oekoboiler°



Product catalogue



CONTENTS

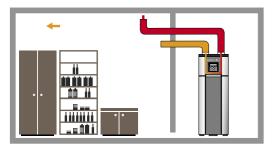
INSTALLATION	Examples of installation options	04
GOOD TO KNOW	What sets the Oekoboiler apart?	05
USING THE OEKOBOILER	Examples of domestic water heating	06/07
MODEL OVERVIEW	Products matrix	09
RS-OEKOBOILER 02	150 litre	10 / 11
RS-OEKOBOILER 02	300 litre	12/13
RS-OEKOBOILER 03	300 litre	14/15
RS-OEKOBOILER 04	300 litre	16/17
RS-OEKOBOILER 02D	300 litre	18/19
RS-OEKOBOILER 04D	300 litre	20/21
RS-OEKOBOILER 13	300 litre	22/23
RS-OEKOBOILER 14	300 litre	24/25
RS-OEKOBOILER 02	450 litre	26/27
RS-OEKOBOILER 03	450 litre	28/29
RS-OEKOBOILER 04	450 litre	30/31
PIPEWORK OPTIONS	Exhaust air and supply air	32 - 35
WIFI APP	Function	36
PHOTOVOLTAICS	Finding clever uses for your own power	37
CONNECTION DIAGRAM	Overview	38
CONNECTION DIAGRAMS	Circulation line functionality	39
SCOPE OF DELIVERY	Accessories	40
CUSTOMER SERVICE AND SUPPORT	Technical advice/telephone no.	42

- Less space needed thanks to compact dimensions
- Very quiet in operation
- ▶ Dehumidifies basement rooms, protecting their structures



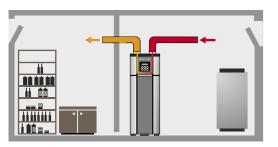
Laundry room

- » Dry and air
- 1. Drying clothes in the laundry room
- 2. Airing the laundry room (hygienic one-pipe system)



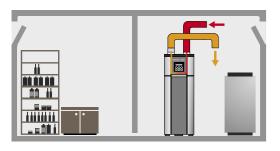
Basement

- » Cool and dry
- 1. Store room or wine cellar cooling (constant temperature)
- 2. Circulation and dispersion of humid air



Boiler room

- » Cool and dry
- 1. Store room or wine cellar cooling (constant temperature)
- 2. Removal, transfer and ventilation of the warm utility room air



Utility room

- » Utilising lost heat
- 1. Ventilation of the warm utility room through additionally generated circulating air and by drawing in fresh air
- 2. Water heating using lost heat from PV inverter, battery inverter, server and boiler room air

Room area and room volumes

The room area required is between 2 and 4 m^2 . The room volumes required can be expanded by adapting the pipework so that supply air is sourced from other rooms. The room volume can also be expanded by fitting the utility room door with an air vent. Our technical advisers can provide you with free specialist support to help find a solution that is tailored to your individual needs.

Insulation means reduced heat loss and better heat retention

The thermal conductivity of stainless steel is half that of enamelled steel, making it a good insulating material. Stainless steel boilers are double-walled, which not only increases safety but results in an added insulating effect too. Consequently, the Oekoboiler loses less heat through its casing. This optimises the duration of the warming phase and considerably reduces heat loss. The stainless steel boiler exterior is, of course, coated with yet another layer of insulation (like all boilers).

Stainless steel is environmentally friendly, hygienic and long lasting

Stainless steel can be recycled again and again and reacts neutrally both towards the environment and when in contact with water. It is not possible for any wearing parts to change the composition of the water. Rust is also out of the question thanks to stainless steel's high corrosion resistance. What's more, stainless steel provides sufficient protection against Legionella and reduces the risk of limescale in the tank.

Stainless steel standards and what they mean

- V2A Chromium nickel stainless steel. This type of steel has a high chemical resistance when exposed to water and diluted acids.
- V4A Chromium nickel stainless steel, alloyed with additional 2% molybdenum, can resist corrosion caused by saline liquids. Depending on water quality or whether or not a salt-based water softening system is being used, this alloy can prove to be beneficial.

What sets the Oekoboiler apart?

- ▶ Up to 80% less energy consumption
- ► The only heat pump boiler that can produce a maximum warm water temperature of 70°C during heat pump operation
- High-quality components to ensure safety and high efficiency
- ► The only double-walled stainless steel boiler on the global heat pump boiler market!
- Automatic Legionella control for hygienic water
- Central heating system can be switched off during the summer months
- Quick and easy installation without elaborate initialisation
- Easy to use thanks to the simple control panel, including an already integrated timer
- ► Eligible for grants as it passes all test and energy certificate prerequisites
- ► Tested by the WPZ Heat Pump Test Center, Buchs (St. Gallen) (www.ntb.ch)

4 | oekoboiler@elio.eu | www.elio.eu

Domestic water heating is an aspect of household energy consumption that should not be underestimated. As a result, it represents an area with great potential for reducing costs and CO₂ emissions – and with relatively little effort.

Using the following examples, we want to show you the potential waiting to be discovered in the approaches described. The numbers make it clear that large investments are not always needed to make a difference. As well as this, there are also side effects that emerge and that prove to have an added impact in terms of cost and energy savings.

Example of use:

> Replacing an old electric boiler with an Oekoboiler

REPLACING AN OLD ELECTRIC BOILER WITH A MODERN OEKOBOILER

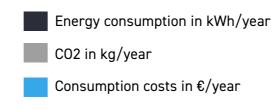
Low costs that are paid back in no time! An approach with high potential for savings at a relatively low cost. The savings are clear to see on your energy bill. On the one hand, the result is a reduction in costs and, on the other hand, less CO, is emitted, which benefits the environment. It's win-win!

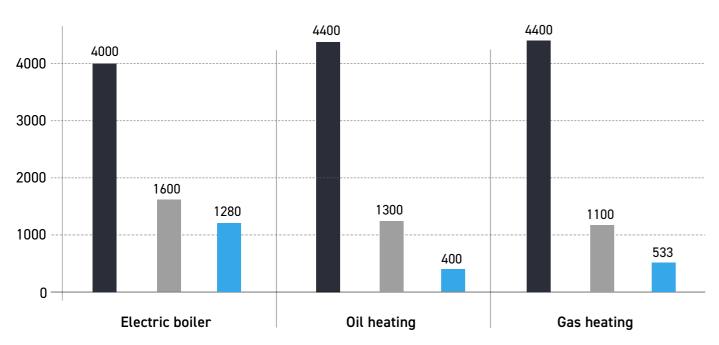
Example of use:

> Disconnecting your domestic water heating system from oil or gas heating

DISCONNECT YOUR DOMESTIC WATER HEATING SYSTEM FROM OIL OR GAS **HEATING**

Huge potential for reducing CO₂ emissions This approach offers great potential for reducing CO, emissions. An oil supplier invoice will highlight the savings: approx. 400 to 500 litres less oil is needed per year for a four-person household. This inevitably leads to lower costs. An Oekoboiler that runs solely on the German electricity mix will produce three times less CO2 compared to oil or gas. Add to this green electricity or power from your own solar panels and your carbon footprint reduces yet further.





> PV or solar heat?

Photovoltaic energy can be put to use in a variety of ways in the home - even to generate heat! It can be used immediately, directed to a battery storage system, fed into an electric vehicle or wider electricity network and used to power an Oekoboiler too. Solar heat does not have the same wide application range. Energy generated from solar thermal collectors can only be used for heating purposes.

