



# Product Catalogue





### **Alde - The Intelligent Inventor**

Alde Rask founded the company in 1949. In his name and pioneering spirit we continue at the forefront to develop technical products focused on the comfort of those people enjoying the great outdoors in their caravan, motor home or boat. Our determined strategy is to continue to be a world leading supplier. Therefore our thoughts and philosophy are to strive for constant improvement in form and function, as well as even longer life for our products. Intrinsicly linked with this philosophy, is the high quality service we give to our customers.



### **Alde - The Pleasant, Quiet Warmth**

Alde hydronic heating works in synergy with the user to give a pleasant and quiet environment in which to spend their leisure time. Alde users enjoy comfortable humidity, even heat distribution, maximum efficiency, silent operation and minimal circulation of dust and allergens. Domestic hot water for taps and showers can also be obtained efficiently from hydronic systems, making them the premium choice whenever heating and hot water are required.



### **Alde - The Reliable Heating**

The Alde heating system's durability and longevity in use is legendary. How is this possible? Most probably it has to do with it's origin. Scandinavia is a cold, hard and sometimes unforgiving climate. Therefore we have to be sure we have a reliable product with a technical and engineering excellence that can perform faultlessly in all seasons.

In 1966 this seed of origin was sown and the first heating system was brought to the market. Since that time we have made tests every day to secure the enduring quality and effectiveness of our systems. Careful and ongoing attention is paid to the design process and procurement of quality parts and materials, so that our customers remain completely satisfied with their experience and will always come back to Alde.



### **Alde - The Warm Welcoming Company**

Our organisation and those persons working in the company are dedicated to building strong and long lasting relationships with our customers. We want you to experience a warm and welcoming contact with us and will gladly listen to your experiences, suggestions and points of view that can help us to continually improve. We are always here to help, together with our well developed retail and service network throughout Europe.

## Alde International Systems AB

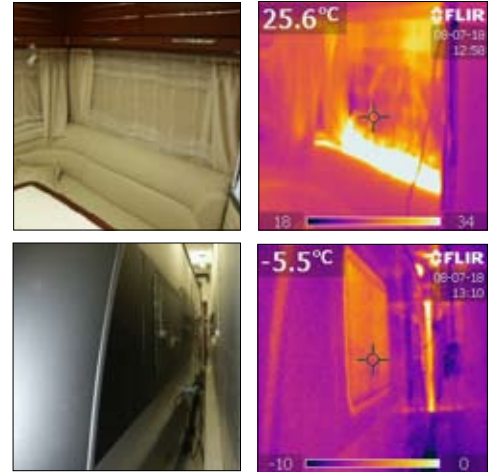
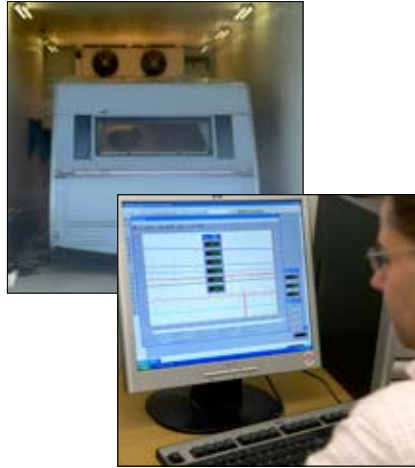
Alde was founded in 1949. From the companies beginning we have delivered quality engineered products for caravans, motor homes, work cabins and boats. The products have evolved with the market from the original Comfort boilers to the hi-tech engineering of today's Compact 3010HE boiler. Our record over 55 years in the industry is a guarantee of our unique consideration for our customers, and enduring quality of our products. Alde International Systems AB is certified in accordance with the ISO 9001:2000 quality standard

## Alde International UK

Alde UK is strategically located in Wellingborough Northamptonshire. The company provides technical, manufacturing, installation and service support to manufactures in the UK and Ireland. The Alde Service Care (ASCARE) department provides service, sales support and training for the end user and dealer network. You can visit Alde at any of the many exhibitions where you will be welcomed on to the stand.



Testing a caravan in Aldes cold chamber.



## www.alde.se and www.alde.co.uk

A printed product catalogue often has a limited life, and some products are changed immediately after the catalogue has been printed.

We try to keep our homepage updated all the time. As soon as our range is changed or a product is changed, we put this on our homepage.

Here you can also download PDF files of installation instructions and instructions for use, for most of Alde's products.

## DVD designed for the end user:

- General maintenance of the central heating and hot water system.
- What precautions to take over winter.
- Learning to use the control panel.

The DVD is a comprehensive guide to living with the Alde system, and now includes an interactive demo of the new Alde touchscreen control panel.



*In the process of continual improvement product design may change from that shown in this catalogue.*

More and more people are seeing the advantages of water-carried heating from Alde.  
 Silent, invisible, comfortable heating that is just there without being noticed – quality heating.  
 Our family is growing each year. But we want to be a big family. So welcome into the warmth.





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## Why choose an Alde system

- Efficient – Alde boiler with minimum LPG use and very low 12V power consumption.
- Space Saving - Increased usable storage space with one appliance and wall mounted radiators.
- Silent – The boiler operates quietly and unobtrusively with no noisy fans or motors.
- Comfort – Radiators maintain a warm even temperature throughout with no cold spots and minimal circulation of dust or allergen particles.
- Peace of mind – Alde manufactures warranty, no servicing required and outstanding service support.
- Versatile –The boiler operates using both 230V or LPG and can be linked with an engine heat exchanger for further benefits.
- Friendly –The Alde boiler operates quietly and cleanly with minimal disturbance to your neighbour or the environment.

Alde boilers and components are manufactured to the highest quality standards to provide reliable, long term service.

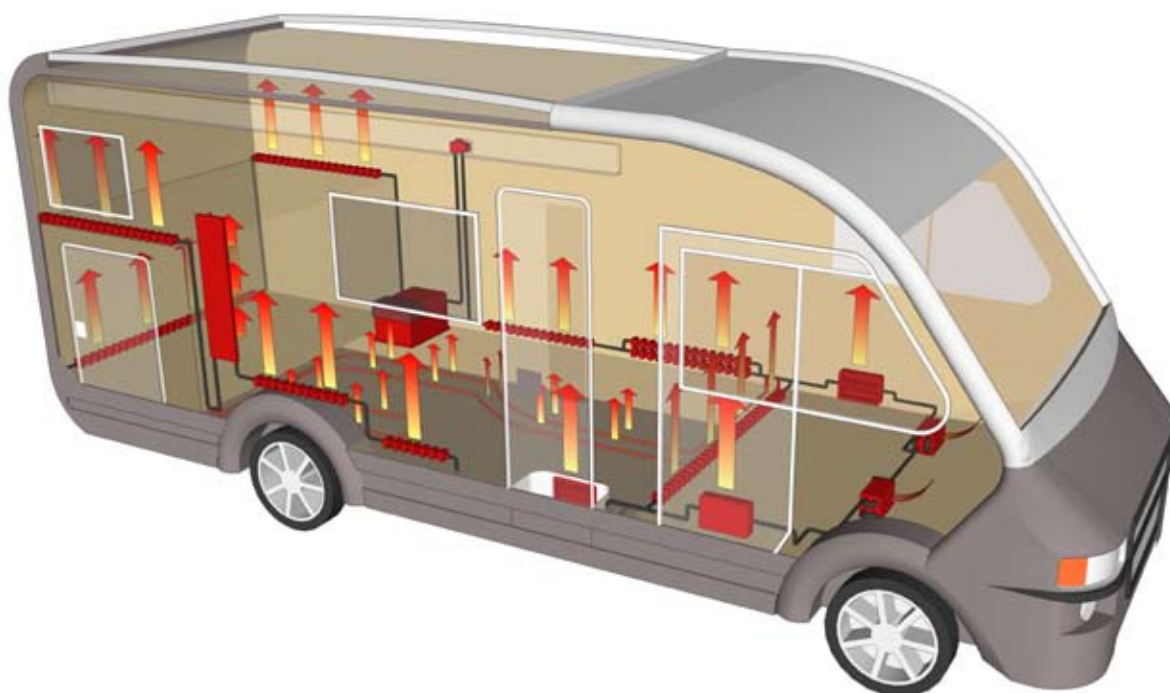
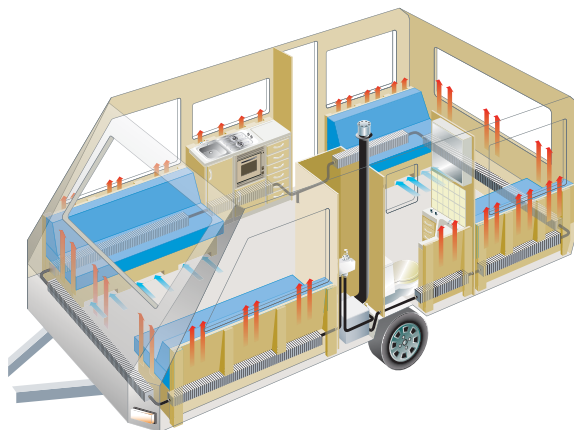
The Alde central heating system uses the same principles as those found in domestic systems in our homes.

Heat transfer fluid (HTF), a mixture glycol and water circulates around the convector system via a circulation pump.

The convectors situated around the perimeter, create a warm flow of air, rising to envelop the living space. Underfloor heating can also be installed if required. Ventilation is important, allowing fresh air to be admitted to the living space, this fresh air can be heated by the Alde convectors (see the diagram on the following page).

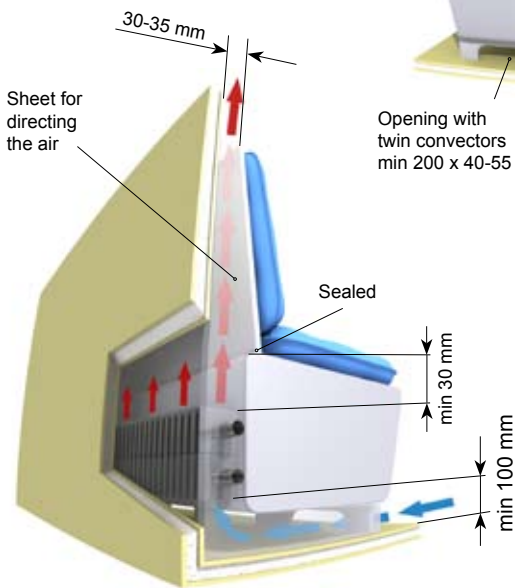
Correct installation will achieve optimum performance and provide the most comfortable environment free of draughts and cold spots.

- Convectors provide approximately 400 watts output per metre. Install enough convector to match the boiler performance output and your heating requirements in the living area.
- Install convectors under windows and along outer walls.
- Air should be able to pass freely under and behind fixed seating and beds.
- Ventilate upper fixed wall cupboards to achieve maximum air circulation.

