# AirWave<sup>®</sup>2

### **OPERATING INSTRUCTIONS**





#### OPERATING INSTRUCTIONS

# Contents

Safety guidelines	2
Air cushion types – FILLER	3
Air cushion types – WRAPPER	4
Machine overview	5
Technical data	5
Recommended settings	6
Accessories and spare parts	7
Initial operation	8
Operating instruction	10
Preset function – quick selection	12
Lock function	13
Change the knife	14
Change the Teflon belt	17
Change the transport belt	20
Film guide pins	22
Error codes	23
Options and expandability	24
Advanced settings	26
To change advanced settings touch at start screen.	26
Enter code "1-3-5", continue with and choose desired submenu.	26
Maintenance & Cleaning	27
Warranty	28
Declaration of Conformity	28
Support and Service	29

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# 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 power.
- 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 horizontal.

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.

AirWave Packaging shall not be responsible for damage resulting from improper use of the machine or non-observance of the safety guidelines.

# Air cushion types – FILLER

Our standard version – Polyethylene 20  $\mu$ m (0.8 mil) 7.1-7.3 with 700 m (23000 ft.); 7.4-7.5 with 600 m (1970 ft.)



Type 7.1 AirWave air cushion filler 100 x 210 mm (3.9 x 8.3 in) Ideal for filling small voids and for use as an intermediate layer



Type 7.2 AirWave air cushion filler  $150 \times 210 \text{ mm}$  (5.9 x 8.3 in) Ideal for filling medium-sized voids and for use as an air cushion ring



Type 7.3 AirWave air cushion filler 200 x 210 mm (7.9 x 8.3 in) Ideal for filling large voids



Type 7.4 AirWave air cushion filler 130 x 280 mm (5.1 x 11.0 in) Ideal for filling large voids



Type 7.5 AirWave air cushion filler 240 x 280 mm (9.4 x 11.0 in) Ideal for filling large voids

All type 7.x are also available as Jumbo rolls with more running meters per roll, and also in 15µm (0.6 mil) or 12µm (0.5 mil), in pink antistatic version, in our "Heavy Duty" version made of laminated material, or as 100% biodegradable material.

Get in touch with us.

700

# Air cushion types – WRAPPER

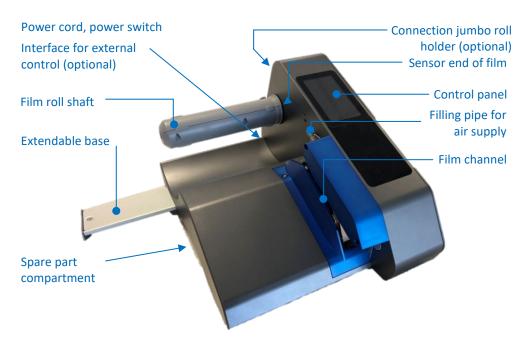
Our standard version – Polyethylene  $20\mu m$  (0.8 mil) 8.1-8.6 with 450 m (1480 ft.); 8.3/8.4 XL (23,6in) with 300 m (980 ft.)



3 chambers for use as an envelope and intermediate layer

All type 8.x are also available as Jumbo rolls with more running meters per roll, and also in  $15\mu m$  (0.6 mil) or  $12\mu m$  (0.5 mil), in pink antistatic version, in our "Heavy Duty" version made of laminated material, or as 100% biodegradable material. Get in touch with us.

### Machine overview



### Technical data

Power supply: 115-240 V; 50-60 Hz

Power consumption: 200 W

Production speed: 20 m / min (66 ft. / min)

12 m / min (39 ft. / min)

Weight: 6.25 kg

Color: Standard: anthracite / blue (individual on request)

AirWave2 dimensions (I / w / h): 413 / 316 / 232 mm (16.3 / 12.5 / 9.2 in)

extendible base 150 mm (6 in)

