

PRODUCT CATALOG























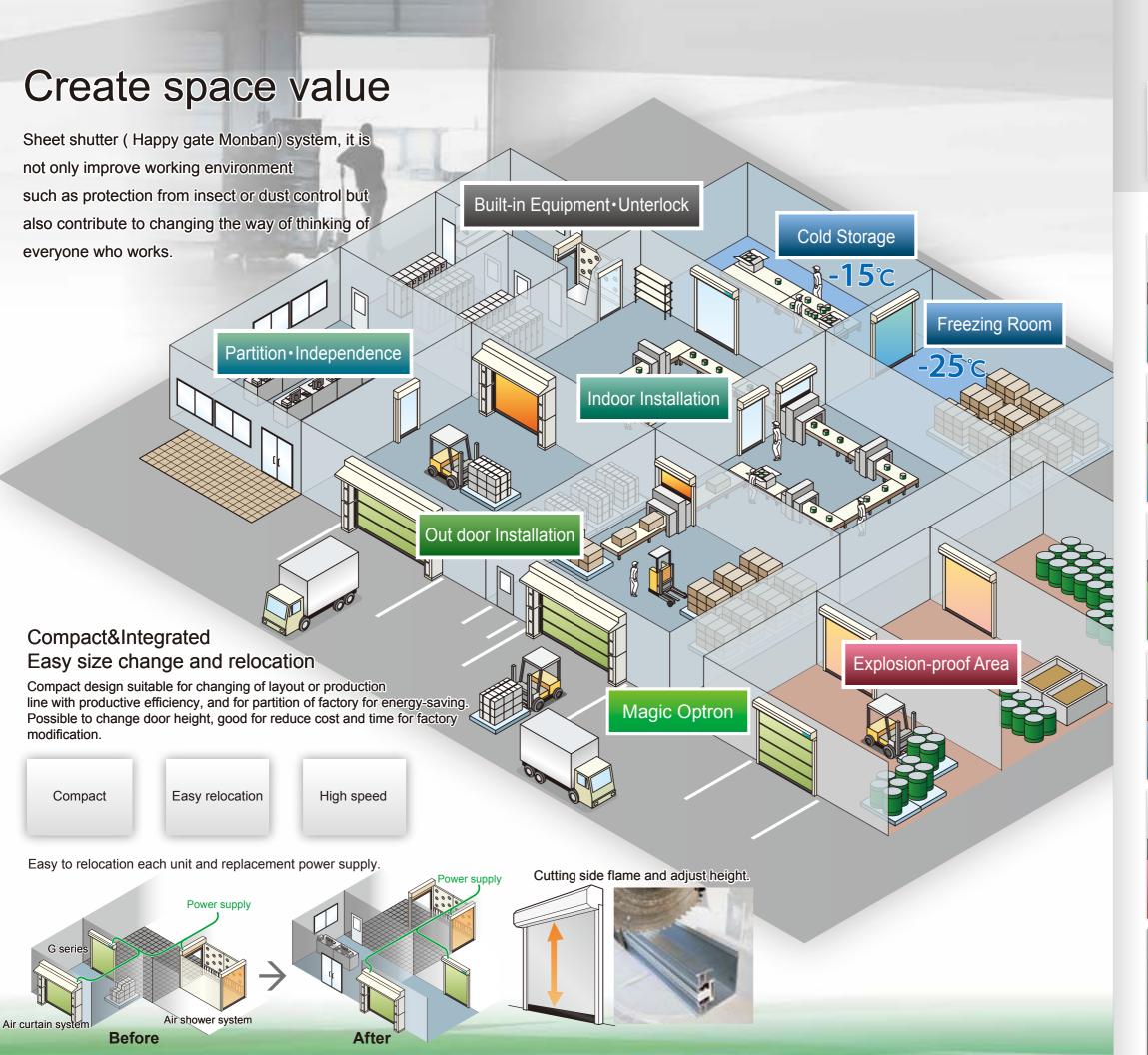












For receive your wish of Monban that meet to the purpose.

Please see the following steps in order to receive your wish the best of Monban to the consideration environmental of customer.



Line up



BUILT-IN

→ P11



The scope of fabrication G219/GF22 G119/GF17 G114 G024 G022 G062 %G022/024 the internal controller in the wind-up box *G114/119/219 the internal controller in Side frame

> * Please use a different place controller if you want to install to the locationwhere the assumed influence of water, such as rain or condensation is assumed.





The model of internal controller in side frame

G114/119/219



The model of environtment that difference in atmospheric pressure The model of different placedcontroller

GF17 / 22 *Only steel / stainless steel frame In the sanitary controled room that indoor pressure less than or equal 20pa

Fully closed Within 20Pa

Slippery and high flexible tube type

Both sides Sheet are adopted by the original tube that silent and prevent damage for instead of conventional fasteners



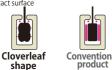
Silence **High durability** Saving maintenance

Jingling sound Damage to the fastener

Fastener type

Operating noise reduced 2

Cross-section drawing



contact area is narrow, friction is few High durability, dust, abrasion and light Silencing effect up with integral molding (quiet performance, damage prevention) The improvement of pressure resistance perforamance. it does not fall out by light touch when compared with the round shape

The rate of increasing in the fastest business field

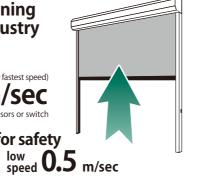
The operation of start up sensor or switch will be ran by machine usually driving shorten opening time, efficiency operation is developed concurrently with the improvement of preventing of insect, dust, outside air and energy saving

machine is running

The highest opening speed in the industry

Reverse opening for safety middle 1.5 m/sec low detect touching or bear while phototube sensor detecting, scan.

going up except the lowest position



Compact design

40% compacter than the conventional model Suitable for the entrance of the factory and office



D180mm H240mm

*Dimensions is vary according to format

D53mm H50mm

Relocation of easy unit type

To built in the controller in the winding box and the side frame.



Sheet out by collision is automatically return to the rails easily

Collision by lift and truck during the operation, the sheet will stop a while and slowly going up (0.5m/s) automatically return into the rails. The structure designed to convenience in case of power failure, woman can also easily get out by simply lifting the sheet.