Solar thermal collectors convert 80% of solar energy into heat; however, some of this energy is lost when heated water is subsequently circulated to be stored. As a result, we can assume that the actual system efficiency of solar heat is around 50%. On the other hand, photovoltaic cells convert around 20% of solar energy into electricity, meaning loss is minimal.

Nonetheless, simply comparing efficiency levels is less relevant than taking into account the benefits in the application (sector coupling of heat, electricity, transport). How high are the purchase, installation and maintenance costs? What is the technology's lifespan? Let's compare: photovoltaic panels last between 25 and 35 years and solar thermal collectors between 10 and 20 years.

Only by considering all of these factors can you start to build a picture of how the systems compare. Such a picture will show that photovoltaic technology clearly has the edge; this is also confirmed by market figures. The recorded capacity of PV systems is continuing to grow exponentially, whereas the development of solar heat technology has been stagnating for years.

FINDING CLEVER USES FOR YOUR OWN POWER

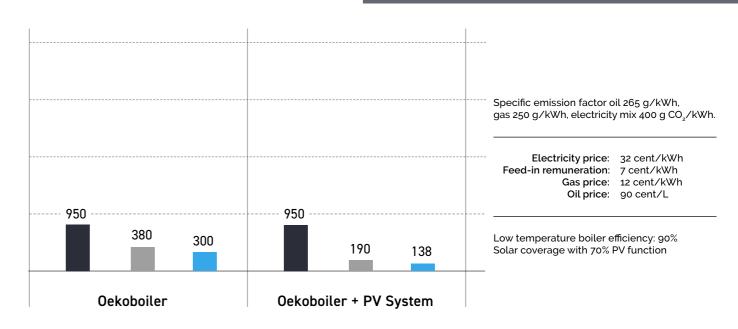
Combination: Generating electricity on your own roof, for use with PV control and the resulting production of hot water in the Oekoboiler.

Anyone who has or is considering installing photovoltaic panels on their roof to generate their own electricity can make the most of the Oekoboiler's intelligent PV control system to optimise their energy consumption as well as manage it via automated settings.

DAMP BASEMENT?

Say goodbye to musty, damp basements and old dehumidifiers.

Added climate benefits in your basement. The way in which the Oekoboiler functions helps remove moisture from the air. Most basements and laundry rooms often have high levels of moisture in the air. Before installing an Oekoboiler in a basement, we are often met with a dehumidifier or somewhat musty feel to the air. The feedback we receive from our customers confirms that the Oekoboiler reduces the average air moisture levels in basement rooms. Many no longer need a dehumidifier following installation of their Oekoboiler, or just use one sporadically. In many cases, this results in welcome knock-on effects in the form of lower costs and a dry



Our products represent the widest range of different models to suit every need.

Selecting the right model depends on a variety of factors: number of people at full occupancy, installation position, piping, circulation system, PV surplus storage, etc.

Our experts can advise you on which product is most suitable with no obligation. Their services are free and can be accessed at any time.



PRODUCTS MATRIX

The following functions are included with all models as standard:

PV function and SmartGrid ready

Service flange(apart from 150 l model)



Connection for the circulation system

Emergency heating element in ceramic casing (150 l model includes conventional emergency heating element)

Tank volume	Model / Name	Art. no.	Magnesium Anode	Extra Electrical Anode	Stainless steel	Additional Register	Direct- ventilation	WiFi- compatible control
150 L	RS-Oekoboiler 02 / 150 L COP 4.2	388 150 002	Ø		V2A			

	RS-Oekoboiler 02 / 300 L COP 4.2	388 302 002	O		V2A		
	RS-Oekoboiler 03 / 300 L COP 4.2	388 302 003			V2A		
	RS-Oekoboiler 04 / 300 L COP 4.2	388 302 004	S		V4A		
300 L	RS-Oekoboiler 02D / 300 L COP 4.2	388 304 012			V2A		
,	RS-Oekoboiler 04D / 300 L COP 4.2	388 304 014	Ø		V4A	Ø	
	RS-Oekoboiler 13 / 300 L COP 4.2	388 302 013	Ø		V2A	Ø	
	RS-Oekoboiler 14 / 300 L COP 4.2	388 302 014	0	Ø	V4A		Ø

450 L	RS-Oekoboiler 02 / 450 L COP 3.9	388 450 004	Ø		V2A		
	RS-Oekoboiler 03 / 450 L COP 3.9	388 452 003			V2A		
	RS-Oekoboiler 04 / 450 L COP 3.9	388 452 004	Ø	Ø	V4A	Ø	

In suitable air temperature conditions, the Oekoboiler can reach a target water temperature of up to 70°C during heat pump operation. In principle, the Oekoboiler does not require the emergency heating element in order to heat water. However, this can be connected at any time if needed.

COP COP stands for "coefficient of performance" and refers to the heat pump's efficiency. It indicates the relationship between the heat output and the corresponding operating power (electricity) required. This value is measured under standard test conditions (A20W55). The Oekoboiler is a frontrunner when it comes to efficiency.

V2A Chromium nickel stainless steel. This type of steel has a high chemical resistance when exposed to water and diluted acids.

Chromium nickel stainless steel, alloyed with additional 2% molybdenum, can resist corrosion caused by saline liquids. Depending on water quality or whether or not a salt-based water softening system is being used, this alloy can prove to be beneficial.

	RS-0EK0B0ILER 02 150 LITRE
DESCRIPTION	Double-walled V2A stainless steel heat pump boiler without additional register. COP 4.2
Water heating type	Heat pump
HP unit input power	Heat pump 0.7 kW
Total connected load	2.7 kW
Power supply/cable with connector	230 V/50 Hz - 13 A / 3 x 1.5 mm ²
Maximum starting current	3.2 kW
Compressor	Panasonic/rotary
Emergency heating element (immersion heater)	2.0 kW
Outlet water temperature with HP only	Up to 70°C
Refrigerant	R134a / 1100 g
Coefficient of performance (COP)	Heat pump 4.2
Noise level	46 dB
WATER TANK/STAINLESS STEEL DOUBLE-WALLING	
Tank volume	150 Լ
Water tank material	SUS 304 / V2A stainless steel
Inner tank thickness	1.5 mm
Outer tank thickness	0.6 mm
Cold water connection	1 inch external thread (ET)
Hot water connection	1 inch external thread (ET)
Connection for circulation system	1/2 inch internal thread (IT)
PU insulation thickness	50 mm
Pressure	0.7 MPa
Maximum pressure	1.2 MPa
Service flange diameter	-
HEATING CAPACITY AND CONDENSERS	
Condenser material	SUS 316 / V2A stainless steel
Condenser/water-heat coil	One skin
Pressure	3.0 MPa
Maximum pressure	4.5 MPa
Additional register/solar register	-
Evaporator mass	480 x 57 x 352 mm
VENTILATION SYSTEM INFORMATION	
Air duct size	153 mm Ø (can be reduced to 150 mm)
Air volume flow	450 m ³ /h
Ventilation system input power	65 W
Ventilation motor type	Centrifugal
OTHER TECHNICAL DETAILS	
Working range with immersion heater support	>-15°C
Working range without immersion heater support	>0°C
PV function	F62 mode
	Every 14 days – automatically stored
Legionella control	Magnesium anode
	·
Legionella control Corrosion protection Immersion heater insertion height	363 mm
Corrosion protection Immersion heater insertion height	363 mm 520 mm
Corrosion protection Immersion heater insertion height Temperature sensor in tank height	520 mm
Corrosion protection Immersion heater insertion height Temperature sensor in tank height Magnesium rod insertion height	520 mm 600 mm
Corrosion protection Immersion heater insertion height Temperature sensor in tank height Magnesium rod insertion height Power cable dimensions	520 mm 600 mm 3 x 1.5 mm²
Corrosion protection Immersion heater insertion height Temperature sensor in tank height Magnesium rod insertion height Power cable dimensions Welding type	520 mm 600 mm 3 x 1.5 mm ² TIG gas metal arc welding
Corrosion protection Immersion heater insertion height Temperature sensor in tank height Magnesium rod insertion height Power cable dimensions	520 mm 600 mm 3 x 1.5 mm²