# Recommended settings

	Temperature						Air Volume		Blowing Time			
Cushio n Type		min /min)		/min /min)		/min /min)	8m/min (26ft/min)	12m/min (39ft/min)	20m/ (66ft/i	8m/min (26ft/min)	12m/min (39ft/min)	20m/min (66ft/min)
	°C	°F	°C	°F	°C	°F	nin nin)	min min)	/min /min)	nin nin)	min nin)	/min /min)
PE 20 μm (0.8 mil):												
7.1	180	356	235	455	250	482	25	35	40	0	0	0
**8.3	180	356	235	455	250	482	65	80	85	0	0	-0,1

All other settings for Floeter air cushion chains and mats can be found <a href="https://doi.org/10.2016/j.com/">here:</a>



# Accessories and spare parts



Power cord (1 pcs)





Hex key (3 pcs)



Teflon belts (1 pcs)



Knife (1 pcs)



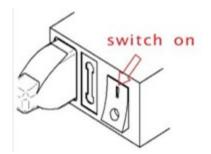
Fuse (1 pcs)



Film guide pins (2 pcs)

# Initial operation

#### Switch on machine



Connect power to the machine and switch on the machine.



The start screen will appear automatically after approximately 3 seconds on the display.

#### **OPERATING INSTRUCTIONS**

#### Insert film roll



Please rotate the spindle anti-clockwise (about 1/2 turn) to unlock the core holder. To load and also to unload a film roll.

Turn clockwise to lock.

Please note that the roll sits all the way on the spindle.

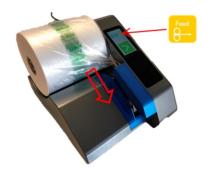


Load the roll of film onto the unlock film roll shaft.

Please note the side of air fill 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 and press the "IN/OUT button" while pulling 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.

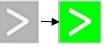
# Operating instruction

Use the touch display to set the sealing temperature, film length, and air volume.

#### Start, Stop function



Once machine is powered on the sealing unit starts heating up. When set target temperature is achieved "Start panel" change color.

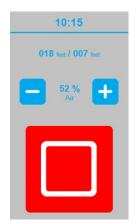


and machine is ready to use.

When a roll of film is loaded and all settings are correct,



to start the production of air cushions.



During production of air cushions display show Stop panel.



to stop production of air cushions

### Adjust air volume

Adjust air volume of the air cushions between 0 and 100, by touching



at touch display.

The air volume can be adjusted before production of air cushions at start screen and also during air cushion production at stop screen.

Please see recommended settings for adequate air volume for the different cushion types.

#### Adjust seal temperature

Adjust seal temperature by touching temperature panel





Touch or to adjust target temperature.

Then touch to close setting page and return to start screen. The machine starts heating or cool down until set temperature.

Please have a little patience. Air cushion production can only start when target temperature is achieved.

If you touch during heating up or cooling down process the machine will get in waiting position and will start air cushion production by itself once target temperature is achieved.

Please see "recommended settings" for the different cushion types. To change displayed unit, please see "advanced settings".

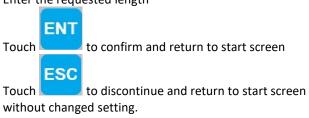
#### Preset film length

The length of the air cushion film 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.

To set requested length of air cushion strand, touch off at start screen.



Enter the requested length



Set length

Please note that preset length will be kept until delete or new adjustment.

To change displayed unit, please see "advanced settings".

# Preset function – quick selection

**Five presets** with temperature, air volume, running speed and Blowing time are possible for a quick selection. Programming can be done at programming level.

Touch at start screen to get to the screen for selecting program



For **quick selection of a preset** touch assigned number (1, 2, 3, 4, or 5) and keep in touch until return to start screen. Settings will automatically be transferred in start screen

Factory-adjusted: M1 for type 7.1 PE-Film 20 $\mu$ m; M2 for type 8.3 PE-Film 20 $\mu$ m

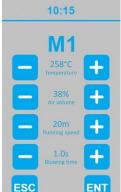
To program or change a preset enter "4-5-6" and touch



Select one program by touching M1, M2, M3, M4 or M5 to get to the corresponding programming level.

Touch to return to start screen with without any changes.

To change displayed unit, please see "advanced settings".



At programming level touch or to adjust temperature, air volum, running speed or blowing time.

