User Manual

airframe EASY

WARNING: READ THIS MANUAL BEFORE OPERATING THE PRODUCT

SAVE THIS INSTRUCTION MANUAL FOR REFERENCE

1 General information

1.1 Warning

WARNING! Read all instructions before operation. Failure to follow all instructions listed below may result in product damage, and/or serious injury.

SAVE THESE INSTRUCTIONS

WARNINGS:

1. Read these instructions.

2. Keep these instructions.

3. Refer all servicing to qualified service personnel. Servicing is required when the equipment has been damaged in any way.

4. Keep this product out of the reach of children.

- The product shall only be used to erect a projection surface.
- Only trained or instructed personnel shall operate the product (depending on screen size, 2 to 4 recommended).
- Once inflated the product shall not be unattended at all time.
- The product shall only be inflated for the duration of the usage.
- The audience has to keep out the safety area, which is between all counter weights. Cordon off the area before you start to place the frame.
- The product shall only be placed on ground.
- The maximum wind speed for a safe operation is 24 mph / 38km/h / 5 Beaufort.

2 Installation manual

2.1 components

The airframe EASY package includes:

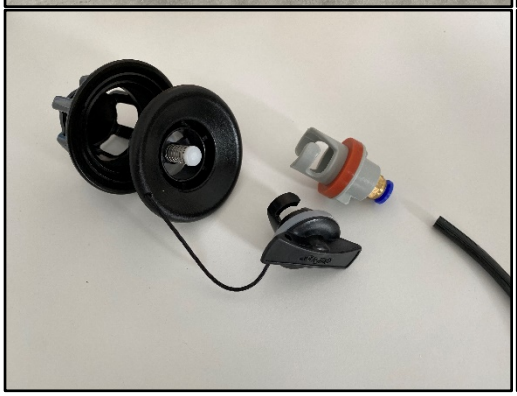
- inflatable frame
- screen surface
- screen ties
- high pressure blower with automatic refilling system (*)
- belts (10)
- ratchets (10)
- inflation tube (40mm)
- pressure control tube (6mm)
- over pressure valve

* Please check the separte manual for the blower before usage!










2.2 preparation

2.2.1 location

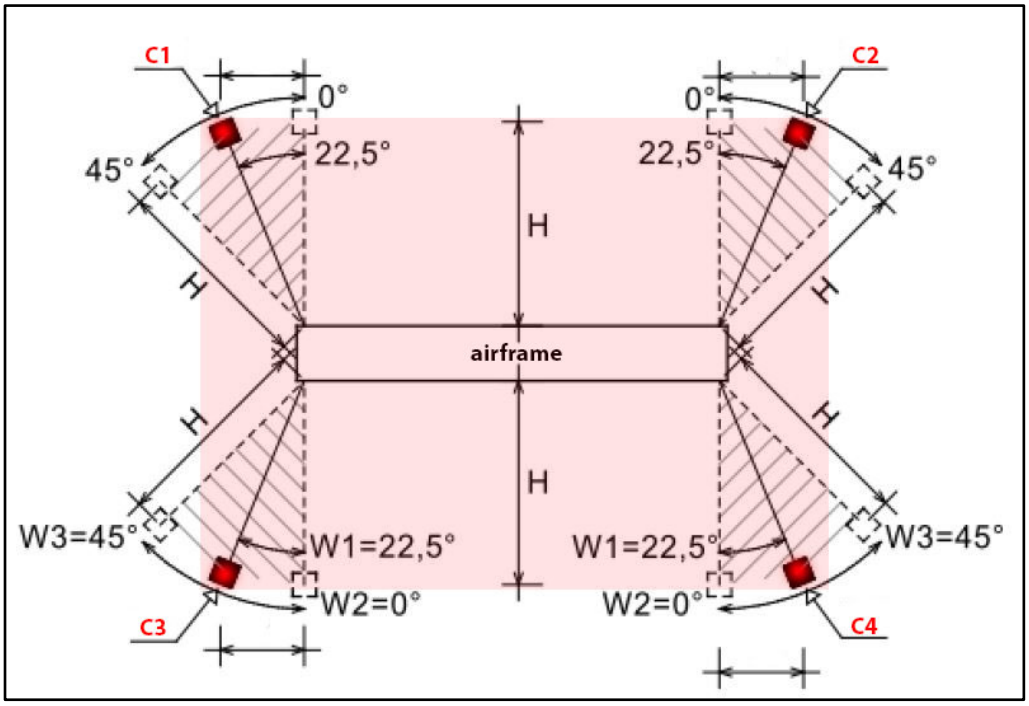
1. Choose your event place carefully.
2. Don't choose windy locations to erect the product.
3. Ensure that the location is free of sharp and hazardous objects, that could damage the screen surface or the frame.
4. Use an extra tarp to protect the product from dirt, sharp objects, such as stones etc.
5. Ensure you have enough space to setup the product. The minimum distance from product to counter weights should be the heigt of the overall size of the product. The minimum width of the space should be 2m more than the overall width on each side.