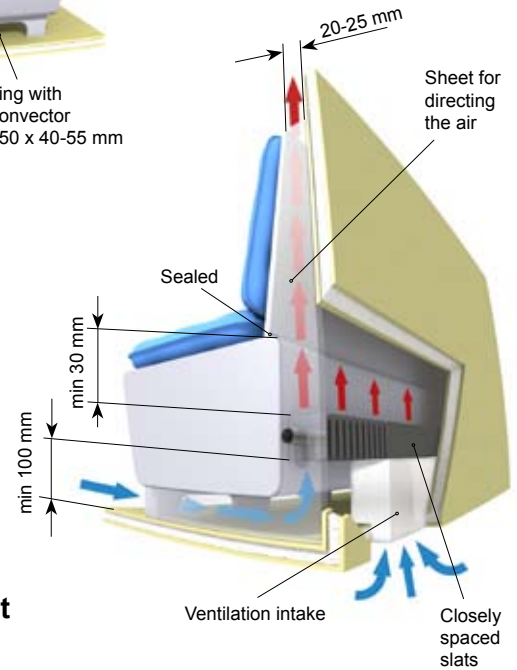


For the heating system to work optimally, it is important that the convectors should be installed in the right way. Below are given some examples of the most common ways of installing convectors and pipes. For further information regarding installation of heat transfer fluid (HTF) systems, see the installation guide at our homepage.

## Installation of twin convectors in bed case

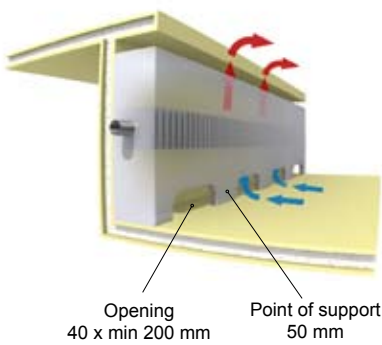


## Installation of convector and ventilation intake in bed case

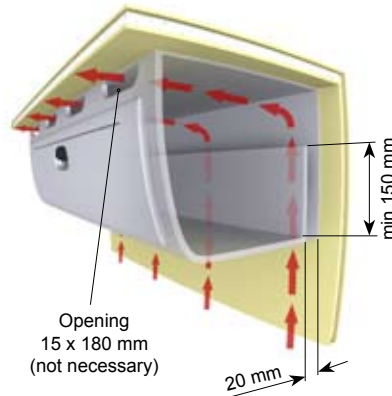


*N.B. No carpet over the openings*

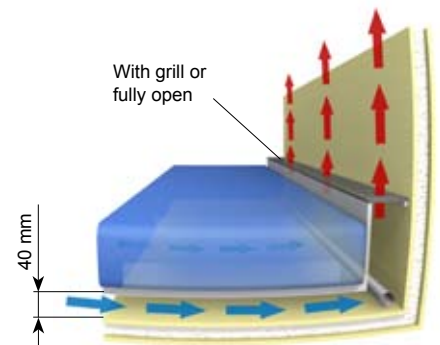
## Installation of convector at entrance of a motorcaravan



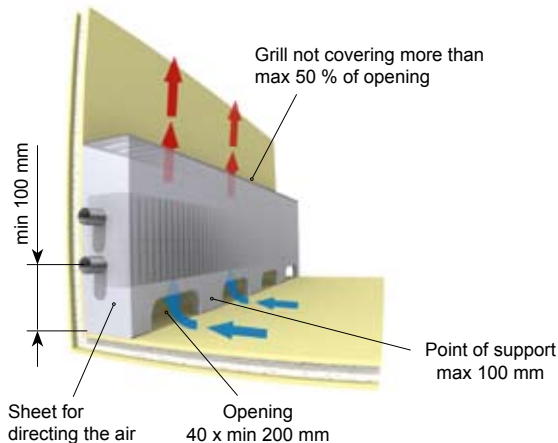
## Air circulation in cabinet



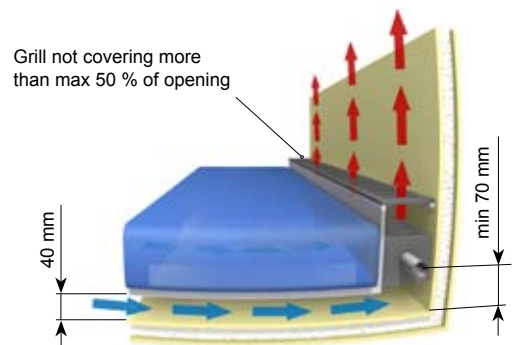
## Installation of heating pipes in the luton area



## Installation of twin convectors on wall



## Installation of convector in the luton area



## The heating system mobile living

The Alde 3010 Compact central heating and hot water boiler is the ideal choice for boat, motor home, caravan and portable accommodation applications. It offers a combined 8.5 kilowatt output giving plenty of hot water and is able to utilise up to 14 meters of Alde convector or six 1kW domestic panel radiators. The boiler automatically adjusts its power output to match demand to ensure maximum efficiency operating on either LPG or 230V.

All connections are located on the front of the boiler to allow a tidy installation that maximises usable space and location options. Side or roof flue terminals are available, linked to the boiler by a flexible flue which cools the exhausts gases giving further installation possibilities.

The glycol fluid is circulated silently around the heating system by the unique Alde 12V pump which works with the header tank to give a very low battery draw for extending trips away without electrical hook up. As the heated glycol solution passes through the system, the convectors give an even temperature throughout with minimum heat fluctuation, just like a modern central heating system found in a home.

## Boiler design

The Alde Compact 3010 boiler has been designed to deliver reliable superior heating in the toughest Scandinavian conditions. Testing and monitoring of quality parts and materials is ongoing and rigorous. The boiler consists of three eccentrically-fitted cylinders (heat exchanger, water jacket for the heating system and, outermost, water jacket for hot water).

The two outer pipes, and their ends and connections, are made of stainless steel, while the heat exchanger is made of aluminium.

The heat exchanger is divided into two semi-circles.

The burner is located in the upper half, being the combustion chamber, and the combustion gases are expelled through the lower half. The burner unit is fitted on the end of the heat exchanger. It consists of a combustion fan, burner, solenoid valve and intake/exhaust connections.

Two heating cartridges are fitted to the water jacket of the heating system.

**Art.No. 3010 9014** Compact boiler.

**Art.No. 3010 9013** Compact boiler with additional 230 V Pump.

*The two models above are standard models.*

*We also have customer-adapted models which are pre-assembled with, for example, water connections, automatic bleeding, circulation stop and 12- or 230-volt circulation pump.*

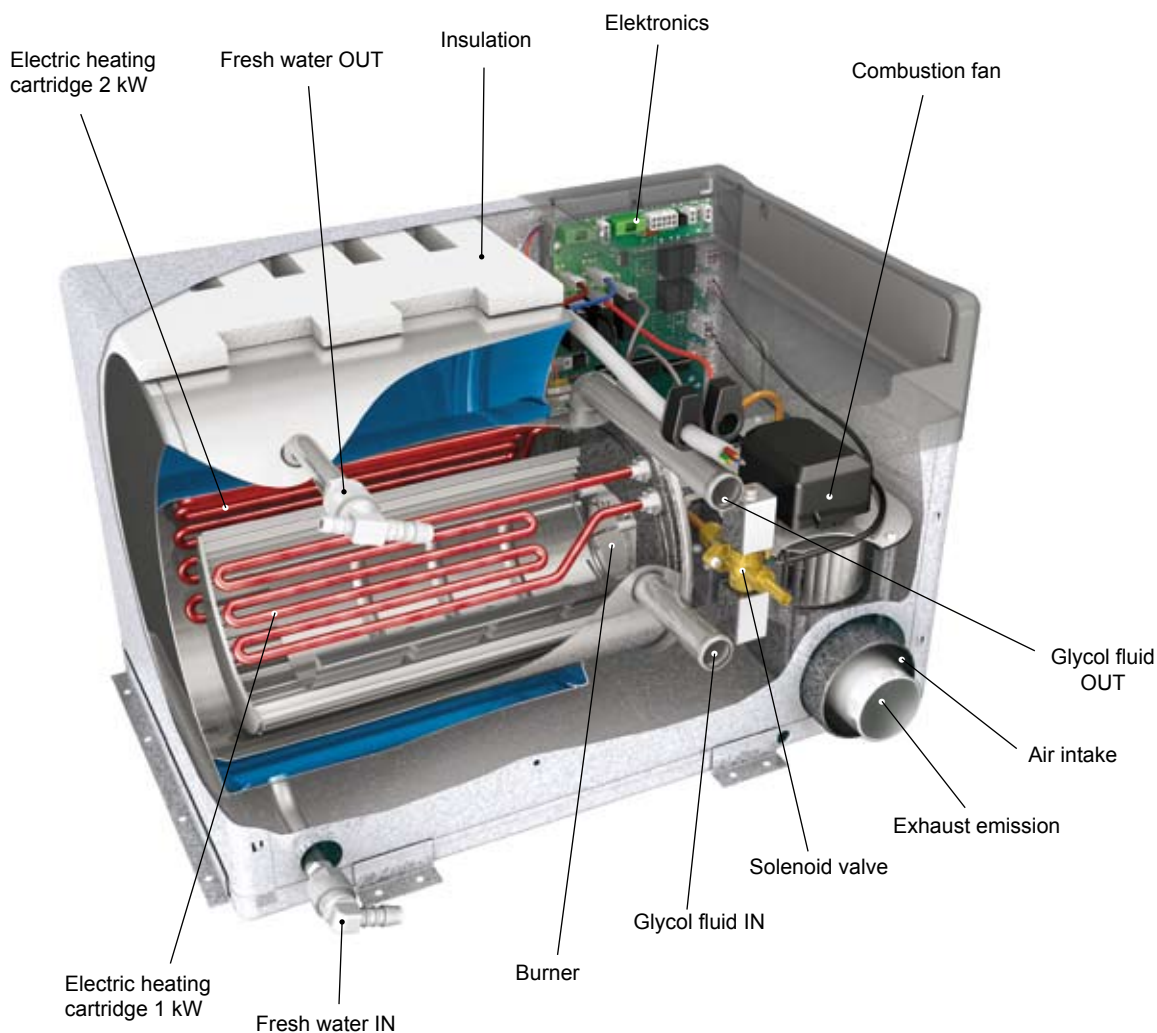
Standard model



Customer-adapted model with pre-assembled circulation pump, automatic bleeding and fresh water connections.

