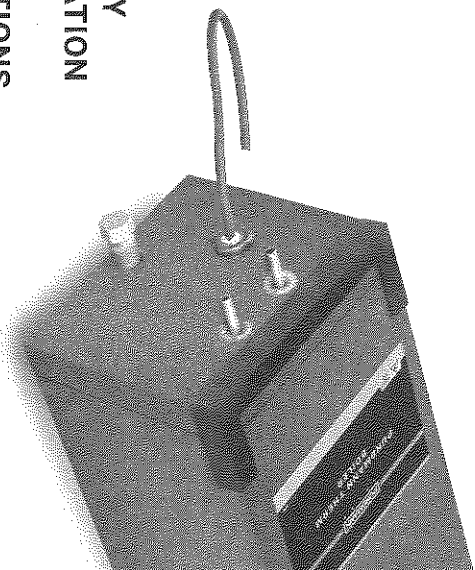




PUNDMANN



T H E R M



ASSEMBLY INSTALLATION AND INSTRUCTIONS FOR PUNDMANN THERM

Models

- 15L
 - 9L
 - 6L
 - 3L
- and twin rod models

Pundmann Off Grid water heaters have been developed to provide hot water independent of the electricity infrastructure.

PUNDMANN

T H E R M

Contact:

Ciepny One Sp. z o.o.,
Bytomska 49,
42-674 Karcowice, Poland

info@protalier.pl
www.protalier24.pl

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Contact:
 Cimpyr One Sp. z oo,
 Bytomska 49,
 42-674 Karczewice, Poland
 info@protrailer.pl
 www.protrailer24.pl

1. GENERAL INFORMATION

1.1 INFORMATION ON THE OPERATING MANUAL

These installation and operating instructions describe the assembly and use of the water heater and serve as an important source of information. Knowledge of all the safety information is a basic condition for safe and long-term use of the water heater.
 Moreover, always follow the local accident prevention regulations and general safety regulations.
 The user manual is part of the product and to be kept close to the water heater for useful reference...

1.2 EXPLANATION OF SYMBOLS



This symbol indicates that if these hints are not respected, it can lead to product damage, malfunctions and / or result in failure of the device.



This symbol indicates important safety risks and warnings, please pay particular attention.



This symbol highlights tips and information for trouble-free operation of the device.

1.3 LIABILITY AND WARRANTY

All information and instructions are in line with current regulations and our best technical knowledge. The producer cannot be held responsible for errors in translation. Minor modifications in the product may occur due to availability of components. If you have any questions, please contact the Manufacturer.



Please read this manual before using the boiler for the first time. The manufacturer takes no responsibility for damage and malfunctions resulting from not following the instructions. The instructions should always be kept near the boiler. We reserve the right to further develop the product.

1.4 DECLARATION OF CONFORMITY

Pundmann Therm is manufactured in accordance with European standards: EN13445: 2014; EN 60335-1; EN 60335-2-21; EN 55014; DVGW worksheet WZ70; Guldellnas KTY.

2. SAFETY

Please keep yourself and your water heater safe when installing and using the unit. Follow the instructions carefully and take particular care working with electricity and your 12V or 24V battery. Please check and follow the symbols and markings on the unit.

2.1 GENERAL

The unit has been fully tested and is compliant with current safety regulations and guidelines. (see Declaration of conformity 1.4)
 Do not make any changes to the water heater. Always seek professional advice from the manufacturer or a reputable trained installer. Always disconnect the unit from all power supplies before working on the unit.
 Do not connect the power supply until the unit is full of water. Switching on the unit when there is no water in the unit may cause the heater elements to burn out.

2.2 SAFETY INSTRUCTIONS WHEN USING THE WATER HEATER

The information and safety advice is in line with European Union regulations at the time the unit was designed and built.



Hot water can cause severe burns and injury. To avoid injury ensure you are supervised or those requiring assistance are supervised when using the tap.



