



# Airgel CAP

# Airgel CAP



The most efficient cooling system for closures

- Patented
- More than 1,000 units installed worldwide



The most efficient cooling system for closures

- Perfect and uniform cooling
- Permits to achieve the 90% of the final shrinkage



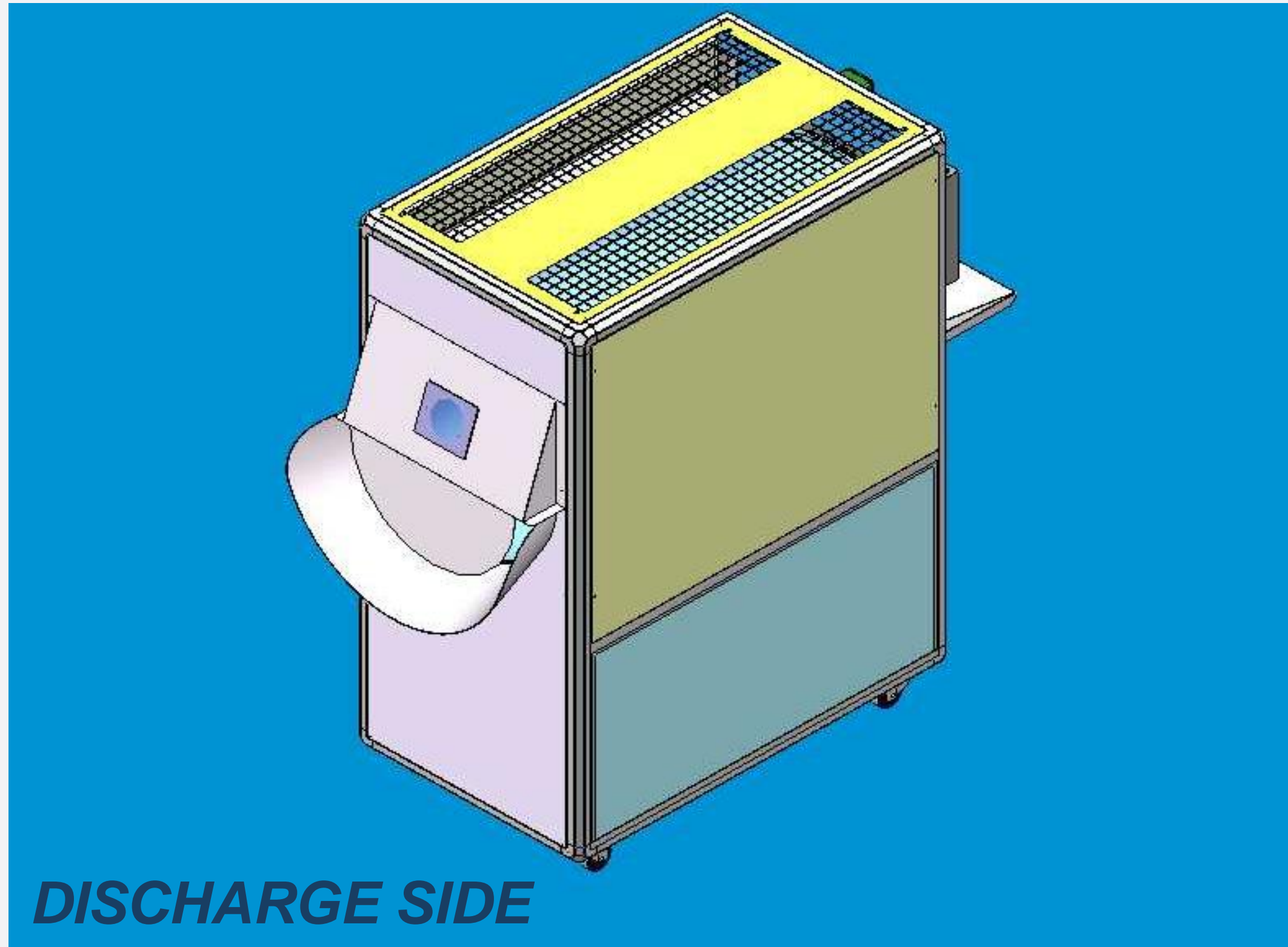
The most efficient cooling system for closures