Multi monitor

panel and multi are installed inside of countdown monitor.

Display and entry-exit count

The Method of display operation of the passed number .
The number of entry : STOP+OPEN

The number of exit: STOP+DOWN

**It is necessary 1 pair front-back PHB Phototube sensor.



High airtight structure

The structure of high effective repellent and dustproof. It is suitable for various clean environment.

Positive 5.76 m²/h·m² Negative 8.35 m²/h·m²

Wentilation amount of difference in 10Pa atmospheric pressure

Output

Description

Outpu *Using JISA1516 for airtight experiment inside company
*Our products shows the numerical values equipped with air tight seal.(Optional order)

It is suitable for the environmental that small impact of wind and atmospheric pressure in the partition room. **The performanc of breakdown voltage is different depending on the size. For more information, please check to person in charge

Flat switches and sensors and a cover that does not remain dust

Hygiene switch that don't remain dust when buit-in frame. To prevent remain dust on winding box that hard to reach. (Optional order)







(Optional order)

Independence No need base, Quick construction, Pipe less. ** | Series**

G125 / 145

width $800 \sim 2500$ Height $1800 \sim 2500$ Unit.mm

The scope of fabrication

G14S

G14S

G12S

O 0.8 1 1.6 2

openning width(W)



Suite for various kinds of places such as begin from cooking food until resteruant.







size • standardized goods and option

World class super fast transportation shipping within days

size/ option goods(switch sensor) 3 types of standard products be sent within 3 days

Stype(G12S)
W900
×
H2000

Mtype(G14S)
W1200
×
H2000

W1800 × H2000

sheet's color: SS clear Optional parts: 2sets of PHB photocell sensor, 2 units of touchless switch (each on front and back)

**Above-mentioned sheet (no window) **In case of non-standard, the shipping' s time is around 7~10days **For the schedule of installation, please contract later.

Unit Construction Quick Construction

Side frame(Right)

Side frame(Left)

Unnecessary foundation

Saving wiring and easy design

The structure have 2 units of wiring box unit and flame&controller so it can save much more time.

No need the underlying steel frame, just set up the supporter in the area where you desire.

Maintenance time is also short!

Able to change sheet and motor without bring shutter box down.

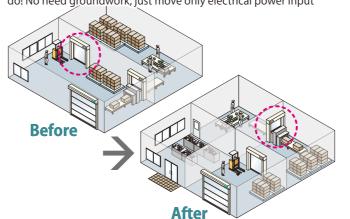
**Above-mentioned installation time is the average time when set up the single unit in general floor.
For installation time will be different depend on installation environment.

Relocation layout is so simple by unit design and change electrical power input.

anything you would like to move such as layout it's so easy to do! No need groundwork, just move only electrical power input

simple

moving



Good slide and high flexible tube type.



contact area is narrow,friction is few High durability, dust,abrasion and light Silencing effect up with integral molding (quiet performance, damage

The improvement of pressure resistance perforamance. it does not fall out by light touch when compared with the rounglease.

Operating noise reduced

10%

s-section ving tact surface



eaf Convent

Both sides Sheet are adopted by the original tube that silent and prevent damage for instead of

Standard equipment: Obstacle detective sensor and Untouched Switch

Standard equipment: Untouched Switch

Good looking built in design; able to protect any dust goes inside

Multi monitor

panel and multi are installed inside of countdown monitor.







Pipe less and soft lower end side

Safety reversal equipment when touch.

Secure design; there's any hard impact in case touched the shutting down shutter cause the shutter will be reversed to upside. You can rely in security.



High 2.6 m/sec (setting highest speed)
the operation of start up sensor or switch will be ran by usually machine driving

Middle 1.5 m/sec phototube sensor detecting scan rising from not the lowest position

Low 0.5 m/sed

detect touching or bear while machine is runn

High airtight structure

The structure of high effective repellent and dustproof. It is suitable for various clean environment.

Positive 5.76 m²/h·m²

Negative 8.35 m³/h·m³

Ventilation amount of difference in 10Pa atmospheric pressi Using JISA1516 for airtight experiment inside company

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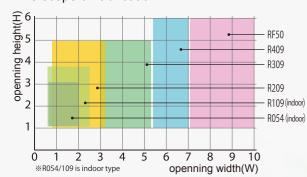




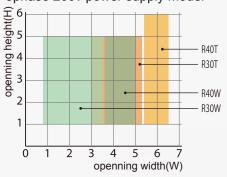
R054/109/209/309/409/RF50 R30W/40W/R30T/40T

width $600 \sim 10000$ Height $1000 \sim 6000$ Unit:mm

The scope of fabrication



High pressure resistance, high wind resistance/ 3phase 200v power supply model



**Please use a different place controller if you want to install to the locationwhere the assumed influence of water, such as rain or condensation is assumed.





Heig air pressure resistance, wind resistance model

R30W / 40W

Be suitable for environment that affected by wind, such as the entrance of factory near beaches and wind gust such as monsoon.



3 phase 200v power supply model

R30T / 40T

Lineup T type that support controller and motor to the 3 phase power supply with function of R series.

*controller size:W240×H400×D105

High endurance.enhanced life.silent.saving energy

Newly developed engine High speed opening and closing

Rising High speed

rising 2m/second by new type engine, by shortening the opening

environment at the same time.

It is useful to improve the working

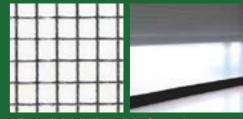
time of inlet and outlet,



Other companies deceleration mechanism

Effective of high visibility with high power saving compare with conventional clear transparency is developed

secure safty when pass through and keep room brightness by contribute energy saving.



**There are the case that Photo is de erent from actual.
*There are the case that can not product depend on aperture size, please inquiry

Roller unit that quietly open and close

To adopt dedicated rubber ring for developing tranquility in roller unit that install in both side pipe.lt was provided smooth closing and opening to prevent abrasion and tear of sheet due to friction.

%RF50 is different.