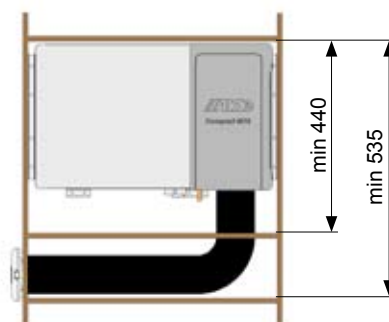
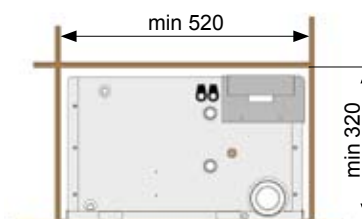






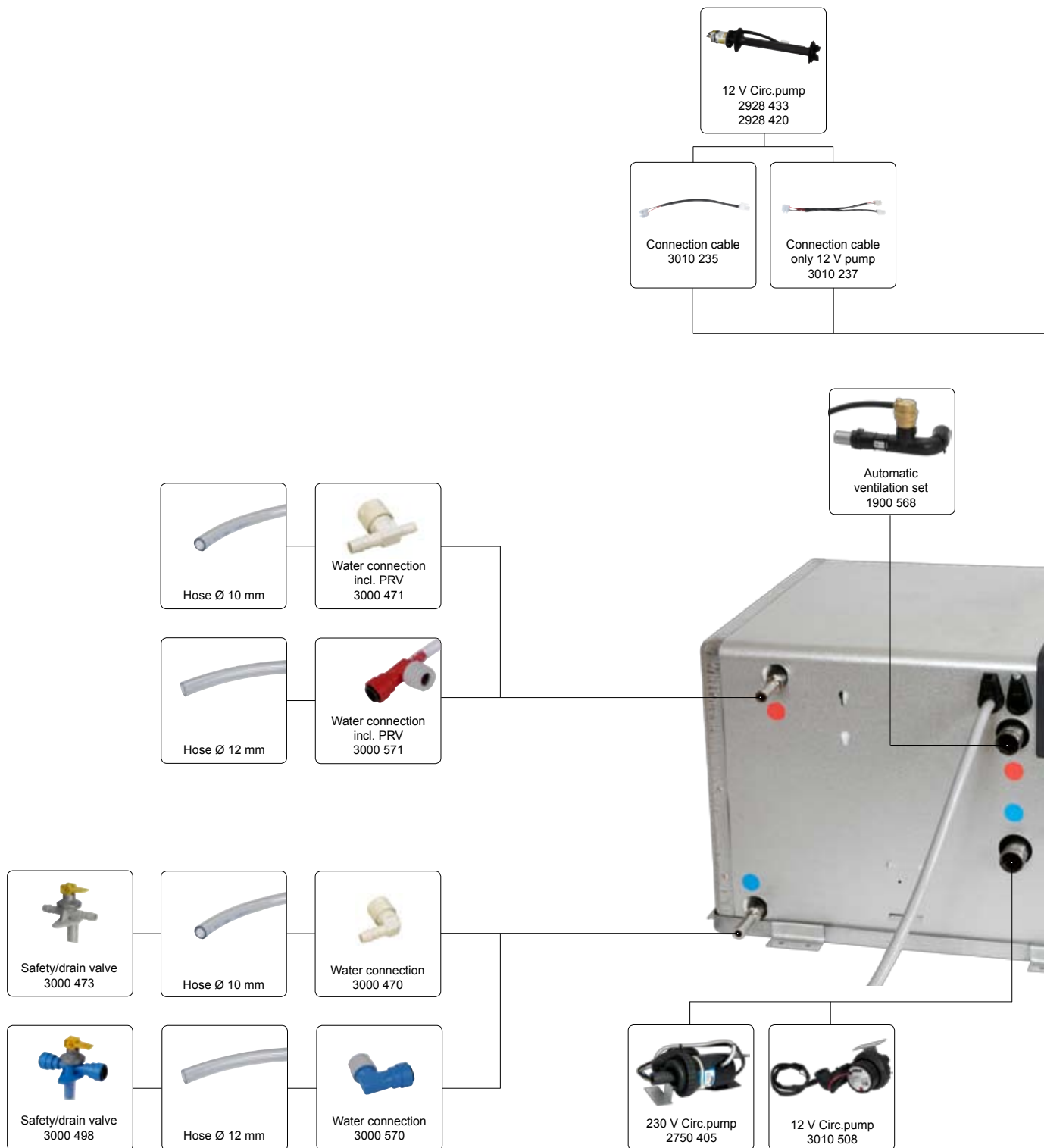
Technical data 3010		
Height:	310 mm	
Breadth:	340 mm	
Depth:	490 mm	
Weight:	14 kg (without fluid)	
Gas:	Propane	Butane
Output Step 1:	3,3 kW	3.8 kW
Gas consumption:	245 g/h	275 g/h
Output Step 2:	5,5 kW	6,4 kW
Gas consumption:	405 g/h	460 g/h
Gas pressure:	I <sub>3+</sub> 28-30/37 mbar	
	I <sub>3B/P</sub> 30 mbar	
Volume glycol fluid:	3,5 lt	
Volume fresh water:	8,4 lt	
Max. pressure glycol fluid:	0,05 MPa (0,5 bar)	
Max. pressure glycol fluid:	0,3 MPa (3,0 bar)	
System temperature:	max 85 °C.	
Output heating cartridge	1 x 1050 W (230 V ~)	
(2 or 3 kW):	1 x 2100 W (230 V ~)	
Power consumption 12 V DC:	1 amp (max)	

## Installation space



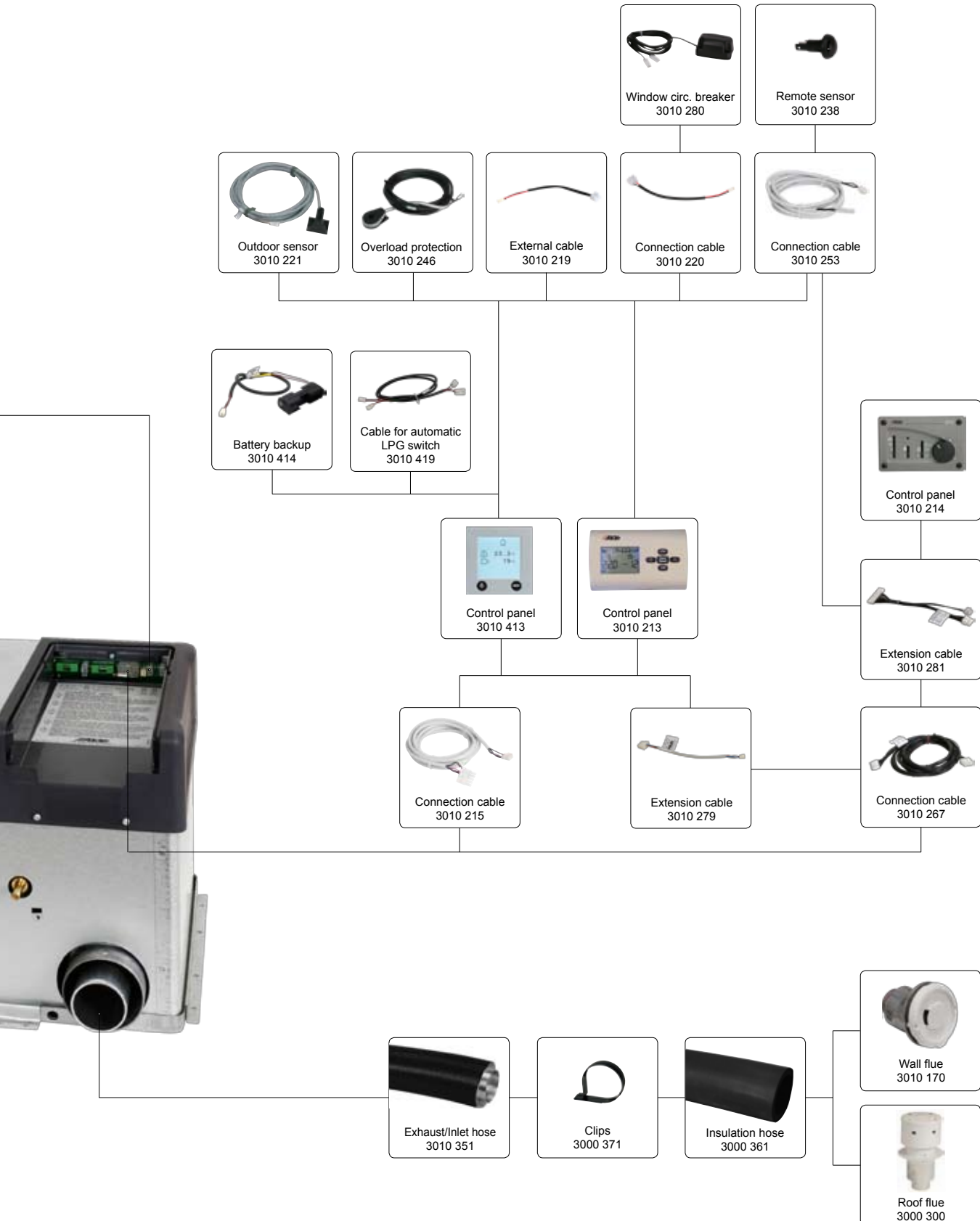
**In order to install and use the boiler, a number of assembly parts are required.**

- Flue, installed on the roof or on the wall.
- Intake hose, exhaust hose respectively (0,5 - 2,0 m for wall flue and 2,0 - 3,5 m for roof flue).
- Extension cable between the boiler and the control panel.
- Control panel, touch screen, LCD or mechanical.
- Extension cable between the boiler and 12 V circulation pump.
- 12 V circulation pump.
- Ventilation set and drainage pipe, recommended for all boilers.
- Nipples for the fresh water connections.
- Safety/drain valve which is installed on the fresh water hose.



**There are additional accessories for refining and improving the boiler.**

- Outdoor sensor.
- Remote room temperature sensor.
- Overload protection.
- Cable for external start of the boiler, for example, mobile start.
- 230 V circulation pump.





### Connection cable for circulation pump

Connection cable between boiler and 12 V circulation pump. Length 0,2 m.

**Art.No. 3010 209**



### Connection cable

Cable for connecting a 12 V circulation pump to the boiler. Is used when only the 12 V circulation pump is used in the heating system. Length 0,2 m.

**Art.No. 3010 237**



### Cable for external start

Cable for external start of the boiler, for example, mobile start. For connection to control panel 3010 213. Length 0.2 m.

**Art.No. 3010 219**



### Connection cable for battery backup

Cable for connecting control panel 3010 213 to the vehicle's battery. Is used in order that the clock setting will remain in the memory when the vehicle's main breaker is switched off. Length 0.2 m.

**Art.No. 3010 313**



### Battery backup

Battery backup for control panel 3010 413. Facilitates saving set time in the memory of the panel, also when the main switch of the vehicle is disconnected. Length 0.2 m.

**Art.No. 3010 414**



### Cable for automatic LPG switch

For control panel 3010 413 together with Truma LPG switch DuoComfort.

The control panel shows which LPG bottle that is in operation. Also for control of the defroster EisEx, which prevents ice formation in the regulator. Length 10 m.

**Art.No. 3010 419**

## Remote room temperature sensor

Enables the control panel to be located in any position, remote sensor overrides control panels sensor.

**Art.No. 3010 238** Sensor.

**Art.No. 3010 226** Cabel. Length 0,5 m.

**Art.No. 3010 253** Cabel. Length 2,0 m.

**Art.No. 3010 254** Cabel. Length 8,0 m.



## Outdoor sensor

Sensor with cable for measuring outdoor temperature. For control panel 3010 213 / 413.

**Art.No. 3010 221** Length 2.5 m.

**Art.No. 3010 222** Length 5,0 m.



## Overload protection

Is used to limit ingoing power to the vehicle. Steps the electrical cartridge power down if the load is excessive. For control panel 3010 213 / 413.

**Art.No. 3010 246**



## Window circuit breaker

Switches off the boiler if the window is opened. For control panel 3010 213 / 413.

