

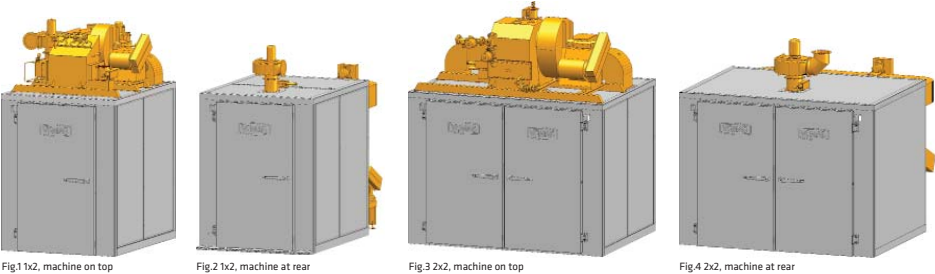
TECHNICAL DATA



PRODUCT INFORMATION

AEROMAT for application dry fruit & vegetables

The AEROMAT is the highly efficient drying installation for the efficient drying of fruits and vegetables, e.g. apricots, pineapple, prunes, apples, figs and tomatoes.



MACHINE		NUMBER OF TROLLEYS	EXTERNAL DIMENSIONS				INTERNAL DIMENSIONS		
			LENGTH	WIDTH	DEPTH	HEIGHT INCL. MACHINE	EFFECTIVE WIDTH x LENGTH	EFFECTIVE FOOTPRINT	
			mm	mm	mm	mm	mm	m²	
1-ROW	TOP	REAR	2	2413	1920/1750	1466	3170/3320; 3780/3930	2100 x 1025	2.2
			3	3468	1920/1750	1267	3224 ; 3654	3150 x 1025	3.2
			4	4523	1920/1750	1603	3266 ; 3932	4200 x 1025	4.3
		5	5578	1920/1750	-	3910	5250 x 1025	5.4	
		6	6633	1920/1750	-	3921/4069	6300 x 1025	6.5	
		8	8747	1920/1750	-	4095/4241	8400 x 1025	8.6	
		10 ⁽²⁾	10857	1920	-	4531	10500 x 1025	10.8	
2-ROW	TOP	REAR	4	2413	3300	1131	3263 ; 3580	2100 x 2050	4.3
			6	3468	3300	1384	3411 ; 3910	3150 x 2050	6.5
			8	4523	3300	1531	3411 ; 4080	4200 x 2050	8.6
		10 ⁽²⁾	5578	3300	-	4080	5250 x 2050	10.8	
		12 ⁽²⁾	6633	3300	-	4230	6300 x 2050	12.9	
		14 ⁽¹⁾⁽²⁾	7688	3300	-	4818	7350 x 2050	15.1	



- Notes

 - Other sizes and designs on request
 - Service access of approx. 800 mm is required behind the installations
- All information relates to installations with manual transport of trolleys and manual door with leaf
 - (1): only with steam-heated (2): not with electrically-heated

Exploit the potential of our installations to the economic maximum by using our world-wide network of consultants.
Feel free to contact us.
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BENEFITS

