INNOVATIVE VENTILATION SOLUTIONS

HAYASHI®


GO
GREEN

DECORATIVE FANS

CEILING FANS

INDUSTRIAL FANS

VENTILATING FANS

INSECT KILLER

HAYASHI®

Japanese Technology Designed For Indian Sub-Continent

International Certifications

ISO 9001:2000
Manufactured by ISO 9001:2000 Quality Certified by
TQCSI
the preferred option for certification....

SASO

Emirates Authority For Standardization & Metrology

BUREAU VERITAS 1828
L C I E

GO GREEN

*certifications on select models.

**Due to continuous upgradation the design & specifications may vary without notice. The colour of the fan shown may differ from the actual fan colour due to printing limitations. All Technical Data is indicative, variation of ± 10% may occur.

JAPAN
GLOBAL FOOT-PRINT

page - 9

page - 7

page - 28

page - 9

page - 10

page - 20

page - 11

page - 23

page - 25

page - 26

HAYASHI

www.hayashiglobal.com

GO GREEN

Index

Ventilation Selection		Pg.02
DÉCOR FANS	OPULENT	Pg.06
	ORNATE	Pg.07
	EVO, ARTEMIS,	Pg.09
	BARA	Pg.10
	FIORE	Pg.11
	RAPPER	Pg.12
	SEAGULL, PEARL	Pg.13
	JEWEL, CROWN CRYSTAL	Pg.14
	MAJESTIC GOLD, LOTUS GOLD	Pg.15
	GRANDE', FLORET	Pg.16
Exhale Fans		Pg.17
Ceiling Fans		Pg.22
Classy, Pedestal Fan & Table Fan		Pg.25
Metal Exhaust Fan		Pg.26
Ventilating Fans		Pg.27
Insect Killers		Pg.30

HAYASHI®

GO GREEN

www.hayashiglobal.com

VENTILATION SELECTION

WHY YOU NEED VENTILATION?

- New building materials and construction methods are effectively resulting in "waterproof" buildings. They trap moisture inside just as effectively as they keep moisture out.
- Open doors and windows provide air circulation and ventilation but security considerations mean that we are increasingly less likely to use this option. As a result houses tend to remain closed up more often.
- Poor ventilation results in a buildup of moisture generated by cooking/bathing/showering/clothes washing-drying/LPG gas heating...even breathing!
- Stale air can be caused by cooking smells, odors remaining in the bathroom, a general lack of ventilation around the house as well as a damp atmosphere.

PROBLEMS CAUSED BY POOR VENTILATION

- All these problems cause an avoidable level of discomfort as well as the risk of respiratory illness and general poor health.
- Problems also occur when steam from the kitchen or bathroom finds cooler surfaces around the house on which to condense. Warm, moisture-laden air condenses on cold surfaces such as glass, cold ceilings and cold wet-wall linings. This is the moisture that you can see.
- Moisture you cannot see is still present in the atmosphere and will be absorbed into fabrics, wall linings, bedding, etc. Attempts to conserve heat by sealing windows and therefore reducing natural ventilation makes this problem even worse.
- Condensation can cause considerable problems from peeling wallpaper and mold growth to severe long term structural damage to building materials.

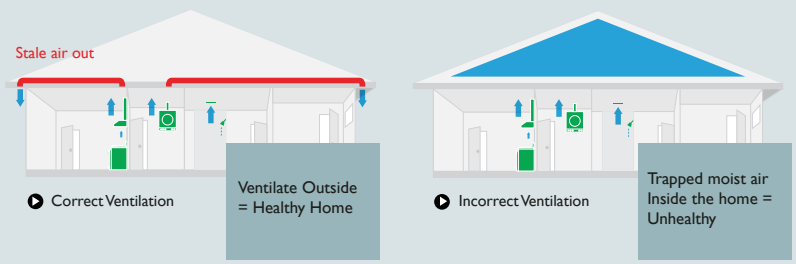
MOISTURE GENERATORS:

BATHROOM
SHOWERING

CONDENSATION
GAS HEATING

KITCHEN
TOILET
LAUNDRY

BREATHING
WATERING PLANTS



VENTILATION SELECTION

YOUR VENTILATION SOLUTIONS

It is best to remove moisture from where it is generated to outside the house before it has a chance to spread to other parts of the house. Use ducted fans, through-wall fans or window fans at all times. DO NOT use ceiling fans which discharge into the ceiling cavity, this only aggravates the problem.

Moisture will permeate insulation and ceiling linings causing further problems. In particular with bathrooms think in terms of "room-conditioning". Warm, moist air is immediately attracted to cold surfaces, where it condenses into water droplets.

Cold surfaces include glass, mirrors, tiles, wet-wall linings, cold un-insulated ceiling linings, etc. You cannot remove all of this air at a rate fast enough to stop this happening and if you could, you would be standing in a wind tunnel. Use of a bathroom heater to warm the room prior to use greatly assists in reducing condensation.

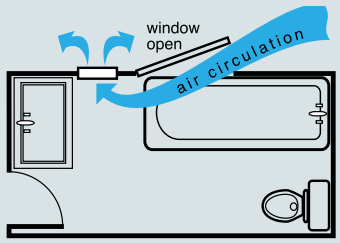
FAN PLACEMENT

Careful location of an extraction fan will ensure maximum air-flow through the room. Air extracted from a bathroom, for example, can be replaced with dry air drawn from an adjacent bedroom or hallway, in turn, drawn from an open window or door.

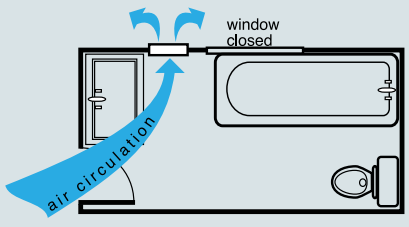
This ensures that fresh air is being drawn into the entire house at regular periods. Switching the fan on before starting showering or cooking sets up effective air-flows before condensation problems occur. Closing doors to adjacent living areas assists in stopping the transfer of moisture to those areas but ensure that sufficient air can enter under the door to replace extracted air.