## Results

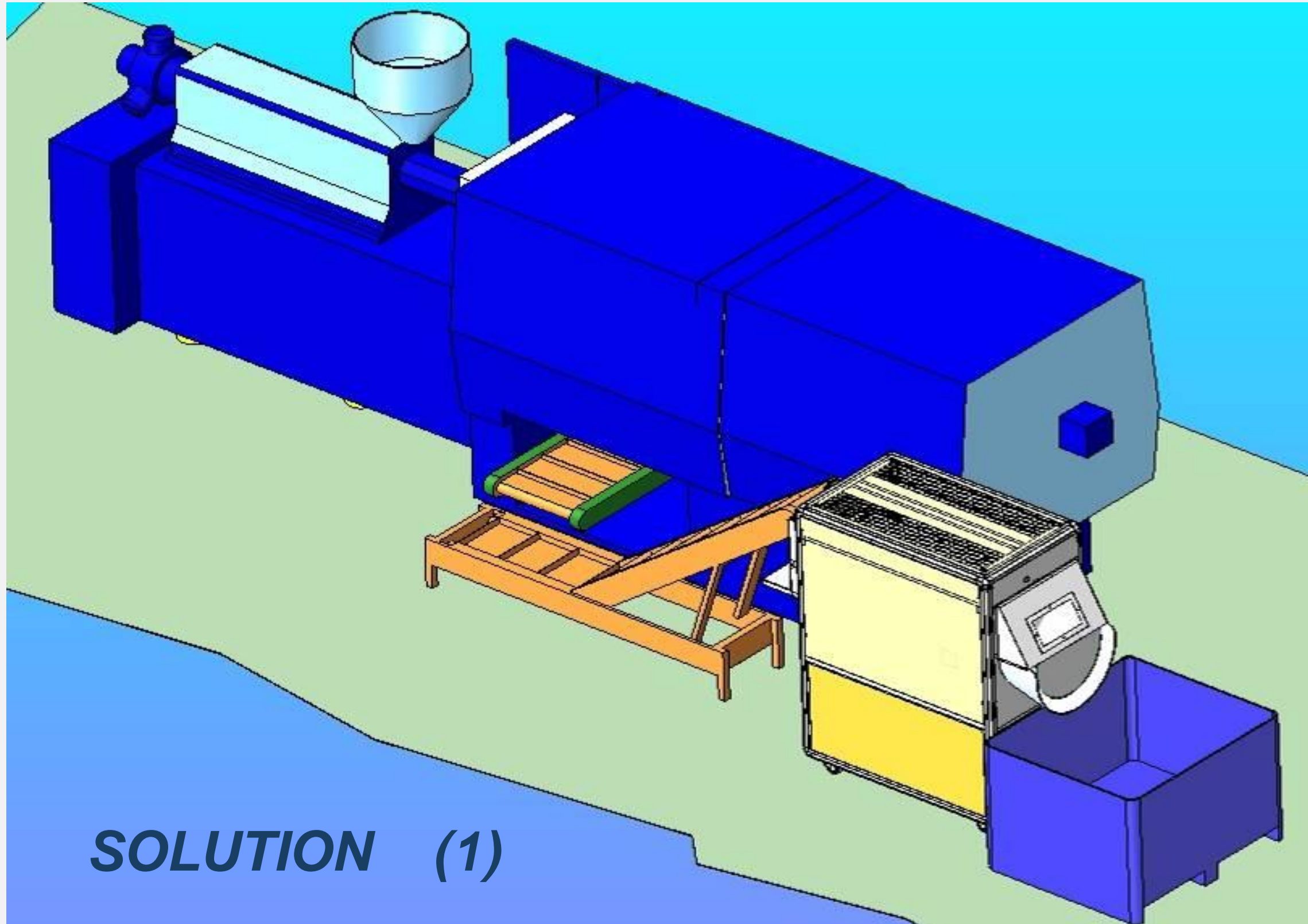
- Stabilization of the polymer immediately after moulding
- Dimensional stability (10 times better)
- No deformation/defects
- Permits to immediately use the final product