1. TOP ENERGY EFFICIENCY

2. ABSOLUTE CONSISTENCY IN PROCESSES & PRODUCTS

3. CAPTIVATING QUALITY

4. OUTSTANDING HYGIENE

FLOW CONDITIONS

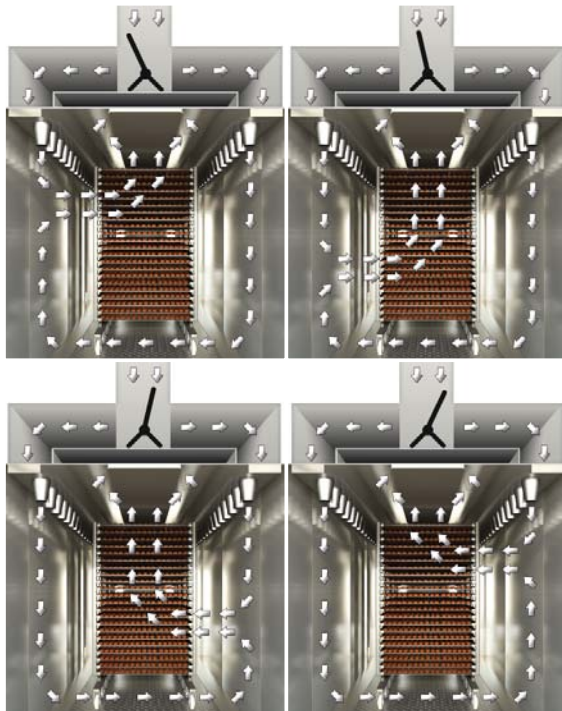


Fig. VEMAG air change flap

In order to produce a top-quality product of consistent quality in the shortest possible time, the same climatic and flow conditions must prevail throughout the whole chamber.

The radial fan circulates the whole chamber volume several times a minute at intervals adapted to suit the process, guaranteeing that a perfect product with consistent quality always results. In addition, the tried and tested air change flap system ensures dynamic circulation of air around the product, achieving greater consistency.

Without an air change flap, there would be a constant flow of air through the centre of the trolley, resulting in no guarantee of consistent production and severe fluctuations in the quality of products.



OPTIONS



EcoCon HEAT RECOVERY

Pre-heating fresh air allows energy requirements to be reduced by up to another 30 %.



CENTRAL MANAGING AND DOCUMENTATION SYSTEM (LDS)

The system reduces complex production processes and a wide-ranging distribution of installation components to a reliable and convenient general overview for the operator.



ETHERNET CONNECTION

Messages are e-mailed to a defined e-mail distribution list.



COMPACT INSTALLATION CHAMBER

For especially demanding applications, we offer a compact installation chamber up to a size of 20 trolleys.



TYPE OF HEATING

The AEROMAT PET is available in steam-heated, direct/indirect gas-heated and electrically-heated designs.



FULLY AUTOMATIC CIP SYSTEM

The fully-automatic central cleaning system with rotating nozzles in the chamber achieves the best possible hygiene. A foam pump is also available as an option.

