

Mam....yeh answer sheet hamarey poore saal ki mehnat hai, issay pankha mat banaiye
Havells Energy Saving Fans... Saves 40% Energy

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Regional & Branch Offices :

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Representative Offices :
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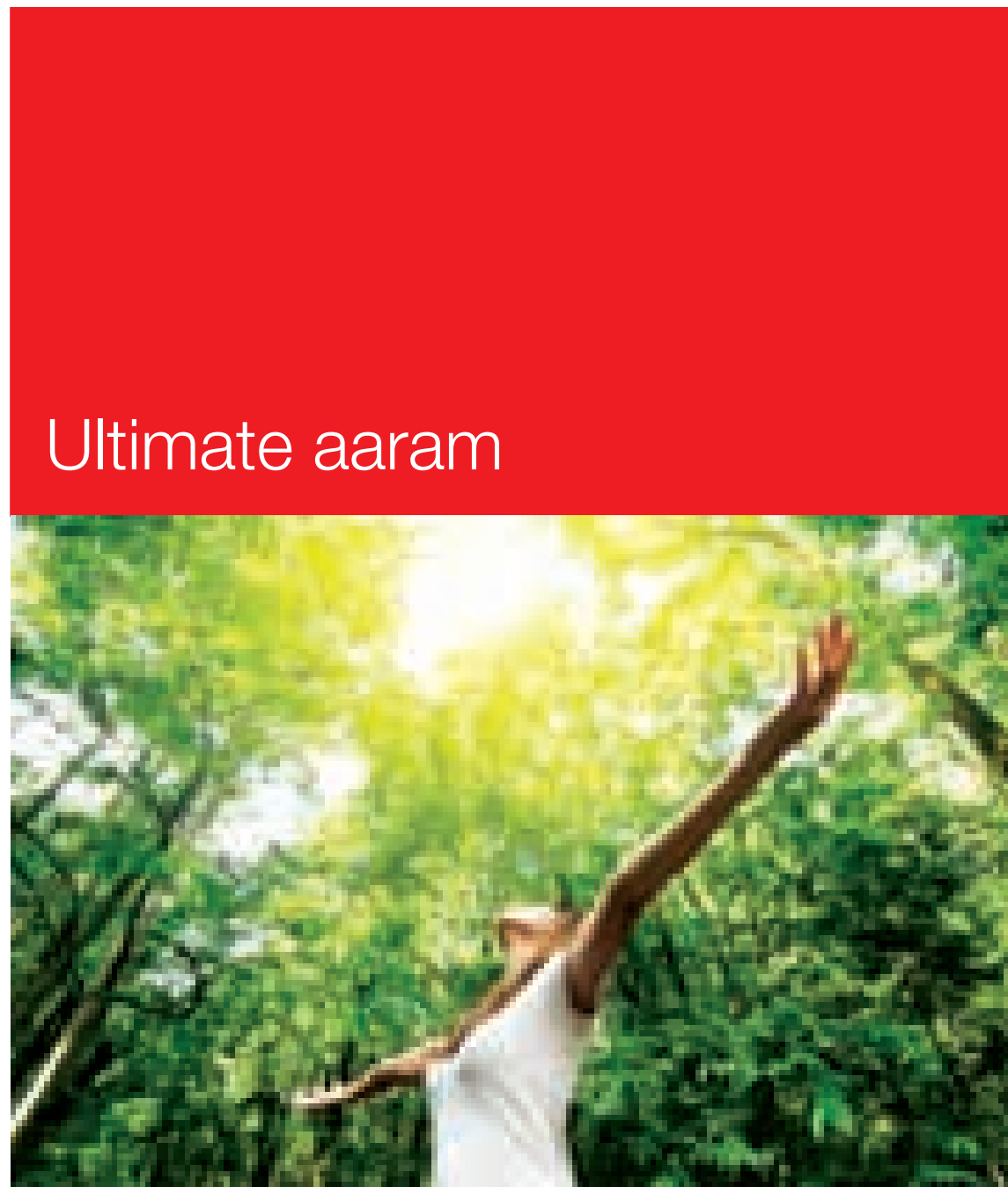
Due to continuous technology upgradation the design, specifications & colour combinations may vary without notice.
The colour shade of the fan shown may differ from the actual fan colour due to printing limitations.
Join us on Facebook at www.facebook.com/havells and share your ways to save the planet!



HAVELLS Fans

Fans Collection 2011

ZFC000001/July'11



Fans Collection 2011



HAVELLS



•All the performance figures mentioned inside are based on rated voltage of 230 V, 1PH, 50HZ AC, except for energy saving segment where the performances declared are on the basis of 220V, 1PH, 50 HZ AC and fully conforms to requirement of IS374-1979 (with amendments up to date)

HAVELLS



Welcome to the world of Havells India Limited, the largest and India's fastest growing electrical and power distribution equipment manufacturer with a strong global footprint.

With a total turnover exceeding billion-plus dollars, Havells enjoy enviable market dominance across a wide spectrum of products and services, including Industrial & Domestic Circuit Protection Switchgear, Cables & Wires, Motors, Fans, Power Capacitors, CFL Lamps, Luminaires for Domestic, Commercial & Industrial applications, Modular Switches covering the entire gamut of household, commercial and industrial electrical needs.