**Art.No. 3010 280** Window circuit breaker.

**Art.No. 3010 220** Connection cable. Length 0.2 m





### Connection cable

Connection cable between boiler and control panel 3010 213 / 413.

**Art.No. 3010 215** Length 2,5 m.

**Art.No. 3010 216** Length 5,0 m.

**Art.No. 3010 217** Length 8,5 m.



### Connection cable

Connection cable between boiler and extension cable 3010 281.

**Art.No. 3010 267** Length 2,5 m.

**Art.No. 3010 277** Length 5,0 m.

**Art.No. 3010 278** Length 8,5 m.



### Extension cable

Extension cable between control panel 3010 214 and connection cable 3010 267. Connection to remote sensor cable. Length 0.25 m.

**Art.No. 3010 281**



### Extension cable

Is used when control panel 3010 214 replaces 3010 213 / 413 in order to avoid changing the connection cable from the boiler. Length 0.25 m.

**Art.No. 3010 279**

## Control panel

Control panel with "Touch-Screen". The new control panel works intuitively, giving the operator main function and program control in the minimum of steps.  
Size: 88 x 87 mm.

**Art.No. 3010 413**



## Control panel

Control panel with LCD and electronic thermostat. A completely new panel with many different functions, which include a lit up display, lowering of temperature at night, outdoor temperature, electrical prioritisation and various service functions.

Size: 80x130 mm.

**Art.No. 3010 213**



## Control panel

Switch for controlling electrical heating cartridge, LPG boiler and circulation pump. Gives priority to the boiler's electrical heating cartridge. If the electrical heating cartridge is not sufficient, the LPG boiler starts.

Size: 73 x 116 mm.

**Art.No. 3010 214**



## Assembly frame

Used when changing from control panel 3010 213 to 3010 214 in order to cover the existing aperture.

Size: 133 x 90 mm.

**Art.No. 3010 261**

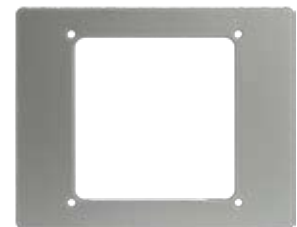


## Assembly frame

Used when changing from control panel 3010 213 to 3010 413 in order to cover the existing aperture.

Size: 125 x 100 mm.

**Art.No. 3010 417**



## Programmable Room Thermostat

A useful addition to any heating system. A programmable room thermostat adds controllability and efficiency in an attractive digital package. The TP5000 features 6 time and temperature settings per day. Also incorporated is a frost stat for when the vehicle is left unattended.

*Only available from Alde International UK*

**Art.No. TP5000**





### Wall flue

Flue for side installation. Delivered with hose clips for exhaust hose and inlet hose.  
Size of hole Ø 83 mm.

**Art.No. 3010 170**



### Wall flue cap

Cap in different colors for wall flue 3010 170.

**Art.No. 3010 374** Light grey

**Art.No. 3010 373** Medium grey

**Art.No. 3010 371** Dark grey

**Art.No. 3010 372** Black



### Aluminium roof flue

Roof flue including hose clips for exhaust- and inlethose. Internal diameter 76 mm. Max. roof thickness 60 mm. Height above roof, 95 mm.

**Art.No. 3000 300**



### Brass roof flue

Roof flue including hose clips for exhaust- and inlethose. Internal diameter 76 mm. Max. roof thickness 60 mm. Height above roof, 95 mm.

**Art.No. 3000 650**



### Extension pipe

Extension pipe for roof flue for winter camping.  
Extends the flue by 200 mm.

**Art.No. 3000 320**



## Hose set for flue

Exhaust hose Ø 50,5 mm in six-sided aluminium.  
 Inlet hose Ø 75 mm in aluminium.  
 Permitted length of hose for side flue 0,5-2,0 m  
 and for roof flue 2,0-3,5 m.

- Art.No. 3010 351** Length 0,7 m
- Art.No. 3010 352** Length 0,97 m
- Art.No. 3010 353** Length 1,45 / 1,5 m
- Art.No. 3010 354** Length 1,95 / 2,0 m
- Art.No. 3010 355** Length 2,45 / 2,5 m



## Inlet hose

Inlet hose Ø 75 mm in aluminium.  
 Permitted length of hose for side flue 0,5-2,0 m  
 and for roof flue 2,0-3,5 m.

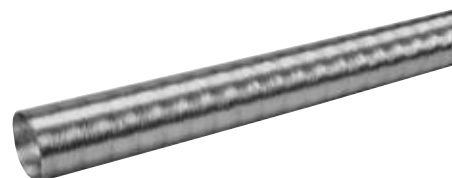
- Art.No. 3000 360** Per metre.



## Exhaust hose

Exhaust hose Ø 50,5 mm. Permitted length of hose for  
 side flue 0,5-2,0 m  
 and for roof flue 2,0-3,5 m.

- Art.No. 3000 359** Aluminium, per metre.
- Art.No. 3000 350** Stainless steel, per metre.



## Insulation hose

Insulation hose Ø 80 x 13 mm. Is mounted on the inlet  
 hose in order to reduce noise from fan and boiler opera-  
 tion. Delivered in two-metre lengths.

- Art.No. 3000 361**



## Clips

Clips for securing inlet hose. The hose should be fas-  
 tened at c/c 60 cm.

- Art.No. 3000 371**





### Safety/drain valve

Combined safety valve and drain cock. The safety valve opens at 3.5 bar. When draining water from the heater, the yellow lever is pushed upwards. Is mounted on the boilers return connection.

**Art.No. 3000 473** Ø 10 mm hose connection.

**Art.No. 3000 498** Ø 12 mm connection (John Guest).



### Domestic water connection

Angle with built-in non-return valve which allows air in when the heater is drained. For hot water. Incl. 0,5 m hose for air in.

**Art.No. 3000 471** Ø 10 mm hose connection.

**Art.No. 3000 571** Ø 12 mm connection (John Guest).



### Domestic water connection

Angle 90° for cold water.

**Art.No. 3000 470** Ø 10 mm hose connection.

**Art.No. 3000 570** Ø 12 mm connection (John Guest).



### Floor inlet

Floor inlet for air hoses and draining hoses from the expansion tank and boiler. Ø 32 mm.

*(The hoses are not included, only for the illustration).*

**Art.No. 1900 565**



### Rubber connection

Rubber connection with automatic venting and non-return valve to prevent auto-circulation in the heating system.

**Art.No. 1900 568**

## Expansion tank

Expansion tank including wall-mounting, mounting nuts for circulation pump and drainage hose. Reversible for adaptation to the heating system's pipes.

**Art.No. 3000 420**



## Protective cover

Protective cover in light grey plastic, for mounting in front of the expansion tank. Also protects the circulation pump. Only fits expansion tank 3000 420. Size ca 700 x 200 mm.

**Art.No. 3000 440**



## Expansion tank

Expansion tank for corner installation including wall-mounting, mounting nuts for circulation pump and drainage hose. Larger volume than 3000 420, is therefore used for larger heating systems in caravans, motor homes, boats, etc.

**Art.No. 3000 495**



## Protective cover

Protective cover in light grey plastic, for mounting in front of the expansion tank. Only fits expansion tank 3000 495. Size ca 710 x 250 mm.

**Art.No. 3000 640**



## Rubber lid

Rubber lid for expansion tank when not using 12 V pump into the tank.

**Art.No. 3000 416**

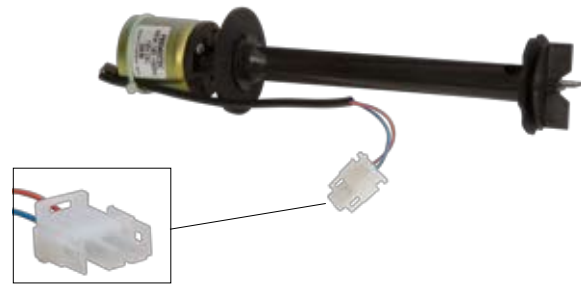




### Circulation pump

Circulation pump for installation in the expansion tank 3000 420 and 3000 495. Screw plinth.  
Power consumption 0,2 A.

**Art.No. 2928 433**



### Circulation pump

Circulation pump for installation in the expansion tank 3000 420 and 3000 495. Quick connector.  
Power consumption 0,2 A.

**Art.No. 2928 420**



### Circulation pump

Circulation pump for installation to Compact 3010. Integrated overheating protection.  
Power consumption 12 Volt: 0,25 - 1,9 A.  
Ø 22 mm connection.

**Art.No. 3010 508**



### Circulation pump

Circulation pump for Ø 22 mm heating system. 2 W.

**Art.No. 0808 202**

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## Circulation pump

Circulation pump for installation to Compact 3010.  
Ø 22 mm connection.

**Art.No. 2750 405**



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## Circulation pump

Circulation pump for installation on wall. Complete with rubber joint, clip, mounting and cable. 12 V control.  
Ø 22 mm connection.

**Art.No. 2750 407**



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## Circulation pump

Circulation pump for Ø 22 mm heating system.  
Weight 1,6 kg.

**Art.No. 2750 300**



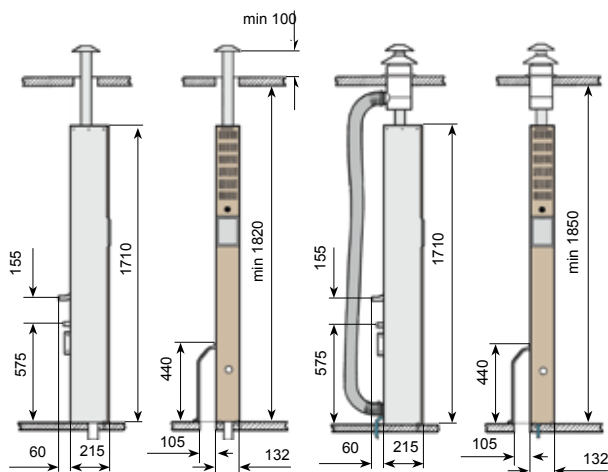


2923 910

2928 904

**Installation space  
2923**

**Installation space  
2928**



The Comfort range offers excellent reliability and is popular on Boats and Caravans.

The boiler always burns with a "pilot flame", while heating of the glycol mixture is taken care of by the main burner. The temperature of the liquid in the boiler can be regulated between 35 – 75 °C and thus adjusted to the outside temperature.

The Comfort 2923 takes in combustion air from underneath, and emits the exhaust via a flue on the roof, while 2928 takes in combustion air in the outer roof pipe, and leads down via a hose to the combustion space. The exhaust is emitted through the inner pipe in the same flue. This means that it is not necessary to make a hole for the inlet pipe in the floor. Because combustion air and exhaust go in and out through the same flue, there is the same pressure on the inlet air as on exhaust gases (balanced draught).

Electrical heating cartridge power is selected, with changeover switch and circuit breaker on the control panel and circulation pump.

The Comfort boilers are ready for mounting of electrical heating cartridge 2772 925 and water heater 2959 901.

