

Spec

Indoor (Pipe-less type)

		Small Door					Middle Door	Small Door	Middle Door	Freestanding	
Type		G062	G022	G114	G024	G119	G219	GF17	GF22	G12S	G14S
Manufacturable Dimension	W	600 - 1500	700 - 1500	600 - 3000	700 - 3000	800 - 3500	800 - 4500	800 - 3500	800 - 4500	800 - 1600	800 - 2500
	H	600 - 2300		1000 - 3500			1000 - 4500	1000 - 3500	1000 - 4500	1800 - 2000	1800 - 2500
Opening & closing m/c	Input power source	Single-phase AC200V ~ 230V± 1 0%									
	Output	0.2Kw		0.4Kw		0.95Kw				0.2Kw	0.4Kw
	Opening&Closing Speed (Setting when shipment)(unit:m/s)	Open:3.0-1.5(2.0) Close:1.5-0.5(0.7)				Open:3.2-1.2(2.0) Close:1.5-0.5(0.7)	Open:1.5-0.7(1.5) Close:1.5-0.5(0.7)	Open:1.5-0.7(1.5) Close:1.5-0.5(0.7)		Open:3.0-1.5(2.0) Close:1.5-0.5(0.7)	
	Reduction Speed Ratio	1/10		1/14		1/10	1/23	1/23		1/10	1/14

※ G series is indoor installing type. G219 is increase lower weight type. ※ Operation switch install in the right of flame. But if G114/119/219 below than H2200 should be install in the right flame.
※ For controller, G022/024 has only built-in winding box, G114 has built-in side flame and placing GA separately, G119/219 has built-in side flame and placing KVA separately.
※ G062/022/114/024/119/219 has only aluminium flame, GF17/22 has only color steel plate/stainless steel plate flame.

Outdoor (Pipe type) ※R054/109 is indoor spec

		In door		Small Door	Middle Door	Big Door		Small Door		Power supply spec 3 phase 200V			
Type		R054	R109	R209	R309	R409	RF50	R30W	R40W	R30T	R40T		
Manufacturable Dimension	W	600 - 2000	600 - 2500	800 - 3200	3000 - 5300	5400 - 7000	7100 - 10000	800 - 3500	800 - 4500	800 - 1600	800 - 2500		
	H	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± 1 0%									3 phase AC200V± 1 0%		
	Output	0.4Kw	0.95Kw									0.75Kw	
	Opening&Closing Speed (Setting when shipment)(unit:m/s)	Open:2.0-1.2(1.2) Close:1.5-0.5(0.7)	Open:2.0-1.6(1.6) Close:1.5-0.5(0.7)	Open:1.5-0.7(1.0) Close:1.5-0.5(0.7)	Open:1.0-0.7(1.0) Close:1.0-0.5(0.7)	Open:0.7-0.55(0.55) Close:0.7-0.55(0.55)	Open:0.55(0.55) Close:0.55(0.55)	Open:0.75-0.55(0.7) Close:0.6-0.4(0.55)	Open:0.45-0.3(0.4) Close:0.45-0.3(0.4)	Open:1.0-0.7(1.0) Close:1.0-0.5(0.7)	Open:0.51-0.4(0.48) Close:0.51-0.4(0.48)		
	Reduction Speed Ratio	1/14	1/10	1/23	1/50	1/74	1/74×2	1/74		1/25	1/43		

※ When order R054/109/209/309 please select built-in controller and placing separately. ※ 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 KVB(Large-capacity type).
※ RF50 has only color steel plate/stainless steel plate flame. ※ Please use controller placing separately type when install in the place which may be impact from water such as rain or condensation.
※ In case of aluminium flame R054/109/209/309 type the controller is built-in flame, for R054 has placing GA separately, for R109/209/309 has placing KVA separately. In case of steel plate flame will be placing separately. For R409 placing KVA and KVB separately depend on size.

