

Body specification

Oyster white

(CGCC colour steel plate)

JPMA No. H27-85B correspondent

(Japan Paint Manufacturers 2015 H-edition)

Aluminium

(Anodizing)

※ Aluminium frame only

※ Except RF50

Stainless

(SUS304 Hairline)

※ Only frame for RF50 Model

Sheet line up

Monban Original

SS clear

Transmittance 68%

Visibility ★★★★★

Insect-proof effective ★★★★★

Flameproof certified : F-26183

Thickness : 1.0mm

compare with conventional clear transparency is developed secure safety when pass through and keep room brightness by contribute energy saving.

Monban Original

Magic optron

Prevent attractive to flying insects 80.7%

Insect-proof effective ★★★★★

Visibility ★★★★★

Flameproof certified : F-26240

Thickness : 0.78mm

Green outside for prevent invaded by outside insects. Yellow inside make inside factory brighter and guide invaded insect to outside.

Monban Original

Electrification-proof nonflammable sheet

Noncombustible flameproof certified

Antistatic ★★★★★

UVprotection ★★★★★

Noncombustible certified : NM-3553

Flameproof certified : F-24171

Thickness : 0.53mm

Certification of incombustible and flameproof, usable at explosion proof areas.

Monban Original

Rat-protection bottom sheet blended with high concentration capsaicin

Flameproof certified : F-25041

Thickness : 0.53mm

New develop from the voice of customer such as food factory, rats biting the sheet and enter inside problem.

Varieties of sheet colour available

Clear

Orange/ Semitransparent orange

Opacity blue

Opacity orange

Opacity black

Opacity Silver

Mesh

※ This photo is only image, colour may different from actual product. Product appearance and specification can change without notice.

※ Flame proof product number "N-0793"

※ SS clear, Opacity blue, orange, silver may not be produced. Depends on door size. Please ask for more information show order specification

※ Magic Optron is a joint development products of Ikari Co.,Ltd and Taisei E & L Co.,Ltd

Option equipment can be chosen according to the application and size

Please specify the option equipment which suit to your usage of the sheetshutter when order.

Operating sensor

(Unit : mm)

Type B

Infrared spots : 4

W100×H130×D100

Type C

Infrared spots : 60

W265×H61×D37.5

※ Obstacle detection settable

Type D

Infrared spots : 60

W267×H61×D45

※ Obstacle detection settable

Type E

Infrared spots : 60

W321×H102×D91

Obstacle detect sensor

PHA model

embedded type

W14.5×H33.4×D35

PHB model

embedded type

φ15×D15

Warning indication

Revolving light

AC200V

W116×H220×D152.5

Traffic light

DC24V

W70×H229×D80

Switch up down

Embedded type / Outcrop type

1 point, 3 points, non-contact switch

W52×H112×D19.3 (Outcrop 1 point, 3 point switch)

W52×H112×D19.3 (Outcrop non-contact switch (C3V))

W52×H112×D23.5 (Outcrop non-contact switch (DC24V))

Rain proof model

1 point, 3 points switch

W60×H120×D67.1 (point)

W49×H152.5×D34.3 (3 points)

Pull switch

W68×H140×D62

Remote control

W52×H85×D8.7

(Transmitter)

Happygate MONBAN with varies specifications for customers in every environment.

Cold storage and refrigerator model

-25℃ ~ 5℃ warehouse entrance or use as partition

Explosion proof model

The air drive + air control system installed in high explosion proof areas

High temperature heat-resistant model

In the entrance of a high-temperature environment such as 100℃ of drying booth

brought to you by :

CAS

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Create space value

Save power , Save energy, Quality control

happy gate

monban

門番

Incredible effects to the quality and air-conditioning.

