3/4 "		

Geographic and Climatic Limitations: Mostly used in warm geographic areas where there is no risk of freezing and the places where the mains water has no lime.

300 lt OPEN LOOP SYSTEM



300 lt SYSTEM TECHNICAL SPECIFICATIONS

Usage: Commercial

Collector		Boiler	
Quantity	3	System	Open Loop
Dimensions	1900 x 1200 x 100 mm	Dimensions	2060 x Ø 590 mm
Weight	42 kg	Weight	93 kg
Absorber Plate	Copper	Working Pressure	6 bar
Glazing	Solar & Normal Glass	Test Pressure	12 bar
Insulation	Polyurethane & Glasswool	Insulation	Glasswool
Sealant	EPDM	Covering	Stainless & Galvanized Steel
Case	Aluminium	Electrical Heater	2000 W
Moisture Control System	✓	Corrosion Protection	Cathodic Protection & Zinc Coated
Connection	3/4 "		

Geographic and Climatic Limitations: Mostly used in warm geographic areas where there is no risk of freezing and the places where the mains water has no lime.

600 lt OPEN LOOP SYSTEM

600 lt SYSTEM TECHNICAL SPECIFICATIONS

Usage: Commercial

Collector		Boiler	
Quantity	6	System	Open Loop
Dimensions	1930 x 930 x 100 mm	Dimensions	2160 x Ø 780 mm
Weight	33.5 kg	Weight	135 kg
Absorber Plate	Copper	Working Pressure	6 bar
Glazing	Solar & Normal Glass	Test Pressure	12 bar
Insulation	Polyurethane & Glasswool	Insulation	Glasswool
Sealant	EPDM	Covering	Stainless & Galvanized Steel
Case	Aluminium	Electrical Heater	2000 W
Moisture Control System	✓	Corrosion Protection	Cathodic Protection & Zinc Coated
Connection	3/4 "		

Geographic and Climatic Limitations: Mostly used in warm geographic areas where there is no risk of freezing and the places where the mains water has no lime.



System	Selective Collector	Matt-Black Collector	Using Capacity
180 lt	2 x 233 S (2x 2.3 m ²)	2 x 233 Series Coll. (2 x 2.3 m ²)	Residential / 5 – 6 Person
240 lt	3 x 188 S (3 x 1.79 m ²)	3 x 188 Series Coll. (3 x 1.79 m ²)	Residential / 6 – 7 Person
300 lt	3 x 233 S (3 x 2.3 m ²)	3 x 233 Series Coll. (3 x 2.3 m ²)	Residential / 7 – 8 Person
350 lt	4 x 233 S (4 x 2.3 m ²)	4 x 233 Series Coll. (4 x 2.3 m ²)	Residential / 8 – 9 Kişı
500 lt	5 x 233 S (5 x 2.3 m ²)	5 x 233 Series Coll. (5 x 2.3 m ²)	Commercial
600 lt	6 x 233 S (6 x 2.3 m ²)	6 x 233 Series Coll. (6 x 2.3 m ²)	Commercial
1000 lt	10 x 233 S (10 x 2.3 m ²)	10 x 233 Series Coll. (10 x 2.3 m ²)	Commercial

1. Non Pressurized Closed Loop System



System	Water Capacity	Collector	Using capacity
150 lt	150 lt Hot water – 31 lt Cold water	2 x 188 Series Coll.(2 x 1.79 m ²)	4-5 Person
200 lt	205 lt Hot water – 40 lt Cold water	3 x 188 Series Coll. (3 x 1.79 m ²)	6-7 Person

2 . Non Pressurized Open Loop System



System	Water Capacity	Collector	Using capacity
150 lt	150 lt Hot water – 31 lt Cold water	2 x 188 Series Coll.(2 x 1.79 m ²)	4-5 Person
200 lt	205 lt Hot water – 40 lt Cold water	3 x 188 Series Coll. (3 x 1.79 m ²)	6-7 Person