- The Alde Comfort boiler 2928 is a room sealed balanced flue boiler which complies to EC / Boat safety scheme regulations.
- Very low 0,2 amp drain on batteries.
- Very quiet non intrusive operation.
- Utilise Engine heat via a calorifier or engine heat exchanger.
- Clean and healthy minimum Fuss operation with very low service costs.

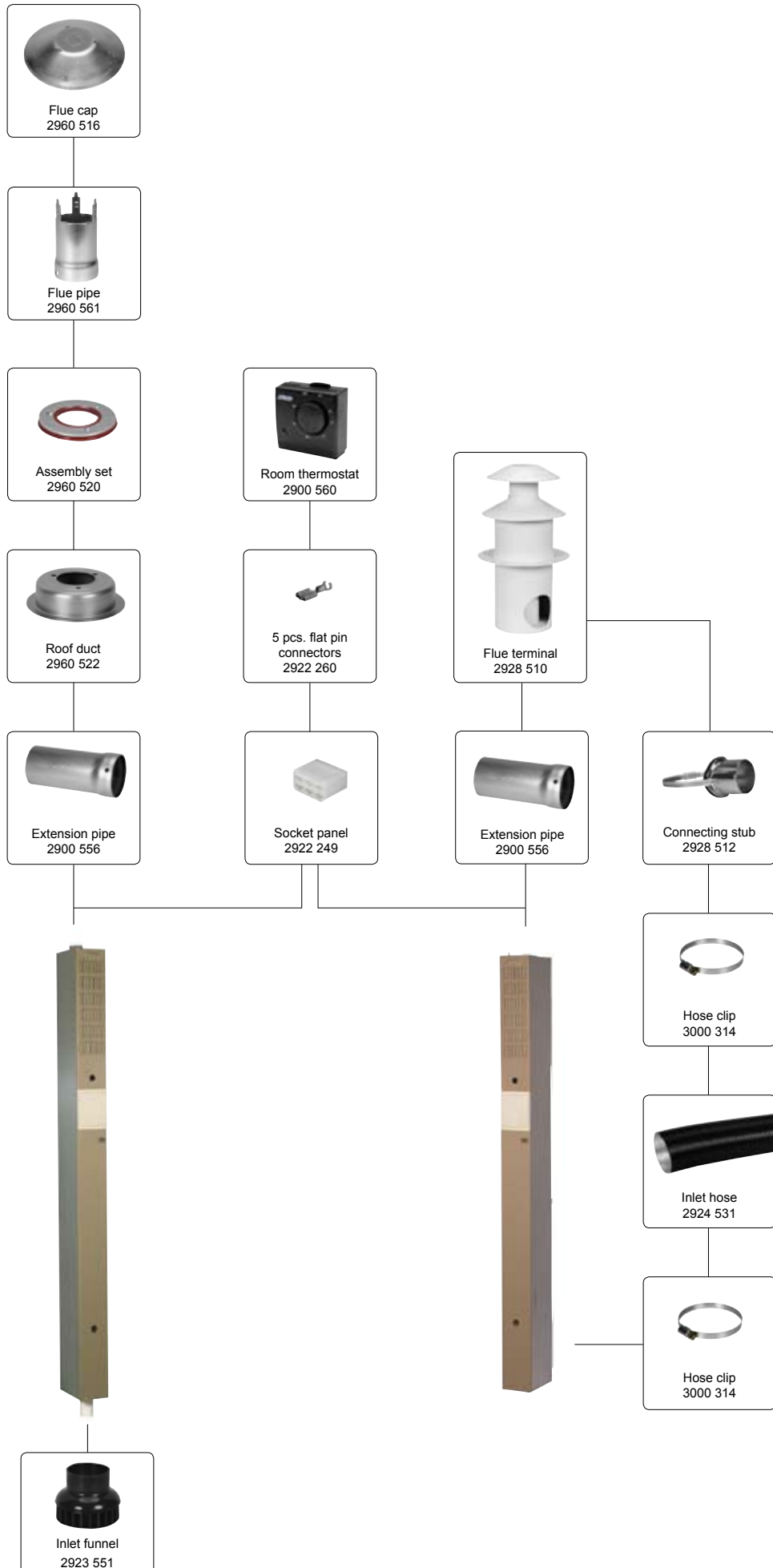
**Art.No. 2923 910** LPG boiler 2923.

**Art.No. 2928 904** LPG boiler 2928.

### Technical data 2923 / 2828

Gas:	Propane	Butane
Gas pressure:	30 mbar	
Output:	5400 W	6200 W
Max. gas consumption:	420 g/h	480 g/h
Power consumption:	0-0,2 A	
Liquid volume:	2,6 lt	
Boiler weight:	17 kg	
Weight complete:	17,5 / 20 kg	

Size	Size of boiler	Min. inst. space
Height:	1710 mm	1820 / 1850 mm
Breadth:	132 mm	132 mm
Depth:	220 mm	310 / 350 mm





### Flue cap

Flue cap for mounting on flue pipe 2960 561.

**Art.No. 2960 516**



### Flue pipe

Flue pipe with three bendable tongues for the flue cap 2960 516. Is mounted on the extension pipe.

Length 110 mm.

**Art.No. 2960 561**



### Extension pipe

Is mounted between the boiler and the flue pipe on 2923, and between the boiler and the flue on 2928.

The pipe is cut to the correct length. Can also use as a extension on the inlet pipe on Comfort 2923.

**Art.No. 2900 556** Length 130 mm.

**Art.No. 2960 562** Length 500 mm.

**Art.No. 2900 549** Length 1000 mm.



### Assembly set

Assembly set for roof duct.

To be mounted on the roof of the vehicle.

**Art.No. 2960 520**



### Roof duct

Roof duct for extension pipe.

Outlet in roof  $\varnothing$  125 mm.

**Art.No. 2960 522** Height 26 - 30 mm.

**Art.No. 2960 524** Height 36 - 40 mm.



### Inlet funnel

Inlet funnel for combustion air for 2923. Is attached to the inlet pipe under the boiler.

**Art.No. 2923 551**



**Flue terminal**

Flue with balanced draught for Comfort 2928.  
Outlet in roof Ø 120 mm.

**Art.No. 2928 510**

Connection piece for inlet hose on flue.  
Is fastened to the flue.

**Art.No. 2928 512**



**Flue terminal UK marine**

Flue with balanced draught for 2928.  
Outlet in roof Ø 120 mm.

**Art.No. 2928 600** Flue terminal.

**Art.No. 2924 525** Fastening ring.

**Art.No. 2924 523** Flue cap, lower.

**Art.No. 2960 516** Flue cap, upper.



**Hose clip**

Hose clip for inlet hose 2924 531.

**Art.No. 3000 314**



**Inlet hose**

Inlet hose for 2928. L = 2300 mm. Ø 65 mm.

**Art.No. 2924 531**



**Socket panel and flat pin connectors**

Socket panel for 12 V power connection on the boiler.

**Art.No. 2922 249**

Flat pin connectors for the socket panel.

**Art.No. 2922 260**



**Room thermostat 12 V**

Room thermostat for Comfort boilers.

**Art.No. 2900 560**





### Electric heater

Electrical heating cartridge in stainless steel without circulation pump. For mounting on Alde's Comfort boiler. Control via the Comfort boiler's panel.

Assembly set: extension cable, rubber elbow, clip and anchor plate.

**Article No. 2772 911**



### Electric heater

Electrical heating cartridge in stainless steel with 230 V circulation pump. For mounting on Alde's Comfort boiler. Control via the Comfort boiler's panel.

Assembly set: extension cable, rubber elbow, clip and anchor plate.

**Article No. 2772 921**

**Article No. 2772 925** with UK plug



### Electric heater

Electrical heating cartridge in stainless steel with 230 V circulation pump.

Built-in transformer 230V > 12 V for power supply to the room thermostat. Control of room temperature and choice of power takes place via the room thermostat.

Assembly set: Room thermostat, 4 m cable to room thermostat and anchor plate.

**Article No. 2772 901**

Technical data	
Length:	400 mm (290 without motor)
Height:	150 mm
Width:	90 mm
Weight:	2,3 kg (1,8 kg without motor)
Rated voltage:	230 V ~
Element power:	2100 W (2 x 1050 W)
Motor power:	23 W
Connection pipe:	Ø 22 mm
Volume glycol fluid:	0,8 lt
Max. pressure glycol fluid:	0,05 MPa ( 0,5 bar)

## Hot water heater 2959

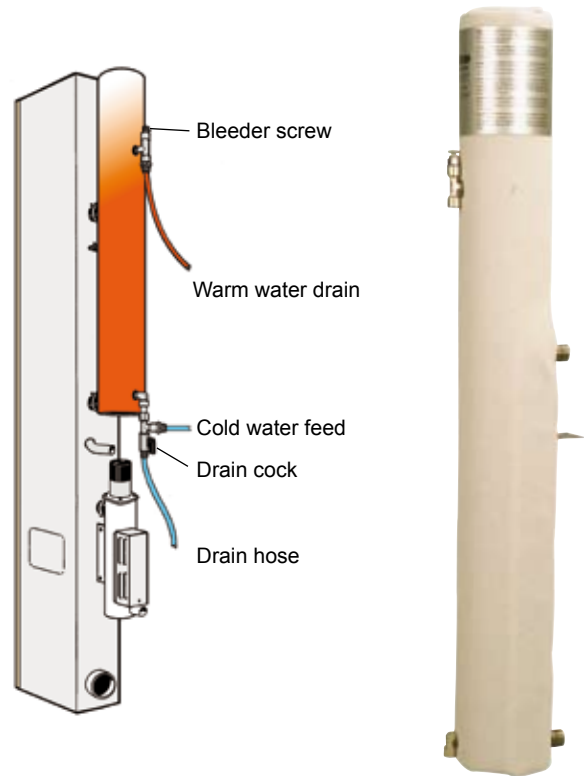
Hot water heater of storage type with fresh water cistern in stainless steel. The entire heater is insulated for maximum heat retention.

Suitable for Comfort boilers 2923 and 2928, which have four connecting pipes on the back of the boiler.

The capacity is ca. 12 litres 40° C water at maximum usage. The heating time is ca. 30 minutes when the boiler is working on gas.

**Art.No. 2959 901**

Technical data	
Weight:	4,5 kg.
Height:	950 mm.
Extends ca. 190 mm behind the boiler.	
Liquid volume:	ca 7 liter.



## Assembly set for 2959

Assembly set for hot water heater type 2959 for installation behind the Comfort boiler.

