AirWave® 1

OPERATING INSTRUCTION
## Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contents</td>
<td>2</td>
</tr>
<tr>
<td>Safety guidelines</td>
<td>3</td>
</tr>
<tr>
<td>Air cushion types - FILLER</td>
<td>4</td>
</tr>
<tr>
<td>Air cushion types – WRAPPER</td>
<td>5</td>
</tr>
<tr>
<td>Machine overview</td>
<td>6</td>
</tr>
<tr>
<td>Technical data</td>
<td>6</td>
</tr>
<tr>
<td>Recommended settings</td>
<td>7</td>
</tr>
<tr>
<td>Accessories and spare parts</td>
<td>8</td>
</tr>
<tr>
<td>Operating instructions</td>
<td>9</td>
</tr>
<tr>
<td>Control panel settings</td>
<td>11</td>
</tr>
<tr>
<td>Preset and lock function</td>
<td>12</td>
</tr>
<tr>
<td>Change the knife</td>
<td>13</td>
</tr>
<tr>
<td>Change the Teflon transport belts</td>
<td>16</td>
</tr>
<tr>
<td>Filmguide pins</td>
<td>20</td>
</tr>
<tr>
<td>Error codes</td>
<td>20</td>
</tr>
<tr>
<td>Options and expandability</td>
<td>21</td>
</tr>
<tr>
<td>Warranty</td>
<td>22</td>
</tr>
</tbody>
</table>
**OPERATING INSTRUCTION**

**Safety guidelines**

Please read the safety guidelines and operating instruction closely before using the machine.

- Turn off the machine and disconnect power before opening the machine or performing any repair or maintenance work on the machine.
- Switch off the machine if it will not be used for an extended period of time.
- Do not insert any objects into the machine when it is connected to the mains.
- To prevent the risk of electric shock, ensure that the machine does not come into contact with liquids.

- Do not operate the machine without the covers for the machine components.
- Keep hair and loose clothing away from the film feed mechanism.
- Place the machine only on surfaces that are adequately large, stable, flat, and level.

This machine is designed for safe operation in compliance with the use, instructions, and guidelines specified in these operating instructions.

All persons who use this machine must be familiar with the content of these operating instructions and must carefully follow the safety guidelines.

FLÖTER shall not be responsible for damage resulting from improper use of the machine or non-observance of the safety guidelines.
Air cushion types - FILLER

Type 7.1 AirWave 1 air cushion filler 100 x 210 mm 20 µm / 700 m
Ideal for filling small voids and for use as an intermediate layer

Type 7.2 AirWave 1 air cushion filler 150 x 210 mm 20 µm / 700 m
Ideal for filling medium-sized voids and for use as an air cushion ring

Type 7.3 AirWave 1 air cushion filler 200 x 210 mm 20 µm / 700 m
Ideal for filling large voids

Type 7.4 AirWave 1 air cushion filler 130 x 300 mm 20 µm / 600 m
Ideal for filling large voids

Type 7.5 AirWave 1 air cushion filler 240 x 300 mm 20 µm / 600 m
Ideal for filling large voids
Air cushion types – WRAPPER

Type 8.1 AirWave 1 wrapper 420mm 2 large chambers 20µm / 450 m
2 large chambers for large volumes and for use as a top layer

Type 8.2 AirWave 1 wrapper 420mm 2 small chambers 20µm / 450 m
2 chambers for moulded components, edge protection, and wrapping

Type 8.3 AirWave 1 wrapper 420mm 4 chambers 20µm / 450 m
4 chambers for use as an intermediate layer, wrapping, and envelope

Type 8.4 AirWave 1 wrapper 420mm 8 chambers 20µm / 450 m
8 chambers for use as an envelope and intermediate layer

Type 8.5 AirWave 1 wrapper 420mm 7 wavy chambers 20µm / 450 m
7 chambers for use as an envelope and intermediate layer
Machine overview

Technical data

Power supply: 230 V; 50 Hz as well as 120 V; 60 Hz
Power consumption: 115 W (20 W Stand-By)
Production speed: 8 m / min
Weight: 5,2 kg
Colour: individual
Dimensions (LxWxH): 413 x 316 x 232 mm (extendible base 150mm)
Bluetooth interface: yes
## Recommended settings

