



**wallas<sup>®</sup>**

## **Wallas 85DP / 85DU**

Installation, operation and service instructions  
Montage-, Anwendungs-, und Wartungsanleitungen  
Monterings-, användnings- och serviceanvisningar  
Asennus-, käyttö- ja huolto-ohjeet  
Installatie, bediening en service handleiding





Figure 1: SafeFlame 85DU



Figure 2: SafeFlame 85DP

### Content of the package

#### 85DU:

- 1 pc Device
- 1 pc Control panel
- 1 pc Auxiliary bag
- 4 m Power cord
- 4 m Fuel hose with filter
- 2 pc Mounting pieces

#### 85DP:

- 1 pc Device
- 1 pc Auxiliary bag
- 4 m Power cord
- 4 m Fuel hose with filter
- 2 pc Mounting pieces

#### Content of the auxiliary bag:

- 4 pcs 85DP mounting screw 4.2 x 13
- 2 pcs 85DP locking screw M5x 8
- 2 pcs 85DU control panel screw 3.5 x 13
- 4 pcs 85DU mounting piece screw M6 x 12
- 4 pcs 85DU tightening screw M6 x 30
- 4 pcs 85DU protection plug
- 4 pcs 85DU locking nut M6
- 1 pc Hose clamp
- 1 pc Fuse box bag

**Operation**

SafeFlame 85D is a modern diesel stove with no open flame. The stove extracts combustion air from the boat and blows the exhaust gases overboard.

The exhaust gas will carry indoor moisture out of the boat. Therefore when the stove is used, the cabin air is replenished so the boat and stays warm and dry.

As the fuel burns, the resulting heat is blown up under the left side of the ceramic top, then moves to the right. The hottest area is on the left side, while the right side provides gentler heat. The heat volume is seamlessly adjustable using the control knob. The stove is ideally suited for cooking and heating of all kinds of food.

The stove is made entirely of corrosion resistant materials.

*Table 1: Technical details of 85D stove.*

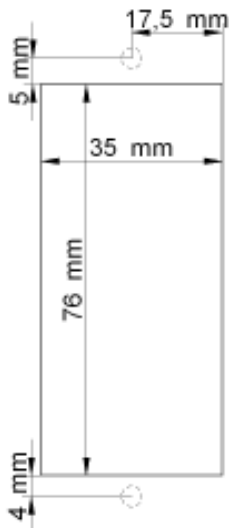
<b>Fuel</b>	<i>Diesel oil, furnace oil</i>
<b>Operating voltage</b>	<i>12 V DC</i>
<b>Fuel consumption</b>	<i>0,09 - 0,19 l/h, 3 - 5 oz/hr</i>
<b>Heating capacity</b>	<i>900 - 1900 W , 2,000 to 6,600 BTU/hr</i>
<b>Power consumption</b>	<i>0,19 A, at start up for about 4 min 8A.</i>
<b>Dimensions</b>	<i>85DU 456 x 306 x 159 mm 85DP 475 x 370 x 161mm</i>
<b>Weight</b>	<i>Approx. 8 kg, 17.6 lbs</i>
<b>Maximum permitted length of the exhaust hose</b>	<i>4 m / 13 ft</i>
<b>Maximum permitted length of the fuel hose</b>	<i>8 m / 26 ft</i>
<b>Minimum area of the replacement air opening</b>	<i>100 cm<sup>2</sup>, 15.5 in<sup>2</sup></i>
<b>Applicable exhaust lead-throughs</b>	<i>1066, 2466 and 3467</i>
<b>Accessories</b>	<i>270 Heat blower lid / 85DU 270 + 110 Heat blower lid / 85DP 1110 Pot holders 1120 Gimbal mounting / 85DP 1150 Toaster grill</i>

**Installation opening**

Saw an installation opening for the embedded model as shown in figure 3 in the desired place and a separate opening for the control panel as shown in figure 4. The length of the control panel cord is 2 m.

**There must be a replacement air opening with a minimum size of 100 cm<sup>2</sup> ( 16 in<sup>2</sup> ) in the space where the stove is installed.**

Figure 4: Installation cutout for 85DU control panel.