188 SERIES COLLECTOR



188 SERIES COLLECTOR SPECIFICATIONS

		Absorber	
Dimensions	1930 x 930 x 100 mm	Material	Aluminium / Copper
Gross area	1.8 m ²	Absorber area	1.60 m ²
Heat transfer liquid volume	3.5 lt	Absorber surface	Matt black painted
Connections	¾"	Absorptivity of Solar Radiation	% 94 - 98
Weight	33.5 kg	Emissivity of Infrared Radiation	% 85
		Heat conductivity	204 / 360 W/mK
Glazing System		Fin Efficiency	% 85...91
Chemical composition	Normal or Low Ironed Tempered	Operating temperature range	-
Shape of Surface	Smooth	Working Pressure	8 bar
Thickness	4 mm	Test Pressure	14 bar
Total Spectral Transmittance	% 86 / 91		
Fire Behavior	Does not get fired		
		Insulation	
Sealant		Material	Polyurethane or Glasswool
Material	EPDM	Density	18 / 40 kg/m ³
Operating temperature range	-40...100 °C	Back insulation thickness	50 / 30 mm
		Side insulation thickness	20 / 20 mm
Case		Heat conductivity	0.040 / 0.023 W/mK (25 °C) + 105 / 250 °C
Material	Aluminium, AlMgSi0.5	Specific heat coefficient	-
Density	2.7 g/cm ³	Fire Behavior (polyurethane)	Does not leak when exposed to fire
Coating	Anodizing or electrostatic paint		
Moisture control system	✓		

233 SERIES COLLECTOR



233 SERIES COLLECTOR SPECIFICATIONS

		Absorber	
Dimensions	1900 x 1200 x 100 mm	Material	Aluminium / Copper
Gross area	2.31 m ²	Absorber area	2.0 m ²
Heat transfer liquid volume	1.8 lt	Absorber surface	Matt black painted
Connections	3/4"	Absorptivity of Solar Radiation	% 94 - 98
Weight	42 kg	Emissivity of Infrared Radiation	% 85
		Heat conductivity	204 / 360 W/mK
Glazing System		Fin Efficiency	% 85...91
Chemical composition	Normal or Low Ironed Tempered	Operating temperature range	-
Shape of Surface	Smooth	Working Pressure	8 bar
Thickness	4 mm	Test Pressure	14 bar
Total Spectral Transmittance	% 86 / 91		
Fire Behavior	Does not get fired		
		Insulation	
Sealant		Material	Polyurethane or Glasswool
Material	EPDM	Density	18 / 40 kg/m ³
Operating temperature range	-40...100 °C	Back insulation thickness	50 / 30 mm
		Side insulation thickness	20 / 20 mm
Case		Heat conductivity	0.040 / 0.023 W/mK (25 °C)
Material	Aluminium, AlMgSi0.5		+ 105 / 250 °C
Density	2.7 g/cm ³	Specific heat coefficient	-
Coating	Anodizing or electrostatic paint	Fire Behavior (polyurethane)	Does not leak when exposed to fire
Moisture control system	✓		

S SERIES COLLECTOR



S SERIES COLLECTOR SPECIFICATIONS

		Absorber	
Dimensions	1900 x 1200 x 100 mm	Material	Selective Coated Copper
Gross area	2.31 m ²	Absorber area	2.0 m ²
Heat transfer liquid volume	1.8 lt	Absorber surface	Selective Coated
Connections	3/4"	Absorptivity of Solar Radiation	% 94 - 98
Weight	42 kg	Emissivity of Infrared Radiation	% 5 -12
		Heat conductivity	360 W/mK
Glazing System		Fin Efficiency	% 85...91
Chemical composition	Low Ironed Tempered	Operating temperature range	-
Shape of Surface	Smooth	Working Pressure	8 bar
Thickness	4 mm	Test Pressure	14 bar
Total Spectral Transmittance	% 91		
Fire Behavior	Does not get fired	Insulation	
		Material	Polyurethane or Glasswool
Sealant		Density	18 / 40 kg/m ³
Material	EPDM	Back insulation thickness	50 / 30 mm
Operating temperature range	-40...100 °C	Side insulation thickness	20 / 20 mm
		Heat conductivity	0.040 / 0.023 W/mK (25 °C)
Case			+ 105 / 250 °C
Material	Aluminium,AlMgSi0.5	Specific heat coefficient	-
Density	2.7 g/cm ³	Fire Behavior (polyurethane)	Does not leak when exposed to fire
Coating	Anodizing or electrostatic paint		
Moisture control system	✓		