A thermostat controls the maximum temperature of the water to 70°C when heated exclusively by either the 12V, 24V or 230V heating elements.
 We recommend the installation of a thermostat mixing valve set at a below 40°C to ensure a

safe water temperature at the tap or outlet.

2.3 INTENDED USE

The unit is intended for the purpose of heating water for amenity use.
 The water is not intended as drinking water.

2.4 LIABILITY

The manufacturer or their authorized representatives are not liable and do not accept claims for damage or injury arising from improper use or installation of the unit.
 The user is liable for any damage or injury in the event of improper installation or use of the unit.

3. TRANSPORT, PACKAGING AND STORAGE

3.1 TRANSPORT INSPECTION

Please check the parcel for contents and damage immediately upon receipt.
 In the event of externally visible transport damage the delivery should not be accepted or accepted under reservation only. any damages must be noted on shipping documents / delivery note of the carrier.
 Hidden damages must be reported immediately after recognizing them. Compensation claims can only be asserted within the complaint period.

3.2 PACKAGING

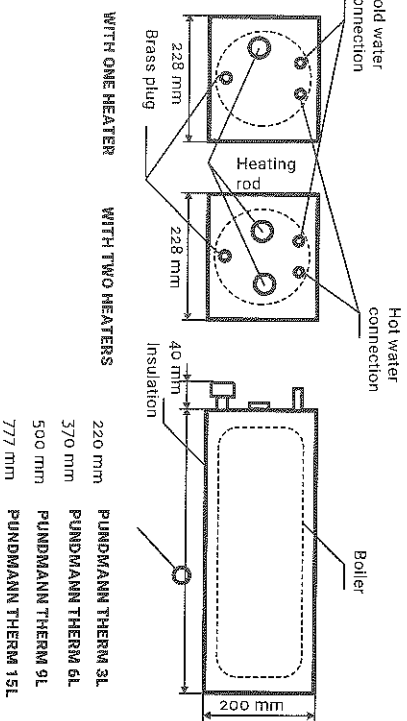
We recommend you retain your packaging until you have completed installation.
 Please dispose of the packaging responsibly and recycle where possible.



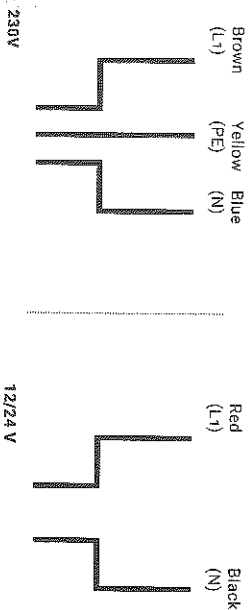
If you want to dispose the packaging, please note the local regulations in your country.
 Please recycle packaging materials where possible.
 Please check whether the device and the accessories are complete. If any parts are missing, please contact your seller.

4. TECHNICAL DATA

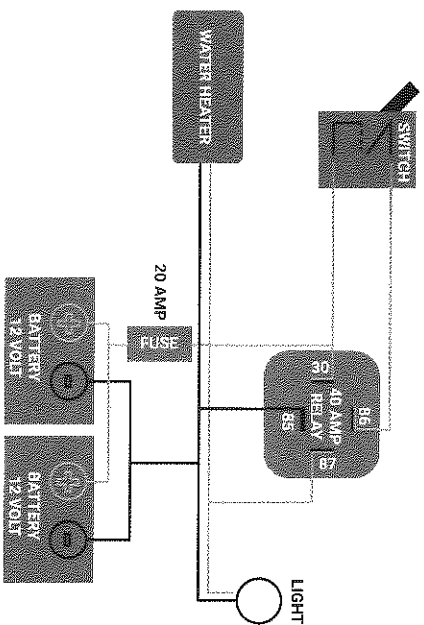
4.1 DIAGRAM OF THE BOILER AND COMPONENTS