When all settings are done, touch to continue changes and get back to program quick selection page.

ENT

Touch to return to program quick selection page without any changes.

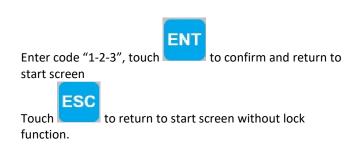
### Lock function

**Control panel can be locked**, to prevent setting changes by unauthorized person.

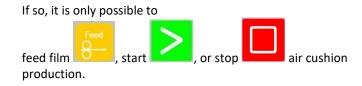
Touch Set a

at start screen to get to the screen for entering code.





A little padlock symbol show that touch display is locked.



Temperature, air volume or production length is not possible to change. Therefore display needs to be unlocked. Touch "SET" enter code and touch "ENT" to confirm and return to start screen.

# Change the knife

You can easily change the knife for AirWave2 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!



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

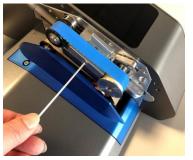
Step 2: Remove cover



Undo both screws of upper cover with appropriate hex key and remove cover

#### **OPERATING INSTRUCTIONS**

Step 3: Remove the knife



Undo the locating screw with the provided hex key.



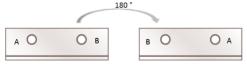
Remove the blade bracket.

Caution!!
Even used blades are extremely sharp!

Step 4: Change blade



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.

#### OPERATING INSTRUCTIONS

Step 5: Insert the knife



Insert the knife into the slot at the machine



and fix it with the screw.



Remount the upper cover and fix it with the screws with provided hex key.

# Change the Teflon belt

You can easily change the Teflon belts at AirWave2 yourself.

Step 1: Switch off the machine and disconnect power



Always switch off the machine before opening it.



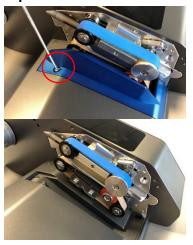
**Disconnect power** to the machine by removing the power cord completely from the machine.

Allow the machine to cool down!



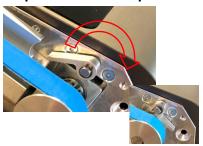
You must follow this step. It is for your safety.

Step 2: Remove covers



Undo both screws of upper cover with appropriate hex key and unscrew lower cover with provided hex key and remove it.

**Step 3: Loosen transport rolls** 



Turn the tension lever to move the transport rolls apart.

**Step 4: Release Teflon belts** 



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



Remove the slackened Teflon belt from the rollers.

Step 5: Insert new Teflon belts.

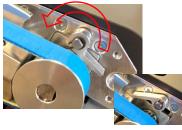


Place the new Teflon belt over the left transport rollers



And press the roll again to the right against the spring until the Teflon belt can be placed on the right roll.

**Step 6: Tension the belts** 



Turn the tension lever back to the left to press the transport rolls against each other.

**Step 7: Close the machine covers** 





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.

# Change the transport belt

You can easily change the transport belt at AirWave2 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!



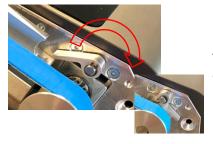
You must follow this step. It is for your safety.

Step 2: Remove upper cover



Undo both screws of upper cover with appropriate hex key and remove cover

**Step 3: Loosen transport rolls** 

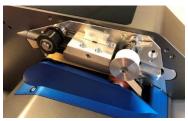


Turn the tension lever to move the transport rolls apart.

**Step 4: Release transport belt** 



Push the upper left guiding rollers to the right against the spring to release the tension for the transport belt.



Remove the slackened transport belt from the rollers.

Step 5: Insert new transport belt

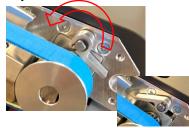


Place the new transport belt over the right transport rollers



now press the left roll to the right against the spring until it is possible to place the transport belt on the left roll.

Step 6: Tension the belts



Turn the tension lever back to the left to press the transport rolls against each other.

### **Step 7: Close the machine covers**



Fit the upper cover and screw it with the prepared hex key.