<table>
<thead>
<tr>
<th>Cushion Type</th>
<th>Recommended Temperature</th>
<th>Recommended Air Volume in %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typ 7.1</td>
<td>170-180</td>
<td>16-20</td>
</tr>
<tr>
<td>Typ 7.2</td>
<td>170-180</td>
<td>16-20</td>
</tr>
<tr>
<td>Typ 7.3</td>
<td>170-180</td>
<td>16-20</td>
</tr>
<tr>
<td>Typ 7.4</td>
<td>170-180</td>
<td>30-34</td>
</tr>
<tr>
<td>Typ 7.5</td>
<td>170-180</td>
<td>32-36</td>
</tr>
<tr>
<td>Typ 8.1</td>
<td>170-180</td>
<td>44-48</td>
</tr>
<tr>
<td>Typ 8.2</td>
<td>170-180</td>
<td>44-48</td>
</tr>
<tr>
<td>Typ 8.3</td>
<td>170-180</td>
<td>44-48</td>
</tr>
<tr>
<td>Typ 8.4</td>
<td>170-180</td>
<td>44-48</td>
</tr>
<tr>
<td>Typ 8.5</td>
<td>170-180</td>
<td>74-78</td>
</tr>
</tbody>
</table>

**Warning:** Do not set the machine at a temperature higher than the recommended welding temperature for the respective film type. In this way you ensure a longer life of the machine. All modifications require the prior consent of our service technicians. The required temperature can vary depending on ambient temperature.
Accessories and spare parts

- Hex key (2 pcs)
- Teflon belt (1 set = 2 pcs)
- Knife (1 pcs)
- Power cord (1 pcs)
- Fuse (1 pcs)
- USB flash drive with operating instructions and training video
- Filmguide pins (2 pcs)
Connect power to the machine and switch on the machine.

The start screen will appear automatically after ca. 5 seconds on the control panel.

Loading the roll of film onto the film roll shaft. Please note the side of airfill channel of the film. The channel must be on the side closest to the machine.

Guide the air fill channel of the film onto the air nozzle. Slide the film on the air nozzle a few more cm forward in direction of sealing unit. That will simplify the next step.
Pull the film above the air nozzle and through the film channel. Press the “IN/OUT button” and pull the film all the way through.

The corner of the film can be cut at an angle to make it easier to fit the film over the air nozzle.
Control panel settings

Use the control panel to set the welding temperature, film length, and air volume. Once a roll of film is loaded and all settings are correct, press “Start” to start the production of air cushions.

Setting the welding temperature

The preset welding temperature is 170°C.

To change the welding temperature, press “SET” and enter the required temperature. Press „ENTER“ to continue and „ESC“ to end adjustment function. The machine will start heating-up or cooling down to required temperature. During this process the display will show the flashing symbol 〇.

The progress bar on the right display the current status of welding temperature like a thermometer. When the requested temperature. Once the machine reaches the set temperature, the symbol on the display will change from 〇 to ●.

Please have a little patience. The production can start only when set temperature is reached. If the „START“ button has been pressed during heating or cooling process, the machine would be in waiting mode and would start production independent when target temperature has been reached.

Setting the film length

The length of the air cushion strand you want to produce can be preset in meters, as needed. This value is set to 0 by default, which tells the machine to produce air cushions continuously. Press three times “SET” and enter the requested length. Press „ENTER“ to continue and „ESC“ to end the adjustment function. Press “START” to start the production. The machine will stop automatically once the preset air cushion strand length has been reached.

Please note: the machine will save the set length until you delete or change the length.

Setting the air volume

Set the air volume you want by pressing the buttons “+” and “−” next to the display. The air volume can be set between 0 and 40. Use the recommended air volume for the respective film types.
Preset and lock function

Four **presettings** with temperature and air charge are possible for a quick selection. Programming the presettings can be done at programming level. Please ask your foreman for the required code.

For quick selection you have to be at foreman / control level. Press long time the number of requested program position and settings will be set.

**Control panel can be locked** to prevent setting changes by unauthorized person. Please ask your foreman for the code to lock or unlock the control panel.
Changing the knife

You can easily change the knife for AirWave1 yourself.

**Step 1: Switch off the machine and disconnect power**

Always switch off the machine before opening it.

**Disconnect power** to the machine by removing the power cord completely from the machine.

*Allow the machine to cool down!*

Only then open the machine casing on the right side.