2.2.2 unrolling the frame

1. The screen skirt is already inside the frame.
2. Your screen surface is already inside the frame.
3. Unroll the frame as illustrated below.
4. The airframe EASY logo should be on the left side when facing the audience.

2.2.3 counter weights

Position all counter weights in 4 corners as illustred (C1, C2, C3, C4). The area between the counter weights shall be the safty area. Only staff shall be in this red zone.

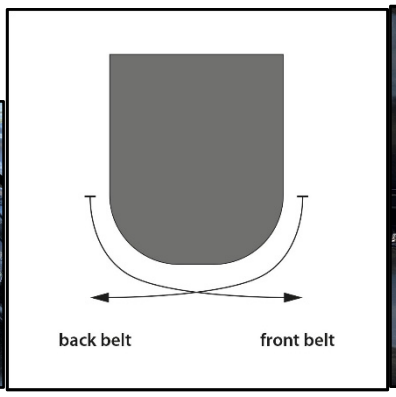


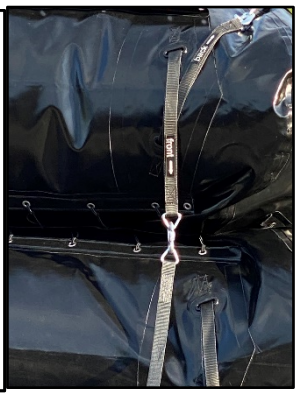
Distance and position from the counter weights should have 25 degrees for an ideal setup. The range is between 0 to 45 degrees. At least, one side, front side or backside should have around 25 degrees!

Model	Overall width cm	Overall width ft	Overall height cm	Overall height ft
EASY 500	578,30 cm	19,00 ft	494,15 cm	16,20 ft
EASY 725	803,30 cm	26,40 ft	624,15 cm	20,50 ft
EASY 1000	1099,95 cm	36,10 ft	784,97 cm	25,80 ft

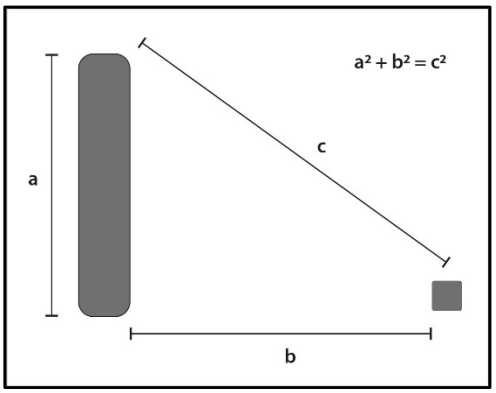
2.2.4 belt attachment

1. The inflatable frame has 8 belts with labels (back and front).
   4 on the ground, 2x to the front, 2x to the back
   4 on the top, 2x to the front, 2x to the back
2. Roll out 8 belts to the counter weights.
3. Connect 2 belts to the middle loop. This belt should not be connected to any counter weight. You need the belts just to pull the screen to the backside when starting deflation.





4. Tighten the ground belts.
5. The precise length of the top belts need to be calculated. Use this formula to calculate the length:



$$c^2 = a^2 + b^2$$

$$c = \sqrt{(a^2 + b^2)}$$

a = the overall height of your frame (see appendix - dimensions of products)
b = distance from frame to counter weight on the ground
c = length of the top belt

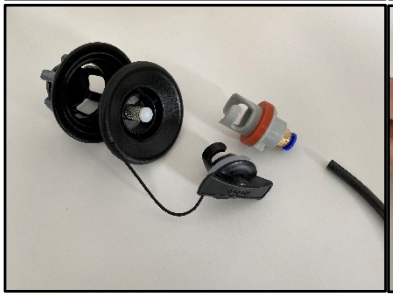
2.3 inflation

1. Connect to 6mm pressure control hose to the blower (backside) and the 40mm inflation hose to the “out” connection of the blower.