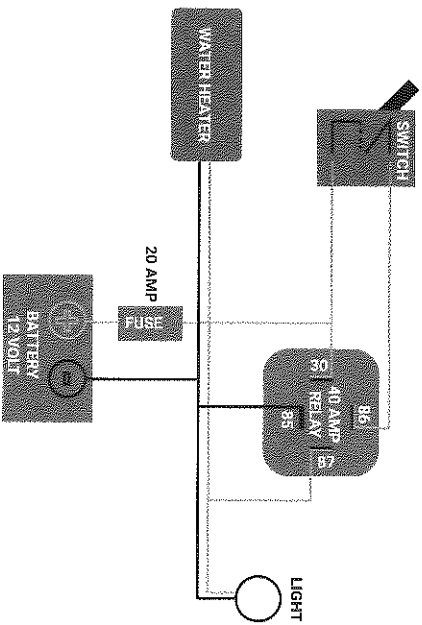
4.1.1 ELECTRICAL SCHEME



4.1.1.1 ELECTRICAL SCHEME 24V



4.1.1.1 ELECTRICAL SCHEME 12 V



4.2 TECHNICAL SPECIFICATIONS:

Power connection 230V, requires a 5amp fused plug

3 litre unit - options
12V - 180W heating element 15 A
230V - 250W heating element 2 A
24V - 400W heating element 17 A

6 litre unit - options

12V - 200W heating element 17 A
230V - 500W heating element 3 A
24V - 400W heating element 17 A

9.9 litre unit - options

12V - 200W heating element 17 A
230V - 500W heating element 3 A
24V - 400W heating element 17 A

Operating pressure up to 2,3

Water Heating time varies according to ambient water temperature and is approx. 50min. - 120min

Water connection 10mm hose tails
Protective fixing bars and the down straps

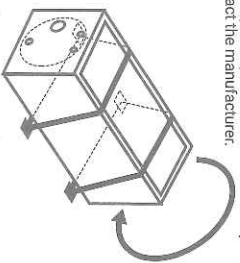
5. INSTALLATION INSTRUCTIONS

⚠ WARNING

Do not switch on any power to the empty water heater. Only switch on the power once the water heater is full of water.

5.1 POSITION

The boiler must always be mounted horizontally. Should you require further information please contact the manufacturer.



Fix in place positioning the retention brackets to the floor of your mounting, spaced so that the retaining straps are over the plastic right angle

bars to prevent damage to the insulation.

5.2 WATER

Fresh water shouldn't be pumped into the boiler at higher pressure than 2,3 bar. If necessary, the pressure can be reduced. The cold water inlet and warm water outlet have 10mm hose brass hose tails. Connect to the water supply and taps using suitable high quality food grade, reinforced 10mm internal diameter. We recommend the use of Jubilee hose clips (size 8-16, 9mm) on all connections particularly as in moving vehicles connections can work loose.

⚠ WARNING

Scald or Burn hazard: The water inside the boiler reaches high temperatures. Do not touch the hot water in the boiler!

5.3 INITIAL USE

Once the hoses are connected the water pump can be started and the boiler can be filled with water. The boiler is completely filled when water flows out of the from the hot water outlet and from your tap if connected.

📖 NOTE

Please only use fresh water with the water heater. We recommend you change the water frequently.

5.4 ELECTRIC HEATING FUNCTION

The applied heating rod heats water to a temperature of over 70° C and regulates automatically when this temperature is reached. Do not switch on the heating elements when empty only when the water heater is full of water. The heating elements have a range of technical parameters. (See section 4.2 for details) When installing please ensure you use an appropriate

⚠ WARNING

Burn hazard! The heating rods can be dangerously hot. Touching the rods can lead to injuries!

5.5 EMPLOYING

We recommend you drain the water from the water heater for storage or to winterise the unit. Before emptying, the boiler must be disconnected from the electrical circuit. The boiler is drained by manually opening the brass plug and opening a tap or shower tap so that the water

circuit in the boiler installation is open. Leave the brass end cap open until it is restarted. You may need to remove a hose to allow air flow to release the water.