Use a door vent if necessary.

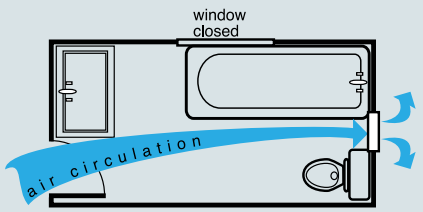
For a fan to remove air effectively, the same amount of air being extracted must be able to enter the room. E.g. air in = air out. An air-tight room will mean no air movement. If the room is tightly sealed (e.g. a tight-fitting door, with no gap at the bottom), you may need to fit a through-door grille to allow replacement air into the room.



Poor Circulation



Medium Circulation



Best Circulation

VENTILATION SELECTION

FAN REGULATIONS

WHAT THE LAW STATES

"Buildings shall have a means of collecting or otherwise removing: cooking fumes and odors; steam from laundering, utensil washing, bathing and showering; odors from sanitary and waste storage spaces; poisonous or flammable fumes and gases".

- Natural Ventilation for the above is acceptable as long as opening windows in each room have an area of 5% or more of the floor area of the room.
- For internal rooms without natural ventilation, mechanical ventilation (extraction fans) must be installed to extract the air at given rates. Residential requirements are listed below.
- Where fans are used to remove moisture and other contaminants from kitchens, bathrooms and laundries in housing, the exhaust air must be ducted to the outside at the flow rates mentioned above.
- The above requirement for ducting also applies to any fan in those areas, even if there is an opening window (i.e. even if the fan is not a requirement to comply with ventilation regulations, but is installed as an optional extra).

INDUSTRY RECOMMENDATIONS

- The mentioned flow rates below are minimum allowable. in general these would not be enough to overcome excessive moisture and condensation problems encountered in modern homes.
- The ventilation industry has a "Recommended Air-changes per Hour" approach solution. i.e. An air flow rate sufficient to remove/replace the total volume of air in a given room a specified number of times each hour. Obviously fans will not necessarily be left running for an hour - a fact which is taken into consideration in the formula.

For example: A bathroom is recommended at between 11 & 15 air-changes per hour. Therefore 15 changes per hour means the total air in the room would be replaced after 4 minutes.
E.g (60 minutes @ 15 changes per hour = 4 minutes).

This would mean an average bathroom usage of 12 - 16 minutes resulting in the total air volume being changed 3 to 4 times. This equates to a rate of 15 ACH.

BATHROOMS

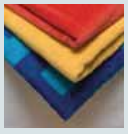
The regulations require a fan capable of a minimum extraction capacity of 25 liters per second when installed.

KITCHENS

The regulations require a fan capable of a minimum extraction capacity of 50 liters per second when installed.

TOILETS

The regulations require a fan capable of a minimum extraction capacity of 25 liters per second when installed.



LAUNDRIES

The regulations require a fan capable of a minimum extraction capacity of 20 liters per second when installed.

VENTILATION SELECTION

Use the Air Changes Calculation to Determine Room CFM

Engineering room airflow may present a real challenge when balancing an HVAC system. Most calculations only use the heat loss or gain of a room to decide on required airflow and often don't take into consideration required room ventilation needs. Let's take a look at how an air change calculation may simplify this step in your air balancing.

What is an Air Change?

An air change is how many times the air enters and exits a room from the HVAC system in one hour. Or, how many times a room would fill up with the air from the supply registers in sixty minutes.

You can then compare the number of room air changes to the Required Air Changes Table below. If it's in the range, you can proceed to design or balance the airflow and have an additional assurance that you're doing the right thing. If it's way out of range, you'd better take another look.

The Air Changes Formula

To calculate room air change, measure the supply airflow into a room, multiply the CFM times 60 minutes per hour. Then divide by the volume of the room in cubic feet:

$$\text{Air Changes / hr} = \frac{\text{CFM X 60 min}}{\text{Volume of Room}}$$

In plain English, we're changing CFM into Cubic Feet per Hour (CFH). Then we calculate the volume of the room by multiplying the room height times the width times the length. Then we simply divide the CFH by the volume of the room.

Here's an example of how a formula works:

$$\text{Air Changes / hr} = \frac{\text{300 cfm x 60min}}{\text{15'x20'x8'}}$$

$$\text{Air Changes / hr} = \frac{18000}{2400}$$

$$\text{Air Changes / hr} = 7.50$$

Now compare 7.5 changes per hour to the required air changes for that type of room on the Air Changes per Hour Table below. If it's a lunch or break room that requires 7-8 air changes per hour, you're tight on target. If it's a bar that needs 10-20 air changes per hour, it's time to reconsider.

Typical Air Changes Per Hour Table

Residential	
Basements	3-4
Bedrooms	5-6
Bathrooms	6-7
Family Living Rooms	6-8
Kitchens	7-8
Laundry	8-9
Light Commercial	
Office	
Business Offices	6-8
Lunch Break Rooms	7-8
Conference Rooms	8-12
Medical Procedure Offices	9-10
Copy Rooms	10-12
Main Computer Rooms	10-14
Smoking Area	13-15
Restaurants	
Dining Area	8-10
Food Staging	10-12
Kitchens	14-18
Bars	15-20
Public Buildings	
Hallways	6-8
Retail Stores	6-10
Foyers	8-10
Churches	8-12
Restrooms	10-12
Auditoriums	12-14
Smoking Rooms	15-20

DÉCOR

OPULENT-MAHA

Model	Description
K-00073	• 54" Ceiling Fan in Chrome Finish • 188x25mm Motor , 30cm Dowonrod + Ball • 5pc Mahogany Plastic Blades • 3 Speed Remote Control

OPULENT / R

Model	Description
K-00030	• 54" Ceiling Fan in Chrome Finish • 188x25mm Motor , 30 cm Downrod + Ball • 5pc Red Plastic Blades • 3 Speed Remote Control • Carton Size:782x342x318(mm)