To prevent the broken of lower pipe

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



Separate controller



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



W170×H630×D80 W242×H400×D105(For R109/209) (For R054) W242×H450×D105(For R300/400/

Pipe type with wind and air pressure strong resistant

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.



High effectiveness of insectproof and dustproof

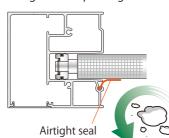
To adopt the airtight concept of wind-up box.side frame. It is further improved air-tightness in combination with an air tight seal, prevent invasion of dust and insect when fully closed..To achieve a higher quality control and clean work environment.

*Ventilation amount of difference in 10Pa Possitive 10.21 Negative 6.16 **Ventilation amount of difference in 10Pa atmospheric pressure pressure pressure 6.16 **Using JISA1516 for airtight experiment inside company

**Our products shows the numerical values

equipped with air tight seal.(make order)

Airtight concept image





Setting compact

To refresh appearance and the controller do not obstacle internal work environment to frame in compact.





Multi monitor Countdown display to inform the time until falling.

Cold Storage Freezer G-R G11F / R10F

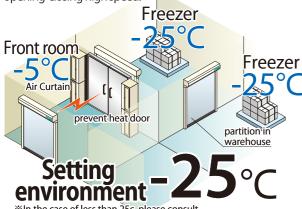
width $800 \sim 3500$ Height $1000 \sim 3500$ Unit:mm

The scope of fabrication 2 3 4 5 **%G10F** is pipeless type. *R10F is pipe type.

Entrance&Exit warehouse and partition between 2rooms is 25c-5c

To develop quality control about temperature changing in warehouse To control saving energy and e ciency of temperature in warehouse.

To control temperature of indoor partition in each room,e ciently. It is useful I to saving energy for temperatur changing when opening-closing high speed.



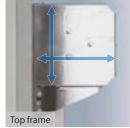
Preventing adhesion of frost and drop water

To adopt program that driving peridic. Tp protect adhesion frost and dew at sheet and contribute to control quality and closing-opening smoothly.



when of the function of

Setting compact



G11F D280×H280





pipeless model G11F

Wind and air pressure resistant pipe model is also lineup.

It is suitable to entrance warehouse face outdoor and warehouse that controll air conditioning with indoor pressure.



Clear sheet for low temperatur

It is excellent in visibility even in low temperatur warehouse. Corresponding environtment trmperature

-25~5°C



Functional Part resist in frost and dew

To use at ease because prevent damage and malfunction by sue internal heater functional part.



frame with internal heater



photoelectric tube controller dedicate

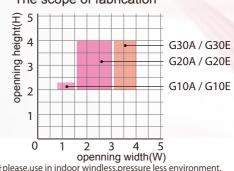




G10A/20A/30A/10E/20E/30E

Width $800 \sim 4000$ Height $2000 \sim 4000$ Unit:mm

The scope of fabrication



*please,use in indoor windless,pressure less environment. *G10A/20A/30A is air driving force.air control type. **G10E/20E/30E is air driving force.electric control type

Air driving force + Air control system

Spec of dustproof that can set in all dustproof area

control, area driving force in industry first



*Please,provide perfect safety measure against line condition while construction.

Security of emergency time

Standard installation of spare tank that can be performed once upward movement when emergency. Design safely to able to ensure passage when compressor stop by power





Normal operation by start sensor or switch operation. *Air tank is for emergency refuge.

But not quarantee the air preservation for long time. **To support only air driving force.air control type.

shorten opening-closing time

To shorten opening-closing time by ascent high speed 1.2m/sec, and help in saving energy for in-out ow of air

control rollover security

To ascent rollover to once stop even touch in sheet while downward.to guarantee passage the relieve impact at part and passage through person.

*This function do not guarantee safety. **Please,use accessory function under windless,pressureless environtment.

Air press + electric lineup available using sensor.

Electrics controller lineup for automatic opening and closing with explosion proof certified sensor.

(G10E/20E/30E)

In case of electronic controller controller will be required to installation of both air control panel and electric panel.



Controller

Electrification-proof nonflammable sheet

Non-combustible sheet prevented electrostatic from opening and closing activities.

Surface electronic resistance



Self-repairing system structure.

In case of accidentally contact, the sheet will open up and automatically return to guide



Built-in Equipment monban unit





implant monban unit is constructed by (wind-up unit)(guide unit)(control unit) the compact is appropriate for implant at machine. To use space of machine and implant unit, increase added value of machine that interlog with machine. more over, it is favorable to saving energy by interlog control and develop production efficiency and quality.

Controller base







OPTION

for monban, conveniently.

Start sensor

Also use peripheral equipment

(connection to controller base)



Switch for embedding





Multi-monitor

Engine Controller

To display total frequency of driving and moving downward in front counter. And display in monitor counting frequency of thing passage through conveyer and frequency of in-out room that use 2 sensors more over,can output signal.

Main implant part

Wind-up part

Guide rail Switch.sensor

Sheet.wind-up part

Display and entry-exit count

The Method of display operation of the passed number.

The number of entry: STOP+OPEN The number of exit: STOP+DOWN

Implant at wide machine.raise interlog, production efficiency, quality!!



In the case necessary to speciall waterproof treatment in engine, controller in sprinkle water machine.

11

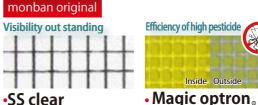






Color & Window Abundant lineup maching with varios environment

Sheet-



SS clear

Transmittance 68%

Insect-proof *** compare with conventional clear transparency is developedsecure safty when pass through and keep

room brightness by con energy saving.

Property

thickness(mm) irenroof Non-heat

Visibility *** Green outside for prevent invaded by inside factory brighter and guide

Prevent attractive to flying insects 80.7% Insect-proof effective ***

outside insects. Yellow inside make

pesticide.safety

15%

0.78

Certication of reprevention

F-27303



Setting environment -25°C-5°C

Clear sheet for low temperatur it is excellent in visibility even in low temperature warehouse.



Antistatic ★★★★ UVprotection ★★★★★ at the time of opening and closing

Prevent static electricity due to friction Non-combustible , flameproof certification which can be use in all of the explosion-proof area.