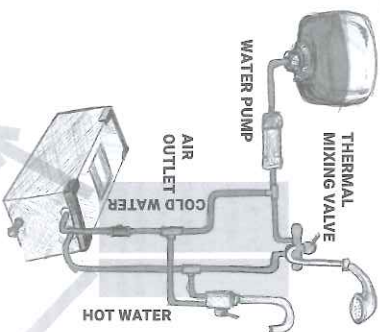
⚠ WARNING

To avoid frost damage it is essential to empty the unit. Frozen water can cause irreparable damage and is not covered by the warranty.

⚠ DANGER

Before emptying the boiler it must be disconnected from electricity!

WATER TANK

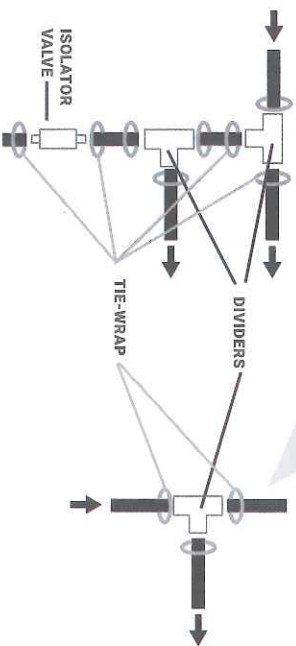


5.6 BOILER INSTALLATION AS A KIT

The boiler can be installed in a vehicle with Fundriam recommended components as a set. You will find tested components and accessories on the manufacturer's website www.protrailer.pl. The schematic structure of a boiler installation can be found on the drawing below.

6. WARRANTY

The device has a 3 year manufacturer's return to base warranty, starting from the day of delivery. Damage caused by frost or calcification is excluded with warranty as well as the resulting damage from any modifications or user errors. In case of a warranty claim, the manufacturer will repair or replace the unit if returned within the warranty window, with proof of purchase. No further claims are accepted. Please see our web site for address and full process.



EU DECLARATION OF CONFORMITY

Pressure equipment
Serial number
Year of production
Drawing
Manufacturer

Warm water boiler 3l
PT/IE/00001-PT/IE/09999 , PT/IE/00001-PT/IE/09999
2023
02-851 000R-00
Cmpny One Sp. z o.o., 42-674 Karcowice, PL

With this declaration of conformity the manufacturer declares

Object of declaration
Place
Max permitted pressure
Max/min allowed temperature TS:
Capacity
Substance
Fluidity
Test pressure
Test substance
Hazard group

Warm water boiler
Coating
0,49 bar
80 / 5 0C
3,0 l
Water
Water
2
0,75 bar
Water
2014/68/WE

The product described above in this declaration of conformity is compliant with the relevant requirements of EU legislation.

Directive of the European parliament and council 2014/68/EU
Low-voltage directive 2006/95/WE
Directive 2000/53/EC on end of life vehicles
Council directive 98/83/EC on the quality of water intended for human consumption.
Electromagnetic compatibility 2014/30/EU

Reference to relevant harmonized norms or other technical specifications for conformity

EN 13445:2014
EN 60335-1
EN 60335-2-21
EN 55014:
Aktusz roboczy DVGW WZ70, wytyczne KTW

CE

Signature of manufacturer



Karcowice, 02.01.2023

Place and date of declaration

EU DECLARATION OF CONFORMITY

Pressure equipment
Serial number
Year of production
Drawing
Manufacturer

Warm water boiler 6l
PT/H/00001-PT/H/09999 , PT/G/00001-PT/G/09999
2023
03-851 000R-00
Cmpny One Sp. z o.o., 42-674 Karcowice, PL

With this declaration of conformity the manufacturer declares

Object of declaration
Place
Max permitted pressure
Max/min allowed temperature TS:
Capacity
Substance
Fluidity
Test pressure
Test substance
Hazard group

Warm water boiler 6l
Coating
0,49 bar
80 / 5 0C
6,0 l
Water
Water
2
0,75 bar
Water
2014/68/WE

The product described above in this declaration of conformity is compliant with the relevant requirements of EU legislation.

