

ALD Vacuum Technologies

High Tech is our Business

VFD VACUUM FREEZE DRYER

INDUSTRIAL FREEZE DRYER OF COFFEE & FRUITS



TO PRESERVE FLAVOR
AND VITAMINS ON AN
INDUSTRIAL SCALE

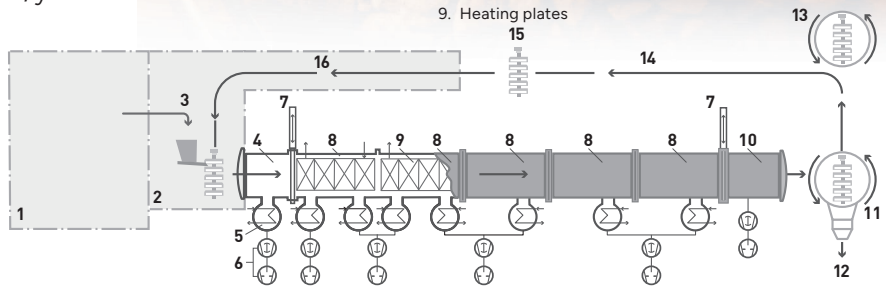


www.ald-vt.com

Industrial Freeze Drying

COFFEE & FRUITS

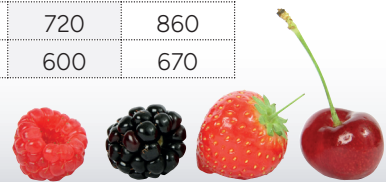
- ▶ Leading process for the production of freeze-dried coffee (Robusta or Arabica) and fruits
- ▶ High quality freeze-dried, soluble coffee with natural aroma
- ▶ Plant size from 2.500 to 6.000 t/y
- ▶ Reproducible product quality



1. Freezing chamber
2. Loading chamber
3. Automatic tray filling station
4. Entry lock
5. Condenser
6. Vacuum pumping system
7. Vacuum tight gate valve
8. Vacuum chamber
9. Heating plates
10. Exit lock
11. Unloading station
12. Product output
13. Washing machine
14. Overhead rail system for carrier transport
15. Carrier
16. Precooling line for carriers

TYPE	Standard	Standard	Standard	Jumbo	Jumbo	Jumbo
Number of tunnels	1	2 x 1	2	2	2,5	3
Diameter of tunnel [m]	2	2	2	3,3	3,3	3,3
Surface heating plates [m ²]	46	92	92	276	345	414
Capacity [kg/24h]						
Coffee 40% solid content			3100	9300	11600	14000
Fruits 10% solid content	280	560				
Electrical energy [kWh/h] ¹	25	50	70	130	140	150
Electrical energy [kWh/h] ²			185	290	300	330
Steam 4 bar [kg/h]	185	370	390	1175	1400	1640
Fresh water [m ³ /h]	0.3	0.6	0.6	1.5	2	2
Compressed air [m ³ /h]	10	10	10	15	15	15
SPACE REQUIREMENTS						
Length [m]	24	27	40	56	60	64
Width [m]	10	18	16	18	18	18
Height [m]	4	4	15	15	15	15
REFRIGERATION CAPACITY						
Sublimation [kW]	210	385	195	580	720	860
Freezing [kW]	65	90	300	530	600	670

1. The consumption data refer to the necessary supply of energy for the freeze-drying process exclusively.
 2. The consumption data refer to the necessary supply of energy for freezing and handling of liquid products.



ALD Vacuum Technologies

Otto-von-Guericke Platz 1
 63457 Hanau, Germany
 Phone: +49 6181 307-0
 Fax: +49 6181 307-3290
 E-Mail: info@ald-vt.com

ALD Vacuum Technologies North America, Inc. (USA)
 info@ald-usa.com
 Phone: +1 860 386 7227

ALD France
 info@ald-france.eu
 Phone: +33 4 76 33 64 40

ALD Vacuum Technologies (Thailand) Co. Ltd.
 SouthEastAsia@ald-vt.com
 Phone: +66 2 550 7880

OOO ALD Vacuum Technologies (Russia)
 www.ald-russia.ru
 info@ald-russia.ru
 Phone: +7 495 78767-34

ALD Vacuum Technologies India Pvt. Ltd.
 www.aldvt-india.com
 sales@aldvt-india.com
 Phone: +91 91520 03246/47

ALD-C&K Vacuum Technologies (Suzhou) Co., Ltd. (PR China)
 www.ald-cnkn.com
 info@ald-cnkn.com
 Phone: +86 512 6385 8833

ALD Thermo Technologies Far East Co. Ltd. (Japan)
 In charge of: Japan, South Korea, Taiwan
 infoFE@ald-vt.de
 Phone: +81 3 5961 3017