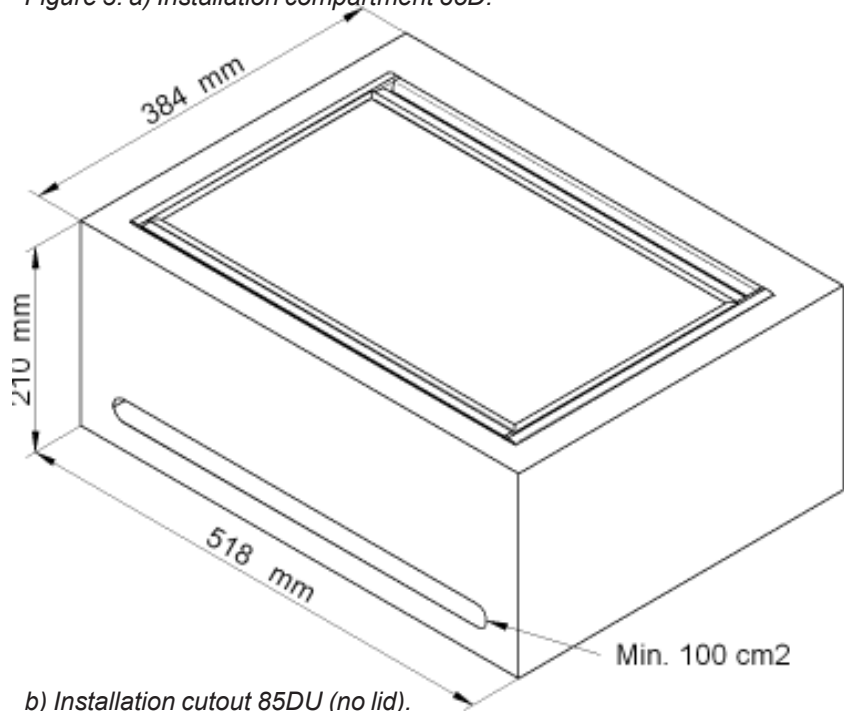


**There must be at least 20 mm between the stove and any vertical surface.**

**Mounting rails**

The surface model requires no installation opening. Just attach the rails to the desk as shown in figure 5.

Figure 3: a) Installation compartment 85D.



b) Installation cutout 85DU (no lid).

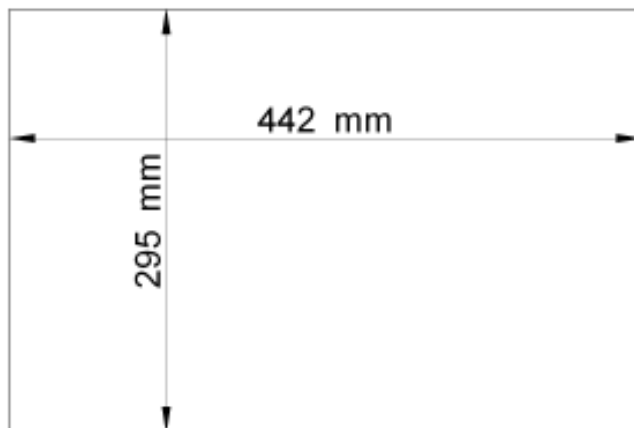
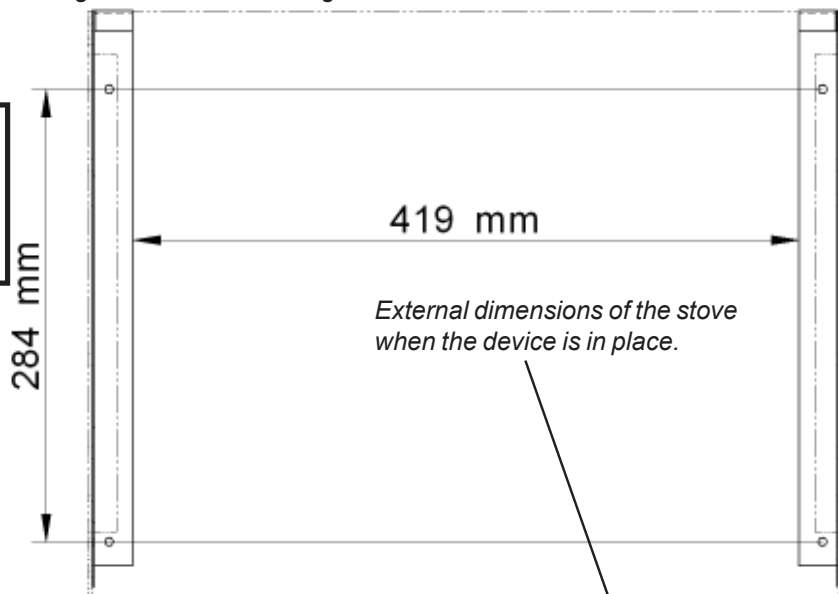