PRESSURIZED CLOSED LOOP BOILER



BC Series Boiler Technical Specifications

Capacity	75 lt	100 lt	150 lt	180 lt	240 lt	300 lt
User Number	1-2 person	2-3 person	3-4 person	4-5 person	6-7 person	Commercial
Dimensions	Ø 540x1000mm	Ø 540x1200mm	Ø 540x10mm	Ø 540x1770mm	Ø 590x1660mm	Ø 590x2060mm
Material	A1 quality Steel	A1 quality Steel	A1 quality Steel	A1 quality Steel	A1 quality Steel	A1 quality Steel
Working Pressure	6 bar	6 bar	6 bar	6 bar	6 bar	6 bar
Test Pressure	12 bar	12 bar	12 bar	12 bar	12 bar	12 bar
Insulation						
Material	Glasswool	Glasswool	Glasswool	Glasswool	Glasswool	Glasswool
Round Insulation thickness	80 mm	80 mm	80 mm	80 mm	80 mm	80 mm
Side Insulation thickness	80 mm	80 mm	80 mm	80 mm	80 mm	80 mm
Density	18 kg/m ³	18 kg/m ³	18 kg/m ³	18 kg/m ³	18 kg/m ³	18 kg/m ³
Heat Conductivity (25°)	0.040 W/mK	0.040 W/mK	0.040 W/mK	0.040 W/mK	0.040 W/mK	0.040 W/mK
Operating Temperature Range	-200....+ 250 °C	-200....+ 250 °C	-200....+250 °C	-200....+ 250 °C	-200....+ 250 °C	-200....+ 250 °C
Sealant	Al-Galvanized or Stainless Steel	Al-Galvanized or Stainless Steel	Al-Galvanized or Stainless Steel	Al-Galvanized or Stainless Steel	Al-Galvanized or Stainless Steel	Al-Galvanized or Stainless Steel
Corrosion Protection						
Deep Galvanized	Thickness: 80–100µ	Thickness: 80–100µ	Thickness: 80–100µ	Thickness: 80–100µ	Thickness: 80–100µ	Thickness: 80–100µ
Cathodic Protection	Magnesium Anod	Magnesium Anod	Magnesium Anod	Magnesium Anod	Magnesium Anod	Magnesium Anod
Tank Accesories						
Electrical Heater	2000 W	2000 W	2000 W	2000 W	2000 W	2000 W
Pressure Regulator	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable
Safety Valve	6 bar	6 bar	6 bar	6 bar	6 bar	6 bar