## Airgel CAP – How it looks like



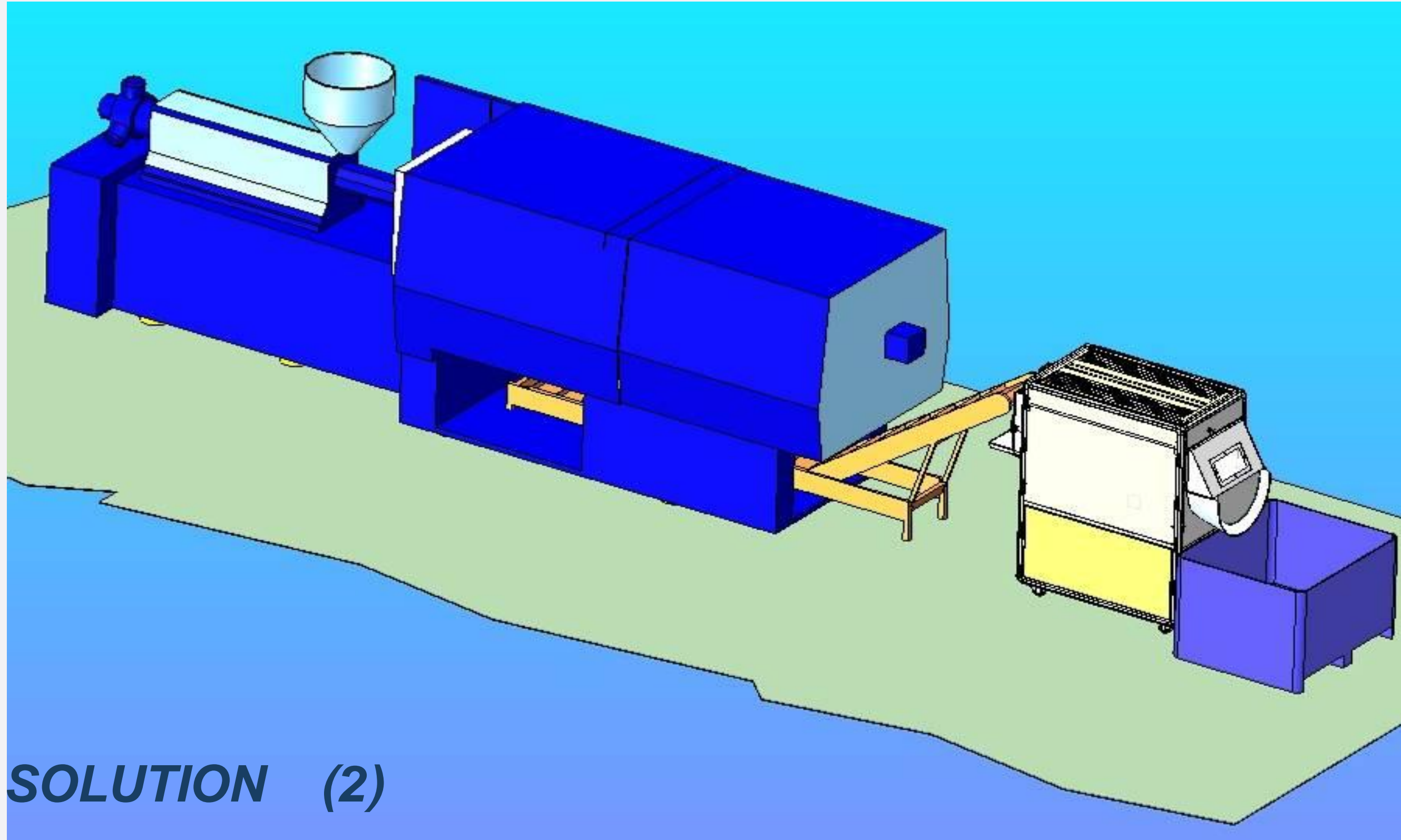
## Airgel CAP – How to install it



**SOLUTION (1)**



## Airgel CAP – How to install it



**SOLUTION (2)**



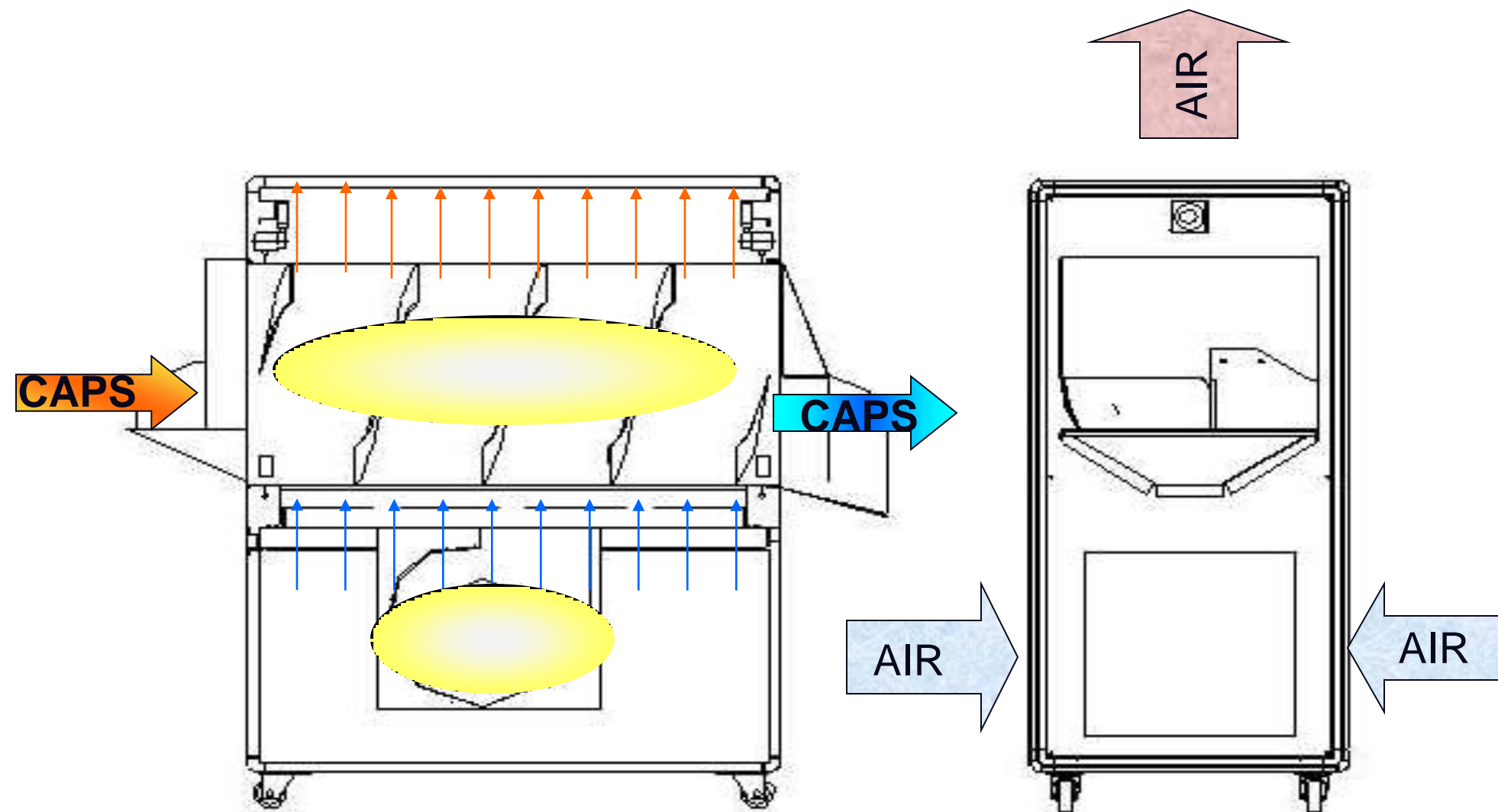