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Council directive 98/83/EC on the quality of water intended for human consumption.
Electromagnetic compatibility 2014/30/EU

Reference to relevant harmonized norms or other technical specifications for conformity

EN 13445:2014
EN 60335-1
EN 60335-2-21
EN 55014:
Aktusz roboczy DVGW WZ70, wytyczne KTW

CE

Signature of manufacturer



Karcowice, 02.01.2023

Place and date of declaration

EU DECLARATION OF CONFORMITY

Pressure equipment
Serial number
Year of production
Drawing
Manufacturer

Warm water boiler 9L
PT//J/00001-PT//J/09999, PT//I/00001-PT/I/09999
2023
04-851000R-00
Company One Sp. z o.o., 42-674 Karłowice, PL

With this declaration of conformity the manufacturer declares

Object of declaration	Warm water boiler 9l
Place	Coating
Max permitted pressure	0,49 bar
Max/min allowed temperature TS:	80 / 5 0C
Capacity	9,0 l
Substance	Water
Fluidity	2
Test pressure	0,75 bar
Test substance	Water
Hazard group	201 4/68/W/E

The product described above in this declaration of conformity is compliant with the relevant requirements of EU legislation.

Directive of the European parliament and council 2014/68/EU
Low-voltage directive 2006/95/WE
Directive 2000/53/EC on end of life vehicles
Council directive 98/83/EC on the quality of water intended for human consumption.
Electromagnetic compatibility 2014/30/EU

Reference to relevant harmonized norms or other technical specifications for conformity

EN 13445:2014
EN 60335-1
EN 60335-2-21
EN 55014;
Arkusz roboczy DWGW WZ70, wytyczne KTW

CE

Signature of manufacturer



Karłowice, 02.01.2023
Place and date of declaration

EU DECLARATION OF CONFORMITY

Pressure equipment
Serial number
Year of production
Drawing
Manufacturer

Warm water boiler 15L
PT//K/00001-PT//K/09999, PT//K/00001-PT//K/09999
2023
05-851000R-00
Company One Sp. z o.o., 42-674 Karłowice, PL

With this declaration of conformity the manufacturer declares

Object of declaration	Warm water boiler 15l
Place	Coating
Max permitted pressure	0,49 bar
Max/min allowed temperature TS:	80 / 5 0C
Capacity	15,0 l
Substance	Water
Fluidity	2
Test pressure	0,75 bar
Test substance	Water
Hazard group	201 4/68/W/E

The product described above in this declaration of conformity is compliant with the relevant requirements of EU legislation.

Directive of the European parliament and council 2014/68/EU
Low-voltage directive 2006/95/WE
Directive 2000/53/EC on end of life vehicles
Council directive 98/83/EC on the quality of water intended for human consumption.
Electromagnetic compatibility 2014/30/EU

Reference to relevant harmonized norms or other technical specifications for conformity

EN 13445:2014
EN 60335-1
EN 60335-2-21
EN 55014;
Arkusz roboczy DWGW WZ70, wytyczne KTW

CE

Signature of manufacturer



Karłowice, 02.01.2023
Place and date of declaration

EU DECLARATION OF CONFORMITY

Pressure equipment Warm water boiler 3l (2 rod)
Serial number PTP/D/00001-PTP/D/09999 , PTP/E/00001-PTP/E/09999
Year of production 2023
Drawing 02-851000R-00
Manufacturer Cmpny One Sp. z o.o., 42-674 Karcowice, PL

With this declaration of conformity the manufacturer declares

Object of declaration	Warm water boiler
Place	Coating
Max permitted pressure	2,3 bar
Max/min allowed temperature TS:	80 / 5 0C
Capacity	3,0 l
Substance	Water
Fluidity	2
Test pressure	4 bar
Test substance	Water
Hazard group	2014/68/WE

The product described above in this declaration of conformity is compliant with the relevant requirements of EU legislation.