Figure 5: 85DP Attaching the installation rails.



**Mounting the device**

**85DU (figure 6)**

Place the stove in the installation opening and attach the mounting brackets to the nuts at the ends of the stove using the screws in the accessory bag. Then tighten the mounting pieces against the tabletop. Notice the locking nuts. The control

panel is attached to the tabletop with the screws in the auxiliary bag

**85DP (figure 7)**

Lower the stove over the mounting rails so that the stove legs rest on the tabletop. Then push the stove backwards until it meets the limiters in the rails.

**a)** Finally attach the stove to the rails with screws or

**b)** from the front side with separate mounting kit.

All models can be removed by repeating the steps in reverse order.

Figure 6: Attaching the control panel of 85DU to the tabletop. You can choose (A or B) which way to put the mounting piece.

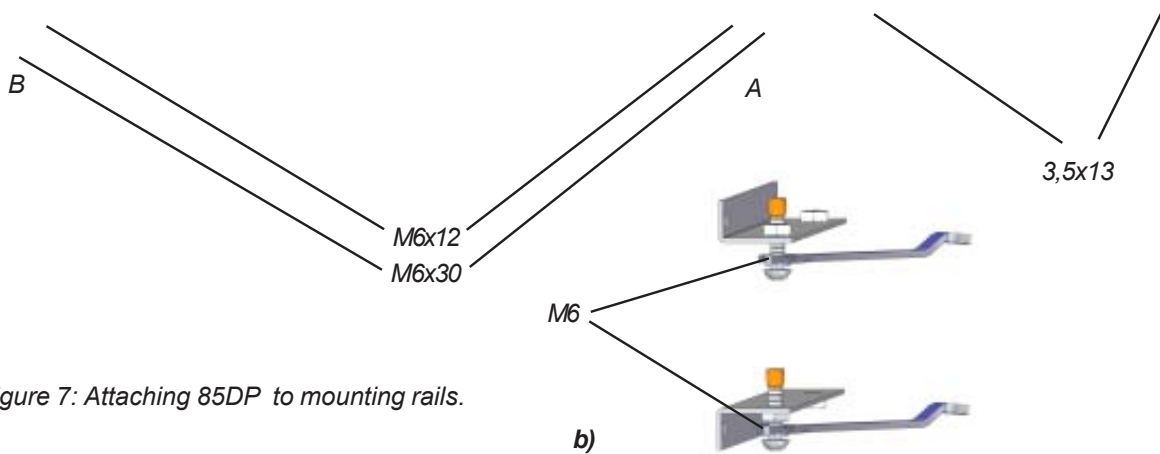
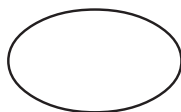
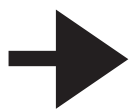


Figure 7: Attaching 85DP to mounting rails.



