

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



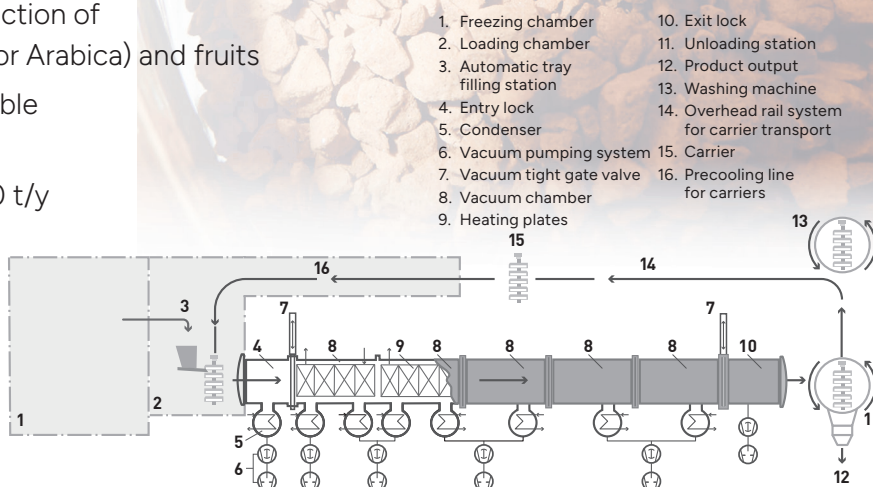
ald

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Industrial Freeze Drying

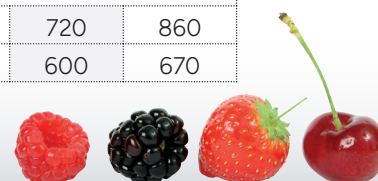
COFFEE & FRUITS

- 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



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.



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