

流态化速冻装置 Fluidized Freezer



Two- stage fluidized quick freezer

■ The fluidized freezer consists of insulation structure, mesh belt, transmission system, vibration device, air distribution system, evaporator, feed inlet, discharge port and electric control system.

■ MVD series two- stage fluidized freezer: foods are frozen in two stages; quick freezing of surface layer is performed in the first stage; i.e. surface layer is quickly cooled to freezing point temperature, so that food particles are not mutually bonded under the action of the mechanical vibration device; then foods enter the second section via the intermediate guide plate for deep freezing, so that the core temperature of the particles of frozen foods reaches -18°C .

Product features

- High efficiency, energy saving, safety
- The reasonable and uniform air distribution mode realizes “full fluidization” of foods and reaches individual quick freezing effect with high efficiency.
- The totally enclosed insulation structure minimizes loss of refrigeration capacity and realizes remarkable energy saving effect.
- The thoroughly clean freezing environment meets the requirements of international food sanitation and safety as well as HACCP certification.

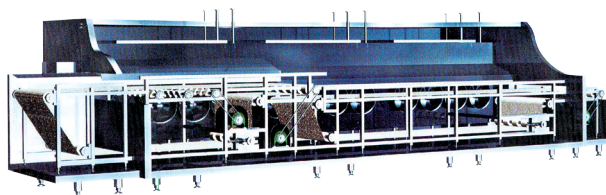
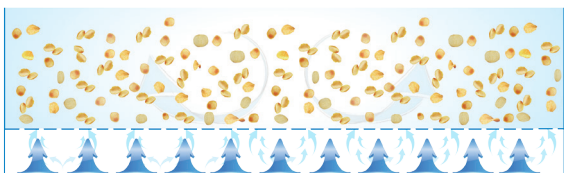


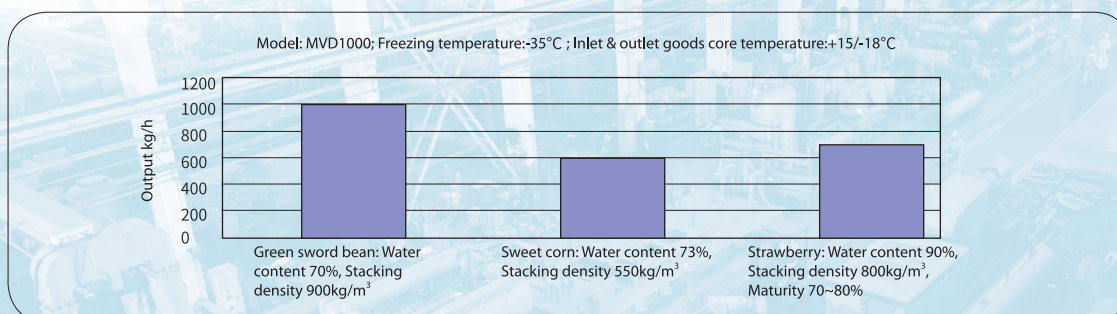
Table of performance parameters of MVD series fluidized freezers

Product model	MVD1000	MVD1500	MVD2000	MVD2500	MVD3000
Nominal freezing capacity (kg/h)	1000	1500	2000	2500	3000
Effective width of mesh belt (mm)	1150				
feed inlet height (mm)	100				
Inlet & outlet material goods core temperature (°C)	+15/-18				
frozen temperature (°C)	-35				
Defrosting water quantity (m ³ /time)	16	22	30	36	43
Cold consumption under nominal working conditions (kW)	150	220	290	360	430
Installed capacity (kW)	28	40	52	58	71
Net weight(t)	6	8	9.5	10	12
Operating weight (t)	6.6	8.8	10.5	11	13.2

Note: The nominal freezing capacity is designed as per green sword beans, with the water content of 70% and the material distribution density of 900kg/m³;

Freezing capacity comparison

■ The freezing capacity of the products of the same model is different for different foods or in different application environments. Taking MVD-1000 as an example, refer to the following figure for the output of certain frozen products at -35 °C freezing temperature:



Structural parameters

Product model	Total length L		Total width W		Total height H		Storage body length L1		Feeding height H1		Discharging height H2	
MVD1000	7890	7940	4500	4550	3200	3250	5820	5870	1800	1825	1100	1125
MVD1500	10800	10850					8730	8780				
MVD2000	12740	12790					10670	10720				
MVD2500	15650	15700					13580	13630				
MVD3000	18330	18380					16490	16540				

Note: the data in red fonts in the table denote the outside dimensions of the products manufactured by Yantai Moon Vietnam Production Base.

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* The specifications are subject to change without notice.