## Airgel CAP





## Airgel CAP – How it is made

*Basically the machine is made of:*



*Large rotating perforated drum in stainless steel with internal spiral*

*Ventilator*

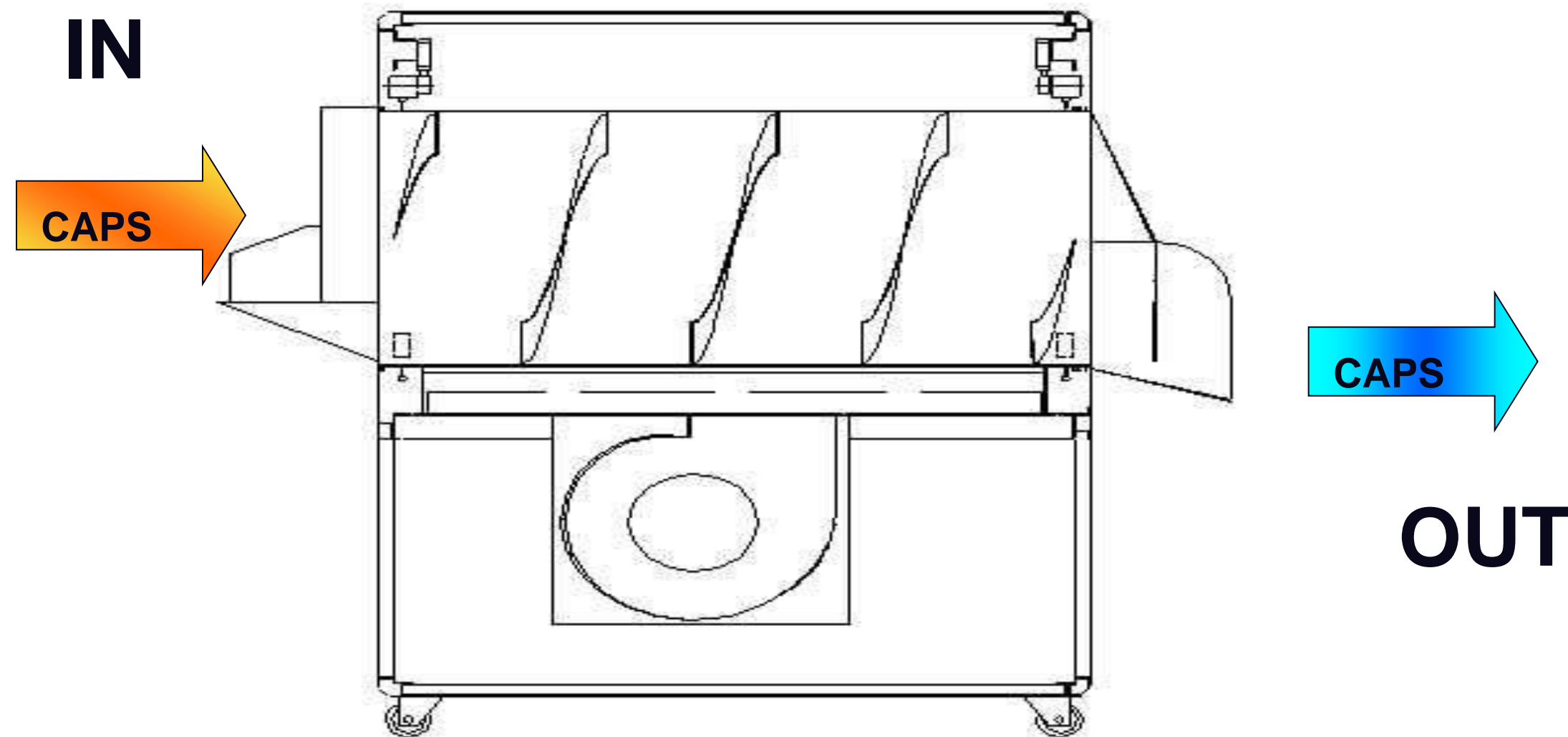