Body Color



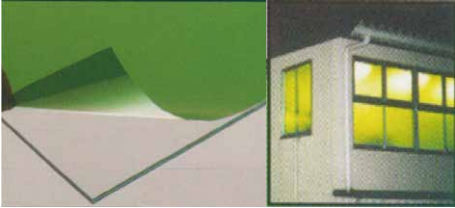
Oyster white (CGCC colour steel plate)
JPMA No. H27-85B correspondent
(Japan Paint Manufacturers 2015 H-edition)

Aluminium (Anodizing)
※ Aluminium frame only
※ Exclude GF/RF50

Stainless (SUS304 Hairline) Caution specification
※ Only wind roll box for G series (exclude GF)
※ RF50 has only frame

※1.Please install as not to apply direct rain and water on the product. ※2.Please avoid to use in the area or place which bad environmental condition such as corrosive atmosphere which deal with coastal area or various types of metal powder and scientific chemicals, condensation and freezing and poisonous gas. ※3.Make body (W/H) each 100mm. ※4.Please consult when over scope of manufacturing spec of product. Please acknowledge that it may not be able to manufacture. ※5.Please acknowledge that there is a case to change without prior notice for product appearance and specification.※6.Please read the instruction manual carefully when use. ※7.For the model which have common dimension can be install, please select the model by refer the wind resistance speed data by type.

Opton related product



Optron flim
Window glass seal film which has air conditioning effect by the heat wire interception and glass scattering prevent effect at calamity time, besides insect-control



Optenergy LED illuminator
LED illuminator for prevent insect prevent around 80% of invasion from outside insect and obiate foreign mix accident



OptcleanVI(Insect trap)
By the combined use with Opto energy(Optron),the preminent insect-control and insect-capturing effects are demonstrated.



小松電機産業株式会社

KOMATSU ELECTRIC INDUSTRY CO.,LTD.

HEAD OFFICE

Matsue-Konan-Technopark, 735-188 Nogifukutomicho, Matsue-shi, Shimane, Japan
Tel : 050-3161-2487 FAX 050-3161-3844

TOKYO BRANCH OFFICE

5Fl., Takakuwa Build.,1-18-13 Hamamatsu-cho, Minato-ku, Tokyo, Japan
Tel : 050-3161-2483 FAX 050-3161-3841

OSAKA BUSINESS OFFICE

2-6-37 Nakashinkai, Higashiosaka-shi, Osaka, Japan
Tel : 050-3161-2484 FAX 050-3161-3842

KOMATSU KOREA

KOFOMO Techno Center 2-718, 341, Gongdan 1-daero, Siheung-si, Gyeonggi-do, Korea(1289-5, Jeongwang 1-dong)
TEL 82-31-498-6655 FAX 82-31-498-6019

<http://www.komatsuelec.co.jp/monban/>

※The contents of this catalog is issued on February 2015 currently.

※This photograph is an image so the color might be different from actual. ※ Product appearance and specifications may be change without notice for quality improvement.

※They can say that the insect repellent of optron can not attract insect to the light source which have the characteristic for attract to light(Phototaxis of light).

※Optron is generic name of insect repellent principle that was born by the joint development of Ikari Disinfection Co.Ltd. and TAISEI FINE CHEMICAL CO.,LTD. under the cooperation of the Tokyo Metropolitan government. ※Optron has a registered trademark of product which joint developed by the above two companies. Please pay attention to the similar products of optron.

joint development  **イカリ消毒株式会社**  **大成ファインケミカル株式会社**  **小松電機産業株式会社**

Green environmental which high insect repellent function



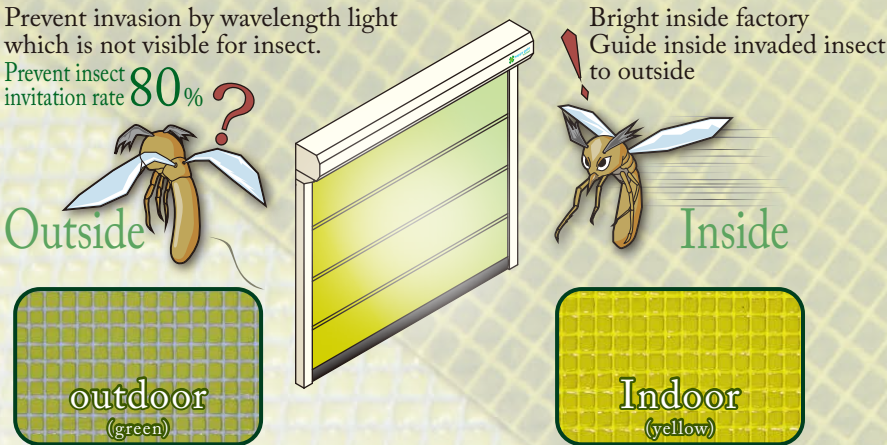
Control invasion of insect
by W effect of green and yellow.