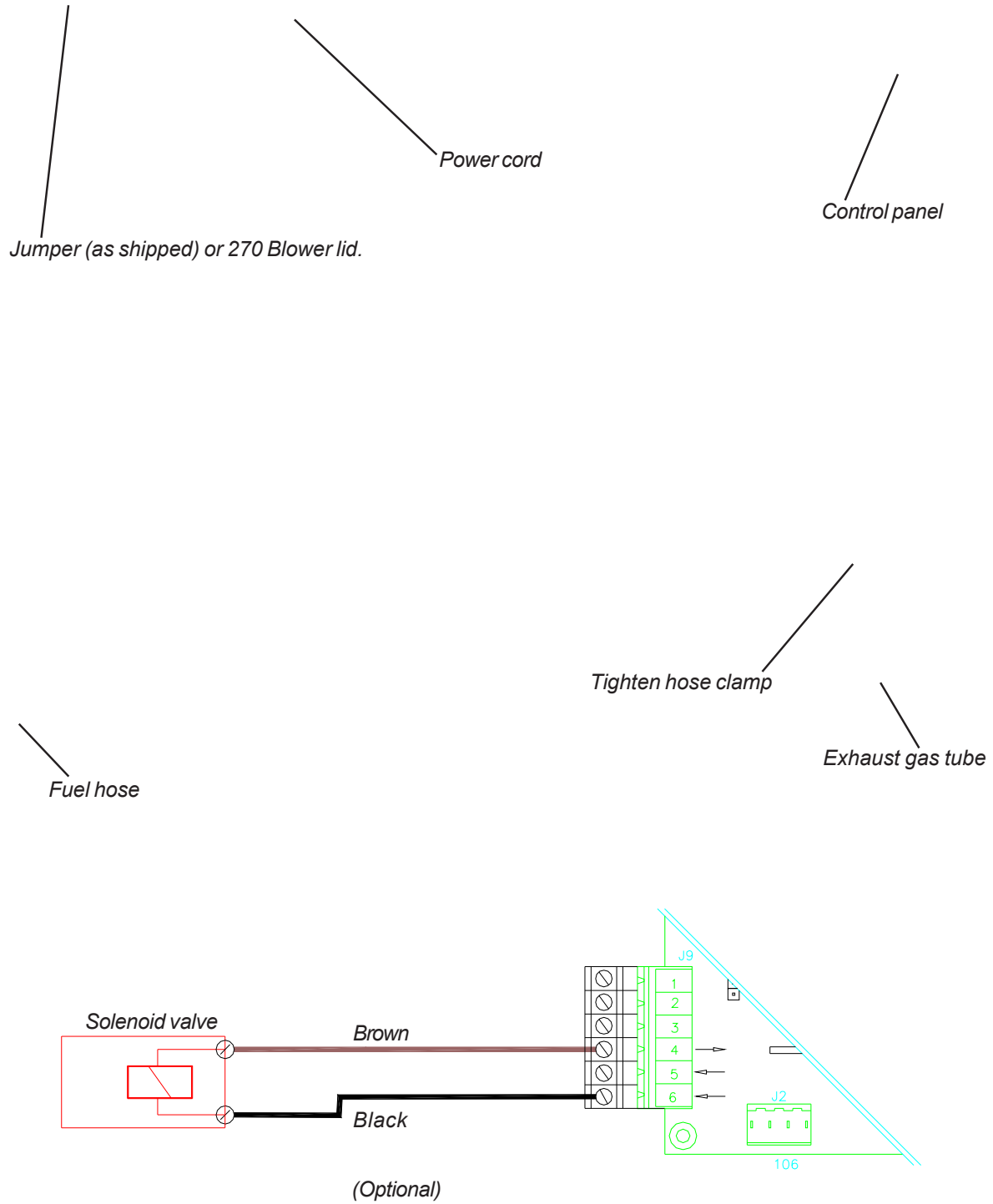
a)

M5x8



Connections

Figure 8: 85DU/85DP Connections.



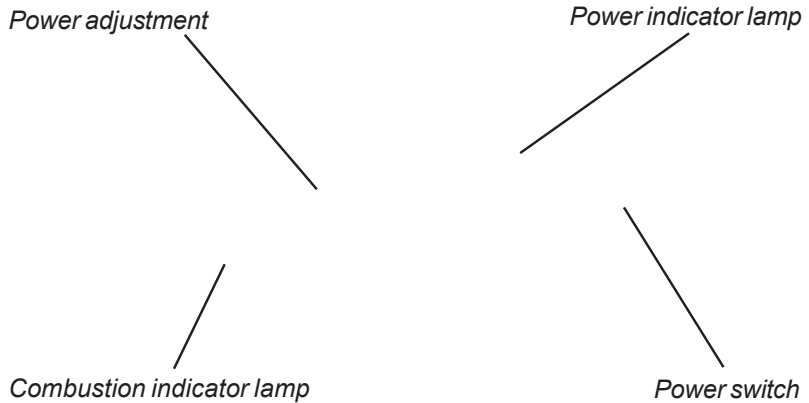
**Use of the stove**

The stove begins its start cycle automatically when the power switch is turned to ON position. The yellow indicator lamp lights up as soon as the stove is switched on. The red combustion lamp will light up when the combustion has progressed in the burner, about 2.5-4 minutes after start-up.

