Reference specifications

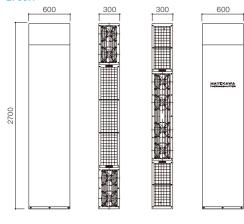
	Туре	MTS-205	MTS-215	MTS-225	MTS-2	35 MTS	-245 M	TS-255	MTS-265	MTS-275	MTS-285	MTS-295	
	Height (mm)	2,000	2,100	2,200	2,300	2,4	00	2,500	2,600	2,700	2,800	2,900	
Outer dimensions	Width (mm)	600											
	Length (mm)	300											
Standar	rd opening width (mm)	Up to 3,000											
Estimated weight: Left + Right (kg)		80 + 80 85 +			5 + 85		95 + 95			100 + 100		105 + 105	
Power supply		3-phase 200V, 50/60 Hz											
Main materials		Stainless steel (SUS304) Hairline finish (except for fans and other internal parts)											
	Model	22 cm pressure bearing flow fan											
	No. of fans	6					8						
Fan	Nominal output (W/fan)	75											
	Voltage	3-phase 200V											
	Electricity consumption (50Hz/60Hz) in kW	0.66/0.84					0.88/1.12						
Ambien	t conditions	Operating temperature: -10°C to 45°C, relative humidity: up to 90% (without icing or frosting)											
Accessories		Control panel											
Options		Ceiling blind plate, shear packing, drain socket, inverter specification (50Hz range)											
	T	1470 005	1470 045	1470 005	LITO 005	1,170,045	1470 055	N.TO O			1470 005	1470 405	
	Type	MTS-305	MTS-315	MTS-325	MTS-335	MTS-345	MTS-355	MTS-3	865 MTS-37	75 MTS-385	MTS-395	MTS-405	

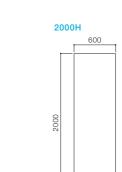
	Type	MTS-305	MTS-315	MTS-325	MTS-335	MTS-345	MTS-355	MTS-365	MTS-375	MTS-385	MTS-395	MTS-405		
	Height (mm)	3,000	3,100	3,200	3,300	3,400	3,500	3,600	3,700	3,800	3,900	4,000		
Outer dimensions	Width (mm)	600												
	Length (mm)	300												
Standa	rd opening width (mm)						Up to 3,000							
Estimated weight: Left + Right (kg)		110 +	- 110	115 + 115		120 + 120		130 + 130		140 + 140		145+145		
Powers	3-phase 200V, 50/60 Hz													
Main m	aterials	Stainless steel (SUS304) Hairline finish (except for fans and other internal parts)												
	Model	22 cm pressure bearing flow fan												
	No. of fans	10					12							
Fan	Nominal output (W/fan)	75												
	Voltage	3-phase 200V												
	Electricity consumption (50Hz/60Hz) in kW	1.1/1.4						1.32/1.68						
Ambien	t conditions	Operating temperature: -10°C to 45°C, relative humidity: up to 90% (without icing or frosting)												
Access	ories	Control panel												
Options		Ceiling blind plate, shear packing, drain socket, inverter specification (50Hz range)												

•Consult Mayekawa office, if a different height is required from the list above. •Installing a ceiling blind plate can prevent air flow from spreading out more efficiently blocking the flow out. Shear packing are required if there are gaps between Thermo shutter and walls or doors. •If there is a pressure differential between the outside and inside, air flow may be affected, reducing the efficiency of the system.

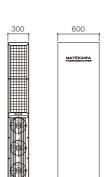
Outer dimensions

2700H











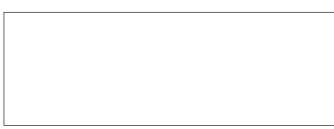




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PD128 01001605-16.05.



Horizontal Air Circulation Heat Shield Air Curtain

Thermo shutter

Optimal shielding of incoming warm air and outgoing cold air







The first horizontal air circulation system Keep cold air in and warm air out

With the ever advancing small-lot, high-demand delivery, doors in cold storage are opened more frequently.

