

平板速冻机

Contact Freezer



Product features

■ High efficiency

The freezing plate is a professionally designed plate evaporator, ensuring uniform and smooth flowing of refrigerant, making the surface temperature of the plate uniform and consistent and realizing high heat transfer efficiency.

The freezing plate is an aluminum alloy plate, which is manufactured using the welding technology and equipment of American MILLER Company to ensure welding quality, plate leveling and small deformation. The integral plate is treated for anodic oxidation and a layer of uniform and compact oxide film is formed on the plate surface, so that the plate is resistant to corrosion, transfers heat uniformly and has good freezing effect. The liquid feed and air return flow uses a single plate for liquid feed and air return, thereby realizing short flow and small flow resistance.

The liquid feed and air return manifold uses stainless steel materials to ensure the requirements of food safety and sanitation are satisfied.

■ Reliable

Both the framework and the yoke are made of hot-dip galvanized materials or stainless steel sections and thus have strong corrosion resistance.

The liquid feed and air return pipes connected with the freezing plate all use stainless steel corrugated pipes, which fluctuate freely in low temperature environment, can be used frequently for long and have high reliability. The professionally designed hydraulic system has multiple protective devices and thus can ensure long-term-stable operation of the equipment. The oil pump is a high precision vane pump, which is characterized by compact structure, stable operation, low noise, small pressure flow pulsation and long service life. The cylinder is a stainless steel cylinder and oil seal is imported to ensure reliable operation of the hydraulic system.

■ Compatible

The refrigerants used in the standard design of the freezing plate include R717 and R22; R404A and R744 or other coolants can be used according to the customers actual requirements.

The width design of the freezing plate considers convenient loading and unloading by operating personnel all the more.

MPF series contact freezers

■ The freezing mode of MPF series contact freezer is double-sided contact freezing with intermittent loading and unloading; food is placed between multiple layers of freezing plates; driven by the hydraulic device, freezing plates move; when freezing plates are pulled apart, food is loaded and unloaded; when freezing plates are held down, food is frozen.

Table of Performance Parameters of MPF Series Contact Freezers

Model	MPF960	MPF1200	MPF1500	MPF1800
Outline dimension L*W*H(mm)	3350*1680*2700 3150*1680*2700	3350*1680*3050 3150*1680*3050	3750*1680*3050 3550*1680*3050	3750*1680*3300 3550*1680*3300
Freezing plate size (mm)	1660*1261		2060*1261	
Effective layers of freezing plates	8	10	10	12
Inlet & outlet cargo core temperatures (°C)	+20/-18			
Nominal freezing capacity (kg/shift)	960	1200	1500	1800
Installed power (kW)	1.5			

MPF-(F)Z series contact freezers

■ MPF-(F)Z series contact freezer consists of MPF series contact freezer and its matching refrigerating compressor condensing unit, all of which are installed collectively on the public base and form an integral instant freezing system self-provided with refrigeration sources.

■ According to different condenser forms, there are two sorts of contact freezers such as air-cooled contact freezers and water-cooled contact freezers.

Table of Performance Parameters of MPF-Z Series Contact Freezers

Model	MPF1210Z	MPF1430Z	MPF1694Z	MPF1210FZ	MPF1430FZ
Outline dimension L*W*H(mm)	4350*1940*3050 4350*1940*3050	4350*1940*3300 4350*1940*3300	4600*2160*3050	4630*1940*3050 5320*1940*3050	4750*1940*3300 4750*1940*3300
Freezing plate size (mm)	1418*1770		1732*1970	1418*1770	
Effective layers of freezing plates	11	13	11	11	13
Inlet & outlet cargo core temperatures (°C)	+20/-18			+20/-18	
Nominal freezing capacity (kg/shift)	1210	1430	1694	1210	1430
Installed power (kW)	50 66	65 80	95	50/68	70/82

MSP series contact freezers

■ The freezing mode of MSP series contact freezers is single-sided contact freezing; food directly contacts metal plates, cold quantity is transferred via metal plates to food, and meanwhile, heat convection of other surfaces of food is performed via the cold air generated by fans.

Table of Performance Parameters of MSP Series Contact Freezers

Model	MSP1200	MSP1500	MSP2400	MSP3000
Outline dimension L*W*H(mm)	3450*1650*1920	3450*1650*2280	5450*1650*1920	5450*1650*2280
Freezing plate size (mm)	2060*1236		4060*1236	
Effective layers of freezing plates	8	10	8	10
Inlet & outlet cargo core temperatures (°C)	+20/-18			
Nominal freezing capacity (kg/shift)	1200	1500	2400	3000
Installed power (kW)	1.5	2.2	2.2	3

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* The specifications are subject to change without notice.