OPULENT / W

Model	Description
K-00033	• 54" Ceiling Fan in Chrome Finish • 188x25mm Motor , 30cm Dowonrod + Ball • 5pc White Plastic Blades • 3 Speed Remote Control

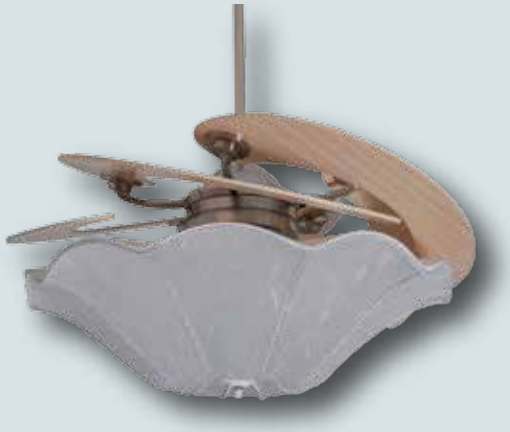
Model	Description
K-00061	• 56" Ceiling Fan in Brushed Nickel Finish • 5pc Mahogany Blades • With White Lamp shade • 3 Speed Remote Control • Lighting Kit: E14 X5 pcs(Bulb not Included) • 188x25mm Motor , 20 cm Downrod

ORNATE-MAHA

Model	Description
K-00064	• 56" Ceiling Fan in Brushed Nickel Finish • 5pc Mahogany Blades • With Embroidery Lamp shade • 3 Speed Remote Control • Lighting Kit: E14 X5 pcs(Bulb not Included) • 188x25mm Motor , 30cm Dowonrod

ORNATE-MAHA / E

DÉCOR



ORNATE-OAK / W

Model	Description
K-00066	• 56" Ceiling Fan in Brushed Nickel Finish • 5pc White Oak Blades • With White Lamp shade • 3 Speed Remote Control • Lighting Kit: E14 X5 pcs(Bulb not Included) • 188x25mm Motor , 20 cm Downrod

ORNATE-OAK / E

Model	Description
K-00068	• 56" Ceiling Fan in Brushed Nickel Finish • 5pc White Oak Blades • With Embroidery Lamp shade • 3 Speed Remote Control • Lighting Kit: E14 X5 pcs(Bulb not Included) • 188x25mm Motor , 20 cm Downrod

Model	Description
210899	-Color: Chrome -Blade Size: 122cm/48inch(fan sweep) 47.2cm/19inch(collapsed) -3 speed retractable blade ceiling fan - T5 Fluorescent circular tube included -Fan Finish: Metal -Blade Finish: Acrylic -Lamp: 1 X 55W T5 Included -Switch: Wall Switch / Remote Control

EVO

Model	Description
210309	-Color: DK -Blade Size: 147cm/58inch -3 speed aerodynamic blade ceiling fan -Blade Finish: PC DK -Lamp: 1 X 80W R7s Included -Switch: Wall Switch / Remote Control

ARTEMIS

DÉCOR

BARA LIGHT

Model	Description
210525	-Color: Brushed Chrome -Blade Size: 127cm/50inch -6 speed remote control with reverse functionality -Fan Finish: Metal -Blade Finish: ABS
BI2105254	-Switch: Remote Control -850Lumen AIRFUSION CLIMATE LIGHT KIT

BARA

Model	Description
BI2100388	-Color Brushed Chrome -Fan Size 122cm/48inch -3 speed ceiling fan -Blade Finish Plywood -Lamp 1 X GX53 LED 5.5w Included, 600Lumen -Switch Pull Chain

Model	Description
K-00029	• 42-inch Ceiling Fan in brushed nickel Finish • Motor: 188 x 15mm, 30cm Dowonrod + Ball • 0-Degree Blade Pitch, Eight Clear Plastic Blades(AS) • Lighting Kit: E14 X3 pcs(Bulb not Included) • 3 Speed Remote Control • Opal Frosted Glass

FIORE CLEAR

Model	Description
J-00064	• 42-inch Ceiling Fan in RB painting Finish • Motor: 188 x 15mm, 30cm Dowonrod + Ball • 0-Degree Blade Pitch, Eight AMBER Plastic Blades(AS) • Lighting Kit: E14 X3 pcs(Bulb not Included) • 3 Speed Remote Control • Amber Glass

FIORE AMBER

RAPPER MAHA

Model	Description
K-00001	• 46" Ceiling Fan in Roman Bronze Finish • 188X15mm Motor, 30cm Dowonrod + Ball • 5pc Mahogany Blades • Lighting Kit: E14 X2 pcs(Bulb not Included) • Frosted Glass • 3 Speed Remote Control

RAPPER OAK

Model	Description
K-00024	• 46" Ceiling Fan in Brushed Nickel Finish • 188x15mm Motor , 30cm Dowonrod + Ball • 5pc White Oak Blades • Lighting Kit: E14 X2 pcs(Bulb not Included) • Frosted Glass • 3 Speed Remote Control

HAYASHI

Model	Description
PT-3527	-Color: Antique Brass -Material: Wrought iron -Fan size: Φ1250mm -Fan height: H40cm -Motor spec: Φ153 x 15.2mm -Motor wattage: 70w -Material of blades: 52"S shape iron blades -Quantity of blades: 4 leaf -Specification for lamps: E27 x 2, LED -Control type: wall, remote control

SEAGULL

Model	Description
PT-3547	-Color: Nickel chrome color -Material: Wrought iron -Fan size: Φ1320mm -Fan height: H45cm -Motor spec: Φ153 x 15.2mm -Motor wattage: 70w -Material of blades: 52"Non–deformation wooden blades -Quantity of blades: 4 leaf -Specification for lamps: LED -Control type: wall, remote control