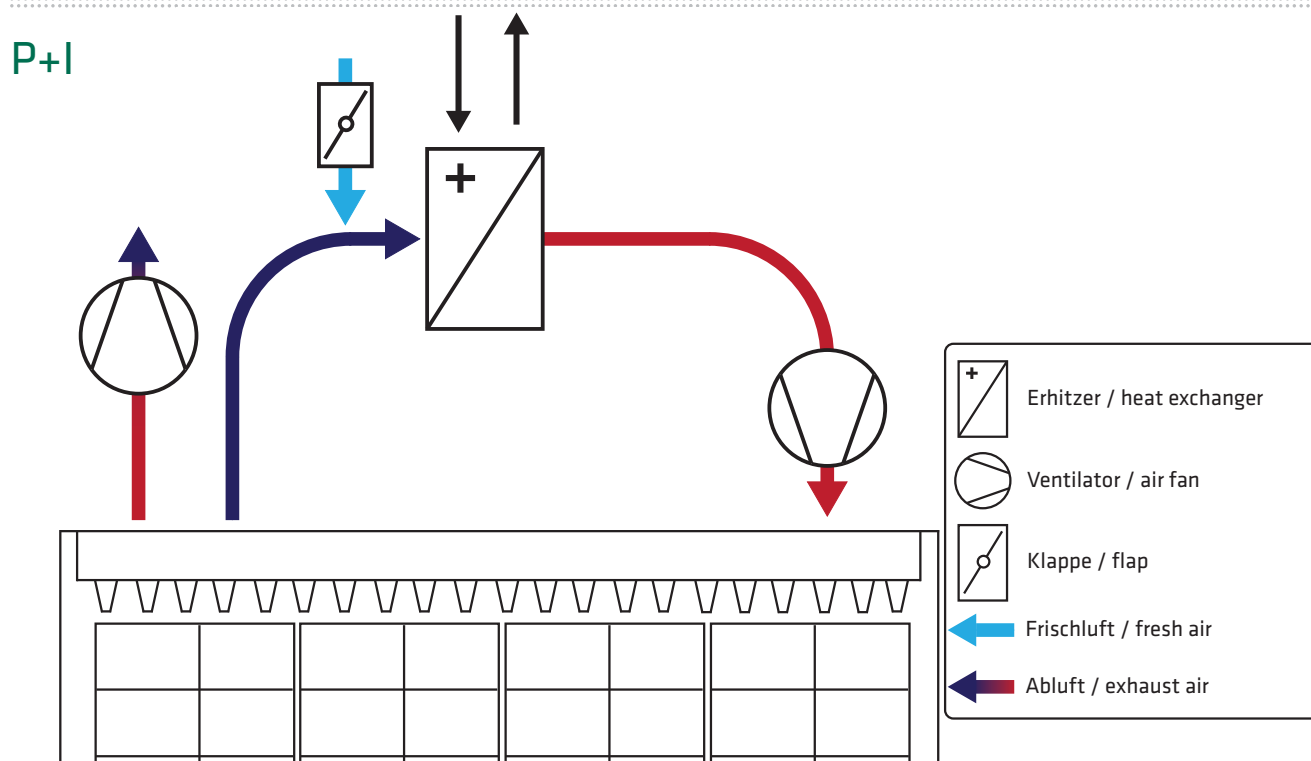


ARRANGEMENT OF THE MACHINE

You have the choice between a machine positioned on the back or on the roof.



TECHNICAL DATA



ENERGY VALUES

MACHINE	NUMBER OF TROLLEYS	ELECTRICITY		SATURATED STEAM HEATING (4-6 bar)	BURNER CAPACITY	COMPRESSED AIR VALVES (6 bar)
		electrically -heated kW		steam-heated only kW	gas-heated only kW	m ³ /h
1-ROW TOP	REAR	2	7.2 83	110	110	2.5
		3	9.2 99.2	160	110	2.5
		4	12.7 126.5	200	110	2.5
	FRONT	5	17.4 146.9	250	200	2.5
		6	17.4 183.2	290	200	2.5
		8	21.7 241.7	380	350	2.5
		10 ⁽²⁾	35.7 -	460	350	2.5
2-ROW TOP	REAR	4	12.7 126.5	200	110	2.5
		6	17.4 183.2	290	200	2.5
		8	21.7 214.7	380	350	2.5
	FRONT	10 ⁽²⁾	35.7 -	460	350	2.5
		12 ⁽²⁾	35.7 -	520	350	2.5
		14 ⁽¹⁾⁽²⁾	44.7 -	600	-	2.5

Notes

- Other sizes and designs on request
- Maximum values, actual consumption values lower
- Service access of approx. 800 mm is required behind the installations

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TECHNICAL DETAILS

TOP ENERGY EFFICIENCY

1.

- ⌘ Highly-insulated chamber with 82 mm-thick chamber elements insulated with CFC-free hard polyurethane foam reduces heat loss by up to 40 % compared to walls insulated with rockwool.
- ⌘ The central circulation fan achieves a higher degree of efficiency than conventional individual fans.
- ⌘ Our air change flap system enables us to reduce circulating air and thus save a significant amount of energy.
- ⌘ The special dynamic form of air distribution minimizes the overall flow volume of the fan, so only low fan capacities are required.
- ⌘ Pre-heating fresh air with the EcoCon heat recovery unit allows energy requirements to be reduced by up to another 30 %.

ABSOLUTE CONSISTENCY IN PROCESSES & PRODUCTS

2.

- ⌘ Temperature and relative humidity are measured for optimum control of climatic conditions.
- ⌘ The tried and tested air change flap system achieves dynamic air circulation which generates optimum qualities on products which are both lying and hanging.
- ⌘ A central heating unit reliably provides a constant climate throughout the chamber.
- ⌘ Flow conditions are perfectly adapted to the different process condition by the radial circulation fan which has a frequency inverter to provide infinitely selectable speeds.

CAPTIVATING QUALITY

3.

- ⌘ The installation can be dismantled and can thus be used in a different location.
- ⌘ We fit a 3-point latch to make the door absolutely smoke-proof.

OUTSTANDING HYGIENE

4.

- ⌘ Cleaning results are guaranteed to be reproducible with minimal use of chemicals by means of the automatic CIP system included in the scope of supply. This system can be linked to a customer's foam-cleaning system.