**Art.No. 2959 806**



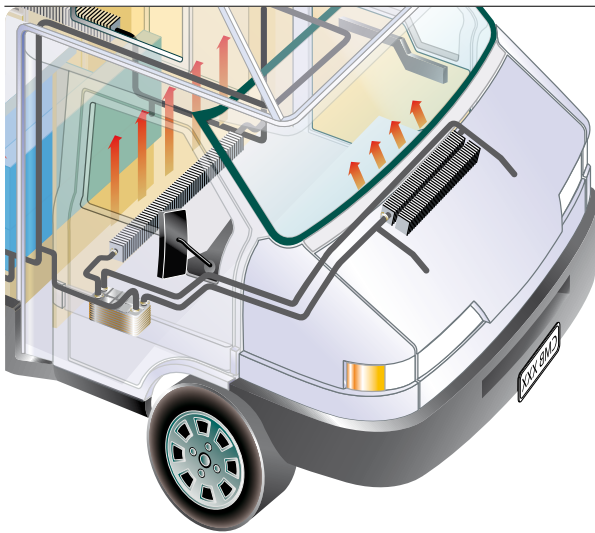
## Twin-Coil Marine Calorifier

So you have a large fresh water reservoir aboard and want to heat more of it? The Alde twin-coil marine calorifier stores and heats up to 40 litres of hot water via connections to the heating circuit, engine cooling system and a 230 V immersion heater. Designed specifically for marine use, the calorifier is made from stainless steel in a watertight plastic casing and can be mounted anywhere with its integral brackets.

**Art.No. 9-93123**

Technical data	
Dimensions:	H 358 x L 660 x B 366 mm
Weight:	11 kg
Capacity:	40 L
Max power output:	800 W
Rated voltage:	230 V ~
Insulation:	30 mm polyurethane





## Heat exchanger

The radiator system of the vehicle's engine can be used for heating the living area by use of a heat exchanger in combination with Alde's central heating system. All that is necessary is to set the required room temperature on the room thermostat and start the circulation pump in the heating system.

The heat can also be circulated in the opposite direction together with a circulation pump (2755) on the engine side. It then functions as an engine heater thanks to the fact that the central heating system heats up the engine's cooling system.

*When installing the heat exchanger, the manufacturer or importer should be consulted so that the engine is not damaged.*

**Art.No. 2968 901**



### Technical data

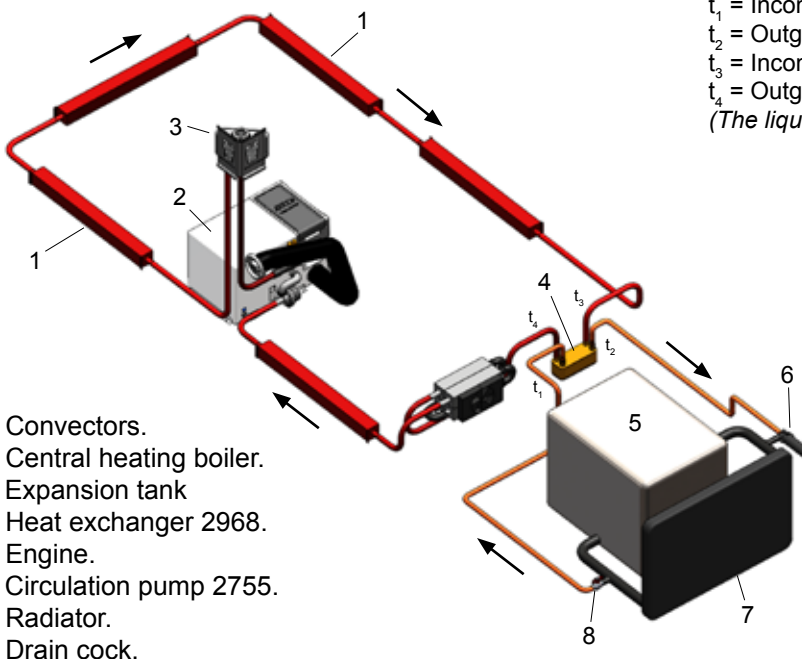
Size:	L 190 x B 82 x H 65 mm (inc. conn)
Weight:	1,3 kg
Connection to the heating system	Ø 22 mm
Connection to the engine system:	Ø 16 mm
Power:	see diagram below



## Heat exchanger

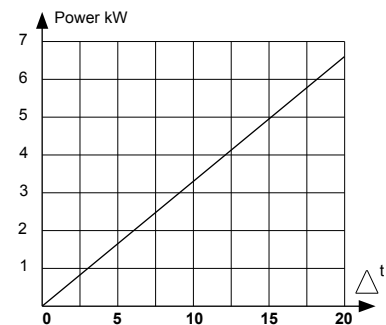
Heat exchanger with ready-mounted nipples for Ø 16 mm hose and drain cock.

**Art.No. 2968 912**



1. Convectors.
2. Central heating boiler.
3. Expansion tank
4. Heat exchanger 2968.
5. Engine.
6. Circulation pump 2755.
7. Radiator.
8. Drain cock.

$t_1$  = Incoming liquid temp. (vehicle's cooling system)  
 $t_2$  = Outgoing liquid temp. (vehicle's cooling system)  
 $t_3$  = Incoming liquid temp. (central heating system)  
 $t_4$  = Outgoing liquid temp. (central heating system)  
*(The liquid consists of 50% water and 50% glycol.)*



$$\Delta t \left[ \frac{t_1 + t_2}{2} \right] - \left[ \frac{t_3 + t_4}{2} \right]$$

## Bracket

Bracket for heat exchanger.

**Art.No. 2968 303**



## T-pipe

T-pipe. Ø 16 mm hose connection.

**Art.No. 2968 304**



## Radiator hose

Radiator hose reinforced, per metre, Ø 16 mm.

**Art.No. 2968 302**



## Rubber elbow

Rubber elbow 150 x 150 mm. Ø 16 mm.

**Art.No. 2968 301**



## Assembly set

Assembly set with rubber angles, clips and holder for heat exchanger 2968 901.

**Art.No. 2968 300**



## Circulation pump 12 V DC

12 V circulation pump of centrifugal type. Permanent magnetic motor with bearings. Is used when the central heating system and the heat exchanger are to function as an engine heater. Assembled so that the thermostat of the motor does not restrict circulation.

**Art.No. 2755 000**



Technical data	
Hose connection:	Ø 16 mm
Max. flow with 0.1 bar :	15 l/min
Motor output:	14 W

## Circulation pump 24 V DC

24 V circulation pump of centrifugal type. Permanent magnetic motor with bearings. Is used when the central heating system and the heat exchanger are to function as an engine heater. Assembled so that the thermostat of the motor does not restrict circulation.

**Art.No. 2755 100**



Technical data	
Hose connection:	Ø 20 mm
Max. flow with 0,15 bar:	22,5 l/min
Motor output:	26 W



### Towel heater

Towel heater in chrome plated steel tubing which is assembled directly into the normal central heating system. For Ø 22 mm heating system.

**Art.No. 1900 610**

Holder for towel heater, chrome plated.

**Art.No. 1900 615**

Technical data	
Height:	700 mm
Breadth:	440 mm
Weight:	1,1 kg



### Towel heater

Alde has developed an exclusive towel heater for bathrooms and toilets. The new towel heater is traditionally constructed for practical hanging up of towels and has a high performance heat output.

The installation dimensions of the towel heater are designed for caravans, motor homes and boats.

It is produced in steel, powder lacquered in RAL 9016 and equipped with a thermostat for regulation of the temperature. The connections are 22 mm and it is delivered complete with adjustable wall holders. Assembly depth adjustable (48-70 mm) between wall and towel heater.

**Art.No. 1900695** Without thermostat

**Art.No. 1900696** With thermostat

Technical data	
Output:	200 W
Height:	825 mm
Width:	300 mm
Weight:	5,1 kg



### Panel radiator

Designed panel radiator in aluminium. Suitable for confined spaces such as toilets, wardrobes, in which it is difficult to install an ordinary convector. Includes bleeder screw on top.

For Ø 22 mm heating system.

**Art.No. 1900 686** 500 mm White RAL 9016

**Art.No. 1900 687** 500 mm Silver RAL 9006

**Art.No. 1900 680** 700 mm White RAL 9016

**Art.No. 1900 681** 700 mm Silver RAL 9006

Technical data	
Output:	110 / 150 W
Height:	500 / 700 mm
Width:	220 mm
Weight:	1,7 / 2,4 kg

### Booster with fan

A compact heating package consisting of four specially manufactured aluminium convectors with a powerful fan. For Ø 22 mm heating system.

**Art.No. 1900 635** Booster.

**Art.No. 1900 655** Control panel.



Technical data	
Size:	L 250 x H 151 x B 126 mm.
Output:	500 W at DT= 50 °C.
Voltage:	10 - 14 V DC.
Power consumption:	200 mA.
Weight:	1,3 kg.

### Fan convector

A compact heating package consisting of a specially manufactured, tightly packed convector with two 12 volt fans. Efficient in such places as drying cabinets.

**Art.No. 1900 665**



Technical data	
Size:	L 250 x H 80 x B 63 mm.
Output:	180 W at DT= 50 °C.
Voltage:	10 - 14 V CC.
Power consumption:	300 mA.
Weight:	0,33 kg.

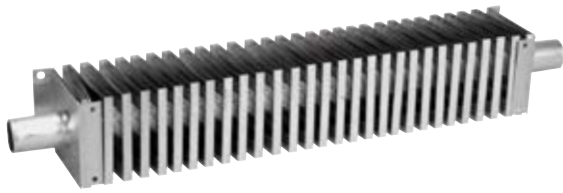
### Fan package for convectors

The fan package is mounted under a convector where extra heat and increased airflow are needed. For maximum heating power, the fan package should be mounted on a tightly packed convector.

**Art.No. 1900 660**



Technical data	
Size:	L 175 x H 40 x B 63 mm.
Voltage:	10 - 14 V DC.
Power consumption:	300 mA



### Convectors

Convectors in Aluminium including mountings.  
42 per package.

- Art.No. 1900 433** Length 1800 mm.
- Art.No. 1900 381** Length 1600 mm.
- Art.No. 1900 382** Length 1300 mm.
- Art.No. 1900 383** Length 1000 mm.
- Art.No. 1900 384** Length 700 mm.
- Art.No. 1900 385** Length 400 mm.

Technical data	
Height including mounting:	60 mm
Depth including mounting:	65 mm
Output:	400 W/m
Weight:	0,6 kg/m
Pipe:	Ø 22 mm



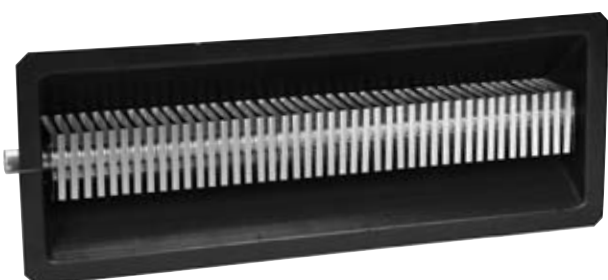
### Convectors

Convector in Aluminium for special applications.  
Including plastic holders.

- Art.No. 1900 081** Length 400 mm
- Art.No. 1900 082** Length 600 mm
- Art.No. 1900 083** Length 1000 mm
- Art.No. 1900 084** Length 1200 mm

**Art.No. 1900 597** Rubber sleeve Ø 16 > 22 mm

Technical data	
Height including mounting:	44 mm
Depth including mounting:	36 mm
Output:	180 W/m
Weight:	0,4 kg/m
Pipe:	Ø 16 mm



### In-built convector

Convector in aluminium for recessing in stowage compartments, etc. For Ø 22 mm heating system.  
Power approx. 400 watt/m.  
For maximum output, make the air intake ca. 5 - 10 mm bigger than the outlet.