Introduction

Havells Fans

Havells entered the Fan business in mid-2003 and soon, with its constant quest for innovation and customer satisfaction, became an enviable competitor and a player, revered for capturing strong market through its wide range of pioneering designs.

From premium fans in exquisite antique finishes to fans specially designed for kids to dual colour fans and super speed fans, Havells today offers a complete range to meet varied individual needs. Further, it won industry accolades on launch of Havells ES – 50, which was indigenously designed by Havells R&D team and was India's first energy efficient fan, consuming only 50W of electricity. Today, this model is amongst the largest selling energy saving fans in the country.

Havells today can claim for installing India's most modern and integrated manufacturing plant for fans in the country. Located at industrial area of Hardwar, Uttarakhand – the plant has an annual manufacturing capacity of more than 5 million fans and is equipped with state-of-the-art technology including automated CNC machines for motor winding, CNC machines for end covers machining, state of the art conveyerised painting plant with electrostatic painting systems & conveyerised assembly lines complete with computerised testing facilities.

The brand has just further augmented its manufacturing capacity by adding a second unit to the plant – which is further equipped with automated processes – matching with the best in the world. Some of the highlights include:

1. The plant has the most modern & best internationally available CNC machine for stator winding backed up by hi-tech microprocessor based testing equipments with stator impregnation through integrated conveyerised system ensures zero defect product.
2. Further it is equipped with Hi-precision CNC machines for machining of rotors & end covers. The end covers & blades are painted in the ultra modern paint shop with state of the art technology in eco friendly environment to generate the consistent superb quality & gloss in flawless condition.
3. It also has the most advanced fully automatic system, no where else available in fan industry in India, for testing electrical parameters as well as air delivery of fans in a sound proof room, devoid of human judgement, to ensure right quality for zero defect.
4. The entire manufacturing process is conveyerised to ensure minimal handling & human intervention

Backed with the power of these manufacturing units, which are spread across 11 acres of space and can together manufacture around 4 lac fans per month – Havells is striving to further strengthen its position in this industry, not only in domestic markets but also wowing customers worldwide by delivering products and innovations which are better, safer and smarter to match the new lifestyles.

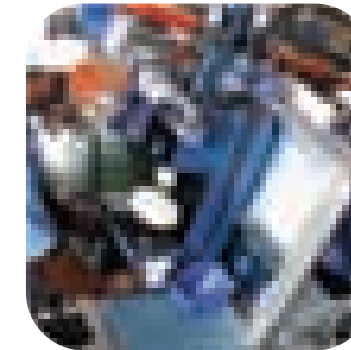
So come, and let the wide range of Havells Fans style a new-generation home for you and complement your luxurious lifestyle.

HAVELLS



Paint Shop

- Fully integrated State-of-art pre-treatment system & paint system
- PLC controlled time cycle for transporter movement during pre-treatment process in each tank
- Nano technology solutions used for pre-treatment. Environmental, pollution free chemicals used in system
- PLC controlled paint system monitoring, reciprocator movement, bell applicator for paint, conveyor speed etc.
- LPG operated ovens for baking ensures high heat transfer efficiency, pollution free environment



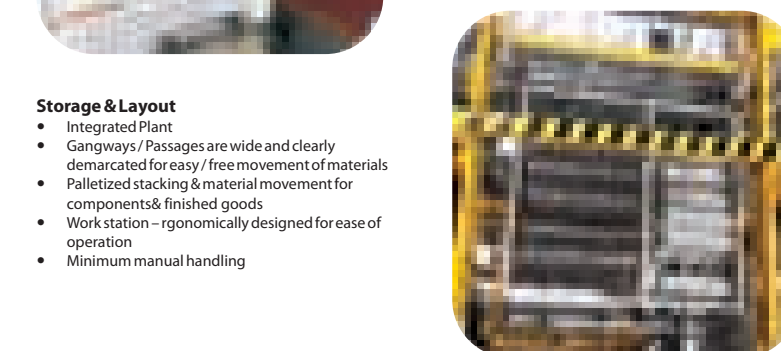
Assembly

- Conveyerised motor & blade assembly lines, ensure single piece flow, consistently high productivity
- Assembly process equipped for manufacturing 2.0 lac fans per month
- Each stage of assembly is equipped with latest technology machines & mechanism
- Automation in online packing with latest technology machines for accuracy & productivity



Storage & Layout

- Integrated Plant
- Gangways / Passages are wide and clearly demarcated for easy / free movement of materials
- Palletized stacking & material movement for components & finished goods
- Work station – ergonomically designed for ease of operation
- Minimum manual handling



Stator Shop

- State-of-the art winding process using CNC programmed winding machines
- Compact & layered coils
- Hi tech microprocessor based testing equipments ensure long life of motor winding
- Integrated conveyerised system for pre-heating, varnishing & baking of stator. LPG oven ensure uniform baking and pollution free environment
- Excellent quality "Six Sigma"