PEARL

GO GREEN

DÉCOR

JEWEL

Model	Description
PT-3812	-Color: Red and Gold -Material: Wrought iron invisible fan lights -Fan size: Φ1070mm 42” -Fan height: H45cm -Motor spec: Φ153 x 15.2mm -Motor wattage: 70w -Material of blades: PC Transparent plastic blades -Quantity of blades: 4 leaf -Specification for lamps: E27 x 2, LED -Control type: wall, remote control

CROWN CRYSTAL

Model	Description
PT-3815	-Color: Nickel chrome color -Material: Wrought iron invisible fan lights -Fan size: Φ1070mm 42” -Fan height: H55cm -Motor spec: Φ153 x 15.2mm -Motor wattage: 70w -Material of blades: PC Transparent plastic blades -Quantity of blades: 4 leaf -Specification for lamps: Crystal lamp ring, LED -Control type: wall, remote control

Model	Description
PT-3838	-Color: Red and Gold -Material: Wrought iron invisible fan lights -Fan size: Φ1070mm 42” -Fan height: H55cm -Motor spec: Φ153 x 15.2mm -Motor wattage: 70w -Material of blades: PC Transparent plastic blades -Quantity of blades: 4 leaf -Specification for lamps: LED -Control type: wall, remote control

MAJESTIC GOLD

Model	Description
PT-3842	-Color: Red and Gold -Material: Wrought iron invisible fan lights -Fan size: Φ1070mm 42” -Fan height: H55cm -Motor spec: Φ153 x 15.2mm -Motor wattage: 70w -Material of blades: PC Transparent plastic blades -Quantity of blades: 4 leaf -Specification for lamps: LED -Control type: wall, remote control

LOTUS GOLD

DÉCOR

GRANDE'

Model	Description
PT-3844	-Color: Red and Gold -Material: Wrought iron invisible fan lights -Fan size: Φ1070mm 42” -Fan height: H55cm -Motor spec: Φ153 x 15.2mm -Motor wattage: 70w -Material of blades: PC Transparent plastic blades -Quantity of blades: 4 leaf -Specification for lamps: LED -Control type: wall, remote control

FLORET

Model	Description
PT-6188	-Color: Bronze -Material: Wrought iron + Zinc alloy flower -Fan size: Φ1320mm -Fan height: H60cm -Motor spec: Φ153 x 15.2mm -Motor wattage: 70w -Material of blades: 52”Non–deformation wooden blades -Quantity of blades: 6 leaf -Specification for lamps: E27 x 6, LED -Control type: Wall, remote control

ENERGY EFFICIENT SOLUTIONS

These fans offer substantial energy savings, utilizing market leading motor technology, which lasts considerably longer than conventional AC motors.

exhale FANS

GO GREEN

HAYASHI®

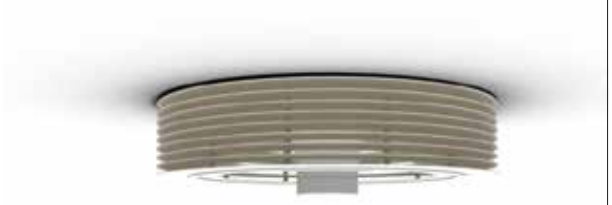
exhale FANS

www.hayashiglobal.com

GO GREEN

HAYASHI

exhale FANS



INTRODUCING THE EXHALE® FAN
THE WORLD'S FIRST TRULY BLADELESS CEILING FAN

VORTEX AIRFLOW

Our airflow profile makes the real difference on how you feel in your living or working space. Air exits the Exhale® fan in all directions, 360° horizontally. The unique airflow also starts a gentle rotation in the center of the room. The combined action, of the 360° horizontal airflow and the central vortex surrounds you with the gentle air movement of a cool spring day in every corner of the room. This is unlike anything experienced from the traditional bladed ceiling fan.

As the air from the Exhale® fan spreads around you, your space will be transformed from a stale room to an area of constant comfort.

THE DIFFERENCE:

The Exhale® fan has a much smaller diameter at 34" when compared to the large fans in the market today. With its low profile and sleek design, the Exhale® fan will fit into any home décor whether you're interested in showing it off as a modern design element with a vibrant color or just wish it to disappear into the ceiling in more traditional homes. Every aspect of the Exhale® fan has been scrutinized to bring you the highest quality product possible.

DIMENSIONS & SPECIFICATIONS:

Width: 34" (863.6mm)

Height: 7.5" (184.15mm)

Weight: 25lbs (11.4Kg)

Material: Precision injection molded

Motor: High efficiency DC motor (45 watts Max)

CFM: 4,500 @ High speed

Power: 120v/60Hz / 240v/50Hz

Control: Wireless 7-speed remote

Quiet Operation: 40 dB @ high speed

Room size: Effective in rooms up to 20'x20'

Lighting: LED (Coming soon)

Bladeless Comfort!

GO GREEN

Model: EF34

A contemporary flush mounted 'Hugger' ceiling fan, perfect for low profile applications. The vortex airflow that is created by the Exhale fan circulates throughout the room to effectively stabilize temperature while not creating unwanted drafts.

DIMENSIONS:

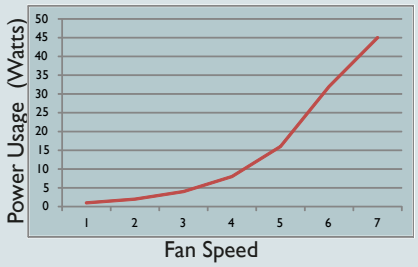
Height:	7.5 in / 18.4 cm
Width:	34 in / 86.4 cm
Weight:	25 lbs / 11.4 Kg
Motor:	High efficiency DC (45 watts max)
CFM:	4,500 @ speed 7
Control:	7-speed wireless remote

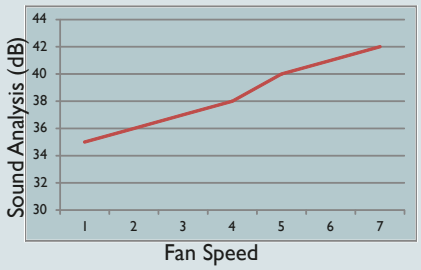
*The Exhale is not intended as a replacement for HVAC systems and is best if used in conditioned spaces to increase airflow.