Model / Name	Art. no.	Magnesium Anode	Extra Electrical Anode	Stainless steel	Additional Register	Direct- ventilation	WiFi- compatible control
RS-Oekoboiler 02 / 150 L COP 4.2	388 150 002	Ø		V2A			











TüV, ROHS, ErP, EN16147, SGS

MODEL	RS-0EKOBOILER 02 300 LITRE				
DESCRIPTION	Double-walled V2A stainless steel heat pump boiler without additional register. COP 4.2				
Water heating type	Heat pump				
HP unit input power	Heat pump 0.7 kW				
Total connected load	1.4 kW				
Power supply/cable with connector	230 V/50 Hz - 10 A / 3 x 1.5 mm ²				
Maximum starting current	1.9 kW				
Compressor	Panasonic/rotary				
Emergency heating element (immersion heater)	0.7 kW				
Outlet water temperature with HP only	Up to 70°C				
Refrigerant	R134a / 1100 g				
Coefficient of performance (COP)	Heat pump 4.2				
Noise level	46 dB				
WATER TANK/STAINLESS STEEL DOUBLE-WALLING					
Tank volume	300 l				
Water tank material	SUS 304 / V2A stainless steel				
Inner tank thickness	1.5 mm				
Outer tank thickness	0.6 mm				
Cold water connection	1 inch external thread (ET)				
Hot water connection	1 inch external thread (ET)				
Connection for circulation system	¾ inch internal thread (IT)				
PU insulation thickness	50 mm				
Pressure	0.7 MPa				
Maximum pressure	1.2 MPa				
Service flange diameter	80 mm				
HEATING CAPACITY AND CONDENSERS					
Condenser material	SUS 316 / V2A stainless steel				
Condenser/water-heat coil	One skin				
Pressure	3.0 MPa				
Maximum pressure	4.5 MPa				
Additional register/solar register	-				
Evaporator mass	480 x 57 x 352 mm				
VENTILATION SYSTEM INFORMATION					
Air duct size	153 mm Ø (can be reduced to 150 mm)				
Air volume flow	450 m³/h				
Ventilation system input power	65 W				
Ventilation motor type	Centrifugal				
OTHER TECHNICAL DETAILS					
Working range with immersion heater support	>-15°C				
Working range without immersion heater support	>0°C				
PV function	F62 mode				
Legionella control	Every 14 days – automatically stored				
Corrosion protection	Magnesium anode				
Immersion heater height	538 mm				
Temperature sensor in tank height	965 mm				
Magnesium rod height	1105 mm				
Power cable dimensions	3 x 1.5 mm ²				
	TIG gas metal arc welding				
Welding type	_				
	Three-tubed				
Welding type Evaporator Weight	Three-tubed 110 kg				

Model / Name	Art. no.	Magnesium Anode	Extra Electrical Anode	Stainless steel	Additional Register	Direct- ventilation	WiFi- compatible control
RS-Oekoboiler 02 / 300 L COP 4.2	388 302 002			V2A			





TüV, ROHS, ErP, EN16147, FWS, SGS

Water heating type HP unit input power Total connected load Power supply/cable with connector Maximum starting current Compressor Emergency heating element (immersion heater) Outlet water temperature with HP only Refrigerant Coefficient of performance (COP) Noise level WATER TANK/STAINLESS STEEL DOUBLE-WALLING	Double-walled V2A stainless steel heat pump boiler with additional register. COP 4.2 Heat pump Heat pump 0.7 kW 1.4 kW 230 V/50 Hz - 10 A / 3 x 1.5 mm² 1.9 kW Panasonic/rotary 0.7 kW Up to 70°C R134a / 1100 g Heat pump 4.2 46 dB
HP unit input power Total connected load Power supply/cable with connector Maximum starting current Compressor Emergency heating element (immersion heater) Outlet water temperature with HP only Refrigerant Coefficient of performance (COP) Noise level WATER TANK/STAINLESS STEEL DOUBLE-WALLING	Heat pump 0.7 kW 1.4 kW 230 V/50 Hz - 10 A / 3 x 1.5 mm² 1.9 kW Panasonic/rotary 0.7 kW Up to 70°C R134a / 1100 g Heat pump 4.2
Total connected load Power supply/cable with connector Maximum starting current Compressor Emergency heating element (immersion heater) Outlet water temperature with HP only Refrigerant Coefficient of performance (COP) Noise level WATER TANK/STAINLESS STEEL DOUBLE-WALLING	1.4 kW 230 V/50 Hz - 10 A / 3 x 1.5 mm² 1.9 kW Panasonic/rotary 0.7 kW Up to 70°C R134a / 1100 g Heat pump 4.2
Power supply/cable with connector Maximum starting current Compressor Emergency heating element (immersion heater) Outlet water temperature with HP only Refrigerant Coefficient of performance (COP) Noise level WATER TANK/STAINLESS STEEL DOUBLE-WALLING	230 V/50 Hz - 10 A / 3 x 1.5 mm ² 1.9 kW Panasonic/rotary 0.7 kW Up to 70°C R134a / 1100 g Heat pump 4.2
Coefficient of performance (COP) Noise level WATER TANK/STAINLESS STEEL DOUBLE-WALLING	1.9 kW Panasonic/rotary 0.7 kW Up to 70°C R134a / 1100 g Heat pump 4.2
Compressor Emergency heating element (immersion heater) Outlet water temperature with HP only Refrigerant Coefficient of performance (COP) Noise level WATER TANK/STAINLESS STEEL DOUBLE-WALLING	Panasonic/rotary 0.7 kW Up to 70°C R134a / 1100 g Heat pump 4.2
Emergency heating element (immersion heater) Outlet water temperature with HP only Refrigerant Coefficient of performance (COP) Noise level WATER TANK/STAINLESS STEEL DOUBLE-WALLING	0.7 kW Up to 70°C R134a / 1100 g Heat pump 4.2
Outlet water temperature with HP only Refrigerant Coefficient of performance (COP) Noise level WATER TANK/STAINLESS STEEL DOUBLE-WALLING	Up to 70°C R134a / 1100 g Heat pump 4.2
Refrigerant Coefficient of performance (COP) Noise level WATER TANK/STAINLESS STEEL DOUBLE-WALLING	R134a / 1100 g Heat pump 4.2
Refrigerant Coefficient of performance (COP) Noise level WATER TANK/STAINLESS STEEL DOUBLE-WALLING Tank volume	Heat pump 4.2
Noise level WATER TANK/STAINLESS STEEL DOUBLE-WALLING	
WATER TANK/STAINLESS STEEL DOUBLE-WALLING	46 dB
Tank volume	
	300 l
Water tank material	SUS 304 / V2A stainless steel
Inner tank thickness	1.5 mm
Outer tank thickness	0.6 mm
Cold water connection	1 inch external thread (ET)
Hot water connection	1 inch external thread (ET)
Connection for circulation system	¾ inch internal thread (IT)
PU insulation thickness	50 mm
Pressure	0.7 MPa
Maximum pressure	1.2 MPa
Service flange diameter	80 mm
HEATING CAPACITY AND CONDENSERS	
Condenser material	SUS 316 / V2A stainless steel
Condenser/water-heat coil	One skin
Pressure	3.0 MPa
Maximum pressure	4.5 MPa
Additional register/solar register	1.3 m ² external thread ¾" (ET)
Evaporator mass	480 x 57 x 352 mm
VENTILATION SYSTEM INFORMATION	
Air duct size	153 mm Ø (can be reduced to 150 mm)
Air volume flow	450 m ³ /h
Ventilation system input power	65 W
Ventilation motor type	Centrifugal
OTHER TECHNICAL DETAILS	
Working range with immersion heater support	>-15°C
Working range without immersion heater support	>0°C
PV function	F62 mode
Legionella control	Every 14 days – automatically stored
Corrosion protection	Magnesium anode
Immersion heater height	538 mm
Temperature sensor in tank height	965 mm
Magnesium rod height	1105 mm
Power cable dimensions	3 x 1.5 mm ²
Welding type	TIG gas metal arc welding
Evaporator	Three-tubed
Weight	110 kg
	110 119