Testing & Quality control

- Latest technology testing equipments & systems used in process quality assurance
- Modern testing facilities for 100% motor & blade verification before packing
- Internal product audit system at each stage of manufacturing to enhance customer delight
- Fully integrated automation system air delivery measurement for ceiling fans
- Most modern CNC controlled testing panel to ensure quality and performance of each fan for all required parameters in an acoustic controlled environment
- Incoming, Inprocess & finished product quality assurance done by a team of qualified & dedicated professionals



Selection Guide–Ceiling Fans

Recommended sweep for different room sizes:

| Room size | Fan sweep |
|--|--------------|
| For small shops, cabins & low ceiling | 600 mm(24") |
| 2.4 mtr x 2.7 mtr to 2.4 mtr x 2.4 mtr (8' x 10') to (8'x8') upto 6.5 sq. mtr | 900 mm(36") |
| 2.7 mtr x 3.3 mtr to 3 mtr x 3 mtr (9' x 11') to (10'x10') upto 9 sq. mtr | 1050 mm(42") |
| 3.3 mtr x 4 mtr to 3.7 mtr x 3.7 mtr (10' x 13') to (12'x12') upto 14 sq. mtr | 1200 mm(48") |
| 4 mtr x 5 mtr to 4.5 mtr x 4.5 mtr (13' x 16') to (15'x15') upto 20 sq. mtr | 1400 mm(56") |

To optimize the air delivery, ceiling fan should be approximately 10 feet from the ground level and 1 feet below the ceiling.
For larger room with more than one fan, the centre distance between each fan would vary with the sweep/size of the fan as below:

| Sweep of fan | 1400 mm | 1200 mm | 1050 mm | 900 mm |
|-----------------|---------|---------|---------|--------|
| Centre distance | 3 m | 2.5 m | 2 m | 1.8 m |



Ceiling Fans





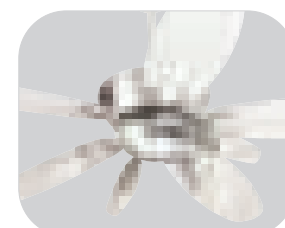
Premium Underlight Fans



Chrome Finish

AUREUS
UNDERLIGHT FAN

- Remote control for on/off, speed & light
- Five blades made of high quality wood
- Powerful motor with silent operation
- Sweep 1320 mm



With reversible blades

HAVELLS

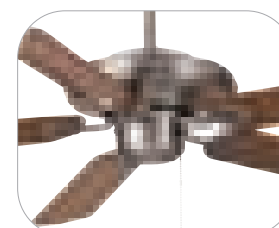
Premium Underlight Fans



Brushed Nickel

cedar

- Electroplated motor cover, blade bracket, downrod & canopy
- Five blades made of high quality wood
- Light On/Off & inbuilt regulator speed control by pull chains
- Powerful motor with silent operation
- Available with & without light kit
- Sweep 1320 mm