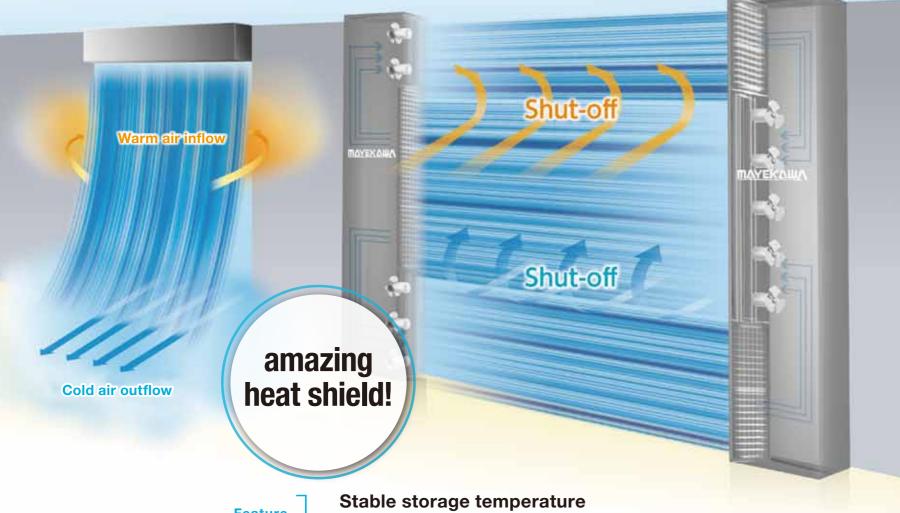
Thermo Shutter provides reliable heat shield performance that solves these problems.

Conventional air curtain [Vertical air from the top]

The air downflow at the bottom is not strong enough to block cold air flowing out.

Thermo shutter [Horizontal air circulation]

The horizontal air circulation shields cold air at the bottom and warm air at the top which have been the weakest area of the conventional air curtain.



Feature

ensures product quality.

Feature

Less condensation and frost in a cold storage decreases the defrost frequency.

Feature

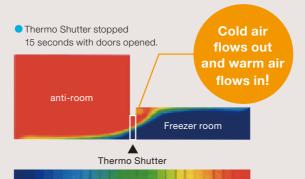
Prevention of heat loss reduces power consumption.

How Thermo Shutter heat shield works

CFD analysis shows obvious effect!

Temperature change simulation affected by warm and cold air flow with the doors open for 15 seconds while Thermo Shutter stopped and in operation. The pictures show the shielding effect even with the doors left open.







Cold air flows out





Cold air stopped by horizontal circulation air

■ The examples of installation

This product has shown its effect in various applications.

Thermo shutter has been adopted in a number of industries to high praise, including cold storage, logistic centers and loading docks. The table shows an energy reduction by adopting the product.

Over

		Before*1 Power consumption		After*2 Power consumption		Energy saving
	Logistic center	556	\longrightarrow	385	=	31%
	Inside 10°C / Outside air temperature (Thermo Shutter: 6 sets)	kWh/day		kWh/day		
	Loading dock	2,058	\longrightarrow	1,562	=	24%
	Inside 10°C / Outside air temperature (Thermo Shutter: 44 sets)	kWh/day		kWh/day		/ 0
	Cold storage	96.7	\longrightarrow	64.9	=	33%
	Inside -20°C / Outside 10°C (Thermo Shutter: 1 set)	kWh/day		kWh/day		00 /0

Power consumption of cooling system.



Cold storage Inside -25°C / Outside 5°C Size: 3,000mm (h) x 2,600mm (w) Door opening by Pull switch



Stats for outside installation on loading docks Inside 5°C / Outside air temperature Size: 2,000mm (h) x 2,600mm (w) Upward sliding door



Cold storage Inside -25°C / Outside -5°C Size: 2,600mm (h) x 2,200mm (w) Door opening by Pull switch