Model / Name	Art. no.	Magnesium Anode	Extra Electrical Anode	Stainless steel	Additional Register	Direct- ventilation	WiFi- compatible control
RS-Oekoboiler 03 / 300 L COP 4.2	388 302 003	Ø		V2A	Ø		





TüV, ROHS, ErP, EN16147, FWS, SGS

MODEL	RS-0EKOBOILER 04 300 LITRE			
DESCRIPTION	Double-walled V4A stainless steel heat pump boiler without additional register. COP 4.2			
Water heating type	Heat pump			
HP unit input power	Heat pump 0.7 kW			
Total connected load	1.4 kW			
Power supply/cable with connector	230 V/50 Hz - 10 A / 3 x 1.5 mm ²			
Maximum starting current	1.9 kW			
Compressor	Panasonic/rotary			
Emergency heating element (immersion heater)	0.7 kW			
Outlet water temperature with HP only	Up to 70°C			
Refrigerant	R134a / 1100 g			
Coefficient of performance (COP)	Heat pump 4.2			
Noise level	46 dB			
WATER TANK/STAINLESS STEEL DOUBLE-WALLING				
Tank volume	300 l			
Water tank material	SUS 316 / V4A stainless steel			
Inner tank thickness	1.5 mm			
Outer tank thickness	0.6 mm			
Cold water connection	1 inch external thread (ET)			
Hot water connection	1 inch external thread (ET)			
Connection for circulation system	½ inch internal thread (IT)			
PU insulation thickness	50 mm			
Pressure	0.7 MPa			
Maximum pressure	1.2 MPa			
Service flange diameter	80 mm			
HEATING CAPACITY AND CONDENSERS				
condenser material	SUS 316 / V4A stainless steel			
condenser/water-heat coil	One skin			
Pressure	3.0 MPa			
Maximum pressure	4.5 MPa			
Additional register/solar register	-			
Evaporator mass	480 x 57 x 352 mm			
VENTILATION SYSTEM INFORMATION				
Air duct size	153 mm Ø (can be reduced to 150 mm)			
Air volume flow	450 m³/h			
Ventilation system input power	65 W			
Ventilation motor type	Centrifugal			
OTHER TECHNICAL DETAILS				
Working range with immersion heater support	>-15°C			
Working range without immersion heater support	>0°C			
PV function	F62 mode			
Legionella control	Every 14 days – automatically stored			
Corrosion protection	Magnesium and electronic anode			
Immersion heater height	538 mm			
Temperature sensor in tank height	965 mm			
Magnesium rod height	1105 mm			
Power cable dimensions	3 x 1.5 mm ²			
Welding type	TIG gas metal arc welding			
Evaporator	Three-tubed			
Weight	110 kg			
CERTIFICATION				
Tested by organisations/against standards	TüV, ROHS, ErP, EN16147, FWS, SGS			

Model / Name	Art. no.	Magnesium Anode	Extra Electrical Anode	Stainless steel	Additional Register	Direct- ventilation	WiFi- compatible control
RS-0ekoboiler 04 / 300 L COP 4.2	388 302 004		Ø	V4A			





MODEL	RS-0EK0B0ILER 02D 300 LITRE
DESCRIPTION	Double-walled V2A stainless steel heat pump boiler. COP 4
Water heating type	Heat pump
HP unit input power	Heat pump 0.7 kW
Total connected load	1.4 kW
Power supply/cable with connector	230 V/50 Hz - 10 A / 3 x 1.5 mm ²
Maximum starting current	1.9 kW
Compressor	Panasonic/rotary
Emergency heating element (immersion heater)	0.7 kW
Outlet water temperature with HP only	Up to 70°C
Refrigerant	R32 / 750 g
Coefficient of performance (COP)	Heat pump 4.2
Noise level	50 dB
WATER TANK/STAINLESS STEEL DOUBLE-WALLING	
Tank volume	300 l
Water tank material	SUS 304 / V2A stainless steel
Inner tank thickness	1.5 mm
Outer tank thickness	0.5 mm
Cold water connection	1 inch external thread (ET)
Hot water connection	1 inch external thread (ET)
Connection for circulation system	¾ inch internal thread (IT)
PU insulation thickness	50 mm
Pressure	0.7 MPa
Maximum pressure	1.2 MPa
Service flange diameter	80 mm
HEATING CAPACITY AND CONDENSERS	
condenser material	SUS 316 / V2A stainless steel
condenser/water-heat coil	One skin
Pressure	3.0 MPa
Maximum pressure	4.5 MPa
Additional register/solar register	-
Evaporator mass	480 x 57 x 352 mm
VENTILATION SYSTEM INFORMATION	
Air duct size	Lateral direct ventilation without connections
Air volume flow	450 m³/h
Ventilation system input power	65 W
Ventilation motor type	Centrifugal
OTHER TECHNICAL DETAILS	
Working range with immersion heater support	>-15°C
Working range without immersion heater support	>0°C
PV function	F62 mode
Legionella control	Every 14 days – automatically stored
Corrosion protection	Magnesium anode
Immersion heater height	538 mm
Temperature sensor in tank height	965 mm
Magnesium rod height	1105 mm
Power cable dimensions	3 x 1.5 mm ²
Welding type	TIG gas metal arc welding
Evaporator	Three-tubed
Weight	110 kg
CERTIFICATION	
Tested by organisations/against standards	TüV, ROHS, ErP, EN16147, FWS, SGS
restea by organisations/ against standards	101, NOID, EIT, EITIO147, 1 110, 300

Model / Name	Art. no.	Magnesium Anode	Extra Electrical Anode	Stainless steel	Additional Register	Direct- ventilation	WiFi- compatible control
RS-0ekoboiler 02D / 300 L COP 4.2	388 304 012	Ø		V2A		Ø	
1111	NEW						