- Art.No. 1900 456** 305 mm
- Art.No. 1900 457** 555 mm
- Art.No. 1900 458** 805 mm



Technical data	1900 456	1900 457	1900 458
Height including frame:	205 mm	205 mm	205 mm
Length including frame:	305 mm	555 mm	805 mm
Pipe length:	336 mm	577 mm	830 mm
Depth:	65 mm	65 mm	65 mm
Weight:	0,3 kg	0,5 kg	0,75 kg



## Convector protector

Convector protector of anodized aluminium. To be mounted in front of the convectors as protection in stowing areas, garages etc.

**Art.No. 1900 671** 800 mm

**Art.No. 1900 674** 1600 mm



## End for Convector protector

End for convector protector. Also serves as a joint between two convector protectors. Made of ABS plastic.

**Art.No. 1900 684**

### Technical data

Length:	800 / 1600 mm
Height:	112 mm
Depth:	71 mm



## Convector protector

Convector protector in powder-coated structured aluminium plate. Is mounted on the convector's holder or separate holder 1900 126.

Fits convector 1900 384.

Height 120 mm.

Length 800 mm.

**Art.No. 1900 013**



## Cable channel

For cables and laying hoses above convectors. Upper section that can be opened, is closed via snap-lock. Grey PVC.

**Art.No. 1900 560**

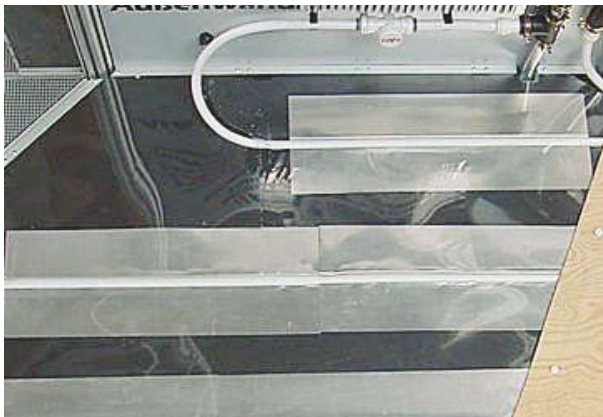
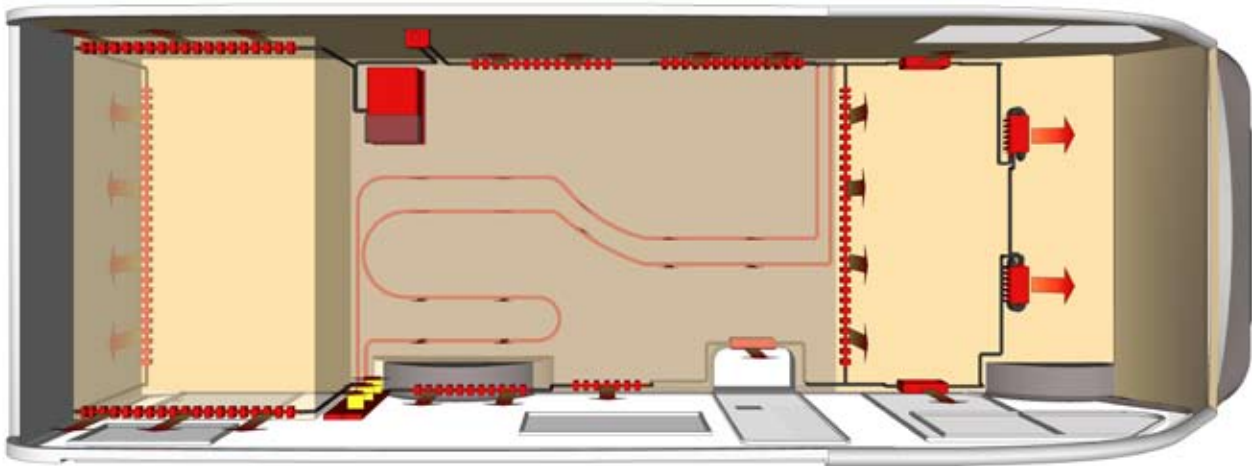
Holder for cable channel.

**Art.No. 1900 149**



### Technical data

Length:	2100 mm
Height:	72 mm
Depth:	50 mm (80 mm including holder)



### Floor heating

It is possible to connect floor heating in already existing Alde heaters as well as in new-built vehicles. The "PE-X, -aluminium-, PE-X" pipe, Ø 12 x 2 mm, is easy to lay and to fit into the special floor plates. The pipe is connected to the inlet and return sides of the heater by means of a rubber-T 1900 504 or rubber-Y 1900 502 and the reducer fitting 1500 201. The Ø 12 mm pipe can be connected with the Ø 15 mm pipe connections at the reducer fitting, stop cock and socket by means of adapter 1500 200. For adjustment or shut-off of the floor heating, the stop cock should be installed.



### Pipe connection

Pipe connection from Ø 22 mm heating system to Ø 12 mm floor heating system. For two pipe system. Length 110 mm. **Art.No. 1900 187**



### Pipe connection

Pipe connection from Ø 22 mm heating system to Ø 12 mm floor heating system. For three pipe system. Length 150 mm. **Art.No. 1900 141**



### Pipe connection

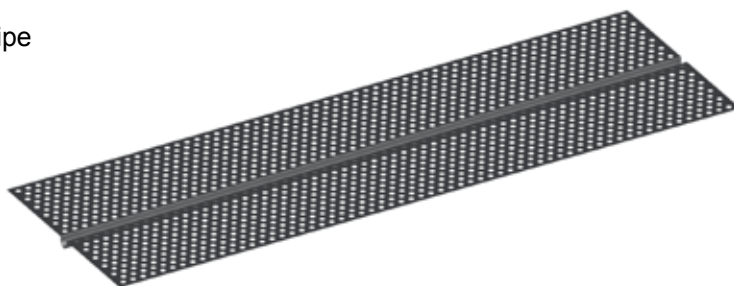
Pipe connection from Ø 22 mm heating system to Ø 12 mm floor heating system. For two pipe system. Length 100 x 100 mm. **Art.No. 1900 140**

## Floor plate

Floor plate of aluminium with a groove for the pipe (Ø 12 pipe).

**Art.No. 1500 300** 1000 x 180 x 0,3 mm

**Art.No. 1500 305** 1000 x 315 x 0,3 mm



## Pipe

“PE-X, -aluminium-, PE-X” pipe Ø 12 mm floor heating pipe.

**Art.No. 1500 100**



## Reducer

Reducer for Ø 12 mm pipe to Ø 15 mm connections.

**Art.No. 1500 200**



## Reducer

Reducer for rubber joints and pipe adapter. Ø 22 x 15 mm.

**Art.No. 1500 201**



## Stop cock

Stop cock, 2 x Ø 12 mm.

**Art.No. 1500 202**



## Connector

Connector 2 x Ø 12 mm.

**Art.No. 1500 203**



## Connector

Connector 90°, 2 x Ø 12 mm.

**Art.No. 1500 204**



## Locking clip

**Art.No. 1500 210** 12 mm

**Art.No. 1500 211** 15 mm





### Mounting

Mounting in aluzinc for convector and convector protector.

**Art.No. 1900 126**



### Mounting

Mounting in aluminium for Ø 22 pipe and convectors.

**Art.No. 1900 146**



### Support for convectors

Centre support for long convectors.

**Art.No. 1900 147**



### Floor mounting

Floor mounting in aluminium for pipe and convector.  
150 mm c/c.

**Art.No. 1900 168**



### Clip

Clip in stainless steel for Ø 22 mm pipe.

**Art.No. 1900 114**



### Double clip

Double clip with scw union for rubber connections.

**Art.No. 1900 129**



### Double clip

Double clip for rubber connections. 750 st/förp.

**Art.No. 1900 120**



### Clip

Band clip for maximum strength and sealing of rubber fastenings.

**Art.No. 1900 176**



### Pliers

Special pliers with locking for clip 1900 176.

**Art.No. 1900 178**



### Closing pliers

Pliers with lock. Used for clamping rubber hoses when mounting and dismantling products on heating systems without draining the glycol mixture.

**Art.No. 1900 172**



### Sealing compound

Loctite 5923 liquid elastic sealing compound.  
Is used on such things as joints between rubber connections and pipes. Volume 117 ml.

**Art.No. 1900 174**

*All part sizes are given as c/c size*

## Aluminium pipe

Aluminium pipe Ø 22x1 mm. Per metre.  
Length 5 m.

**Art.No. 1900 301**



## Connector pipe

Connector pipe in aluminium Ø 22x1 mm.  
25 st/förp.

**Art.No. 1900 119**



## T-pipe

T-pipe in galvanised steel pipe.  
72 x 42 mm. Ø 22 mm.

**Art.No. 1900 248**



## T-pipe

T-pipe in galvanised steel pipe.  
110 x 60 mm. Ø 22 mm.

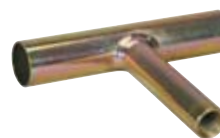
**Art.No. 1900 148**



## T-pipe

T-pipe in galvanised steel pipe with 3/8"R muff for drain  
cock. 110 x 80 mm. Ø 22 mm.

**Art.No. 1900 155**



## Drain cock

Drain cock 3/8"R in brass. Length 40 mm.

**Art.No. 1900 191**



## Connector pipe with bleeder screw

Pipe in galvanised steel pipe with bleeder screw.  
Length 110 mm. Ø 22 mm.

**Art.No. 1900 125**



## Pipe bend

Pipe bend 90° in galvanised steel pipe. Ø 22 mm.

**Art.No. 1900 164** 100 x 100 mm.

**Art.No. 1900 165** 500 x 500 mm.



## Pipe bend

Pipe bend 90° in galvanised steel pipe with bleeder  
screw. Size 100 x 100 mm. Ø 22 mm.

**Art.No. 1900 179**



## Pipe bend

Pipe bend 90° in galvanised steel pipe with bleeder  
screw. Size 200 x 200 mm. Ø 22 mm.

**Art.No. 1900 201**





**Extended bleeder screw**  
Hose with bleeder screw. Length 300 mm.  
**Art.No. 1800 300**



**Bracket**  
Bracket for rubber hose.  
**Art.No. 1900 127**



**Nipple**  
Nipple for Ø 22 mm hose. 3/4" R.  
**Art.No. 1900 104**



**Ball valve cock**  
Brass ball valve cock. 3/4" R int.  
**Art.No. 1900 159**



**Rubber hose**  
Rubber hose. EPDM 21,4 x 4,25 mm. Per metre.  
25 m/roll.  
**Art.No. 1900 002**



**Rubber joint**  
Rubber joint. EPDM 21,4 x 4,25 mm.  
Length 45 mm.  
**Art.No. 1900 113**



**Rubber joint**  
Rubber joint. EPDM 21,4 x 4,25 mm.  
Length 70 mm.  
**Art.No. 1900 112**  
With mounted spring clips. 25 per package.  
**Art.No. 1900 528**



**Rubber joint**  
Rubber joint with bleeder screw.  
EPDM 21,4 x 4,25 mm. Length 100 mm.  
**Art.No. 1900 516**  
With mounted spring clips. 25 per package.  
**Art.No. 1900 526**



**Rubber joint with non-return valve**  
In order to counteract auto-circulation in the heating system. Is mounted with the expansion tank.  
EPDM 21,4 x 4,25 mm. Length 105 mm.  
Complete with mounted spring clips.  
**Art.No. 3000 529**



**Blanking plug**  
Blanking plug. EPDM 21,4 x 4,25 mm.  
Length 30 mm.  
**Art.No. 1900 030**

All part sizes are given as c/c size

## Rubber drain

Rubber joint, T-shaped for drain.  
EPDM 21,4 x 4,25 mm. Size 120 x 122 mm.