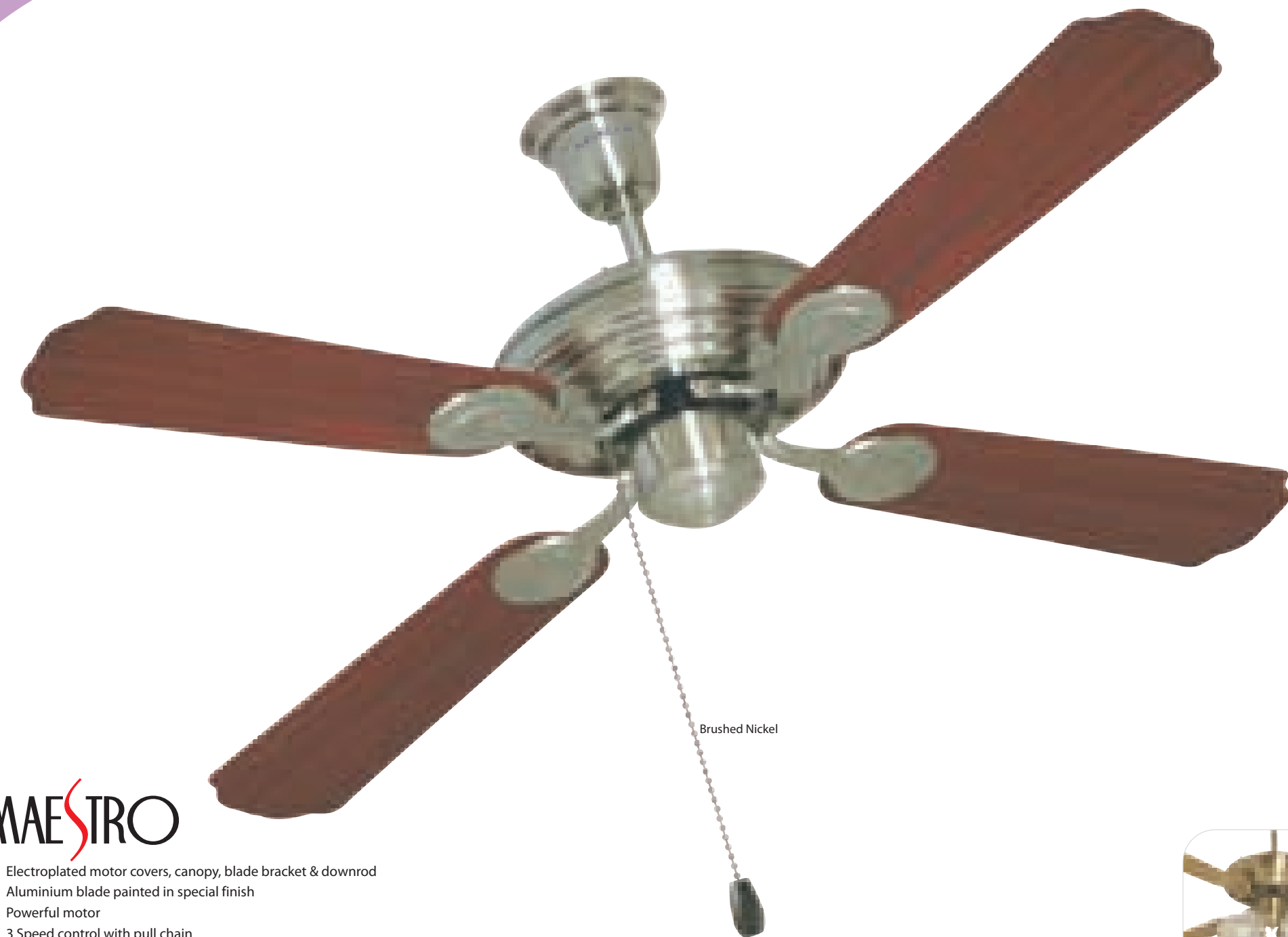
Antique Brass



Brushed Nickel

HAVELLS

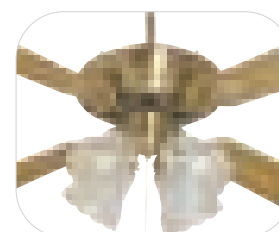
Premium Underlight Fans



Brushed Nickel

MAESTRO

- Electroplated motor covers, canopy, blade bracket & downrod
- Aluminium blade painted in special finish
- Powerful motor
- 3 Speed control with pull chain
- Optional light kit assembly
- Super silent operation
- Sweep 1320 mm



Antique Brass

HAVELLS

Special Finish Fans



Two Tone
Satin Gold

Flōrence

- Finish suiting modern interiors of house wood furniture
- 4 blade special finish with provision for underlight kit
- Decorative die cast shank
- Motor body, down rod, canopy & shank in plated finish
- Available in two plating finishes – Satin Gold & Brushed Nickel
- Improved performance even at low voltage
- Sweep 1320 mm