Rat prevention

0.53

Certi cation of re prevention

F-25041



F-26183 Various colour is also lineup

lighting,pesticide.safety

1.0







Opacity blue



1.3

Certi cation of re prevention

F-24225

Opacity orange

low temperature resistance | non heat, re prevention

2%

0.53

Pcerti cation of non heat: NM-3553



Opacity Silver



Exception G/GF/RF50/

- *Above numeral value is measuring value but not guarantee value.
- **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 FINE CHEMICAL Co.,Ltd

Clear

Sheet window ** Optional order—

To increase safety that can con rm car passage and opposite people in high transparency sheet.







GF series(wide door)



Reference __right.table___

Paper with cotton thread (thickness:0.5mm)

800 ~ 900 500 1000 ~ 1400 $1000 \sim 1400$ 600 $1500 \sim 1900$ $2000 \sim 2400$ 1500 ~ 1900 900 $2500 \sim 2900$ 2000 ~ 2400 1200 $3000 \sim 10000$ $4000 \sim 4900$ 2500 ~ 2900 1500 5000 ~ 5600

**Target of G062/022/114/024/119/219/GF17/22

3000 ~ 4500

G/GF series

**Target of R054/109/209/309/409/PF50/R30T/40T

5700 ~ 10000

600

900

1200

1500

1700

1200

1500

1700

1700

In the case of G series xing door, spec is xing the wind-up box.
*Hieght of door of R series is R054:300mm,R109/209:400mmR309/409/RF50/R30T/40T:500mm, R30W:180mm,R40W:3000mm.but there are the case that size of 2 step is di erent from below

KIn the case of R series, installment hieght is di erent by e ective because there are pipe in the

Body color.quality of material

Oyster white

G Series

(CGCC colour steel plate) IPMA No. H27-85B correspondent (Japan Paint Manufacturers 2015 H-edition)

Reference right table

Aluminium (Anodizina)

※ Aluminium frame only *Except GF/RF50/cold storage freezer/dustproof type



Stainless

(SUS304 Hairline)

spec-built ** Spec of cold starage freezer is standard spec ※ G series only top frame. (Except Gf) ※RF50 is frame only

**Please,refer spec about detail.

Option Parts Abundant peripheral equipment that choose and match with utility.size. Please, specify option part, spec-built such as airtight seal when order.

Sensor area histrogram

Sensor area histrogram

Sensor area histrogram

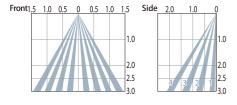
- anias

Start sensor

for small openning until H3000

TypeA





for detection Spot



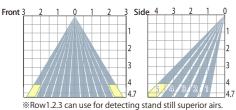
To detect superior airs that irradiation spot. small superior airs that not spot can not detected. gure display the shape when irradiation vertical with oor, in the case of irradiation obliquely to oor, it will be deform

for middle openning until H4500

TypeC

Type **E**





for big openning until H6000

60

*Row1.2 can not use for detection stand still superior airs

sensor to upper vehicle is neccessary to 2.0m distance.

*While using direction detective function, in the case of human

1.5m from sensor until overhead.In the case of vehicle from

 $\Re Row1.2.3$ can use for detecting stand still superior airs. $\Re In$ the case irradiation area of set the installing hieght more than 4.0m, it is not possible to dectec even in detective

$\mathsf{Type}\mathsf{D}$

 $\mathsf{Type}\mathsf{F}$

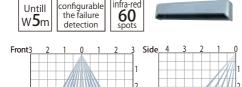
Untill

W**8**m

Front

onfigurable

Upper 5 4 3 2 1 0 1 2 3 4 5



%Row1.2 can use for stand still superior airs by setting.

48

stand still superior

airs detection by setting.

Warning indication



Count down monitor

Revolving light

%It is possible to count 1-9secplease, use and adjust when upper limit stop.



%It is neccessary special relay base *To prepare ashing light with buzzer Please, specify when order



Traffic light

LED

Melody buzzer

**Maximum sound pressure is in 1m frontward. **16 kind of tone color, sound pressure 90db. *It is neccessary special relay base.

buzzer

※Only KV controler.		Please, specify when order.	placement relay base.	*It is neccessary special relay base.
Туре	Count down monitor	Revolving light	Traffic light	Melody buzzer
lectric power	DC24V	AC200V	DC24V	AC200V
Size	W97.2×H156×D18.2(explosion model)	W116×H220×D152.5(lens φ110)	W70×H229×D80	W100×H88×D85.3

Obstacle detect sensor **Please, specify sensor type when order.





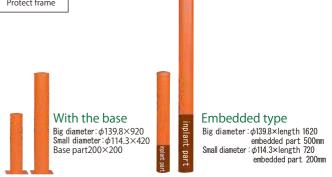
PHA	PHB
10m	10m
DC12~24V	DC24V
2m	15m(projector),5m(recieving light)
	10m DC12~24V

Please note at the time of install obstacle detect sensor

Please confirmed the side frames's in right level and firmly fixed in order to prevent the optical axis displaced by vibration.

*It is necessary separate

Guard pole for protect touching-Protect frame







in the area where no rain directly

picture.photo graphic Embedded type /Outcrop type



1point, 3points switch

%1 point.pull switch use until 25c





Thin

Supporting a lot of channel Remote control Thin model switch

3channe

	To prepare uritane or rope that good in sar (order product)			
E \ 3	Proints(rain proof)	pull curiteb	thin model Incint	1point.3point.3

Туре	1 pont/3point (Embedded type /Outcrop type)	out of connect (Embedded type /Outcrop type)	1points(rain proof)	3points(rain proof)	pull switch	thin model 1point	1point.3point.3channel remote control
Contact construction	1a(1point),3a(3point)	1a	1a	3a	1a	1a	1a(1point/3channel)3a(3point)
Size	W50×H112×D19.3 (exposion)	W50×H112×D23.5 (exposion)	W60×H120×D67	W49×H152.5×D34	W68×H140×D62	W40×H194×D10	W52×H85×D8.7 (transmitter)

Rain proo

Vehicle detective sensor Switch for emergency stop

Pull coil sensor

%It is possible to use only automatic mode *Please, entry vehicle speed less than 10km/h *vehicle standard is minicar.

unit100m Coil lenth Electric power AC/DC12~24V



Emergency stop switch in seperate placement

*In the case of RT series, apperance and spec is di erent.