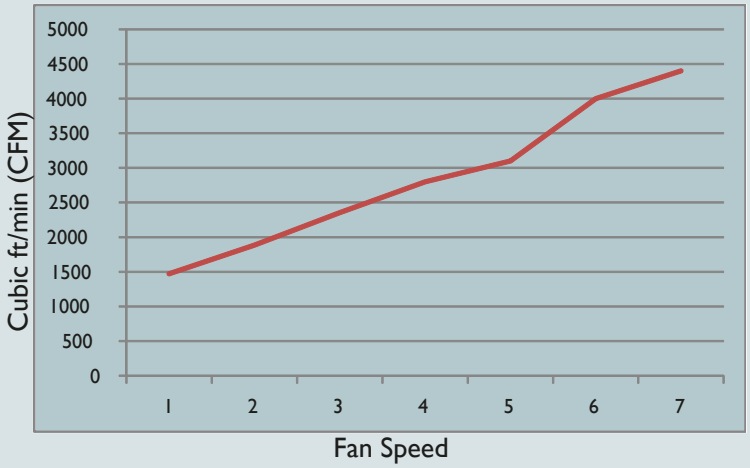
Is the Exhale right for you?

The Exhale fan was designed to efficiently mix the air in your room space from floor to ceiling. Although this airflow is more gentle than a traditional bladed ceiling fan, it accomplishes this by creating a very gentle vortex airflow that effectively swirls the air inside your space. If you already have an HVAC system and you would like to add the benefits of temperature stabilization from floor to ceiling without the unwanted drafts that a traditional bladed fan creates... Then the Exhale fan is right for you!

Tech Specs







Color	230v/50Hz
Cool White	EF34-23-WHWH
- Gray Accent Ring	EF34-23-WH3G
Ivory	EF34-23-IVIV
- Gray Accent Ring	EF34-23-IV3G
Charcoal w/Gray Accent Ring	EF34-23-CC3G
Light Gray w/Gray Accent Ring	EF34-23-2G3G
Dynamic Blue	EF34-23-LBLB
Lovely Lavender	EF34-23-LDLD
Pretty in Pink	EF34-23-PKPK
Fire Engine Red	EF34-23-RDRD

Sakura

Features :

- Available in Brown, White & Ivory color
- Available with Golden & Silver ring
- Powerful motor with silent operation
- Extra thick broader blades give higher air delivery & larger air spread
- Aerodynamically balanced blades
- Greater reliability and higher air delivery
- Well balanced designed blades for maximum air delivery
- Superior quality stoving paint for long life finish
- Better performance even at low voltage

Model	Voltage (V)	Frequency (Hz)	Sweep (mm)	Power Inputs (watts)	Speed RPM	Air Delivery (CMM)
SAK-36	230	50	900	68	440	150
SAK-48	230	50	1200	72	380	230
SAK-56	230	50	1400	75	290	270

CEILING FANS

Suisen

Features :

- Available in Brown & White color
- Cost effective fan offers greater value with superior quality
- Aerodynamically balanced blades
- Greater reliability and higher air delivery
- Standard fan with bigger motor design and high breeze
- Well balanced designed blades for maximum air delivery
- Superior quality stoving paint for long life finish

Model	Voltage (V)	Frequency (Hz)	Sweep (mm)	Power Inputs (watts)	Speed RPM	Air Delivery (CMM)
SUI-36	230	50	900	68	440	130
SUI-48	230	50	1200	75	380	200
SUI-56	230	50	1400	78	290	235

Erika

Features :

- Available in Brown & White color
- Extra thick broader blades give higher air delivery & larger air spread
- Aerodynamically balanced blades
- Greater reliability and higher air delivery
- Standard fan with bigger motor design and high breeze
- Well balanced designed blades for maximum air delivery
- Superior quality stoving paint for long life finish

Model	Voltage (V)	Frequency (Hz)	Sweep (mm)	Power Inputs (watts)	Speed RPM	Air Delivery (CMM)
ERI-36	230	50	900	68	440	140
ERI-48	230	50	1200	75	340	200
ERI-56	230	50	1400	78	290	235

HANDY RCF

Wireless Remote Control For Ceiling Fans

Model	Description
RCF	Wireless Fan Control

GO GREEN

CEILING FANS

Shion

Features :

- Available in Brown, White & Ivory color
- Cost effective fan offers greater value with superior quality
- Aerodynamically balanced blades
- Greater reliability and higher air delivery
- Standard fan with bigger motor design and high breeze
- Well balanced designed blades for maximum air delivery
- Superior quality stoving paint for long life finish

Model	Voltage (V)	Frequency (Hz)	Sweep (mm)	Power Inputs (watts)	Speed RPM	Air Delivery (CMM)
SHI-36	230	50	900	68	440	130
SHI-48	230	50	1200	75	380	200
SHI-56	230	50	1400	78	290	235

CLASSY

WALL FAN (Normal & High Speed)

Features :

- Unmatched Quality
- Ability to withstand a wide range of voltages.
- Finger proof powder-coated guards.
- Jerk-free & uniform oscillation.
- Aerodynamically designed PP blades.
- Wider air spread.
- 1x1 composite packing and the convenience of easy assembly.
- Aluminium Body Heavy Duty Motor.

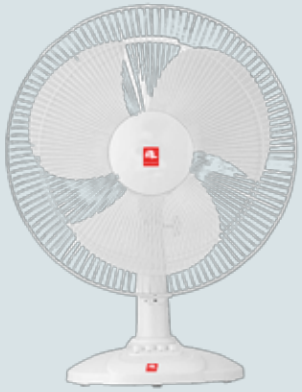
Model	Voltage (V)	Frequency (Hz)	Sweep (mm)	Power Inputs (watts)	Speed RPM	Air Delivery (CMM)
FWH12/HS	230	50	300	50	1300	65
FWN16	230	50	400	60	1300	65
FWH16/HS	230	50	400	60	2000	90

CLASSY
PEDESTAL FAN (Normal & High Speed)

Features :
- Unmatched Quality
- Ability to withstand a wide range of voltages.
- Finger proof powder-coated guards.
- jerk-free & uniform oscillation.
- Aerodynamically designed PP blades.
- Wider air spread.
- 1x1 composite packing and the convenience of easy assembly.
- Aluminium Body Heavy Duty Motor.