Brushed Nickel

HAVELLS

5

Special Finish Fans



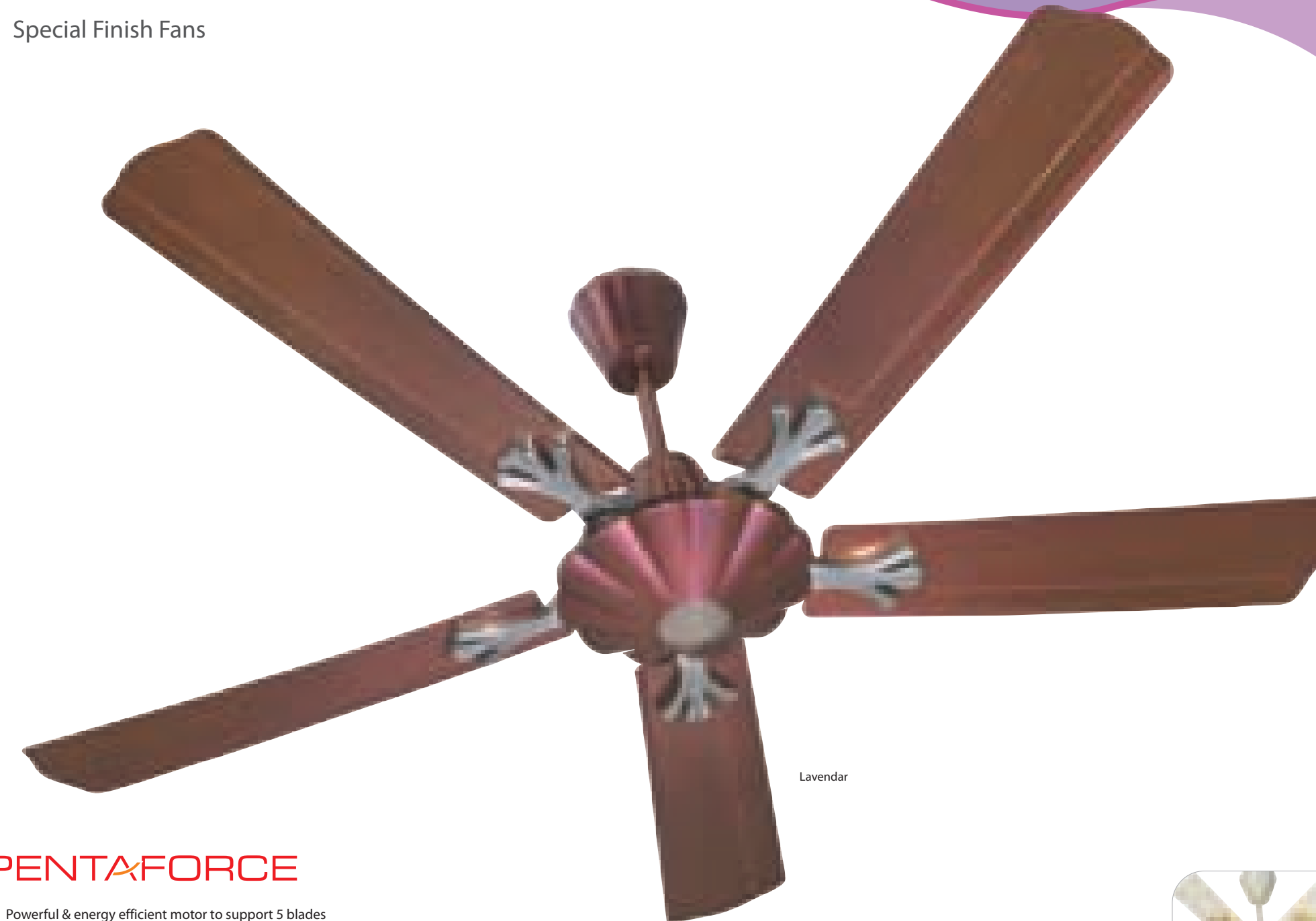
Transparent Finish

ZEUS

- Finish suiting modern interiors of house wood furniture
- 4 blade special finish
- Decorative die cast shank
- Down rod
- Improved performance even at low voltage
- Transparent motor cover
- Sweep 1200 mm

HAVELLS

Special Finish Fans



Lavendar

PENTAFORCE

- Powerful & energy efficient motor to support 5 blades
- Optimum performance even at low voltage
- Unique 3 dimensional paint finish with rainbow effect
- Die cast plated shank with decoration
- Sweep 1320 mm



Rainbow Pearl Ivory

6

HAVELLS

Special Finish Fans

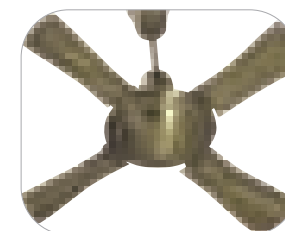
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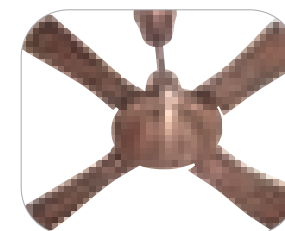
Brushed Nickel

Yorker

- Electro-phoretic lacquered surface for anti rusting
- Four blades for wider air delivery
- Double ball bearing super silent motor
- Perfectly streamlined body
- Sweep 1320 mm



Antique Brass



Antique Copper

HAVELLS

Special Finish Fans

8



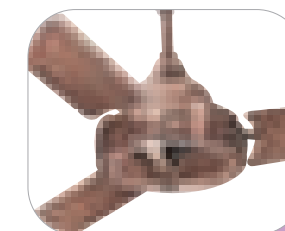
Brushed Nickel

Fabio
Platinum

- Special plated finish
- Powerful motor
- Wider blades for effective air circulation
- Decorative ring on motor cover
- Optimum performance even at low voltage
- Double ball bearings
- Sweep 1200 mm



Antique Brass



Antique Copper

HAVELLS

Special Finish Fans



9

Orion

- Electro-phoretic lacquered surface for anti rusting
- High speed fan
- Wider tip blade for effective air circulation
- Optimum performance even at low voltage
- Sweep 1200 mm



Antique Brass



Antique Copper

HAVELLS

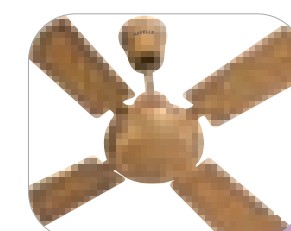
Special Finish Fans



Rosewood

woodster

- Special wood texture
- Powerful motor
- Wider tip blades for effective air circulation
- Decorative ring on motor cover
- Optimum performance even at low voltage
- Double ball bearings
- Sweep 1200 mm



Oakwood

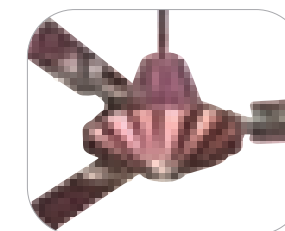
10

HAVELLS



Flamingo trio

- Powerful & energy efficient motor
- Stylish ribbed blade design
- Longer downrod for optimum installation
- Perfectly streamlined body
- Sweep 1320 mm

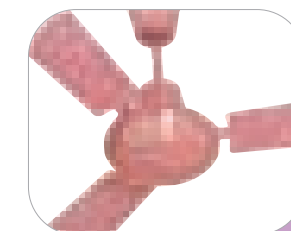


Lavendar

HAVELLS



- Designed to suit kids room
- Wider tip blades for effective air circulation
- Decorative ring to add aesthetics
- Optimum performance even at low voltage
- Sweep 1200 mm