Dust proof , Insect proof

Wind proof, cold proof

Hi speed opening and closing

Hi grade air tight

Wind resistant, pressure resistant

Maximum

width

10m

Install large opening width

Shorten the opening time, improves working efficiency, and contribute to energy saving and quality surplus by the change of indoor environment due to the outside air, insects and dust.

happygatemonban

Product introduction video

Patent pending

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R Series outdoor · pipe type
R054 / 109 / 209 / 309 / 409 / RF50 / R30W / 40W / R30T / 40T

Width **800~10000**
Height **1000~6000** Unit : mm

Wind proof, Cold proof
Insect proof, dust proof
Working efficiency

※R054 / 109 indoor specification



Separate controller

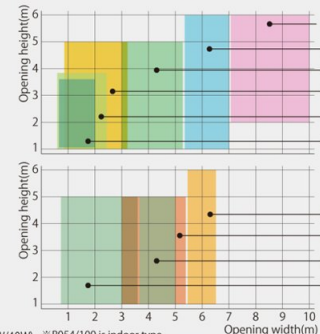
Worry of condensation caused by rain and fog also resolved. Able to use together with separate countdown monitor for more safety.



GA controller
W170×H630×D80
(For R054)

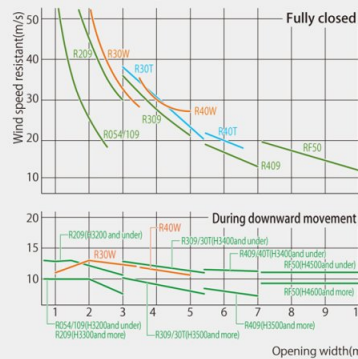
KVA controller
W242×H400×D105(For R109/209)
W242×H450×D105(For R309/409/R30W/40W)
W242×H850×D105(For RF50)

Installable dimension



※R054/109 is indoor type
※Please use a separated controller in case of install at the location where the influence of water, such as rain or condensation is assumed

Wind resistant performance



Structure of pipe-type model with strong wind and pressure resistant is suitable for insect proof, dust proof, wind proof and cold proof.

Pipe-type with high grade airtight and high speed up fit to all small to large opening size



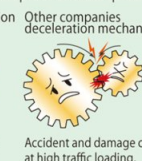
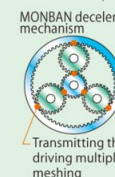
Pipe type with wind and air pressure strong resistant Wind pressure resistant specification product

Tightly sealed to prevent a gap that can be from the bulge of the sheet by the wind and pressure difference. High grade airtight structure in the top frame and side frame.



New engine model Opening high speed 2.0m/s

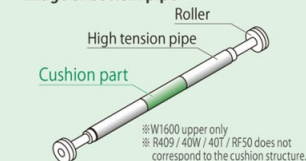
High-speed opening and closing 2.0m / sec by the new engine. Shorten the opening time at the entrance and contributing to improve working environment enhances the air conditioning effectiveness, insect proof and dustproof effect.



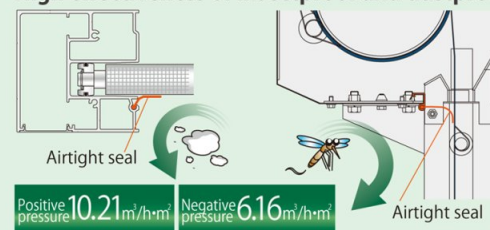
Bottom pipe cushion with strong structure

Less maintenance costs, soften the impact of the collision by the bottom pipe with cushion structure.

Image of bottom pipe



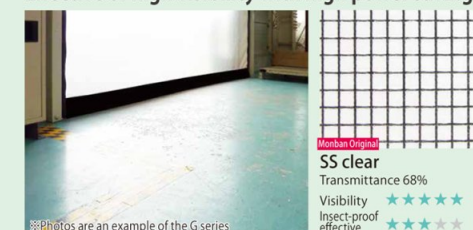
High effectiveness of insectproof and dustproof



Further improved air-tightness in combination with an air tight seal. Possible to prevent the fully closed of insects and dust intrusion, and achieve a higher quality control and clean working environment.

※circulating air at 10Pa using JISS fore testing inside co.
※our product attach airtight seal; shown by numerically
※Wind pressure performance can be different depending on the size

Effective of high visibility with high power saving



compare with conventional clear transparency is developed secure safety when pass through and keep room brightness by contribute energy saving.