Contact construction	1b
Size	W100×H88×D102,3(button φ65)



Back up electrical unit

previously

*The frequency of opening-closing is di erent from storage of electricity. **Capacity.recieving box is di erent from model.size. It is necessary to setting speed.model,please consult

in-out electrical power | AC single phase 200v



Dustproof spec	Outcrop type Releas	se cord			
3 points switcl		Foot switch	PHD type obstacle		Barrier contraller
*Can use until 1 point 2 pieces,3 points 1	1 piece. Above switch is air control model.		(essential safety ex	xlore proof(12g4)	Barrier contraller sensor
Type 3 points s	switch Pull switch	Foot switch	Detective distance	10m	is installed in explore
Contact construction Mechanica	al bulb Mechanical bulb	Mechanical bulb	Electric power	DC 7V	proof area.Bar is installed in controller
Size W65×H120	0×D50 W186×H140×D55.6	W71×H72×D177	Accessary cable	5m	controller is set outside

within 3m 2~6m 2.5~4.7m 2.5~4.7m 2~6.5m 2.5~6.5m Irradiation distance Output open corrector open corrector 1a/1b change 1b 2a/2b change 2a/2b change 2a/2b change DC24V Electric power Stand still detection time 2·15·180sec/unlimit 2·15·60sec/unlimit 2·15·60sec/unlimit 2.60sec/10min/unlimit 2·30·180sec/unlimit 2·15·60sec/unlimit Size W221×H63×D30 W100×H130×D100 W265×H61×D37.5 W267×H61×D45 W321×H102×D91 W371×H73×D72 48 Frequency of infra-red spot

- **Those sensor irradiat infra-red rays and recieve infra-red rays that re ex in irradiation area.
 *To detect the changing near infra-red rays that re ex by human and thing entry in area.
- **The irradiation area that recorded is design value. It doesn't specify the setting condition accuratly.

 **Area is changable by setting environment. oor material and color.targrt thing(garment.material.colour).setting.adjustment
- **must adjust sensitivity and adjust area after setting. more over, con rm that area is setted correctly in periodic.

 **To express area in the condition that maximum setting sensor. There are the case that dierent in use environtment and use condition.

Specification

Indoor (pipe less type)

				Small openning			Middle openning	Small openning	Middle openning
	Model	G062	G022	G114	G024	G119	G219	GF17	GF22
Manufacturable Dimension	W	600~1500	700~1500	600~3000	700~3000	800~3500	800~4500	800~3500	800~4500
	Н	600~2300		1000~3500		1000~4500	1000~3500	1000~4500	
	Input power source	Single-phase AC200V ∼230V±10%							
	Output	0.2	0.2kw 0.4kw			0.95kw			
closing	Opening and closing speed (default)					opening:2.0m/sec closing:0.7m/sec	opening:1.5m/sec closing:0.7m/sec		:1.5m/sec 0.7m/sec
m/c ¯	Reduction Speed Ratio	1/	10	1/	1/14 1/10		1/23	1/	23
	Reduction method		Planetary helical gear reduction method						
	Built-in top frame	_	●GA	_	●GA	_	_	_	_
	Built-in side frame	_	_	(In the right side frame)	_	(In the right side frame)	GA (In the right side frame)	_	_
Control roller	Separate controller	●GA	_	●GA	_	●KVA	●KVA	●KVA	●KVA
Usir	ng frequency	100 times / hr							
Using	g environment		Ambient tempe	erature more than -10	°C ~ less than 40 °C	(except frozen state	e), ambient humidity:	: RH85% or less.	

** G Series is for indoor installation type. G219 is using bottom weights up type. **Operation switch is installed at the right frame. However, G114/119/219 in the case of H2200 or less, it will be installed in the left frame. **Controller, G022/024 is only internal wind-up box, G114 is internal side frame or GA seperate placement, G119/219 is internal side frame or KVA seperate placement. **G062/022/114/024/119/219 is only aluminium.GF17/22 is only color copper plate/stainless copper plate frame.

Explosion protection (pipe less type)

		All air				Air + Electric	
		Small openning Mid		Middle openning	Middle openning Small openning		Middle openning
	Model	G10A	G20A	G30A	G10E	G20E	G30E
1anufacturable	W	800~1500	1600~3000	3100~4000	800~1500	1600~3000 3100~	
Dimension	Н	2000~2300	2000~4000		2000~2300	2000~4000	
Dri	ving force	·	2 air cylindesr		2 air cylindesr		
(Control	Bulb Storag	Bulb Storage control panel (with 3 points swich)		Bulb Storage control panel (with 3 points switch)Electric control panel **Please,install outside the explosion proof area.		
	ind closing speed (default)	opening:1.2m/sec closing:0.7m/sec	opening:1.0m/sec closing:0.7m/sec	opening:0.8m/sec closing:0.7m/sec	opening:1.2m/sec closing:0.7m/sec	opening:1.0m/sec closing:0.7m/sec	opening:0.8m/sec closing:0.7m/sec
Emerge	ncy operations	Raising operation one time with the air tank, Lift sheet lower end		Raising operation one time with the air tank, Lift sheet lower end			
Air	r pressure		More than 0.5MPa		More than 0.5MPa		
Consumption	air amount(maximum)	12L	45L	47L	12L	45L	47L
Sheet		Antistatic non-heat sheet, (Surface electrical resistance value less than $10^9\Omega$)		Antistatic non-heat sheet, (Surface electrical resistance value less than 10°)			
Using frequency		60 times / hr		60 times / hr			
Using environment		Ambient temperature more than -10 °C \sim less than 40 °C (except frozen state), ambient humidity: RH85% or less.					

^{**}If you use a start sensor obstacle detection sensor contact type operation switch, it will be air+ electric type G10E / 20E / 30E. **Explosion-proof air tight seal is a can not be used. **Only color copper plate. stainless copper plate frame.