*Control air flow*

*Drum rotation speed control*

*Inlet/outlet hoppers*

## Airgel CAP – How it works

*By adjusting the speed of the rotating drum and the air flow, caps are kept almost suspended in the air with the highest cooling efficiency*



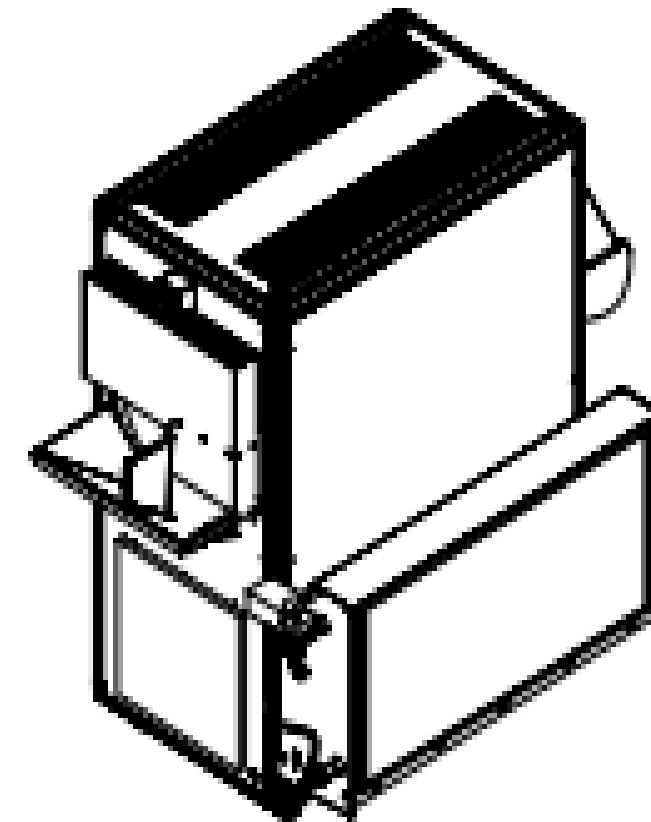
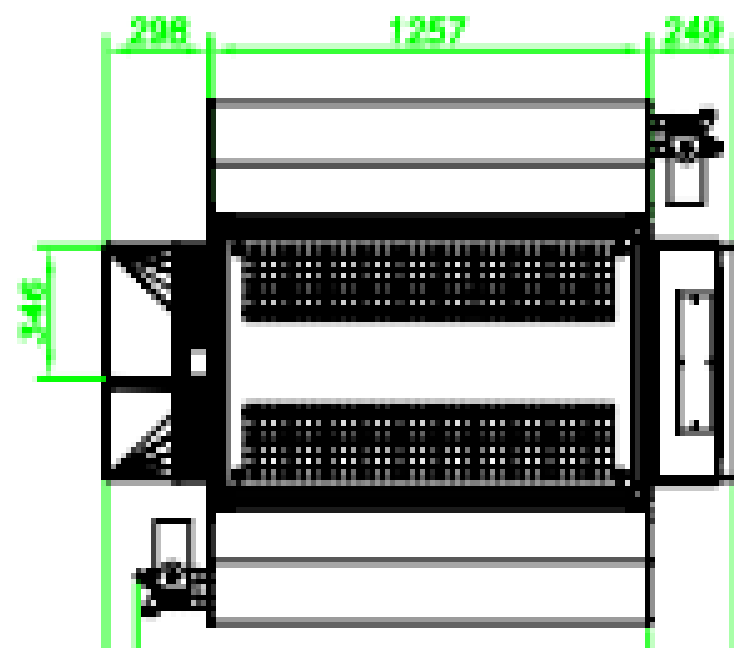
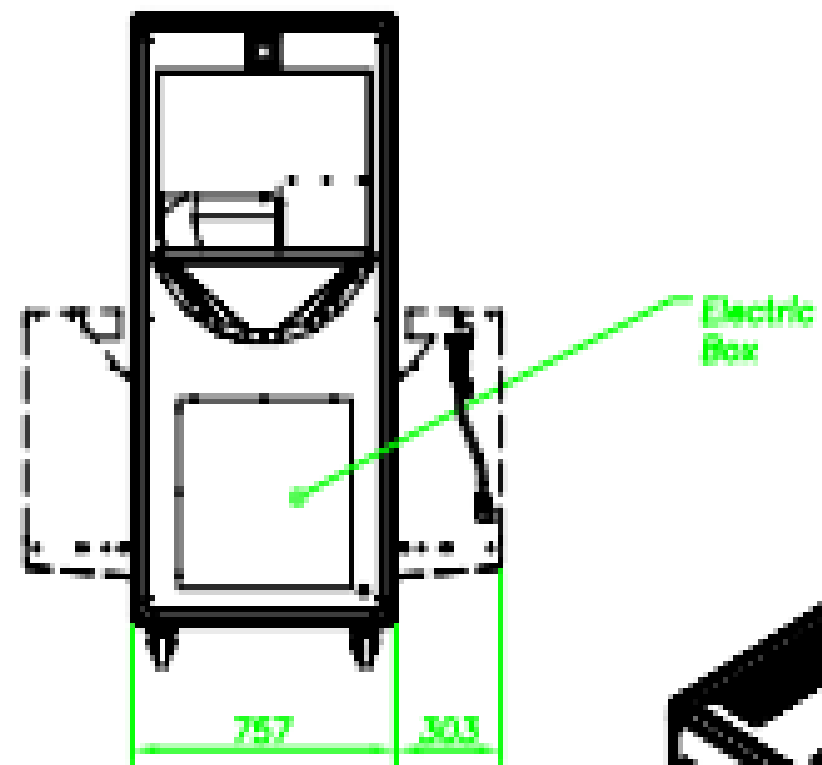
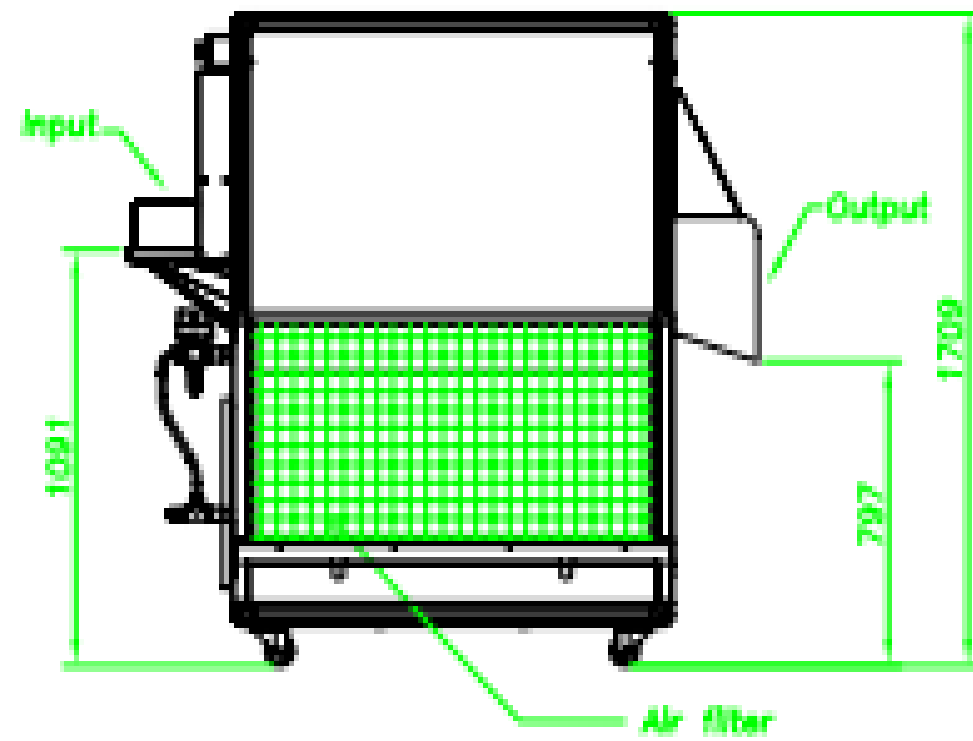