Specification

| Type | Indoor type | | | Indoor/outdoor combined type | | | High pressure high wind resistant type | | Three-phase 200V power supply type | | | |
|--------------------------|--|---|-----------------|------------------------------|-----------------|-------------------|--|-------------------|------------------------------------|-----------------|-------------------|--|
| Model | R054 | R109 | R209 | R309 | R409 | RF50 | R30W | R40W | R30T | R40T | | |
| Manufacturable Dimension | Opening width (mm) | 600 ~ 2000 | 600 ~ 2500 | 800 ~ 3200 | 3000 ~ 5300 | 5400 ~ 7000 | 7100 ~ 10000 | 800 ~ 3500 | 3600 ~ 5000 | 3000 ~ 5300 | 5400 ~ 6500 | |
| | Opening height (mm) | 1000 ~ 3600 | 1000 ~ 3800 | 1000 ~ 5000 | | 1000 ~ 6000 | | 2000 ~ 6000 | 1000 ~ 5000 | 1000 ~ 5000 | 1000 ~ 6000 | |
| Opening & closing m/c | Input power source | Single-phase AC200V ~ 230V± 10% | | | | | | | 3 phase AC200V± 10% | | | |
| | Output | 0.4kW | 0.95kW | | | | | 0.75kW | | | | |
| | Opening Speed (Setting when aligned) (m/s) | 2.0 ~ 1.2 [1.2] | 2.0 ~ 1.6 [1.6] | 1.5 ~ 0.7 [1.0] | 1.0 ~ 0.7 [1.0] | 0.7 ~ 0.55 [0.55] | 0.55 [0.55] | 0.75 ~ 0.55 [0.7] | 0.45 ~ 0.3 [0.4] | 1.0 ~ 0.7 [1.0] | 0.51 ~ 0.4 [0.48] | |
| | Closing Speed (Setting when aligned) (m/s) | 1.5 ~ 0.5 [0.7] | 1.5 ~ 0.5 [0.7] | 1.5 ~ 0.5 [0.7] | 1.0 ~ 0.5 [0.7] | 0.7 ~ 0.55 [0.55] | 0.55 [0.55] | 0.6 ~ 0.4 [0.55] | 0.45 ~ 0.3 [0.4] | 1.0 ~ 0.5 [0.7] | 0.51 ~ 0.4 [0.48] | |
| | Reduction Speed Ratio | 1/14 | 1/10 | 1/23 | 1/50 | 1/74 | 1/74 × 2 | 1/74 | 1/74 | 1/25 | 1/43 | |
| | Reduction method | Planetary helical gear reduction method | | | | | | | Cyclo Engine Drives | | | |
| | Sheet core material | Middle pipe | φ15.9×t1.2 | | φ27.2×t1.2 | φ38.1×t1.2 | φ48.6×t1.8 | φ27.2×t1.2 | φ38.1×t1.2 | φ38.1×t1.2 | | |
| | Bottom pipe | φ27.2×t1.2+VE28(VPU pipe) | | φ38.1×t1.2+VP40(VPU pipe) | φ38.1×t1.2 | φ48.6×t1.8 | φ38.1×t1.2 | φ38.1×t1.2 | φ38.1×t1.2 | φ38.1×t1.2 | | |
| Control roller | Built-in side frame | ●GA | ●GA | ●GA | ●GA | — | — | — | — | — | | |
| | Separate controller | ●GA | ●KVA | ●KVA | ●KVA | ●KVA/B | ●For RF50 | ●KVA | ●KVA | ●SVA | | |
| Side frame | Aluminum frame | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| | Steel plate frame | — | — | — | — | — | — | — | — | — | | |

※ Using frequency: 100 times / hr (R054 / 109/209), 60 times / hr (R309 / 409 / RF50 / R30W / 40W / R30T / 40T)
※ Using environment: ambient temperature more than -10 °C ~ less than 40 °C (except frozen state), ambient humidity: RH85% or less. ※ When order R054/109/209/309 please select built-in controller and placing separately.
※ Please use controller placing separately type when install in the place which may be impact from water such as rain or condensation. ※ Controller which placing R054 separately has difference spec from R109/209/309.
※ Use gate with less than W5400 ~ 6100mm, Gate high more than H5000mm for R409 type and for gate width W6200 ~ 7000mm, Gate high H4200mm please use KVB(Large-capacity type). ※ RF50/R30T/40T has only color steel plate/stainless steel plate frame.