Refrigerated freezer specification

		Pipe less type	Pipe type
		Small openning	Small openning
	Model	G11F	R10F
Manufacturable	W	800~3500	800~3200
Dimension	Н	1000~3500	1000~3500
	Input power source	Single-phase AC200V~230V±10%	Single-phase AC200V~230V±10%
	Output	0.95kw	0.95kw
Opening &	Opening and closing speed (default)	opening:1.5m/sec closing:0.7m/sec	opening:1.0m/sec closing:0.7m/sec
closing m/c	Reduction Speed Ratio	1/23	1/23
	Heater	Waterproof silicon rubber heater	Waterproof silicon rubber heater
Со	ntrol roller	Controller specifically for specification of refrigeration and freezers. (Heater built-in)	Controller specifically for specification of refrigeration and freezers. (Heater built-in)
Start-up method		1-point switch, Pull switch	1-point switch, Pull switch
Obstacle detection sensor		Photocell sensor embedded type with heater.	${\it Photocell sensor embedded type with heater.}$
	Sheet	Refrigeration and freezers specification dedicated sheet	Refrigeration and freezers specification dedicated sheet
Using	environment	more than 25 °C ∼less than 5 °C	

^{**}When the power is turned OFF, frost will adhere to the fastener part, and it may not be properly opened and closed

Independence model

		Pipe le	ss type		
		Indoor type			
	Model	G12S	G14S		
Manufacturable Dimension	W	800~1600	800~2500		
	Н	1800~2000	1800~2500		
	Input power source	Single-phase AC200V ∼ 230V±10%			
Opening	Output	0.2kw	0.4kw		
& closing m/c	Opening and closing speed (default)	opening:2.0m/sec closing:0.7m/sec			
	Reduction Speed Ratio	1/10	1/14		
	Reduction method	Planetary helical gea	ar reduction method		
Control roller	Built-in side frame	GA(In the righ	nt side frame)		
Usin	ig frequency	100 times / hr			
Using	environment	Ambient temperature more than -10 $^{\circ}$ C \sim less than 40 $^{\circ}$ C (except frozen state), ambient humidity: RH85% or less.			

Outdoor (pipe type) **R054/109 is indoor spec

				Small openning	Middle openning	Big openning	
	Model	R054	R109	R209	R309	R409	RF50
Manufacturable	W	600~2000	600~2500	800~3200	3000~5300	5400~7000	7100~10000
Dimension	Н	1000~3600	1000~3800	1000~5000	1000~5000	1000~6000	2000~6000
	Input power source	,	Single-phase AC200V ∼230V±10%				
	Output	0.4 k w			0.95 k w		
Opening & closing	Opening and closing speed (default)	opening:1.2m/sec closing:0.7m/sec	opening:1.6m/sec closing:0.7m/sec	opening:1.0m/sec closing:0.7m/sec	opening:1.0m/sec closing:0.7m/sec	opening:0.55m/sec closing:0.55m/sec	opening:0.55m/sec closing:0.55m/sec
m/c	Reduction Speed Ratio	1/14	1/10	1/23	1/50	1/74	1/74×2
	Reduction method			Planetary helical gea	ar reduction method		
Sheet core	Middle pipe	φ15.9	×t1.2	φ27.2×t1.2	φ38.1×t1.2		φ48.6×t1.8
material	Bottom pipe	φ27.2×t1.2+VE	28(VP,VU pipe)	φ38.1×t1.2+VP40(VP,VU pipe)		ϕ 38.1×t1.2(With sponge)	ϕ 48.6×t1.8(With sponge
Control roller	Built-in side frame	●GA	●GA	●GA	●GA	_	_
Controller	Separate controller	●GA	●KVA	●KVA	●KVA	●KVA/B	●RF50用
Usir	ng frequency		100 times / hr			60 times / hr	
Using environment		Ar	nbient temperature more t	han -10 °C ∼ less than 40 °C	(except frozen state), amb	ient humidity: RH85% or le	ess.

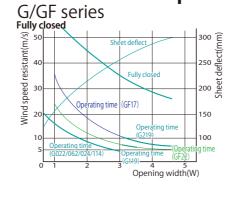
**When order R054/109/209/309 please select built-in controller and placing separately. **Please use controller placing separately type when install in the place which may be impact from water such as rain or condensation. **Controller which placing R054 separately has difference spec from R109/209/309. **Use gate width less than W5400 ~* 6100mm, Gate high more than H5000mm for R409 type and for gate width W6200 ~* 7000mm, Gate high H4200mm please use KV8[Large-capacity type). **RF50/R30T/40T has only color steel plate/stainless steel plate flame. **In the case of the controller is R054/109/209/309 aluminum frame, built-in frame or R054 is G A seperate placement. R109 / 209/309 is KVA seperate placement, In the cast of the steel plate frame is seperate placement. R409 is KVA seperate placement depend on size.

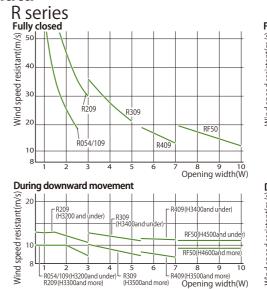
High pressure high wind resistant type model Three-phase 200V power supply type model