MODEL	RS-OEKOBOILER 04D 300 LITRE
DESCRIPTION	Double-walled V4A stainless steel heat pump boiler with direct ventilation. COP 4.2
Water heating type	Heat pump
HP unit input power	Heat pump 0.7 kW
Total connected load	1.4 kW
Power supply/cable with connector	230 V/50 Hz - 10 A / 3 x 1.5 mm ²
Maximum starting current	1.9 kW
Compressor	Panasonic/rotary
Emergency heating element (immersion heater)	0.7 kW
Outlet water temperature with HP only	Up to 70°C
Refrigerant	R134a / 1100 g
Coefficient of performance (COP)	Heat pump 4.2
Noise level	50 dB
WATER TANK/STAINLESS STEEL DOUBLE-WALLING	
Tank volume	300 l
Water tank material	SUS 316 / V4A stainless steel
Inner tank thickness	1.5 mm
Outer tank thickness	0.6 mm
Cold water connection	1 inch external thread (ET)
Hot water connection	1 inch external thread (ET)
Connection for circulation system	% inch internal thread (IT)
PU insulation thickness	50 mm
Pressure	0.7 MPa
Maximum pressure	1.2 MPa
Service flange diameter	80 mm
HEATING CAPACITY AND CONDENSERS	
condenser material	SUS 316 / V4A stainless steel
condenser/water-heat coil	One skin
Pressure	3.0 MPa
Maximum pressure	4.5 MPa
Additional register/solar register	1.3 m ² external thread ¾" (ET)
Evaporator mass	480 x 57 x 352 mm
VENTILATION SYSTEM INFORMATION	
Air duct size	Lateral direct ventilation without connections
Air volume flow	450 m³/h
Ventilation system input power	65 W
Ventilation motor type	Centrifugal
OTHER TECHNICAL DETAILS	
Working range with immersion heater support	>-15℃
Working range without immersion heater support	>0°C
PV function	F62 mode
Legionella control	Every 14 days – automatically stored
Corrosion protection	Magnesium and electronic anode
Immersion heater height	538 mm
Temperature sensor in tank height	965 mm
Magnesium rod height	1105 mm
Power cable dimensions	3 x 1.5 mm ²
Welding type	TIG gas metal arc welding
Evaporator	Three-tubed
Weight	110 kg
CERTIFICATION	
Tested by organisations/against standards	TüV, ROHS, ErP, EN16147, FWS, SGS

Model / Name	Art. no.	Magnesium Anode	Extra Electrical Anode	Stainless steel	Additional Register	Direct- ventilation	WiFi- compatible control
RS-Oekoboiler 04D / 300 L COP 4.2	388 304 014	Ø	Ø	V4A	Ø		





MODEL	RS-OEKOBOILER 13 300 LITRE				
DESCRIPTION	Double-walled V2A stainless steel heat pump boiler, with additional register. COP 4.2				
Water heating type	Heat pump				
HP unit input power	Heat pump 0.7 kW				
Total connected load	1.4 kW				
Power supply/cable with connector	230 V/50 Hz - 10 A / 3 x 1.5 mm ²				
Maximum starting current	1.9 kW				
Compressor	Panasonic/rotary				
Emergency heating element (immersion heater)	0.7 kW				
Outlet water temperature with HP only	Up to 70°C				
Refrigerant	R134a / 1100 g				
Coefficient of performance (COP)	Heat pump 4.2				
Noise level	46 dB				
WATER TANK/STAINLESS STEEL DOUBLE-WALLING					
Tank volume	300 l				
Water tank material	SUS 304 / V2A stainless steel				
Inner tank thickness	1.5 mm				
Outer tank thickness	0.6 mm				
Cold water connection	1 inch external thread (ET)				
Hot water connection	1 inch external thread (ET)				
Connection for circulation system	¾ inch internal thread (IT)				
PU insulation thickness	55 mm				
Pressure	0.7 MPa				
Maximum pressure	1.2 MPa				
Service flange diameter	80 mm				
HEATING CAPACITY AND CONDENSERS					
condenser material	SUS 316 / V2A stainless steel				
condenser/water-heat coil	One skin				
Pressure	3.0 MPa				
Maximum pressure	4.5 MPa				
Additional register/solar register	1.3 m² external thread ¾" (ET)				
Evaporator mass	480 x 57 x 352 mm				
VENTILATION SYSTEM INFORMATION					
Air duct size	153 mm Ø (can be reduced to 150 mm)				
Air volume flow	450 m³/h				
Ventilation system input power	65 W				
Ventilation motor type	Centrifugal				
OTHER TECHNICAL DETAILS					
	>-15°C				
Working range with immersion heater support					
Working range with immersion heater support Working range without immersion heater support	>-15°C >0°C F62 mode				
Working range with immersion heater support Working range without immersion heater support PV function	>0°C F62 mode				
Working range with immersion heater support Working range without immersion heater support PV function Legionella control	>0°C F62 mode Every 14 days – automatically stored				
Working range with immersion heater support Working range without immersion heater support PV function Legionella control Corrosion protection	>0°C F62 mode Every 14 days – automatically stored Magnesium anode				
Working range with immersion heater support Working range without immersion heater support PV function Legionella control Corrosion protection Immersion heater height	>0°C F62 mode Every 14 days – automatically stored Magnesium anode 538 mm				
Working range with immersion heater support Working range without immersion heater support PV function Legionella control Corrosion protection Immersion heater height Temperature sensor in tank height	>0°C F62 mode Every 14 days – automatically stored Magnesium anode 538 mm 938 mm				
Working range with immersion heater support Working range without immersion heater support PV function Legionella control Corrosion protection Immersion heater height Temperature sensor in tank height Magnesium rod height	>0°C F62 mode Every 14 days – automatically stored Magnesium anode 538 mm 938 mm 1017 mm				
Working range with immersion heater support Working range without immersion heater support PV function Legionella control Corrosion protection Immersion heater height Temperature sensor in tank height Magnesium rod height Power cable dimensions	>0°C F62 mode Every 14 days – automatically stored Magnesium anode 538 mm 938 mm 1017 mm 3 x 1.5 mm²				
Working range with immersion heater support Working range without immersion heater support PV function Legionella control Corrosion protection Immersion heater height Temperature sensor in tank height Magnesium rod height Power cable dimensions Welding type	>0°C F62 mode Every 14 days – automatically stored Magnesium anode 538 mm 938 mm 1017 mm 3 x 1.5 mm² TIG gas metal arc welding				
Working range with immersion heater support Working range without immersion heater support PV function Legionella control Corrosion protection Immersion heater height Temperature sensor in tank height Magnesium rod height	>0°C F62 mode Every 14 days – automatically stored Magnesium anode 538 mm 938 mm 1017 mm 3 x 1.5 mm²				

Model / Name	Art. no.	Magnesium Anode	Extra Electrical Anode	Stainless steel	Additional Register	Direct- ventilation	WiFi- compatible control
RS-Oekoboiler 13 / 300 L COP 4.2	388 302 013			V2A	Ø		Ø