- unscrew the screws with provided hex key
- hold cover at the bottom and remove cover with a little tilting movement.

You must follow this step. It is for your safety.

**Step 2: Remove the knife**
Step 3: Change blade

Undo the locating screw with the provided hex key.

Remove the blade bracket.
Caution!!
Even used blades are extremely sharp!

Undo the little screw which fixes the blade with the provided hex key.

Turn around the blade one time 180° or apply a new one if both sides were already used.

Fix the blade with the corresponding screw.
Step 4: Insert the knife

Insert the knife into the slot at the machine casing and fix it with the screw.

Remount the cover at the top, close the machine casing and fix it with the screws.
OPERATING INSTRUCTION

Change the Teflon transport belts

You can easily change the Teflon belts for AirWave 1 yourself.

Always switch off the machine before opening it. Disconnect power to the machine by removing the power cord completely from the machine. Allow the machine to cool down.

Step 1: Remove the covers

Undo the screws with the provided hex key.
The upper cover has to be removed first.

Next you will be easily able to reach the screws for the lower safety cover.
Unscrew and flip open the cover to the side.

Step 2: Antriebsrollen lösen

Turn the tension lever to move the transport rolls apart.

Step 3: Release Teflon belts
Push the upper of the two guiding rollers on the left in the image to the right against the spring to release the tension for the upper Teflon belt.

Remove the slackened Teflon belt from the rollers.

Push the lower of the two guiding rollers on the left in the image to the right against the spring to release the tension for the lower Teflon belt.

Remove the slackened Teflon belt from the rollers.

Step 4: Insert new Teflon belts.
Place the new Teflon belt over the upper of the transport rollers on the left in the picture. And press the roll again to the right against the spring.

Place the Teflon belt now also over the upper transport roll on the right in the image and loosen pressure at the roll.

Gently turn the rollers to check whether the belt is situated correctly between the weld pads. The belt should be able to move free.

Place the new Teflon belt over the lower of the transport rollers on the left in the picture. And press the roll again to the right against the spring.

Place the Teflon belt now also over the lower transport roll on the right in the image and loosen pressure at the roll.

Gently turn the rollers to check whether the belt is situated correctly between the weld pads. The belt should be able to move free.

Step 5: Tension the belts, close the machine.
Turn the tension lever back to the left to press the transport rolls against each other.

Fit the covers of the Teflon belts and screw it with the prepared hex key. Lower cover first and then the upper one.

Now you can reconnect the power cord and switch on the machine.
Filmguide pins
For a more effective air volume or better film guide use the two pins.

Screw the pins at the machine casing

Thread the film through the pins and over the airpipe.
Start production.

Error codes
The AirWave 1 has an integrated diagnostic program. In the event of an error, an “E” code will appear on the display. This code will help you correct the error:

- „Foil Empty“: film roll empty.
- „Check Foil“: tread film above airpipe
- „Heat Error“: please contact our Flöter Service
Options and expandability
Please contact your sales advisor for further information.

Distance controlled production by Bluetooth connection. With tablet or smartphone

Fully automated control by the installation of a filling level sensor. Optimal for overhead compartment or mobile air cushion storage.

Start-/Stop funktion with foot pedal. For a production on demand.

Longrollholder for bigger rolls
Warranty

AirWave1 has a 12-month manufacturer’s warranty that covers all electronic and mechanical components. The warranty period starts automatically when you purchase the machine.

In the event of damage, securely package the machine and return it to us (keep the original packaging). Please include a letter containing a short description of the error and your contact information.

Our service technicians will inspect the machine and call you to inform you of how long the repair will take. Your machine will be returned to you immediately once the repair is finished. If you need a replacement machine, the warranty period will continue from the receipt date of the first machine. The warranty will not be extended.

The scope of the warranty does not include the following:

- Damage resulting from improper use of AirWave1:
- This includes, in particular, damage caused by using unsuitable films or inserting foreign objects into the machine’s transport belts.
- Wear and tear caused by regular use
- Wearing parts, in particular, Teflon transport belts, knifes, and transport rollers
- Damage caused by machine downtimes

Contact:

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Robert-Bosch-Str 17
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e-mail: info@floeter.com
tel: +49 (0) 71 50 / 9 24 83-0
Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.”
To comply with FCC RF exposure compliance requirements, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons.
This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.