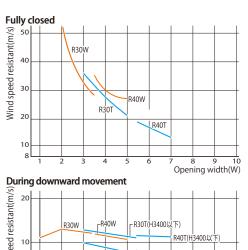
a L	c55 a. c		and type mode.	Third phase 2004 power supply type mode		
		Pipe 1	type	Pipe	type	
		Small openning	Middle openning	Small openning	Middle openning	
Model		R30W	R40W	R30T	R40T	
Manufacturable	W	800~3500	800~3500 3600~5000		5400~6500	
Dimension	н	1000~5000		1000~5000	1000~6000	
	Input power source	Single-phase AC20	10V ~ 230V±10%	3 phase AC200V±10%		
	Output	0.95kw		0.75 k w		
Opening & closing	Opening and closing speed (default)	opening:0.7m/sec closing:0.55m/sec	opening:0.4m/sec closing:0.4m/sec	opening:1.0m/sec closing:0.7m/sec	opening:0.48m/sec closing:0.48m/sec	
m/c	Reduction Speed Ratio	1/74		1/25	1/43	
	Reduction method	Planetary helical gea	r reduction method	Cyclo Engine Drives		
Sheet core	Middle pipe	φ27.2×t1.2	φ38.1×t1.2	φ38.1s	×t1.2	
material	Bottom pipe	φ38.1×t1.2+VP40(VP,VU pipe)	ϕ 38.1×t1.2(With sponge)	φ38.1×t1.2+VP40(VP,VU pipe)	ϕ 38.1×t1.2(With sponge)	
Control roller	Separate controller	ntroller KV seperate placement controller		SV seperate placement controller		
Using	frequency	60 time	es / hr	60 time	es / hr	
Using environment		Ambient ten	nperature more than -10 °C ~ less tha	n 40 °C (except frozen state), ambient humidi	ty: RH85% or less.	

**R30T / 40T will be only color steel plate, stainless steel plate frame. **Controller is R30W / 40KVA seperate placement, R30 / 40T is SVA seperate placement.

Wind resistance speed data







^{*1.} Please install for protect production from rain or water directly. *2. Please refrain from area or location where corrosive atmosphere to deal with coastal areas, species metal powder, scientific medicine etc, and poor areas with environmental conditions such as condensation and freezing, toxic gases etc. *3.Main body (W·H) will be the production of 100mm unit. *4. Please separately consult if it exceeds the current rating manufacture range of products. Please understand that sometime it may not be manufactured. *5. Please understand that there are sometime the appearance and specifications of production is change without notice. *6. While using, please read and use the instruction manual correctly. *7. Please refer and select from wind resistance speed data of ecah model when the model that Installable dimensions is overlap.

ACTION AND TEST CONTROL OF THE AND SELECTION WHILD ESISTANCE SPECIAL AND SELECTION S

^{**}Please turn on the power supply and the frost adhesion prevention function.
**Please remove the frost of sheet and driving part ,floor surface regularly.

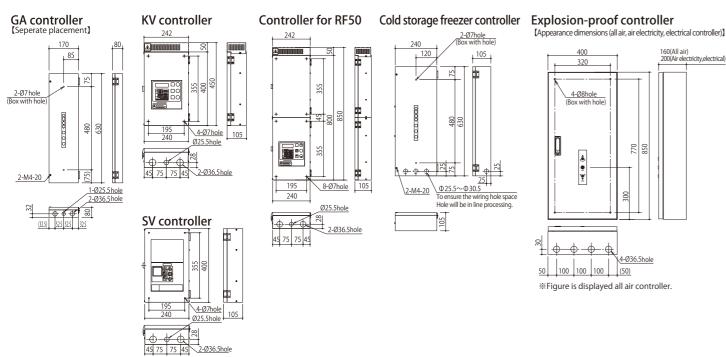
Only a stainless steel frame

Controller

	GA		KVA	SV
	Seperate placement	Implant		31
Target model	G062/114/R054	G022/114/024/119/219 G12S/14S/R054/109/209/309	G119/219/GF17/22/R109/209/309/409/RF50	R30T/40T
controller size	W170×H630×D80	_	W240×H400×D105	W240×H400×D105
Board size	W65×H540×D35.6		W203×H265×D63	W119×H254×D64
Input power source	Single-phase AC200V \sim 230V \pm 10%			3 phase AC200V±10%
Stop position control	Hole IC			Encoder
Motor control	brushless DC motor			Cyclo engine
Lightning surge	Arrester circuit implementation			
External output power	DC24V - 0.6A		DC24V - 1.25A	DC24V - 1.3A
Information monitor	7-segment LED1-digit		16×2 lines with monochromatic LCD backlight	7-segment LED1-digit
Board operation switch	Rising, stopping, descent, confirm, manual-automatic switching, ECO mode			Rising, stopping, descent, confirm, manual-automatic switching, opening high
Basic functions	Self-diagnosis function, variable four steps rising and descending speed, ECO level setting function, operating mode function, 0-30 seconds variable rising stop time setting.			
counter	Point down display		8-digit digital display	6-digit digital display
Regenerative resistor size	W182×H44×D15(L500-1500mm with cable)			W75×H21×D45 (WIth lead wire)
Motor protection				Overload, short-circuit protection common leakage breaker(15A30mA) W75×H75×D97
Usage environment	Ambient temperature more than -10 $^{\circ}$ C \sim less than 40 $^{\circ}$ C (except frozen state), ambient humidity: RH85% or less.			

	Spec of refrigerted freezer	
Target model	G11F/R10F	
controller size	W240×H630×D105(heater buit-in)	
Board size	W65×H540×D35.6	
Input power source	Single-phase AC200V \sim 230V \pm 10%	
Stop position control	Hole IC	
Motor control	Brush less dc mortor	
Lightning surge	Alester circuit	
External output power	DC24V - 1.25A	
Information monitor	7-segment LED1-digit	
Board operation switch	Rising, stopping, descent, confirm, manual-automatic switching, ECO mode	
Basic functions	Frost adhesion prevention function, accident diagnosis function, rise and fall speed four steps variable, ECO level setting function, mode of operation lock function, the upper limit stop time setting variable 0-30 seconds	
counter	Down point display	
Regenerative resistor size	W182×H44×D15(L500-1500mm with cable)	
Motor protection	Leakage breaker (single phase AV100-200V COMMON 15A 30mA) W32×H70×D51	
Usage environment	Ambient temperature more than -10 $^\circ\!$	

	Spec of explosure proof all air	Spec of explosur proof air electric/electric	
Target model	G10A/20A/30A	G10E/20E/30E	
controller size	W400×H850×D160	W400×H850×D160×2type	
Input power source	-	Single-phase AC100V ∼ 200V	
Stop position control	Air type limit switch	Auto switch	
control	Air cylinder		
air	0.5Mpa		
Board operation switch	Rising, stopping, descent	Rising, stopping, descent, confirm, manual-automatic switching, ECO mode	
Basic functions	-	Rising and descent variable speed ECO level setting function	
counter	6 digits air counter	6 digits digital	
Motor protection	_	Overload, short-circuit protection common leakage breaker (single-p hase AC100-200 common 15A30mA) W32×H70×D51	
Usage environment	Ambient temperature more than -10 °C ~ less than 40 °C (except frozen state), ambient humidity: RH85% or less.		