TüV, ROHS, ErP, EN16147, FWS, SGS

MODEL	RS-OEKOBOILER 14 300 LITRE
DESCRIPTION	Double-walled V4A stainless steel heat pump boiler. COP 4.2
Water heating type	Heat pump
HP unit input power	Heat pump 0.7 kW
Total connected load	1.4 kW
Power supply/cable with connector	230 V/50 Hz - 10 A / 3 x 1.5 mm ²
Maximum starting current	1.9 kW
Compressor	Panasonic/rotary
Emergency heating element (immersion heater)	0.7 kW
Outlet water temperature with HP only	Up to 70°C
Refrigerant	R134a / 1100 g
Coefficient of performance (COP)	Heat pump 4.2
Noise level	46 dB
WATER TANK/STAINLESS STEEL DOUBLE-WALLING	
Tank volume	300 l
Water tank material	SUS 316 / V4A stainless steel
Inner tank thickness	1.5 mm
Outer tank thickness	0.6 mm
Cold water connection	1 inch external thread (ET)
Hot water connection	1 inch external thread (ET)
Connection for circulation system	% inch internal thread (IT)
PU insulation thickness	55 mm
Pressure	0.7 MPa
Maximum pressure	1.2 MPa
Service flange diameter	80 mm
HEATING CAPACITY AND CONDENSERS	
condenser material	SUS 316 / V4A stainless steel
condenser/water-heat coil	One skin
Pressure	3.0 MPa
Maximum pressure	4.5 MPa
Additional register/solar register	-
Evaporator mass	480 x 57 x 352 mm
VENTILATION SYSTEM INFORMATION	
Air duct size	153 mm Ø (can be reduced to 150 mm)
Air volume flow	450 m³/h
Ventilation system input power	65 W
Ventilation motor type	Centrifugal
OTHER TECHNICAL DETAILS	
Working range with immersion heater support	>-15°C
Working range with infinersion heater support Working range without immersion heater support	>0°C
PV function	F62 mode
Legionella control	Every 14 days – automatically stored
Corrosion protection	Magnesium and electronic anode
Immersion heater height	538 mm
Temperature sensor in tank height	938 mm
Magnesium rod height	1017 mm
Power cable dimensions	3 x 1.5 mm ²
Welding type	TIG gas metal arc welding
Evaporator	Three-tubed
Weight	118 kg
•	110 kg
CERTIFICATION	
T	T"V DOUG F.D FN1/1/E FMC COC

Model / Name	Art. no.	Magnesium Anode	Extra Electrical Anode	Stainless steel	Additional Register	Direct- ventilation	WiFi- compatible control
RS-0ekoboiler 14 / 300 L COP 4.2	388 302 014	Ø	Ø	V4A			





TüV, ROHS, ErP, EN16147, FWS, SGS

MODEL	RS-0EK0B0ILER 02 450 LITRE				
DESCRIPTION	Double-walled V2A stainless steel heat pump boiler. COP 3.9				
Water heating type	Heat pump				
HP unit input power	Heat pump 1.1 kW				
Total connected load	1.8 kW				
Power supply/cable with connector	230 V/50 Hz - 13 A / 3 x 1.5 mm ²				
Maximum starting current	2.3 kW				
Compressor	Panasonic/rotary				
Emergency heating element (immersion heater)	0.7 kW				
Outlet water temperature with HP only	Up to 70°C				
Refrigerant	R32 / 850 g				
Coefficient of performance (COP)	Heat pump 3.9				
Noise level	46 dB				
WATER TANK/STAINLESS STEEL DOUBLE-WALLING					
Tank volume	450 l				
Water tank material	SUS 304 / V2A stainless steel				
nner tank thickness	1.8 mm				
Outer tank thickness	0.6 mm				
Cold water connection	1 inch external thread (ET)				
Hot water connection	1 inch external thread (ET)				
Connection for circulation system	% inch internal thread (IT)				
PU insulation thickness	50 mm				
Pressure	0.7 MPa				
Maximum pressure	1.2 MPa				
Service flange diameter	80 mm				
HEATING CAPACITY AND CONDENSERS					
condenser material	SUS 316 / V2A stainless steel				
condenser/water-heat coil	One skin				
Pressure	3.0 MPa				
Maximum pressure	4.5 MPa				
Additional register/solar register	-				
Evaporator mass	480 x 57 x 352 mm				
VENTILATION SYSTEM INFORMATION					
Air duct size	150 mm Ø				
Air volume flow	500 m³/h				
Ventilation system input power	78 W				
Ventilation motor type	Centrifugal				
OTHER TECHNICAL DETAILS					
Working range with immersion heater support	>-15°C				
Working range without immersion heater support	>0°C				
PV function	F62 mode				
Legionella control	Every 14 days – automatically stored				
Corrosion protection	Magnesium anode				
Immersion heater height	545 mm				
Temperature sensor in tank height	972 mm				
Magnesium rod height	1187 mm				
Power cable dimensions	3 x 1.5 mm ²				
	TIG gas metal arc welding				
Welding type	Three-tubed				
Welding type Evaporator Weight	Three-tubed 140 kg				

Model / Name	Art. no.	Magnesium Anode	Extra Electrical Anode	Stainless steel	Additional Register	Direct- ventilation	WiFi- compatible control
RS-Oekoboiler 02 / 450 L COP 3.9	388 450 004			V2A			





TüV, ROHS, ErP, EN16147, FWS, SGS

MODEL	RS-OEKOBOILER 03 450 LITRE				
DESCRIPTION	Double-walled V2A stainless steel heat pump boiler, with additional register. COP 3.9				
Water heating type	Heat pump				
HP unit input power	Heat pump 1.1 kW				
Total connected load	1.8 kW				
Power supply/cable with connector	230 V/50 Hz - 13 A / 3 x 1.5 mm ²				
Maximum starting current	2.3 kW				
Compressor	Panasonic/rotary				
Emergency heating element (immersion heater)	0.7 kW				
Outlet water temperature with HP only	Up to 70°C				
Refrigerant	R32 / 850 g				
Coefficient of performance (COP)	Heat pump 3.9				
Noise level	46 dB				
WATER TANK/STAINLESS STEEL DOUBLE-WALLING					
Tank volume	450 l				
Water tank material	SUS 304 / V2A stainless steel				
Inner tank thickness	1.8 mm				
Outer tank thickness	0.6 mm				
Cold water connection	1 inch external thread (ET)				
Hot water connection	1 inch external thread (ET)				
Connection for circulation system	¾ inch internal thread (IT)				
PU insulation thickness	50 mm				
Pressure	0.7 MPa				
Maximum pressure	1.2 MPa				
Service flange diameter	80 mm				
HEATING CAPACITY AND CONDENSERS					
condenser material	SUS 316 / V2A stainless steel				
condenser/water-heat coil	One skin				
Pressure	3.0 MPa				
Maximum pressure	4.5 MPa				
Additional register/solar register	1.3 m² external thread ¾" (ET)				
Evaporator mass	480 x 57 x 352 mm				
VENTILATION SYSTEM INFORMATION					
Air duct size	150 mm Ø				
Air volume flow	500 m ³ /h				
Ventilation system input power	78 W				
Ventilation motor type	Centrifugal				
OTHER TECHNICAL DETAILS					
Working range with immersion heater support	>-15°C				
Working range without immersion heater support	>0°C				
PV function	F62 mode				
Legionella control	Every 14 days – automatically stored				
Corrosion protection	Magnesium anode				
Immersion heater height	545 mm				
Temperature sensor in tank height	977 mm				
Magnesium rod height	1187 mm				
Power cable dimensions	3 x 1.5 mm ²				
Welding type	TIG gas metal arc welding				
Evaporator	Three-tubed				
Weight	140 kg				
CERTIFICATION					

Model / Name	Art. no.	Magnesium Anode	Extra Electrical Anode	Stainless steel	Additional Register	Direct- ventilation	WiFi- compatible control
RS-Oekoboiler 03 / 450 L COP 3.9	388 452 003	Ø		V2A			