Model	Voltage (V)	Frequency (Hz)	Sweep (mm)	Power Inputs (watts)	Speed RPM	Air Delivery (CMM)
FPN16	230	50	400	60	1300	65
FPH16/HS	230	50	400	60	2000	90

CLASSY
TABLE FAN



Features :
- Unmatched Quality
- Ability to withstand a wide range of voltages.
- Finger proof powder-coated guards.
- jerk-free & uniform oscillation.
- Aerodynamically designed PP blades.
- Wider air spread.
- 1x1 composite packing and the convenience of easy assembly.
- Aluminium Body Heavy Duty Motor.

Model	Voltage (V)	Frequency (Hz)	Sweep (mm)	Power Inputs (watts)	Speed RPM	Air Delivery (CMM)
FTN16	230	50	400	60	1300	65
FTH16/HS	230	50	400	60	2000	90

GO GREEN

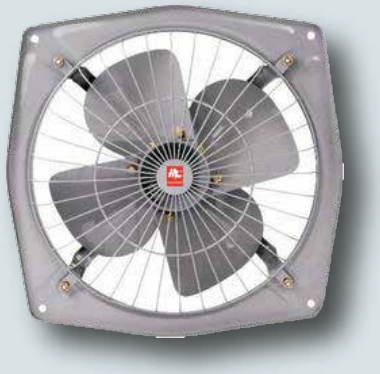
METAL EXHAUST FAN

KAIZEN

Features :

- 3 blades light duty economically designed domestic exhaust fan
- Suitable for continuous running
- Ideal for small living rooms and enclosed work places
- Die cast aluminum body
- Fitted with 2 self-aligned bush bearings for smooth operation and with Bird Guard for safety
- Sweep: 225mm, 300mm
- Classic models are also available in Hub Design blades for economical options

Model	Voltage (V)	Frequency (Hz)	Power Inputs (watts)	Speed (RPM)	Air Delivery (CMH)
KAZ/L/225	230	50	70	2200	900
KAZ/225	230	50	45	1400	600
KAZ/300	230	50	65	1350	1400



KAIZEN / HS

Features :

- A continuous duty, double ball bearing, hub design, domestic fresh air / exhaust fan
- Sweep: 225mm, 300mm
- Bird screen for protection against birds & foreign matter
- Reversible version is available from exhaust to fresh air mode

Model	Voltage (V)	Frequency (Hz)	Power Inputs (watts)	Speed (RPM)	Air Delivery (CMH)
KAZH/HS/225	230	50	70	2200	1200
KAZ/HS/225	230	50	45	1400	720
KAZ/HS/300	230	50	70	1400	1600

VENTILATING FANS

PANJI

Features :

- High speed operation
- Good air flow
- Quiet operation
- Light weight
- CRC Lamination
- Aesthetically superior
- Refreshes your surroundings
- Effectively drives out foul air and induces fresh ventilation
- High quality motor – reliable, quite and trouble free

Model	Voltage (V)	Frequency (Hz)	Power Inputs (watts)	Speed (RPM)	Air Volume (CMH)
10KET	230	50	15	2450	140
15KET	230	50	25	2000	275

PANJI METAL

Features :

- High speed operation
- Good air flow
- Quiet operation
- Light weight
- CRC Lamination
- Aesthetically superior
- Refreshes your surroundings
- Effectively drives out foul air and induces fresh ventilation
- High quality motor – reliable, quite and trouble free

Model	Voltage (V)	Frequency (Hz)	Power Inputs (watts)	Speed (RPM)	Air Volume (CMH)
10KET/M	230	50	15	2450	140
15KET/M	230	50	25	1750	275

VENTILATING FANS

KESHI HS

Features :

- High speed operation
- Good air flow
- Modern design
- Rust proof body
- CRC Lamination
- Inbuilt safery grill
- Full plastic body, lighter, easy to install and clean
- Unique blade design for higher air flow and low noise
- Refreshes your surroundings
- Effectively drives out foul air and induces fresh ventilation
- High quality motor – reliable, quite and trouble free

Model	Voltage (V)	Frequency (Hz)	Power Inputs (watts)	Speed (RPM)	Air Volume (CMH)
15ECO	230	50	25	1750	275

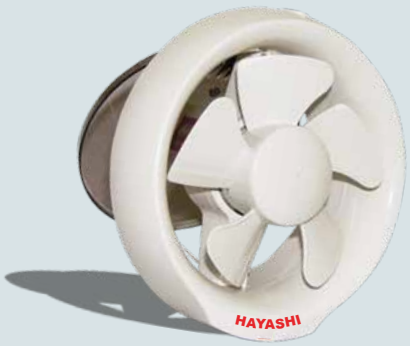
KESHI NL

Features :

- Noiseless
- Sleek design
- Rust proof body
- Auto shutter
- Good air flow
- Full plastic body, lighter, easy to install and clean
- Unique blade design for higher air flow and low noise
- Refreshes your surroundings
- Effectively drives out foul air and induces fresh ventilation
- High quality motor – reliable, quite and trouble free

Model	Voltage (V)	Frequency (Hz)	Power Inputs (watts)	Speed (RPM)	Air Volume (CMH)
20HPES	230	50	30	1300	450

VENTILATING FANS



OPERA RD

Features :

- Full plastic body, lighter, easy to install and clean
- Unique blade design for higher air flow and low noise
- Durable motor with inner fuse protection
- Super silent and smooth running
- Stylish design
- Refreshes your surroundings
- Automatic shutters
- Effectively drives out foul air and induces fresh ventilation
- High quality motor – reliable, quite and trouble free