2. Connect the blower's inflation hose (40mm) to the airframe.

3. Connect the blower's pressure measurement hose (6mm) to the frame.






Depending on your model, your valve looks like in picture 1 or in picture 2. If your model looks like in picture 2, screw the cap open, press the button, so the valve opens, screw the adapter and then put the 6mm hose into the adapter.

3. Ensure that all caps, zippers and valves are closed.

4. Ensure that all belts are securely attached to the counter weights. If you use water containers, ensure they are full.

5. Connect the power supply to 110V/230V socket. Usage only with correct voltage and Hz.!

6. Turn on the blower on the side. Lamp lights green if switched on.

7. Press the "On" button next to blowers display.

8. The display of the blowers shows two numbers, actual and maximum pressure. Actual should be 0 mbar, maximum should be 70mbar.

9. Ensure the displays shows the correct pressure (0|70). If not, read this manual to change the pressure preset in appendix blower! Otherwise you might distroy the frame. You need to preset the pressure at least if you use the blower the first time. After preset the pressure, go ahead with with next step.

10. Press the "Auto Cycle on/off" button left to the display. After a few seconds the blower starts blowing. The actual pressure will start to grow.

11. The automatic system will stop inflation when the pressure inside the frame reached 70mbar. The display shows 70 | 70 mbar.

12. The automatic system will start inflation again, when the pressure inside the frame reached 30mbar or less.

13. The over pressure valve will open when the pressure inside the frame will reach 100mbar. Don’t use any other blower with this airframe. Maximum pressure insise should be 70mbar! Switch off any blower if pressure raises over 70mbar.

Safety Notice:

The ideal inflation process is shown on the pictures.

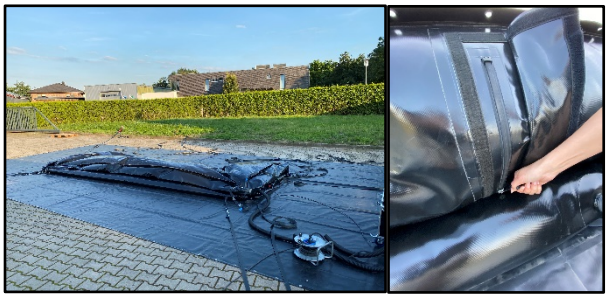
Minimum one person shall be monitoring the inflation process. In case of any problems, switch off the blower instantly and solve the problem.

When the frame is in an upright position, minor adjustments on the length of the belts can be made.

Ensure the frame will never fall to one side. Used gloves to adjust belts and ratchets at all time.

2.4 deflation

1. Ensure that the safety area is free of people and obstacles.
2. Turn off the blower.
3. Depending on screen size and wind speed (especially when wind from back side) you need at least one or two people to pull back constantly on the middle belts.
4. Open the caps and zippers so the air can get out the frame.
5. After deflation the frame shall lie on itself as illustrated.
6. We recommend to pay attention to the frame until the air is completely out.



2.5 pack-up

7. Release all belts from the frame.
8. Release all tubes / hoses from the frame.
9. Fold the frame and roll up as illustrated. If you fold and roll carefully, the package will end up being smaller.
10. The white screen surface and the belts should not hang out.

2.6 Appendix

2.6.1 blower

Warning! Change the preset of the inflating / controlling pressure before the first use.

Changing the preset inflating / controlling pressure for airframe EASY.

1. Connect the power supply to 110V socket.
2. Turn on the main green switch on the side. Lamp lights green if switched on.
3. Press **MODE** to select the measurement's units (mbar, psi, bar, kPa): press many times the **MODE** button until the desired unit is "mbar".
4. Adjust the desired working pressure to **70mbar** using the **SET+/SET-** button: press a button for 2 seconds, the display starts flashing and you can change the pressure switch.
5. Adjust the refill pressure: press for 3 seconds the **MIN** button, the display starts flashing With **SET+** and **SET-** you adjust the value to **30mbar**. After 2 seconds the display stops flashing and the set pressure is stored.
6. Adjust the discharge pressure: Press for 3 seconds **MAX** button, the display starts flashing. With **SET+** and **SET-** you adjust the value to 70mbar. After 2 seconds the display stops flashing and the set pressure is stored.
7. When correctly programmed the display shows 0 | 70 mbar.