Green and yellow the best function is complete with Magic Optron MONBAN

Outside green, Inside yellow Create bright working environment to control insect

Prevent invasion by wavelength light which is not visible for insect.
Prevent insect invitation rate 80%

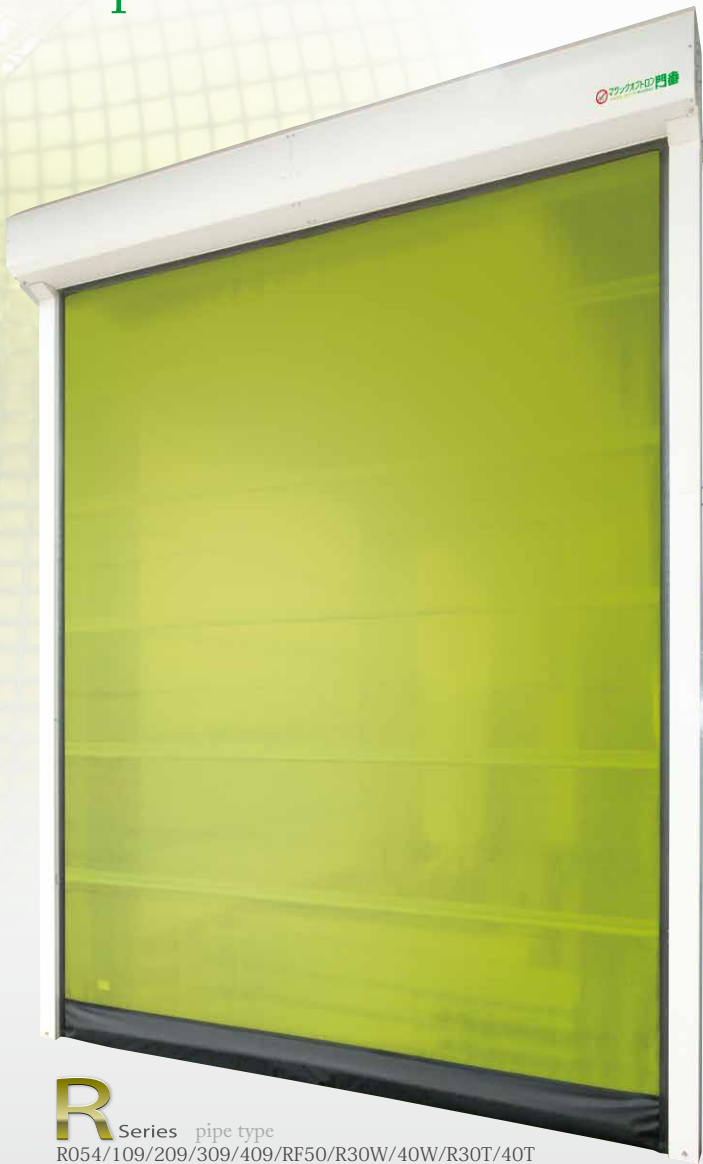


Feature / Effect

1. Prevent invasion from outside by wavelength of light which make insect could not see.
2. Confirm safety by high visible light green
3. Improve working environment, factory is brighten by yellow colour inside.
4. Apply yellow colour to tilt toward at insect principle.



G Series pipeless type
G062/022/114/024/119/219/GF17/22/G12S/14S
indoor W 600 ~ 4500
H 600 ~ 4500 unit : mm

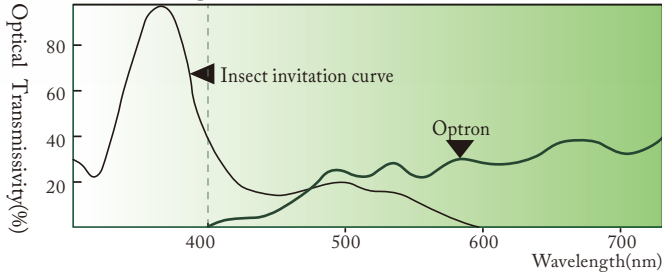


R Series pipe type
R054/109/209/309/409/RF50/R30W/40W/R30T/40T
outdoor W 600 ~ 10000
H 1000 ~ 6000 unit : mm

The science of the light which is visible to people and is not visible to insect

cut sharply the wavelength area to 500nm where insects react activity

Insect collect wavelength cut



Developed sheet based on research of Flying insect habit and Characteristics of light and colour. Create insect “invisible light” for ontrl invasion from outside.