Model	Voltage (V)	Frequency (Hz)	Sweep (mm)	Power Inputs (watts)	Speed RPM
15HER	230	50	150	12	1800
20HER	230	50	200	20	1400

OPERA BS

Features :

- Full plastic body, lighter, easy to install and clean
- Unique blade design for higher air flow and low noise
- Durable motor with inner fuse protection
- Super silent and smooth running
- Stylish design
- Refreshes your surroundings
- Metal body at the back for durability
- Automatic shutters
- Effectively drives out foul air and induces fresh ventilation
- High quality motor – reliable, quite and trouble free

Model	Voltage (V)	Frequency (Hz)	Sweep (mm)	Power Inputs (watts)	Speed RPM
15HES	230	50	150	25	2150
20HES	230	50	200	30	1250
25HES	230	50	250	37	1340
30HES	230	50	300	45	1200

page - 31

page - 31

page -33

page - 32

page -33

page - 32

HAYASHI®

Insect Killers

www.hayashiglobal.com

GO GREEN

INSECT KILLERS

AMPHY

Features :

- Using the special UV-A tube as attraction to mosquitoes, wich are sucked by a DC fan and killed by high voltage gird
- Average working life of the tube is 8000hrs.
- With powerful DC fan for sucking more insects
- With additional safety switch
- Detachable outer mesh, easy for tube replacement and cleaning
- ABS fire-resistant plastic
- Stylish design, non-toxic and eco-friendly.
- Indoor use covering area of 50mtr. sq

Model	Voltage (V)	Frequency (Hz)	Lamp (watts)	Shock Voltage (V)	Light
HIK04A	220-240	50	4	1000	UVA

SUPER

Features :

- Using the UV-A tube as attraction to mosquitoes, which are sucked by a DC fan and killed by high voltage gird
- Average working life of the tube is 8000hrs
- Powerful DC fan for suction
- With additional safety switch
- Detachable outer mesh for easy cleaning
- ABS fire-resistant plastic
- Indoor use covering area of 50mtr. sq

Model	Voltage (V)	Frequency (Hz)	Lamp (watts)	Shock Voltage (V)	Light
HIK004	220-240	50	4	1000	UVA

GO GREEN

INSECT KILLERS

Super Insect Trap HIK7CN with IPX4 waterproof

S-TRAP

Features :

- Using BLB bulb(7W) with invisible UV-A lighting to attract the flying insects
- Reflective shield around the UV-A bulb increasing the impact of UV glow to attract more insects
- Powerful and long lasting DC suction fan inside
- Detachable compartment for easy cleanliness
- Detachable four legs with the appropriate height to attract more insects
- Unique funnel design to prevent insects from escaping, and increasing the killing rate
- IPX4 waterproof construction;

Model	Voltage (V)	Frequency (Hz)	Lamp (watts)	Shock Voltage (V)	Light
HIK7CN	220-240	50	7	-	BLB

Smart Insect Killer - HIK06N

SMART

Features :

- UV-A light as the best attraction to Insects
- Average working life of the tube is 8000hrs
- Innovative vertical inner grid design to ensure maximum killing efficiency
- Removable bottom collection box for easy cleaning
- ABS fire-resistant plastic
- Conforms to GS standards
- Indoor use covering area of 360degrees

Model	Voltage (V)	Frequency (Hz)	Lamp (watts)	Shock Voltage (V)	Light
HIK06N	220-240	50	6	900	UVA

INSECT KILLERS

KEMP

Features :

- Multifunction: as Insects killer and Emergency light
  5pcs UV-A LED for attracting insects;
  10pcs White LED for emergency lighting;
- Power source: DC5V 500mA adaptor with recharable battery or AA batteries option
- Portable, light weight and easy to carry
- Charging time: 4-5 hours
- Operation time for purple light: approx. 20 hours
- Operation time for white light: approx. 24 hours

Model	Voltage (V)	Frequency (Hz)	Lamp (watts)	Shock Voltage (V)	Light
HIK44B	220-240	50	1.5	900	UVA

ZAPPA

Features :

- 2000V high tension transformer
- Corrosion and scratchproof body
- 2x10/20W UV-A lamps with high luring ability and long life
- On/Off Safety Switch for extra protection
- Environment friendly - No fumes, no smell and less power consumption
- Modern, safe and effective
- Removable collection tray and easy cleaning

Model	Voltage (V)	Frequency (Hz)	Lamp (watts)	Shock Voltage (V)	Light
HIK210	220-240	50	2X10	2000	UVA
HIK220	220-240	50	2X20	2000	UVA

GO GREEN

How safe are mosquito coils, mats, sprays or plug-in repellents for my baby?

It is best not to use coils, mats, sprays or plug-in mosquito repellents around your baby.

Coils mats, sprays and plug-in mosquito repellents contain chemicals which are not safe to be inhaled.

Studies have shown that the smoke and fumes from them aggravate or cause breathing problems. They can also cause eye irritations or allergic reactions.

In large doses, the chemicals can cause serious illnesses. Some research also links the burning of coils to lung cancer.