Baby Pink

HAVELLS

Energy Saving Fans

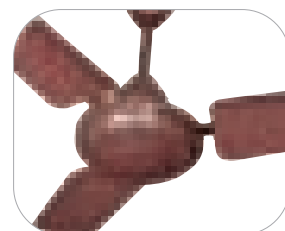


Ivory

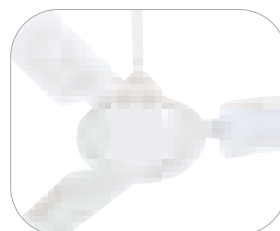
ES-5★
ENERGY SAVING FAN

ES-5★ Advantage

| Parameters | ES-5 Fans | ★ Ordinary |
|---|-----------|------------|
| Rated Wattage | 50W* | 75W* |
| Power Consumption @ 16 hrs/day | 800W | 1200W |
| Total unit of electricity/month | 24 units | 36 units |
| Cost of Electricity/ Month @ Rs. 5/- unit** | ₹ 120.00 | ₹ 180.00 |



Brown



White

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) | Service Value CMM/W |
|------------|---------------------|-------------|--------------------|---------------------|
| 1200 | 50 | 350 | 225 | 4.20 |

* Actual saving depends on fan usage & cost of electricity
* Data pertains to 1200 mm sweep. Wattage may vary \pm 5 %
** May vary from state to state

HAVELLS

Special Finish Fans



Beige Brown

FUSION-5★
Energy Saving Fan

ES-5★ Advantage

| Parameters | ES-5 Fans | ★ Ordinary |
|---|-----------|------------|
| Rated Wattage | 50 W* | 75W* |
| Power Consumption @ 16 hrs/day | 800W | 1200W |
| Total unit of electricity/month | 24 units | 36 units |
| Cost of Electricity/ Month @ Rs. 5/- unit** | ₹ 120.00 | ₹ 180.00 |



Pearl Ivory

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) | Service Value CMM/W |
|------------|---------------------|-------------|--------------------|---------------------|
| 1200 | 50 | 350 | 225 | 4.20 |

* Actual saving depends on fan usage & cost of electricity
* Data pertains to 1200 mm sweep. Wattage may vary \pm 5 %
** May vary from state to state

HAVELLS



- Integrated canopy with unique design
- Decorative trims on motor, blade & canopy
- Excellent & long lasting metallic paint finish
- Optimum performance even at low voltage
- Double ball bearings
- Wider tip blades for effective air circulation

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 1200 | 70 | 350 | 230 |



Metallic Gold



Sparkle Brown



Pearl White



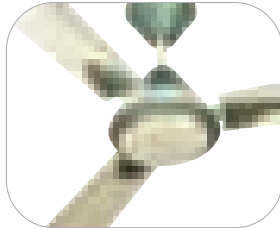
Pearl Ivory



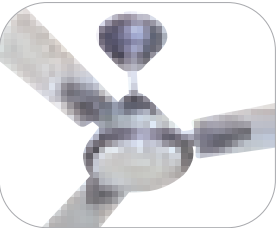
- Unique conical shape design –motor body and canopy
- Wider blade for higher air delivery
- Decorative ring and canopy with special matte paint finish
- Double ball bearings
- Improved performance at low voltage
- Pressure die casted aluminium covers & aluminium blades
- 900 & 1400 mm available in selected colours
- 1200 mm available in 4 colours



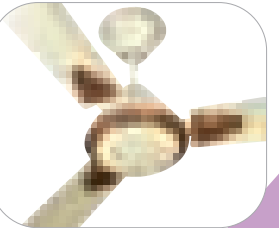
Matt Beige Brown



Matt Ivory Jade



Matt Silver Blue



Matt Ivory Brown

FUSION

- Metallic paint finish
- Decorative trims on motor cover, canopy & blades
- Optimum performance even at low voltage
- Double ball bearings

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 600 | 62 | 880 | 120 |
| 900 | 60 | 420 | 170 |
| 1050 | 62 | 400 | 190 |
| 1200 | 70 | 350 | 230 |
| 1400 | 75 | 300 | 280 |



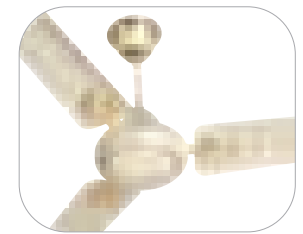
Sparkle Brown



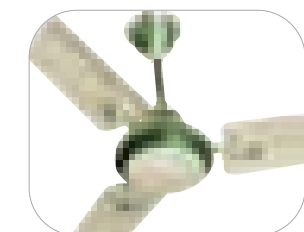
Silver Blue
600, 900, 1050,
1200 & 1400 mm sweeps



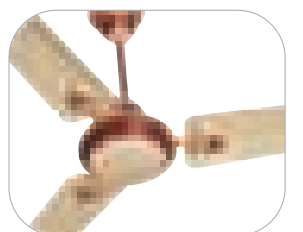
Pearl White
600, 900, 1050,
1200 & 1400 mm sweeps
Also available in golden trims



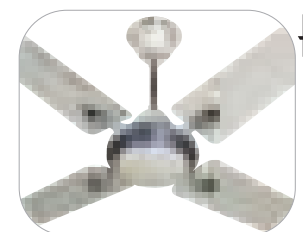
Pearl Ivory
600, 900, 1050,
1200 & 1400 mm sweeps