Type of insect which have characteristic of being invited to the light.



Result of insect control effect examination

	clear	orange	optron
Prevent insect invitation rate	48.3%	69.6%	80.7%

Insect-control effect for transmittivity and night light attraction of another colour by uniquely insect-control effect test. Control outside insect attractive, Keepphygienie environment inside.

※Data of Japan Environment Animal and Entomology Society

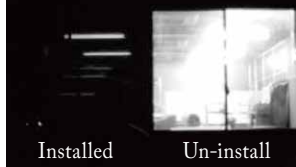
<Sample of installation of factory carry-in entrance>



People seen image

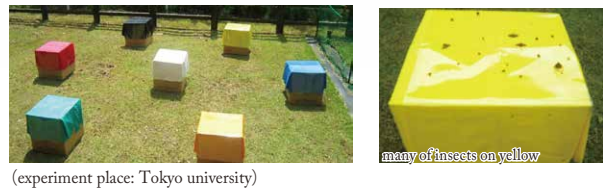


Insects seen image



different colors have unlike characteristic to attraction

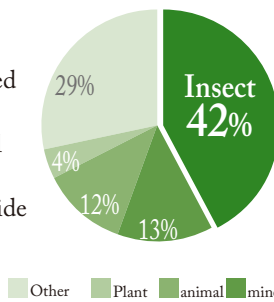
using 7 colors of blankets for the Color Attraction experiment. There are many insects on the yellow one, in opposite the blue one and green one can attract a few insects. Yellow color has high quality of attraction, so it can prevent insects invade to inside



The adulteration makes image down

the principal cause of the adulteration in product. 80% comes from insects that attracted by lighting. Magic Optron Monban control lighting and color for prevent insects in stead of using nsecticide like other original sheet

(Tokyo living environment 1996)



Quiet and smooth opening and closing by tube form (G series : pipe less)



The highest opening speed in the industry. (G Series pipeless)

High opening speed (G119 the highest speed)
3.0 m/sec
the operation of start up sensor or switch will be ran by machine usually driving

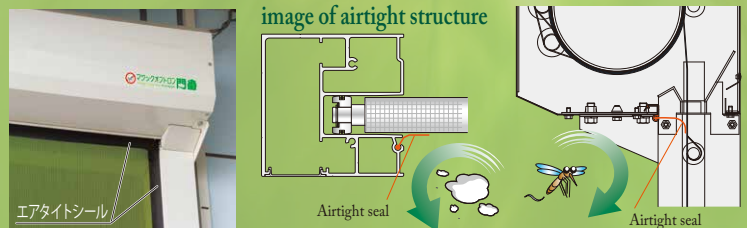
Reversing opening for safety
middle speed **1.5 m/sec**
phototube sensor detecting, scan going up except the lowest position
low speed **0.5 m/sec**
detect touching or bear while machine is running

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.

come off sheet is automatically return (G Series pipeless)



Wind and Atmospheric pressure Pipe system (R series : pipe less)



Positive pressure **10.21**
Negative pressure **6.16** (Unit : m³/h · m²)
able to protect gap and inflated from wind and different atmospheric pressure by close it firmly. winding box , side frame are installed airtight,so it can prevent high atmospheric securely
※circulating air at 10Pa using JISS fore testing inside co.
※our product attach airtight seal;shown by numerically (Order specification)

unnecessary groundwork, shortly to install (G series independence system : pipeless)

part of winding,frame(2 units to install) so it can save a lot of time No need steel work, just set up the supporter in the desired area

Short time construction

maintenance's time is also short Able to change sheet and monitor without bring shutter box down
※above-mentioned of install time will be different; depend on environment. if set up in general floor, it can finish in predicted time