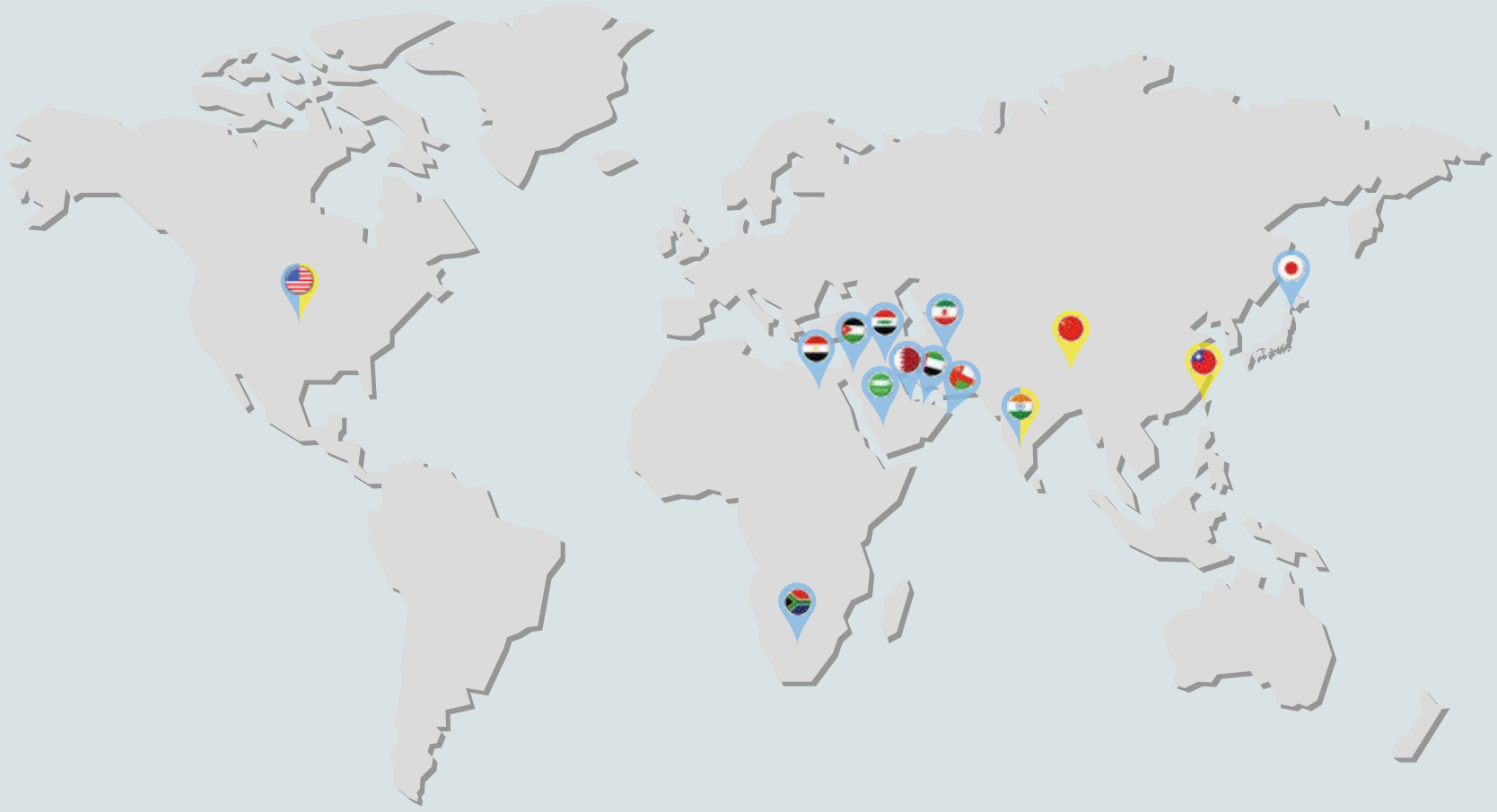
The annual worldwide consumption of the four major types of residential insecticide products are -- aerosols, mosquito coils, liquid vaporizers, and vaporizing mats.

Mosquito coils are burned indoors and outdoors in regions like Asia, Africa, and South America. Mosquito coils consist of an insecticide/repellant, organic fillers capable of burning with smoldering, binder, and additives such as synergists, dyes, and fungicide.

As a result peoples are exposed to a chemically complex mosquito-coil smoke containing small particles (< 1 μm), metal fumes, and vapors that may reach the alveolar region of the lung.

Burning of one mosquito coil would release the same amount of particulate matter (PM) 2.5 mass as burning 75-137 cigarettes; the emission of formaldehyde from burning one coil can be as high as that released from burning 51 cigarettes.

HAYASHI GLOBAL FOOT-PRINT



Operations Office | Manufacturer

Japan | Oman | USA | UAE | Saudi Arabia | Qatar | Jordan | Egypt | Iraq | Iran | South Africa | India | Taiwan | China

Hayashi Corporation

Authorised Channel Partner

Hayashi Electric Co., Ltd.

Honcho, Chuo-ku, Tokyo, Japan.
Tel: +813 62027535
Fax: +813 62027536
Email: sanae.n@hayashiglobal.com

ASE India Pvt. Ltd.

Plot # 579, Sector - 22B
U.E. Gurgaon - 122015, India
Tel # +91-9654125337
Tele Fax # +91-124-4242824
E-mail : info@hayashiglobal.com

Web: www.hayashiglobal.com

South Africa & USA

IPM (Integrated People Management)
1 Gabriel Rd
Plumstead, Cape Town, 7801
E-mail: ivan@hayashiglobal.com

Jordan / Turkey / Lebenon / Syria

Muttrah Housing L.L.C
P.O.BOX : 695, Zone: 11953
Al Rabiya, Zahoum Street
Bldg No. 8 1st floor
Amman, Jordan
E-mail: rozan@hayashiglobal.com

China

Neworb International Co Ltd.
No. 14, Lefeng 5th Road,
Maohui Industrial Zone,
Henglan Town, Zhongshan City,
Guangdong, China
E-mail: leo@hayashiglobal.com

Oman / Kuwait / Bahrain

Al Saleh Enterprises L.L.C
C.B.D near Bank Muscat
P.O. Box 1736, Ruwi,
Postal Code: 112, Sultanate of Oman
E-mail: suleman@hayashiglobal.com

UAE / KSA / Qatar

Nazwah General Trading
Flat # 409, Building : Al Mulla Tower,
Al Nahda, Next to Ansar Mall,
Sharjah, UAE
E-mail: imtiaz@hayashiglobal.com

Litein Trading Company LLC
Silver Tower 1802, 18th Floor
Buisness Bay,
Dubai, UAE
E-mail: adil@hayashiglobal.com