Note about installation environment

Also include the following disclaimer, in the case of shutter performance can not stand a severe environment (winds climate and facilities make impact to the shutter operation such as high wind), Please use another product (steel shutter.over slider etc.) on establishment. For more information, please contact your dealer or manufacturer Product

Product quarantee

■ About Product guarantee

Warranty coverage: sheet shutter(happy gate monban)system G series/R series/Refrigerated freezer specification/various type of Explosion-proof

If this product is connected or integrated with other devices, the installation/removing from the device/ construction work for other supplementary/cost of transport/user loss the using opportunity/indirect damage of business interruption and the consequential or incidental damages are out of burden scope, absolutly.

Guarantee period: 1 year or 100,000 times after delivery.

(Authough in the usage period but opening and closing number is more than 10 million times and the failure caused by the installation environment can not guarantee)

■Immunity

- 1.Natural disasters and other uncontrollable(For example, defects in the case of the situation that exceeds the performance of the product because heavy rain, storm, ood, storm
- 2.Defects caused by natural phenomena and operating environments.(For example vibration and resonant sound due to wind, coupling, condensation)
- 3. Corrosion or other defects in the poor environment of areas or places.
- (Fore example, corrosion or other defects due to corrosion by salt damage in coastal areas,)
- 4.Defects due to exceed the performance of product that has been expressed in this document
- 5. Defects of the product due to other than product Defects, such as deformation of the architectural precursor
- 6.Defects the case of usage is different from using target or in the cast of used out of target in the original.
- 7.Defects due to third-party processing that does not depend on our arrangements, assembly, construction, management,
- 8. The Defects due to the fact that you did not perform proper maintenance or operation error after delivery
- 9.Defects due to Assembly, construction, repair, improvement, due to deficiencies and maintenance etc.
- 10.Defect of abrasion of the contact portion according to use, scratches,
- 12. The problems caused by harmful insects such as rat, cockroaches and the small animals such as dogs, cats,
- 13.the sound that no trouble function, Sensory phenomenon such as vibration
- 14.Damage or failure caused by illegal activities such as crime
- 15.If the cause of the other Defects from the third party

■Warranty starting time

Repair and Replace after the expiration of warranty period. In the cast there is no document that can be identified the delivery date after-sales and construction, may i refer warranty period by Date of manufacture of the product without permission. If you have any questions about the warranty period, warranty information, please inquiries and contact us.

Recommendation of periodic inspection contract

con dence with Manban.In order to get keep forever,as well as daily inspections to carry out daily and the professional inspectand maintenance periodic. Those which it has been installed especially in the high frequency of use location and those which that have been installed in the severe environment of use be facing the outdoor consumable parts are violently, and The durability will be signi cantly reduced.

Decreases the function in parts of consumption and aging, there is also a risk that lead to accidents.

Although the number of regular inspections can not be set uniformly because di erent in frequency of use and installation environment, consult with the purchase of dealer to guide the following parts inspection and replacement list and recommended that you make a periodic inspection contract. Periodic inspection contract will be reported the results do the inspection based on the check list. If an abnormality such as consumables were observed in the inspection, maintenance by change parts after consult with contractors. Inspection other than the manufacturer certied stores sometimes result in personal injury or death or serious accident.

- Periodic inspection noti cation function of controller 50 000 times, 100,000 times, 200,000 times (every subsequent 100 000 times) will inform the inspection time in the alarm and the LCD
- One month inspection: Inspect each installation sensor and detection area and abnormal noise generation once a month. Please check whether to operate normally.

Major inspection content (simple inspection)

- Abnormal sound. driving during opening and closing operations
- Setting stop position (etc overrun)
- •damage and abrasion of the guide rail
- Damage and abrasion of sheet
- Damage of body-side frame
- Lubrication

Exchange and inspection period (standard)

G/GF series				
Part name	Exchange and inspection period (standard)			
Sheet,tube portion	300,000 times or 5 years			
Tube guide	500,000 times or 5 years			
Return guide	500,000 times or 5 years			
Frame, mounting condition	500,000 times or 5 years			
Winding-up box	500,000 times or 5 years			
Drum	500,000 times or 5 years			
Drum dsk	500,000 times or 5 years			
Switching device	1,000,000 times or 5 years			
Control panel	1,000,000 times or 5 years			
Sensor type	1,000,000 times or 5 years			
Switch type	1,000,000 times or 5 years			
Airtight seal	100,000 times or 5 years			
	Part name Sheet,tube portion Tube guide Return guide Frame, mounting condition Winding-up box Drum Drum dsk Switching device Control panel Sensor type Switch type			

Merchandise management system

Monban is assigned the serial number one by one from the initial launched in 1985, and all the specifications such as shutter size and sheet color and other peripheral devices have to be managed.

you should provide us with serial number for respond quickly when you periodic inspect and got trouble.

R series

	Part name	Exchange and inspection period (standard)
Sheet part	Sheet	300,000 times or 5 years
	Roller unit with Rubber ring	300,000 times or 5 years
Frame part	Resin guide (steel only)	500,000 times or 5 years
	Frame, mounting condition	500,000 times or 5 years
Winding-up part	Winding-up box	500,000 times or 5 years
Driving part	Drum	500,000 times or 5 years
	Drum dsk	500,000 times or 5 years
	Switching device	1,000,000 times or 5 years
	Control panel	1,000,000 times or 5 years
Control part	Sensor type	1,000,000 times or 5 years
	Switch type	1,000,000 times or 5 years
Air tight	Airtight seal	100,000 times or 5 years

#KV Controller (without top cover) is for the GF17 / 22 / G119 / 219 / R109 / 209 type. #KV Controller (with top cover) is for R309 / 30W / R409 / 40W type.

Manufactured by:



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Imported by:



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