Directive of the European parliament and council 2014/68/EU
Low-voltage directive 2006/95/WE
Directive 2000/53/EC on end of life vehicles
Council directive 98/83/EC on the quality of water intended for human consumption.
Electromagnetic compatibility 2014/30/EU

Reference to relevant harmonized norms or other technical specifications for conformity

EN 13445:2014
EN 60335-1
EN 60335-2-21
EN 55014,
Aktusz roboczy DVGW W270, wytyczne KTW

Signature of manufacturer

CE



Karcowice, 02.01.2023
Place and date of declaration

EU DECLARATION OF CONFORMITY

Pressure equipment Warm water boiler 6L (2 rod)
Serial number PTP/J/00001-PTP/J/09999 , PTP/J/00001-PTP/J/09999
Year of production 2023
Drawing 03-851000R-00
Manufacturer Cmpny One Sp. z o.o., 42-674 Karcowice, PL

With this declaration of conformity the manufacturer declares

Object of declaration	Warm water boiler 6l
Place	Coating
Max permitted pressure	2,3 bar
Max/min allowed temperature TS:	80 / 5 0C
Capacity	6,0 l
Substance	Water
Fluidity	2
Test pressure	4 bar
Test substance	Water
Hazard group	2014/68/WE

The product described above in this declaration of conformity is compliant with the relevant requirements of EU legislation.

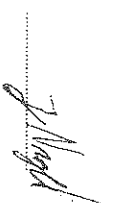
Directive of the European parliament and council 2014/68/EU
Low-voltage directive 2006/95/WE
Directive 2000/53/EC on end of life vehicles
Council directive 98/83/EC on the quality of water intended for human consumption.
Electromagnetic compatibility 2014/30/EU

Reference to relevant harmonized norms or other technical specifications for conformity

EN 13445:2014
EN 60335-1
EN 60335-2-21
EN 55014,
Aktusz roboczy DVGW W270, wytyczne KTW

Signature of manufacturer

CE



Karcowice, 02.01.2023
Place and date of declaration

EU DECLARATION OF CONFORMITY

Pressure equipment Warm water boiler 9L (2 rod)
Serial number PTP/N/00001-P/TP/N/09999 , PTP/O/00001-P/TP/O/09999
Year of production 2023
Drawing 04-851000R-00
Manufacturer Cimpyr One Sp. z o.o., 42-674 Karchowice, PL

With this declaration of conformity the manufacturer declares

Object of declaration	Warm water boiler 9l
Place	Coating
Max permitted pressure	2.3 bar
Max/min allowed temperature TS:	80 / 5 OC
Capacity	9,0 l
Substance	Water
Fluidity	2
Test pressure	4 bar
Test substance	Water
Hazard group	2014/68/WE

The product described above in this declaration of conformity is compliant with the relevant requirements of EU legislation.

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Low-voltage directive 2006/95/WE
Directive 2000/53/EC on end of life vehicles
Council directive 98/83/EC on the quality of water intended for human consumption.
Electromagnetic compatibility 2014/30/EU

Reference to relevant harmonized norms or other technical specifications for conformity

EN 13445:2014
EN 60335-1
EN 60335-2-21
EN 55014,
Arkusz roboczy DVGW WZ70, wytyczne KTW

CE

Signature of manufacturer



Karchowice, 02.01.2023

Place and date of declaration

EU DECLARATION OF CONFORMITY

Pressure equipment Warm water boiler 15L (2 rod)
Serial number PTP/R/00001-P/TP/R/09999 , PTP/P/00001-P/TP/P/09999
Year of production 2023
Drawing 05-851000R-00
Manufacturer Cimpyr One Sp. z o.o., 42-674 Karchowice, PL

With this declaration of conformity the manufacturer declares

Object of declaration	Warm water boiler 15l
Place	Coating
Max permitted pressure	2.3 bar
Max/min allowed temperature TS:	80 / 5 OC
Capacity	15,0 l
Substance	Water
Fluidity	2
Test pressure	4 bar
Test substance	Water
Hazard group	2014/68/WE

The product described above in this declaration of conformity is compliant with the relevant requirements of EU legislation.


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Electromagnetic compatibility 2014/30/EU

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EN 60335-1
EN 60335-2-21
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