The stove may not light immediately if it has lost its fuel prime (when newly installed or having been run out of fuel). If this occurs, the combustion light will start to blink about 4.5 minutes after start command. Turn the power switch to OFF position. The stove cannot be restarted until both indicator lamps have gone out (cooling).

Once the indicator lamps have gone out, restart the stove.

Figure 9: 85DU operating switches.



After starting, the power can be adjusted with the control rheostat. Avoid unnecessary rapid adjustments, as this can accelerate soot deposition.

Turn the power switch to OFF position to shut down the stove. The red combustion lamp will keep blinking for about 5 minutes while the stove is cooling. You can't restart the stove until the combustion lamp has stopped blinking.

The orange signal light glows in the forward edge of the ceramic plate when the stove is hot.

**Du not keep the stove on without cooking or putting the heat blower lid down.**

**Please note the following when using the cooking plate**

We recommend you only use vessels with a level bottom in order not to scratch or damage the cooking plate. If you use the cold plate as a worktop, wipe it carefully afterwards. Even a small hard crumble can scratch the plates when a kettle is placed over it. Minor scratches in the cooking plate do not, however, affect the heating properties of the stove in any way.

The bottom of the cooking vessel should be slightly concave when it is cold, so that thermal expansion makes it flat on the stove and heat energy is best transferred to the vessel.

The ideal thickness of the bottom of a cooking vessel is 2-3 mm for steel enamel vessels and 4-6 mm for steel kettles with a sandwich bottom.



### Cleaning and care of the cooking plate

In order to keep your cooking plates tidy and easy to use, you should clean them regularly, preferably after every time they are used. First remove the scraps with a spatula. Pour a few drops of detergent intended for ceramic plates on cold plates and wipe it with a paper towel. Rinse the plates and wipe them dry with a clean cloth. Do not use a scratching sponge or scrubbing agents. You

should also avoid strong chemical detergents, such as oven cleaning spray or spot removers.

Clean any melted aluminium foil, plastic, sugar or mixture containing sugar from the hot plates straight away to avoid damage to the surface. Before cooking anything containing lots of sugar, the plates should be wiped with a protective agent to prevent any damage to the surface if the food boils over.

The technical parts of the stove are serviced according to general servicing recommendations of Wallas equipment.

### Signal lights of functions and operational faults.

Table 2:

Indicator lights linked to different functions and operational faults.

**If the stove will not start, even though the fuel has reached the pump, do not try to start it more than twice without checking the cause of the problem.**

**Do not turn the stove upside down when you detach it for servicing. Otherwise any fuel remaining in the burner will leak out and be absorbed in the insulation.**

Table 2:

	LED colour	Blinking rate	Meaning
Function	Yellow	Lights continuously.	Power is on
	Red	Lights continuously.	Combustion indicator, combustion has started normally.
	Red	0,25 s	Aftercooling
Problem; Error indication lasts for 5 minutes and then only the red LED will blink.	Yellow	2 s	Glow problem
	Yellow	0,125 s and 2 s	Combustion blower problem
	Yellow	0,25 s	Under Voltage
	Yellow and red	0,125 s	Locking; the device locks itself after 2 unsuccessful starts.*
	Red	0,25 s	Overheat
	Red	30 s	Lights after failure signal.

\* Opening the locking:

1. Switch the power ON (lock blinking).
2. Disconnect the main power supply (blinking stops).
3. Reconnect the main power supply (the yellow LED lights up for 1-3 seconds).
4. When the yellow LED has gone out, switch the power OFF.
5. Switch stove control ON to initiate start cycle again.

If necessary, please contact the nearest Wallas repair shop.