Oasis Green
1200 mm sweep



Wine Red
1200 mm sweep



Silver Blue
1200 mm sweep
Also available in Beige Brown & Pearl Ivory

FUSION
4 Blade

HAVELLS



Violet Grey

MAXVEL Voila

- Double ball bearings
- Excellent & long lasting paint finish
- Optimum performance even at low voltage

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 1200 | 68 | 350 | 230 |

HAVELLS



Ocean Blue

Festiva
Metallic

- Unique blade design
- Motor with decorative ring
- Optimum performance even at low voltage
- Decorative trims on blades & canopy
- Double ball bearings

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 1200 | 70 | 350 | 230 |
| 1400 | 75 | 300 | 280 |

Also available in 900 & 1050 mm



Pearl White



Pearl Copper



Pearl Ivory

HAVELLS

Decorative Fans



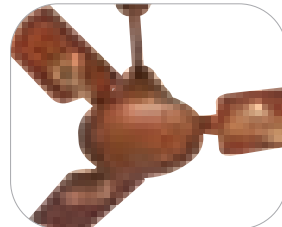
Pearl Ivory

Fiesta

- Excellent and long lasting paint finish
- New design trim & decorative canopy set
- High efficiency motor with double ball bearings
- Optimum performance even at low voltage
- Pressure die casted aluminium covers & aluminium blades

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 1200 | 68 | 350 | 225 |

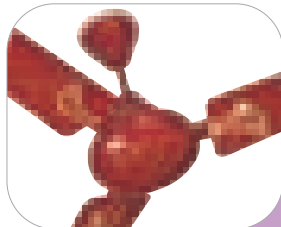
Also available in 900, 1050 & 1400mm



Sparkle Brown



Pearl Copper



Wine Red

HAVELLS

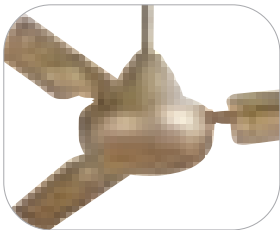


Pearl Brown

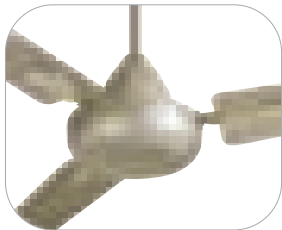
MAXVEL
DECO

- Optimum performance even at low voltage
- Decorative trims on blades & canopy
- Wider tip blades for effective air circulation
- Double ball bearings

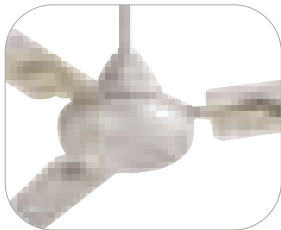
| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 1200 | 68 | 350 | 225 |



Pearl Beige



Oasis Green



Oyster White

HAVELLS



Sparkle Brown

SS 390
DECO

- Optimum performance even at low voltage
- Decorative trims on blades & canopy
- Wider tip blades for effective air circulation
- Double ball bearings
- High speed fan
- Also available in Careena Copper & Black

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 1200 | 72 | 400 | 235 |

Also available in 1050 & 1400mm



Pearl Ivory

HAVELLS

Decorative Fans

23



Sparkle Brown

SS390 METALLIC

- Three coat metallic paint system to enrich the gloss
- High speed fan
- Wider tip blades for effective air circulation
- Optimum performance even at low voltage
- Also available in Pearl White

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 1200 | 72 | 400 | 235 |

Also available in 900 & 1050 mm

HI-SPEED
HAVELLS
FANS



Pearl Ivory

HAVELLS

Decorative Fans

24



Bianco

SS390

- High speed fan
- Wider tip blades for effective air circulation
- Excellent & long lasting paint finish
- Optimum performance even at low voltage
- Double ball bearings
- Also available in Brown colour

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 900 | 60 | 420 | 170 |
| 1050 | 62 | 400 | 190 |
| 1200 | 72 | 400 | 235 |
| 1400 | 80 | 330 | 290 |

HI-SPEED
HAVELLS
FANS



White



Brown

HAVELLS

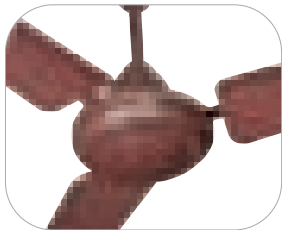


Ivory

velocity

- Optimum performance even at low voltage
- Double ball bearings
- Excellent & long lasting paint finish

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 600 | 62 | 880 | 120 |
| 900 | 60 | 420 | 170 |
| 1050 | 62 | 400 | 190 |
| 1200 | 68 | 350 | 230 |
| 1400 | 72 | 300 | 280 |



Brown



White

HAVELLS



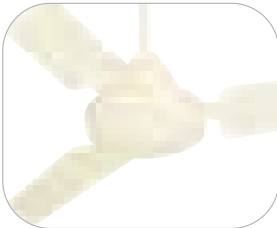
Brown

PACER

- High speed fan
- Double ball bearings
- Excellent & long lasting paint finish

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 1200 | 72 | 400 | 235 |

Also available in 900, 1050 & 1400 mm



Ivory



White



HAVELLS

Decorative Fans

27



White



- Optimum performance even at low voltage
- Double ball bearings
- Excellent & long lasting paint finish