**Art.No. 1900 512** Rubber-T.

**Art.No. 1900 513** Spring clip.

**Art.No. 1900 514** Brass plug.

**Art.No. 1900 518** Complete with spring clips and plug.



## Hose reduction

Hose reduction 16 - 21,4 mm. EPDM.  
Length 70 mm.

**Art.No. 0714 871**



## Hose reduction

Hose reduction 19 - 21,4 mm. EPDM.  
Length 70 mm.

**Art.No. 1900 540**

With mounted spring clips. 25 per package.

**Art.No. 1900 541**



## Hose reduction

Rubber elbow 90° with reduction 19 - 21,4 mm. EPDM.  
Size: 62 x 62 mm.

**Art.No. 3000 509**

With mounted spring clips. 25 per package.

**Art.No. 1900 531**



## Rubber elbow

Rubber elbow 90°. EPDM 21,4 x 4,25 mm.  
Size 62 x 62 mm.

**Art.No. 1900 003**

With mounted spring clips. 25 per package.

**Art.No. 1900 523**



## Rubber elbow

Rubber elbow 90°. EPDM 21,4 x 4,25 mm.  
Size 150 x 150 mm.

**Art.No. 1900 008**

With mounted spring clips. 25 per package.

**Art.No. 1900 218**



## Rubber elbow

Rubber elbow 90°. EPDM 21,4 x 4,25 mm.  
Size 200 x 200 mm.

**Art.No. 1900 004**

With mounted spring clips. 25 per package.

**Art.No. 1900 529**



## Rubber elbow

Rubber elbow 90° with bleeder screw.  
EPDM 21,4 x 4,25 mm. Size 62 x 62 mm.

**Art.nr: 1900 006**

With mounted spring clips. 25 per package.

**Art.No. 1900 520**





### Rubber joint

Rubber joint, T-shaped with bleeder screw.  
EPDM 21,4 x 4,25 mm.  
Size 50 x 50 mm. Height 115 mm.

**Art.No. 1900 509**

With mounted spring clips. 25 per package.

**Art.No. 1900 517**



### Rubber joint

Rubber joint, T-shaped with bleeder screw.  
EPDM 21,4 x 4,25 mm.  
Size 50 x 60 mm. Height 160 mm.

**Art.No. 1900 571**

With mounted spring clips. 25 per package.

**Art.No. 1900 557**



### Rubber joint

Rubber joint, U-shaped.  
EPDM 21,4 x 4,25 mm.  
Size 60 x 60 mm.

**Art.No. 1900 505**

With mounted spring clips. 25 per package.

**Art.No. 1900 525**



### Rubber joint

Rubber joint, U-shaped with bleeder screw.  
EPDM 21,4 x 4,25 mm.  
Size 60 x 60 mm.

**Art.No. 1900 515**

With mounted spring clips. 25 per package.

**Art.No. 1900 545**



### Rubber joint

Rubber joint, Y-shaped.  
EPDM 21,4 x 4,25 mm.  
Size 130 x 60 mm.

**Art.No. 1900 502**

With mounted spring clips. 25 per package.

**Art.No. 1900 522**



### Rubber joint

Rubber joint, Y-shaped with bleeder screw.  
EPDM 21,4 x 4,25 mm.  
Size 130 x 60 mm.

**Art.No. 1900 511**

With mounted spring clips. 25 per package.

**Art.No. 1900 521**



*All part sizes are given as c/c size*

## Rubber joint

Rubber joint, T-shaped.  
EPDM 21,4 x 4,25 mm.  
Size 100 x 50 mm.

**Art.No. 1900 504**

With mounted spring clips. 25 per package.

**Art.No. 1900 524**



## Rubber joint

Rubber joint, S-shaped.  
EPDM 21,4 x 4,25 mm.  
Size 100 x 100 x 100 mm.

**Art.No. 1900 111**

With mounted spring clips. 25 per package.

**Art.No. 1900 530**



## Rubber joint

Rubber joint, S-shaped.  
EPDM 21,4 x 4,25 mm.  
Size 100 x 250 x 100 mm.

**Art.No. 1900 110**

With mounted spring clips. 25 per package.

**Art.No. 1900 519**



## Rubber joint

Rubber joint, S-shaped.  
EPDM 21,4 x 4,25 mm.  
Size 200 x 200 x 200 mm.

**Art.No. 1900 580**

With mounted spring clips. 25 per package.

**Art.No. 1900 577**



## Rubber joint

Rubber joint, U-shaped.  
EPDM 21,4 x 4,25 mm.  
Size 100 x 400 x 100 mm.

**Art.No. 1900 578**

With mounted spring clips. 25 per package.

**Art.No. 1900 589**



## Rubber joint

Rubber joint, U-shaped with bleeder screw.  
EPDM 21,4 x 4,25 mm.  
Size 100 x 400 x 100 mm.

**Art.No. 1900 590**

With mounted spring clips. 25 per package.

**Art.No. 1900 579**



## JG Speedfit 12 mm PM Fittings and LLDPE Tube

An ideal solution for the installation of fresh water systems into Boats, Motor homes and Caravans. This tried and tested system using 12 mm Tube is easy to plumb and the color coding makes routing easy to follow. Simple and reliable push fit connectors allow a build to be completed quickly and professionally.



### Straight Adaptor / BSP Thread

Art.No. PM011213E 12 mm OD x 3/8 BSP  
 Art.No. PM011214E 12 mm OD x 1/2 BSP



### Straight Adaptor / BSPT Thread

Art.No. PM011203E 12 mm OD x 3/8 BSPT  
 Art.No. PM011204E 12 mm OD x 1/2 BSPT



### Reducer

15 mm Stem OD x 12 mm Pipe OD  
 Art.No. PM061512E



### Equal Straight Connector

12 mm OD  
 Art.No. PM0412E



### Equal Elbow

12 mm OD  
 Art.No. PM0312E



### Stem Elbow

12 mm OD  
 Art.No. PM221212E



### Equal Tee

12 mm OD  
 Art.No. PM0212E



### Bulkhead Connector

12 mm OD  
 Art.No. PM1212E



### Female Coupler

Art.No. PKM3201W 15 mm OD x 1/2 BSP



### Reducing connector

Art.No. PM201512W 15 mm OD x 12 mm OD



### Non return Valve 12 mm

Art.No. A70020-35 12 mm OD

**Plug**

12 mm OD

**Art.No. PM0812R**



**Collet Covers**

Prevent accidental release of Tube from Joint.

**Art.No. PM1912R** 12 mm OD Red

**Art.No. PM1912B** 12 mm OD Blue



**Professional Tube Cutter**

A Sturdy, telescopic tube cutter with wide twin grooved guide rollers for cutting close to flared ends. Cuts Copper, Aluminium. Tube 3-28 mm. Leaves clean, flush end helping prevent leaks.

**Art.No. 70010**



**LLDPE Tube**

Strong but flexible. JG LLDPE Tubing is suitable for use with Super Speedfit Push in Fittings and virtually all standard tubing connectors.

**Art.No. PE-1209R** 12 mm OD x 9 mm ID Red

**Art.No. PE-1209B** 12 mm OD x 9 mm ID Blue



**TEFEN Nylon Hose Couplings**

These heavy duty couplings are ideal for use in the installation of the engine vehicle heat exchanger or any other automotive application.

**Straight Hose Connector**

16 mm ID

**Art.No. PN2016**



**Elbow Hose Connector**

16 mm ID

**Art.No. PN1816**



**Reducing Elbow Hose Connector**

19 mm ID - 16 mm ID

**Art.No. PN171916**



**Tee Hose Connector**

16 mm ID

**Art.No. PN2316**



**Reducing Tee Hose Connector**

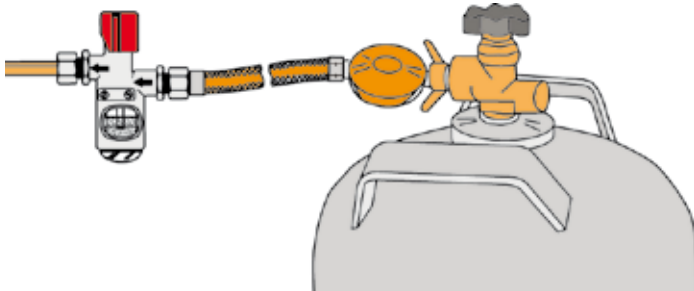
19 mm ID - 16 mm ID

**Art.No. PN241916**



## Leak detectors

A simple and important security component which should be installed on all LPG systems. The LPG system is easily tested with Alde's leak detector by depressing the red cap.



## Leak detector

Leak detector with  $\varnothing$  8 mm pipe connections. Including nozzles for  $\varnothing$  8 mm hose, glycol fluid and screws.

Size: H 95 x D 30 mm. Weight 0,2 kg.

**Art.No. 4071 805**



## Leak detector

Leak detector with  $\varnothing$  8 mm pipe connections. Including nozzles for  $\varnothing$  10-12 mm hose, glycol fluid and screws.

Size: H 95 x D 30 mm. Weight 0,2 kg.

**Art.No. 4071 806**



## Leak detector

Leak detector with  $\varnothing$  8 mm pipe connection IN and  $\varnothing$  10 mm OUT. Including glycol fluid and screws.

Size: H 95 x D 30 mm. Weight 0,2 kg.

**Art.No. 4071 807**



## Leak detector

Leak detector with  $\varnothing$  10 mm pipe connection IN and  $\varnothing$  10 mm OUT. Including glycol fluid and screws.

Size: H 95 x D 30 mm. Weight 0,2 kg.

**Art.No. 4071 808**



**Gas alarm GasFinder 1**

A new alarm that consists of a central unit with separate sensors mounted on a 4-metre cable. The Gasfinder is equipped with a transient detector which means that the alarm is not triggered in voltage transients, for example, when the engine is started or when the battery charger is switched on or off.

The Gasfinder also has a built-in relay which can control external units, for example, a solenoid valve that can be closed remotely for automatic closure of the LPG flow in the case of an alarm.

The sensor is primarily sensitive to the LPG gases, iso-butane and propane. Is also sensitive to anaesthetic gases.

**Art.No. 4073 400**



Technical data	
Voltage:	12 - 14 V DC
Power consumption:	140 mA
Size:	110 x 63 x 30 mm

**Alde Filler / Bleed Pump Kit**

The Alde service pump is an unbeatable aid for filling Alde heating systems. The unit allows the operator to quickly fill and remove air from even the largest heating system in minutes. It is an essential tool for service centres and dealers working with Alde systems.

**Art.No. 1900 811**







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