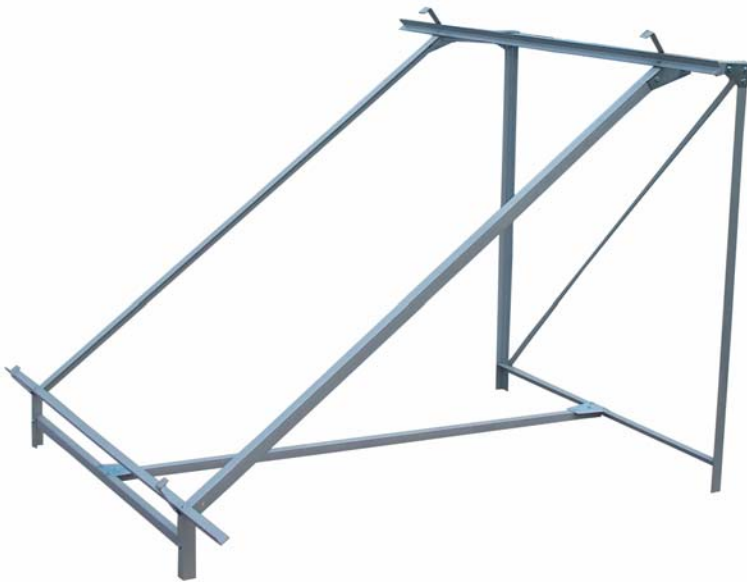
PRESSURIZED OPEN LOOP BOILER



BC Series Tank Technical Specifications

Capacity	75 lt	100 lt	150 lt	180 lt	240 lt	300 lt	600 lt
User Number	1-2 person	2-3 person	3-4 person	4-5 person	6-7 person	Commercial	Commercial
Tank Type	Pressurized Open Loop	Pressurized Open Loop	Pressurized Open Loop	Pressurized Open Loop	Pressurized Open Loop	Pressurized Open Loop	Pressurized Open Loop
Dimensions	Ø 500x1000mm	Ø 500x1200mm	Ø 500x1770mm	Ø 540x1660mm	Ø 590x1760mm	Ø 590x2060mm	Ø780x2160mm
Material	A1 quality Steel	A1 quality Steel	A1 quality Steel	A1 quality Steel	A1 quality Steel	A1 quality Steel	A1 quality Steel
Working Pressure	6 bar	6 bar	6 bar	6 bar	6 bar	6 bar	6 bar
Test Pressure	12 bar	12 bar	12 bar	12 bar	12 bar	12 bar	12 bar
Insulation							
Material	Glasswool	Glasswool	Glasswool	Glasswool	Glasswool	Glasswool	Glasswool
Round Insulation thickness	80 mm	80 mm	80 mm	80 mm	80 mm	80 mm	80 mm
Side Insulation thickness	80 mm	80 mm	80 mm	80 mm	80 mm	80 mm	80 mm
Density	18 kg/m ³	18 kg/m ³	18 kg/m ³	18 kg/m ³	18 kg/m ³	18 kg/m ³	18 kg/m ³
Heat Conductivity (25°)	0.040 W/mK	0.040 W/mK	0.040 W/mK	0.040 W/mK	0.040 W/mK	0.040 W/mK	0.040 W/mK
Specific Heat	-	-	-	-	-	-	-
Operating Temperature Range	-200....+ 105 °C	-200....+ 105 °C	-200....+ 105 °C	-200....+ 105 °C	-200....+ 105 °C	-200....+ 105 °C	-200....+ 105 °C
Fire Behaviour	DIN 4102	DIN 4102	DIN 4102	DIN 4102	DIN 4102	DIN 4102	DIN 4102
Sealant	Al-Galvanized or Stainless Steel	Al-Galvanized or Stainless Steel	Al-Galvanized or Stainless Steel	Al-Galvanized or Stainless Steel	Al-Galvanized or Stainless Steel	Al-Galvanized or Stainless Steel	Al-Galvanized or Stainless Steel
Corrosion Protection							
Deep Galvanized	Thickness: 80–100µ	Thickness: 80–100µ	Thickness: 80–100µ	Thickness: 80–100µ	Thickness: 80–100µ	Thickness: 80–100µ	Thickness: 80–100µ
Cathodic Protection	Magnesium Anod	Magnesium Anod	Magnesium Anod	Magnesium Anod	Magnesium Anod	Magnesium Anod	Magnesium Anod
Tank Accesories							
Electrical Heater	2000 W	2000 W	2000 W	2000 W	2000 W	2000 W	-
Pressure Regulator	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable
Safety Valve	6 bar	6 bar	6 bar	6 bar	6 bar	6 bar	6 bar

MOUNTING FRAME



Specifications;

- ✓ Unmountable Steel Construction
- ✓ Suitable for Terrace and Angled Roof
- ✓ Deep Galvanized Coated
- ✓ The Frame is Supported with Special Support Elements

SYSTEM EQUIPMENTS



Pressure Regulator



Safety Valve



Closed Expansion Tank



Thermostat Heater

Fittings;



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