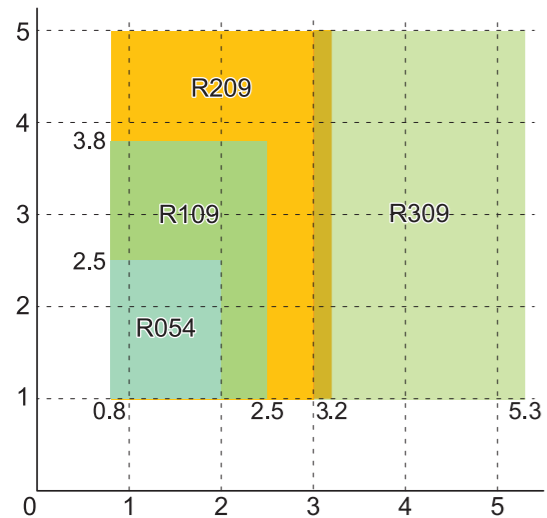
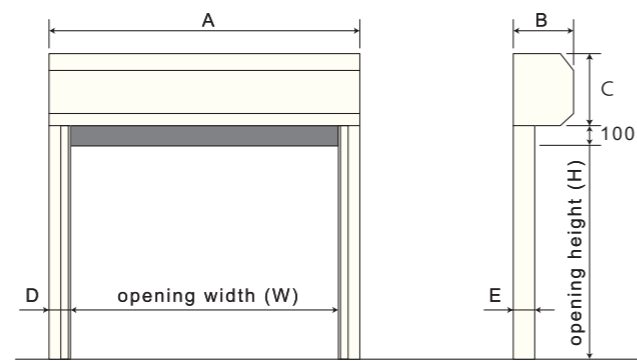


Product range (unit:m)



Drawing



	R054	R109	R209	R309
A	opening width + 220			
B	250	280	320	380
C	250	280	320	380
D	110			
E	110		110+18	

(unit:mm)

Product specification

		R054	R109	R209	R309
Production range	W	800-2000	800-2500	800-3200	3000-5300
	H	1000-2500	1000-3800	1000-5000	1000-5000
Size	Motor box	D250×H250	D280×H280	D320×H320	D380×H380
	Side frame	W110×D110			
Motor	Input power	single phase AC200V - 230V ±10%			
	Output	0.4kW	0.95kW		
	Operation speed (default)	open: 1.6m/sec. (max 2.0m/sec.) close: 0.7m/sec. (max 1.5m/sec.)		open: 1.0m/sec. (max 1.5m/sec.) close: 0.7m/sec. (max 1.5m/sec.)	open: 1.0m/sec. (max 1.0m/sec.) close: 0.7m/sec. (max 1.0m/sec.)
	Reduction ratio	1/14	1/10	1/23	1/50
	Reduction method	YUSEI HASUBA gear reduction system			
Core material of sheet	Middle pipe	φ15.9×t1.2		φ27.2×t1.2	φ38.1×t1.2
	Bottom pipe	high tension steel pipe φ27.2×t1.2+VE28(PVC pipe) * Circle stick is inserted in the steel pipe of φ27.2			φ38.1×t1.2+VP40(PVC pipe) * Circle stick is inserted in the steel pipe of φ38.1
Frequency	up to 100 times/hour			up to 60 times/hour	
Drum	aluminum				
Frame	aluminum				

*1. Ambient temperature: -10°C to 40°C (under no frozen and condensation) Humidity: less than RH85% *2. Install monban with keeping the motor box away from direct rain. Take waterproofing when water on the sheet is assumed to touch the connector of motor/brake sensor cord. *3. Clear size is to be unit by 100mm. *4. Consult with us if the size is out of standard size. In any case, we cannot manufacture according to dimension requested. *5. External appearance and specification of the product might be changed without a previous notice for improvement of quality. *6. Read and understand the instruction manual well when you operate the shutter. When the shutter is not operated for a long time, keep the sheet up to the upper limit stop position. In case of abnormal wind, the sheet will come off and injure people.