## Technical specifications

Model		CAP COOLER CAP/SF	CAP COOLER CAP/HF
Fan power	kW	3	4
Gearmotor power	kW	0,13 kW	0,25 kW
Noise level (*)	dB(A)	<80	<80
Color		White RAL 9010	White RAL 9010
Weight	Kg	262	370
Dimensions (L-W-H)	mm	1257-757-1709	2000-757-1722
Dimensions (A-B)	mm	1091-797	1104-810
Dimensions (L1)	mm	~1083	~2550

Available Power Supply: 400V/50Hz 380V/60Hz 460V/60Hz

## Option: Pre-cooler for high ambient temperature





## Option: Pre-cooler in closed loop

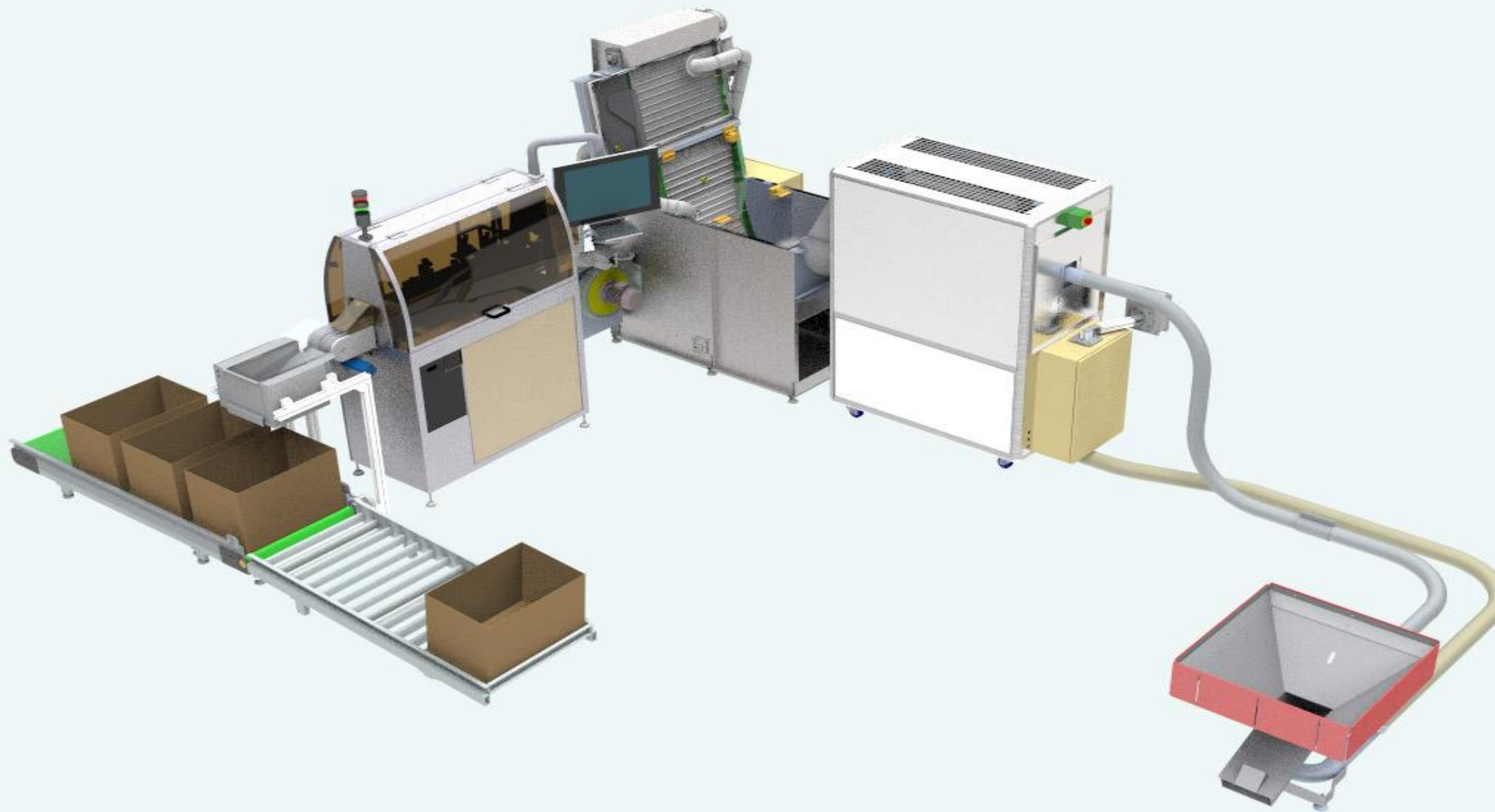


# Airgel CAP - Complete treatment : GENERAL LAYOUT





# Airgel CAP - Complete treatment : GENERAL LAYOUT



## ***Complete closure treatment line***

It is formed of :

- Cap Cooler feeding system
- Cap Cooler
- Cap Orienter
- Cap Sorter
- Box shifter
- Not all the above elements must be used to have a cap treatment line

# Airgel CAP - Complete treatment line – Feeding system

Two SOLUTIONS available:

- 2 conveyor belts
- pneumatic conveying system





# Airgel CAP - Complete treatment line – Orienting system

Two SOLUTIONS available:

- Horizontal centrifugal bowl (up to 50,000 caps/hr)
- Vertical gravitational conveyor (up to 150,000 caps/hr)



# Airgel CAP - Complete treatment line – Cap Sorter

6 cameras system

Performs multiple checks

Suitable for up to 3,000 caps/min

## General Detection Specifications for all Types of Beverage Closures

### Moulding Defects

Horizontal Flashing	x
Vertical Flashing	x (50µm)
Missing Flags	x
Smileys (lifted tamper band)	x (50µm)
Deformation	x
Pulled Thread	x
Short Thread	x
Cracks	x
Contamination Internal	x
x(50µm)	x (50µm)
Colour Variation	x

### Liner Defects > 100 m<sup>2</sup>

Liner Void (under-fill)	x
Liner Flash (over-fill)	x
Clipped Liner	x
Misplaced Liner	x
Double Liner	x
Contamination	x