TüV, ROHS, ErP, EN16147, FWS, SGS

MODEL	RS-0EKOBOILER 04 450 LITRE			
DESCRIPTION	Double-walled V4A stainless steel heat pump boiler, with additional register. COP 3.9			
Water heating type	Heat pump			
HP unit input power	Heat pump 1.1 kW			
Total connected load	1.8 kW			
Power supply/cable with connector	230 V/50 Hz - 13 A / 3 x 1.5 mm ²			
Maximum starting current	2.3 kW			
Compressor	Panasonic/rotary			
Emergency heating element (immersion heater)	0.7 kW			
Outlet water temperature with HP only	Up to 70°C			
Refrigerant	R32 / 850 g			
Coefficient of performance (COP)	Heat pump 3.9			
Noise level	46 dB			
WATER TANK/STAINLESS STEEL DOUBLE-WALLING				
Tank volume	450 l			
Water tank material	SUS 316 / V4A stainless steel			
Inner tank thickness	1.8 mm			
Outer tank thickness	0.6 mm			
Cold water connection	1 inch external thread (ET)			
Hot water connection	1 inch external thread (ET)			
Connection for circulation system	¾ inch internal thread (IT)			
PU insulation thickness	55 mm			
Pressure	0.7 MPa			
Maximum pressure	1.2 MPa			
Service flange diameter	80 mm			
HEATING CAPACITY AND CONDENSERS				
condenser material	SUS 316 / V4A stainless steel			
condenser/water-heat coil	One skin			
Pressure	3.0 MPa			
Maximum pressure	4.5 MPa			
Additional register/solar register	4.3 PH d			
Evaporator mass	480 x 57 x 352 mm			
VENTILATION SYSTEM INFORMATION				
Air duct size	150 mm Ø			
Air volume flow	500 m³/h			
	78 W			
Ventilation system input power Ventilation motor type	Centrifugal			
OTHER TECHNICAL DETAILS				
Working range with immersion heater support	>-15°C			
Working range with immersion heater support	>0°C			
PV function	F62 mode			
Legionella control	Every 14 days – automatically stored			
•	·			
Corrosion protection	Magnesium and electronic anode			
Immersion heater height	545 mm			
Temperature sensor in tank height	972 mm			
Magnesium rod height	1187 mm			
Power cable dimensions	3 x 1.5 mm ²			
Welding type	TIG gas metal arc welding			
Evaporator	Three-tubed			
Weight	140 kg			
CERTIFICATION				
Tested by organisations/against standards	TüV, ROHS, ErP, EN16147, FWS, SGS			

ΕIN	1014/	, ۲۷۷5,	, 565	

Model / Name	Art. no.	Magnesium Anode	Extra Electrical Anode	Stainless steel	Additional Register	Direct- ventilation	WiFi- compatible control
RS-Oekoboiler 04 / 450 L COP 3.9	388 452 004			V4A			



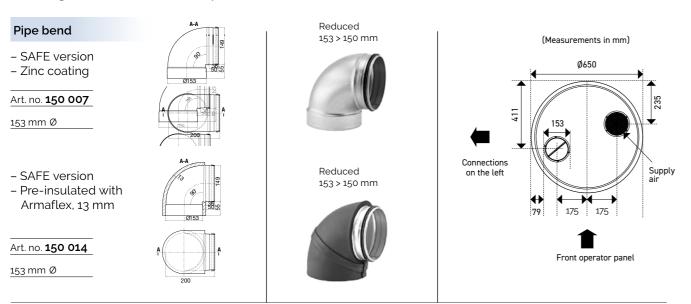
RS-Oekoboiler 150 L, 300 L

388 150 002 | 388 302 002 | 388 302 003 | 388 302 004 388 304 012 | 388 304 014 | 388 302 013 | 388 302 014

Important notes!

- The length of the air exhaust and supply pipes cannot exceed **10 metres**!
- The exhaust air must be discharged directly via a bend and not directed upwards. Beat the cold air accumulation trap!
- Direct cold air through considerably warmer rooms or outside. The use of insulated pipes to avoid condensation is vital.
- Pipe bends reduce the diameter from 153 mm to 150 mm for standard spiral ducts.

Matching accessories for model depicted







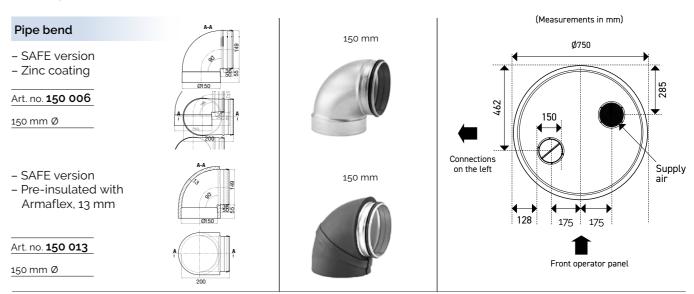
RS-Oekoboiler 450 L

Art.Nr. 388 450 004 388 450 002.1 388 452 003 388 452 004

Important notes!

- The length of the air exhaust and supply pipes cannot exceed 10 metres!
- The exhaust air must be discharged directly via a bend and not directed upwards. Beat the cold air accumulation trap!
- Direct cold air through considerably warmer rooms or outside. The use of insulated pipes to avoid condensation is vital.
- Whether the intake point on the supply side is higher or lower has no impact on the unit's performance.

Matching accessories for model depicted





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RS-Oekoboiler 300 Liter, Wi-Fi

Art.Nr. 388 302 013 388 302 014



Important notes!

- The length of the air exhaust and supply pipes cannot exceed **10 metres**!
- The exhaust air must be discharged directly via a bend and not directed upwards. Beat the cold air accumulation trap!
- Direct cold air through considerably warmer rooms or outside. The use of insulated pipes to avoid condensation is vital.
- Pipe bends reduce the diameter from 153 mm to 150 mm for standard spiral ducts.

Matching accessories for model depicted

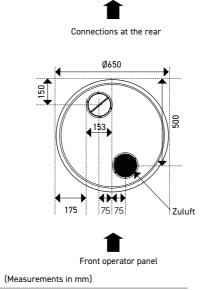
Pipe bend - SAFE version - Zinc coating Art. no. 150 007 153 mm Ø - SAFE version - Pre-insulated with Armaflex, 13 mm

Art. no. **150 014**

153 mm Ø









Transition sleeve

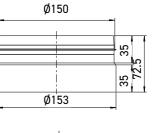
- SAFE version
- Zinc coating
- Pre-insulated with Armaflex, 13 mm

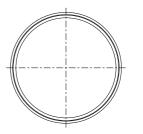
PIPEWORK OPTIONS - EXHAUST AND SUPPLY

Art. no. **150 018**

153 mm Ø

► Suitable for all **150** and **300 litre** boilers







Reduced 153 > 150 mm

wifi APP oekoboiler°

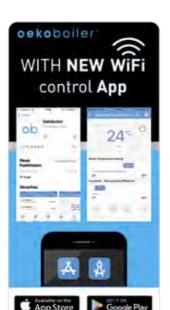
Our wifi models - fit for the future!

Our WiFi-compatible devices can be controlled via an Android and iOS app all over the world. The app allows you to set operating times, the heating mode and the target temperature at any time, no matter where you are. You can also check the current status of the unit as well as the temperature of the water contained within it.

Once you've installed the Oekoboiler app, follow the prompt on the menu page to connect your Oekoboiler with your WiFi-compatible device.