Equipment

Pull switch
1PPB / 3PPB / Non-contact switch (built-in the frame type / separated type)

Activation sensor A/D/E type

Activation sensor B type

Warning light

Guard pole base plate type
large: φ139.8×920
small: φ114.3×420
base: 200×200

in-the-floor type
large: φ139.8×total length 1620
in the floor 500mm
small: φ114.3×total length 720
in the floor 200mm

小松電機産業株式会社
KOMATSU ELECTRIC INDUSTRY CO.,LTD.

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Awards

Science and Technology Agency 1995.4
Notable invention selection prize of Science and Technology Agency

Medium and Small Business Research Institute Corporation 1991.1
Medium and Small Business Research Institute Prize

The New Business Conference 1991.10
New Business Grand Prize

Nikkei Inc 1993.1
Prize of Contributor to Regional Society

The Ministry of Land, Infrastructure and Transport 2007.10
Commendation by the Minister of Land, Infrastructure and Transport

External appearance and specification of the product might be changed without a previous notice for improvement of quality. The content of the description of this catalog is as of July, 2012.

Produce space value Effective on energy-savings and quality management

happy gate 門番

monban

R series



happy gate monban product introduction movies

New line-ups of monban are Pipeless type suitable for partition, Anti-explosion type controlled by the Air, Cold storage and Freezer type, and Integration type with the Air curtain and Air shower.

G series (pipeless type)

monban for the cold storage and freezer

monban controlled by the Air (Anti-explosion type)

monban integrated with the Air curtain

monban integrated with the Air shower

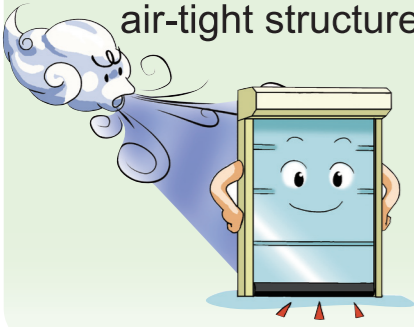
小松電機産業株式会社
KOMATSU ELECTRIC INDUSTRY CO.,LTD.

Patent Pending

Suitable for the partition between inside and outside,
and for insect and dust-control thanks to high airtightness.

1 Pipe type which is resistant to wind and gap of air pressure

Gap caused by the wind is prevented. High airtightness is realized thanks to air-tight structure.



Motor box
Side frame
Air tight seal

2 High insect and dust control

Opening time can be shortened and change of indoor environment can be controlled to a minimum.

Opening and closing speed **2m/sec.**

* only R054 and R109



3 Effective on saving electricity

Well-lighting sheet which keeps indoor lighted when the shutter is closed. High air conditioning effect by automatic operation

Transmittancy of Clear sheet **68%**



*Image is the clear sheet in happy gate G series.



Highly-concentrated capsaicin is combined.
Rat-control bottom sheet
*option



Compact outlook

Compact built-in the frame
Smart installation without preventing working environment



Countdown monitor

Show the time counting to start closing



Silent operation

Silent operation is realized thanks to the roller unit with rubber ring, which can protect abrasion of the sheet by friction.



Bottom pipe cushion structure

Impact when contact is eased and damage is prevented thanks to the bottom pipe with cushion structure.

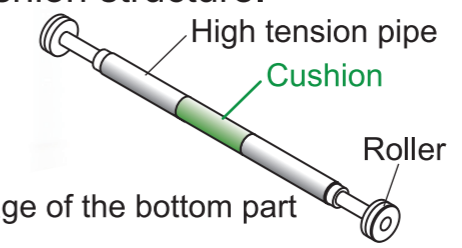


image of the bottom part



*Image shows the case of contact.

Interlock with facilities can contribute to saving electricity, efficiency of the work, and quality management.



interlock



Interlock with the Conveyer