### Dimension Testing • Accuracy • ±25µm

Outer Diameter	x
Seal Diameter	x
Ovality	x
Height	x
Tamper Band (width)	x
Bulge (width)	x
Knurling (width)	x



# Airgel CAP - Complete treatment line – Box Shifter

Belt conveyor and roller

Available in different versions:

- 2 (positions on hold) +1 (on filling) +2 (filled boxes)
- 3 + 1 + 3
- 4 + 1 + 4

It can be adapted to the space available

Suitable for boxes 60x40xH40 cm



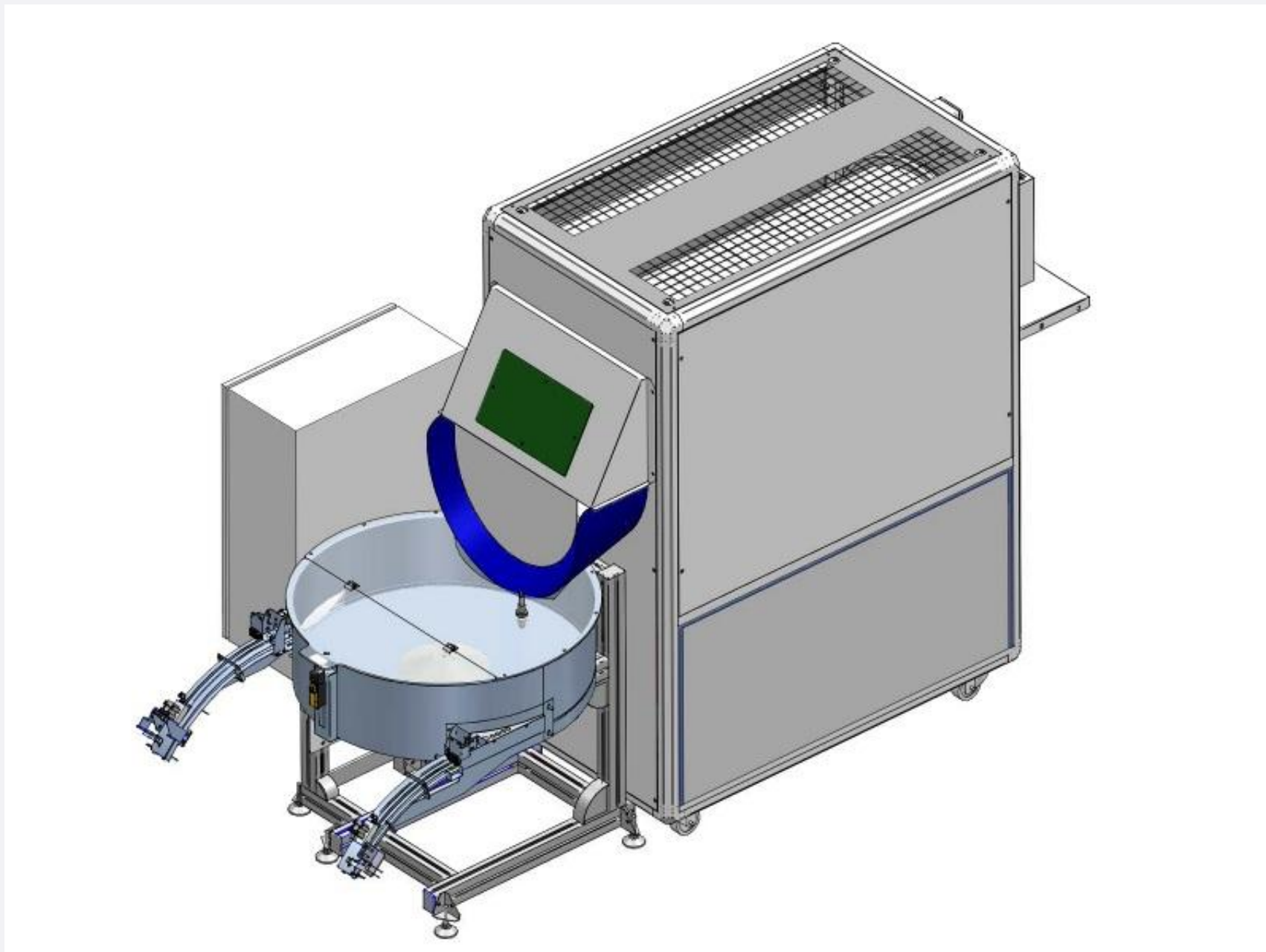


# Airgel CAP - Complete treatment line – Cap Counter

Permits to fill up to 2 boxes with the exact number of closures

Available in only the horizontal bowl version:

Suitable for up to 80,000 caps/hr



If you wish to get a quotation,  
we need to know:

- quantity of closures/hour
- weight of one closure
- diameter + height of one closure (drawing, if possible)
- city of installation
- maximum temperature inside the factory
- drawing of the injection moulding machine