Now you can reconnect the power cord and switch on the machine.

# Film guide pins

For a more effective air volume or better film guide for the film Types 8.3 - 8.5 use the two guiding pins.



Screw the pins at the machine casing with the prepared hex key



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

### **Error codes**

The AirWave2 has an integrated diagnostic program. In the event of an error, an error description will appear on the display and indicate the cause of error. This information will help you to correct the error:

#### Error film



Roll of film is empty or film is misthreaded

#### **Error electric**



Please contact our AirWave Packaging Service if this Error occurs repeatedly or if it would not be possible to reset.

### **Error heating**



Please contact our AirWave Packaging Service if this Error occurs repeatedly or if it would not be possible to reset.

# 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 function with foot pedal.

For a production on demand. Even if you have no free hand or if machine is inaccessible.



**AirWave 1/2 Jumbo big roll holder** for bigger rolls



AirWave 1/2 Overhead Solution Flex

For an automated air cushion stockage in ideal working height



AirWave 1/2 rolling basket

always brings your air cushions to the ergonomically correct working height. Locally flexible.

#### **OPERATING INSTRUCTIONS**



**AirWave 1/2 mobile table solutions**Bring your machine to the ideal working height. (compatible with Docking station)



#### AirWave 1/2 docking station

For a decentralized consumption with mobile rolling container completely independent of machine position.



#### AirWave 1/2 coiler unit

For the production of endless rolled sheets of the cushion mats

# Advanced settings

To change advanced settings touch



at start screen.

Enter code "1-3-5", continue with



and choose desired submenu.

Submenu in Level 135	meaning	Factory setting	Choices
Running speed	Production speed	66 ft./min	- 8 m/min (26ft/min) - 12 m/min (66ft/min) - 20 m/min (39ft/min) With Jumbo roll holder: - 12JR / 20JR
External control	Start/Stop with connected ext. tool	Deactivated	- External sensor - Foot pedal - Large roll coiler - Deactivated
Delay time ext. sens.	Delay time sensor reaction	0	Off/0 - 99 sec
Foil detection sensor	Foil detection sensor	Roll holder	- Roll holder - Jumbo roll holder - Airpipe - All deactivated
Standby time	Resting time until machine starts cooling	20 min	Off/0 – 99 min
Units	Imperial or metric units	°F & Feet	- °C - °F - Meter - Feet
Time	Time of day	24 h	- am/pm - 24 h hh : mm
Date	Date	mmdd	- mmdd - ddmm
Communication	Internal section	-	-
Start delay time	Delay "Start" via display	0	0 – 99 sec
Blowing time	Blower starts before/after film transport	0.0	0 : Motor & blower same time - : Blower before motor (0,1 - 1,0 sec) + : Blower after motor (0.1 - 1.5 sec)

# Maintenance & Cleaning

The AirWave2 is a low maintenance machine.

Mechanically claimed parts can show traces of abrasion after certain operating time. Furthermore there can occur contamination or residue of at the AirWaye2.

#### Our recommendation at regular intervals:

- 1) Check Teflon belts and replace as the circumstances require
- 2) Check blue transport belt and replace as the circumstances require
- Check red and white transport rolls regarding contamination and grip clean or replace if necessary
- 4) The gear wheels always need to be sufficiently greased
- 5) Check knife, see the cutting of the film, if necessary turn 180° or replace
- 6) If necessary clear the machine of contamination and residue of film. Consider also knife slot at air pipe, sealing block and other areas of the machine.

### Warranty

AirWave2 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 AirWave2:
- 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:

AirWave Packaging LLC www.airwave-packaging.com

# **Declaration of Conformity**

The machine AirWave2 and it's equipment is compliant with the relevant harmonized standards listed according to the European EMC Directive, 2014/30/EU and LVD Directive 2014/35/EU. The compliance was verified by an independent specialized certifying company.

Technical records available on request.

# **Support and Service**

If you need support, advice or do you have any questions?

We are here for you:



https://airwave-packaging.com/support/

AirWave Packaging Inc, USA Tel: 1-888-824-7928

www.airwave-packaging.com