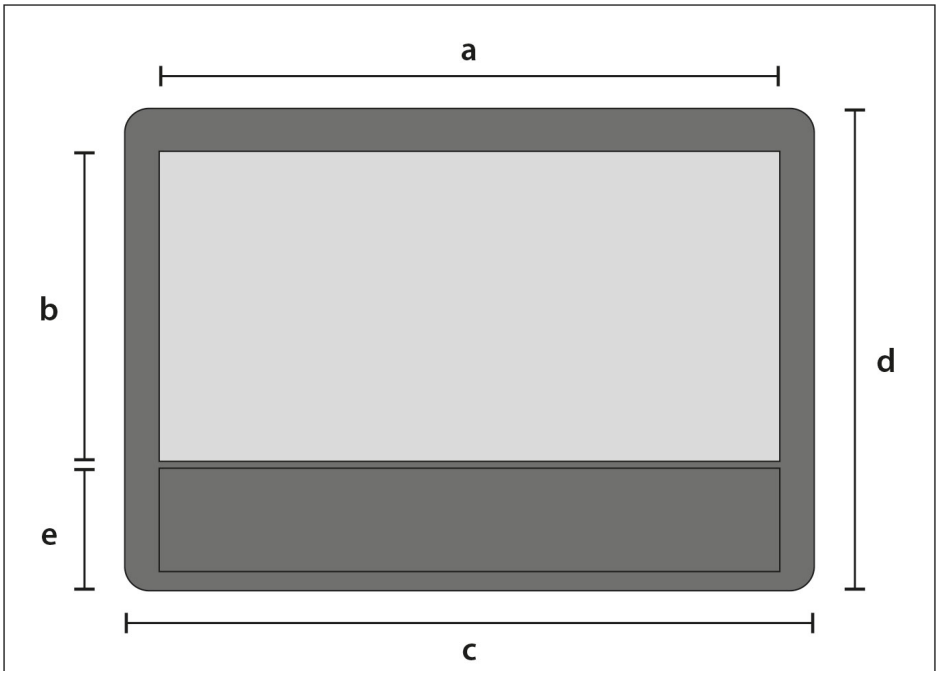
2.6.2 maintenance

How to prolong the product life:

1. Store your product only clean and dry and best at room temperature to avoid the build up of mould or irreversible creases.
2. Don't leave the wet product rolled longer than 1 week.
3. The screen surface is very sensitive. Temperatures lower than 10°C (50°F) can cause cold cracks.
4. Screen surface cleaner can be purchased.
5. Zippers can be lubricated with silicon (can be purchased). Ensure zippers are closed during the inflation and show and when stored.

2.6.3 dimensions

Here you find the dimensions of your product:



Model	Overall width cm	Overall width ft	Overall height cm	Overall height ft	screen width cm	screen width ft	screen height cm	screen height ft	screen size M²	screen size sft	screen off the ground cm	screen off the ground ft
EASY 500	578,30 cm	19,00 ft	494,15 cm	16,20 ft	500,00 cm	16,4 ft	280,00 cm	9,2 ft	14,00 qm	150 sqft	175,00 cm	6 sqft
EASY 725	803,30 cm	26,40 ft	624,15 cm	20,50 ft	725,00 cm	23,8 ft	410,00 cm	13,4 ft	29,73 qm	320 sqft	175,00 cm	6 sqft
EASY 1000	1099,95 cm	36,10 ft	784,97 cm	25,80 ft	1000,00 cm	32,8 ft	560,00 cm	18,4 ft	56,00 qm	600 sqft	175,00 cm	6 sqft

a) screen width, b) screen height, c) overall width, d) overall height, e) screen off the ground

We produce in metric sizes in accordance with German DIN standard, all imperial sizes are rounded. All sizes and weights may differ based on temperature or production deviations and vary up to 5cm.

3 Notes