Reading the current parameters and settings

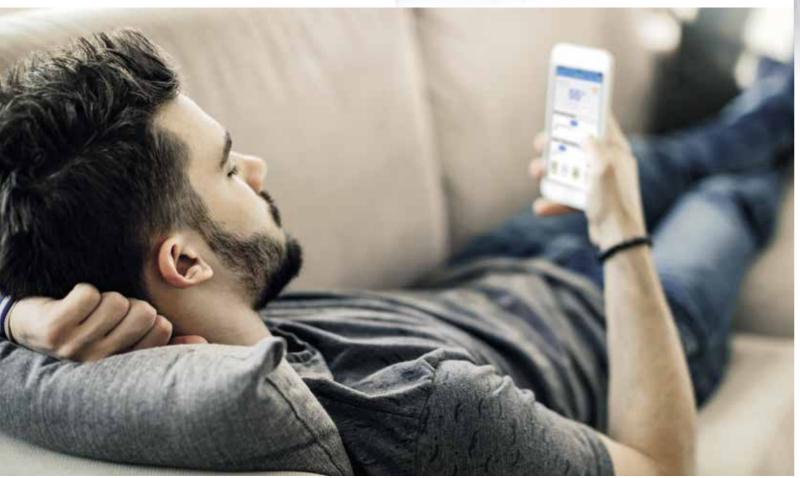
- 1. Status On or Off
- 2. Target temperature
- 3. Current temperature
- 4. Current operating mode
- 5. Alerts
- 6. PV mode
- **7.** Menu settings











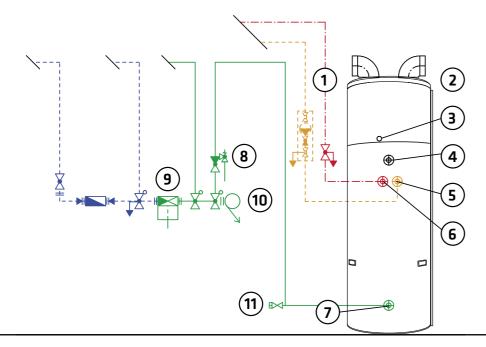
The OEKOBOILER's electronic control system is equipped with an intelligent photovoltaic connection that can be configured based on your individual preferences. This means surpluses generated from photovoltaic systems installed at home can be stored in the Oekoboiler in the form of hot water, not only boosting the benefits of such photovoltaic systems, but cutting costs and helping the environment too.

In photovoltaic mode, the target temperature can be increased so that more energy can be stored via solar power, which optimises the use of surplus solar energy.

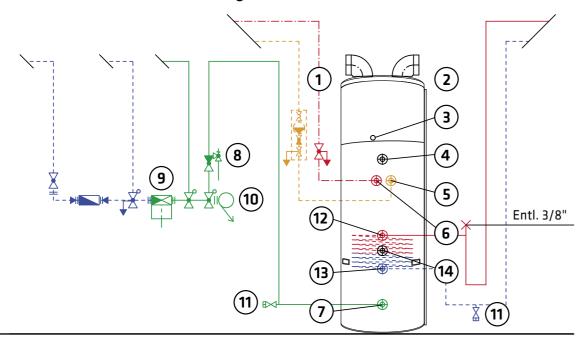


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Applicable for all Oekoboilers without additional register



Applicable for all Oekoboilers with additional register



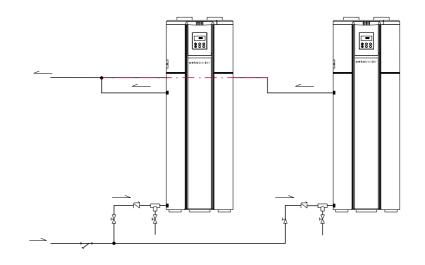
12 VL register ¾ inch ET flat sealing

14 Opening for temperature sensor tube

13 RL register ¾ inch ET

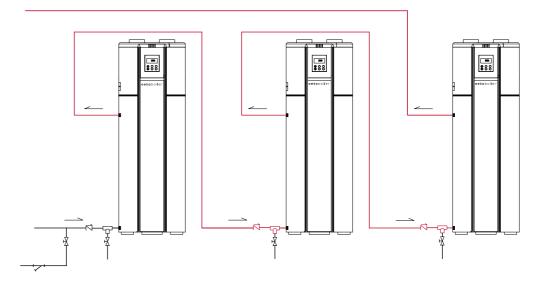
- **1** Exhaust air D = 153 mm (150 mm for 450 L boiler)
- Supply air D = 153 mm (150 mm for 450 L boiler)
- Electrical connection 230 V
- Condenser drain ¾ inch IT
- Hot water connection 1 inch ET
- Circulation connection 3/4 inch IT
- Cold water connection 1 inch ET flat sealing
- Security fittings with backflow preventer
- 9 Backwashable pressure-reducing fine filter group
- 10 Filling valve ½ inch
- 11 Drain cock½ inch or ¾ inch

Parallel circuit(secondary circuit)



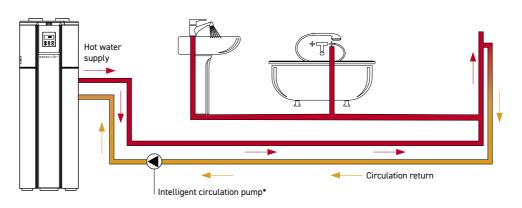
It is important to ensure equal pipe lengths in the Oekoboiler's parallel circuit.

Series connection (series circuit)



By connecting multiple Oekoboilers in series within multi-family household or large building projects, for example, any level of hot water can be provided whilst output can also be expanded. The Oekoboiler's various temperature settings guarantee an even use of all units.

Circulation line (schematic representation of functionality)



*An intelligent circulation pump adjusts itself to the regular consumption patterns within the household. The pump keeps hot water available at all consumption points during usage periods, but becomes inactive at other times. This means heat loss associated with the circulation line is avoided, whilst high comfort levels are maintained.

(The circulation pump is not included in delivery of an Oekoboiler).

- 2x brass adapter reduced from 1 inch to 3/4 inch
- Adapter with ¾ inch external thread on plastic nipple (25 mm)
- Plastic hose 6 m (25 mm inner diameter)
- Operating instructions

The cold and hot water connections with 1 inch external thread connection can be reduced to $\frac{3}{4}$ inch using the brass adapters included.

The circulation line has a $\frac{3}{4}$ inch internal thread connection. The condenser drain with $\frac{3}{4}$ inch internal thread can be connected to the plastic hose using the plastic adapter. The adapter and the 6-metre hose needed for this are included in delivery.











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Your satisfaction is our greatest concern. Whether you urgently need a service technician, require an instruction manual or have a query about our products, don't hesitate to contact us. Simply fill in the contact form on our website, or send an email directly to **oekoboiler@elio.eu**. We will handle your request as quickly as possible.

► Business hours (Monday – Friday): 08:00 – 17:00

We would be happy to address any technical queries you may have. Tel. no. +49 8104 335 93 80

► In the event of breakdowns, our service centre can provide urgent support.



Information

The product information contained within this brochure may differ because of ongoing product development and is therefore not guaranteed. Any features should not be deemed to be contractual assurances concerning the condition and function of the products. Important characteristics of the features and performance may have altered in the meantime or been omitted without replacement. For more information on the current product specifications, please contact our technical advisers. The illustrations are examples of applications and must be explicitly clarified for specific practical cases. Our experts and installation partners will be glad to advise you further.

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