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 1200 | 68 | 350 | 225 |

Also available in 900, 1050 & 1400 mm



Ivory



Brown

HAVELLS

Decorative Fans

28



Ivory



- New design trim & decorative canopy set
- High efficiency motor with double ball bearings
- Pressure die casted aluminium covers & aluminium blades
- Sweep 1200 mm

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 1200 | 68 | 350 | 225 |



White

HAVELLS



SPEEDSTER

- Brown
- 600 & 750 mm sweeps
- Also available in White & Ivory



FUSION

- Silver Blue
- 600 mm sweep
- Also available in Beige Brown, Pearl Ivory & Pearl White Silver



velocity

- Brown
- 600 & 750 mm sweeps
- Also available in White & Ivory



SS390

- Brown
- 600 & 750 mm sweeps
- Also available in White & Ivory



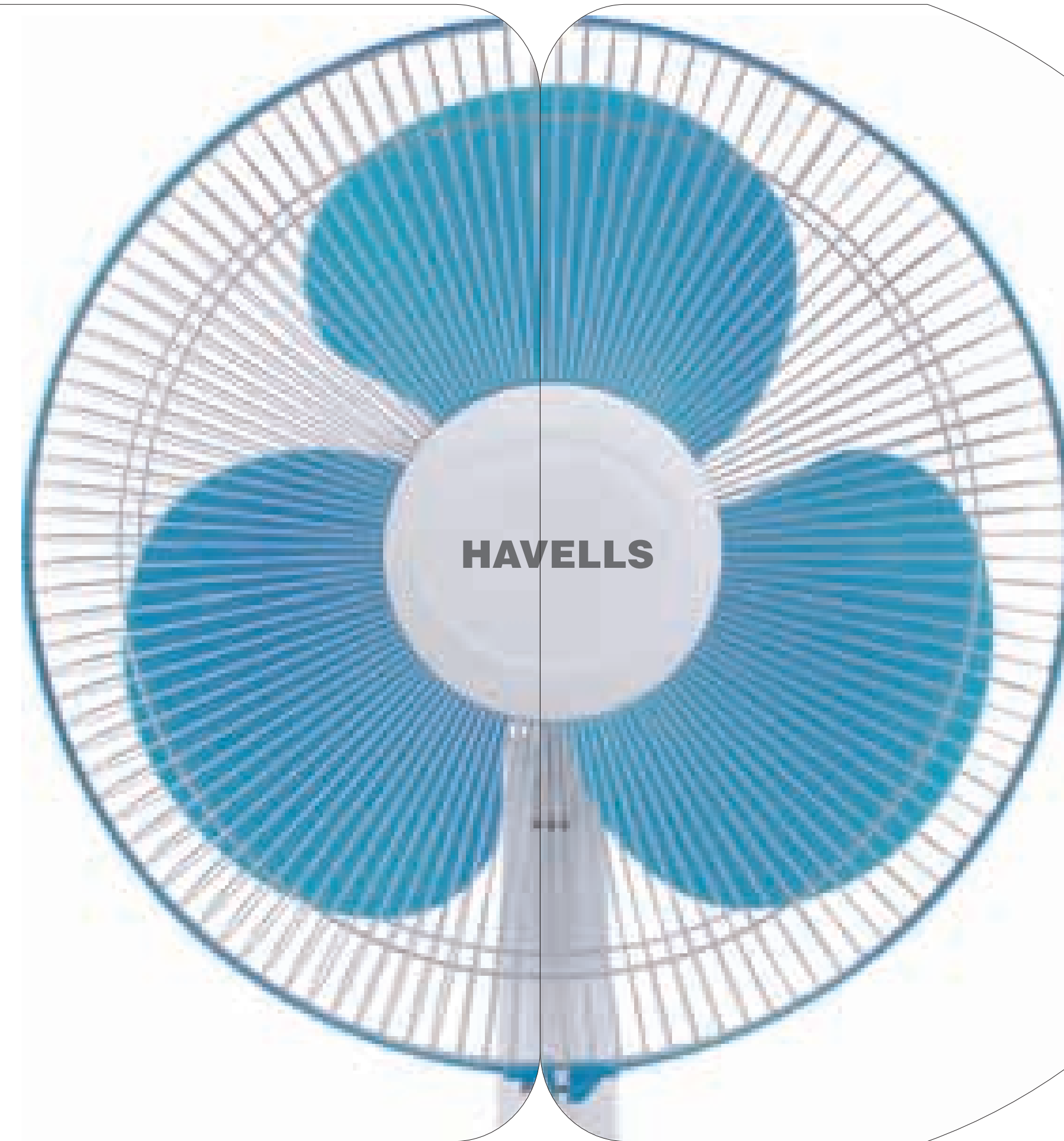
Resistance Type

Fan Regulator

- Available against specific indent
- Sleek/stylish look
- 5 speed & 1 off rotary control



Table Fans



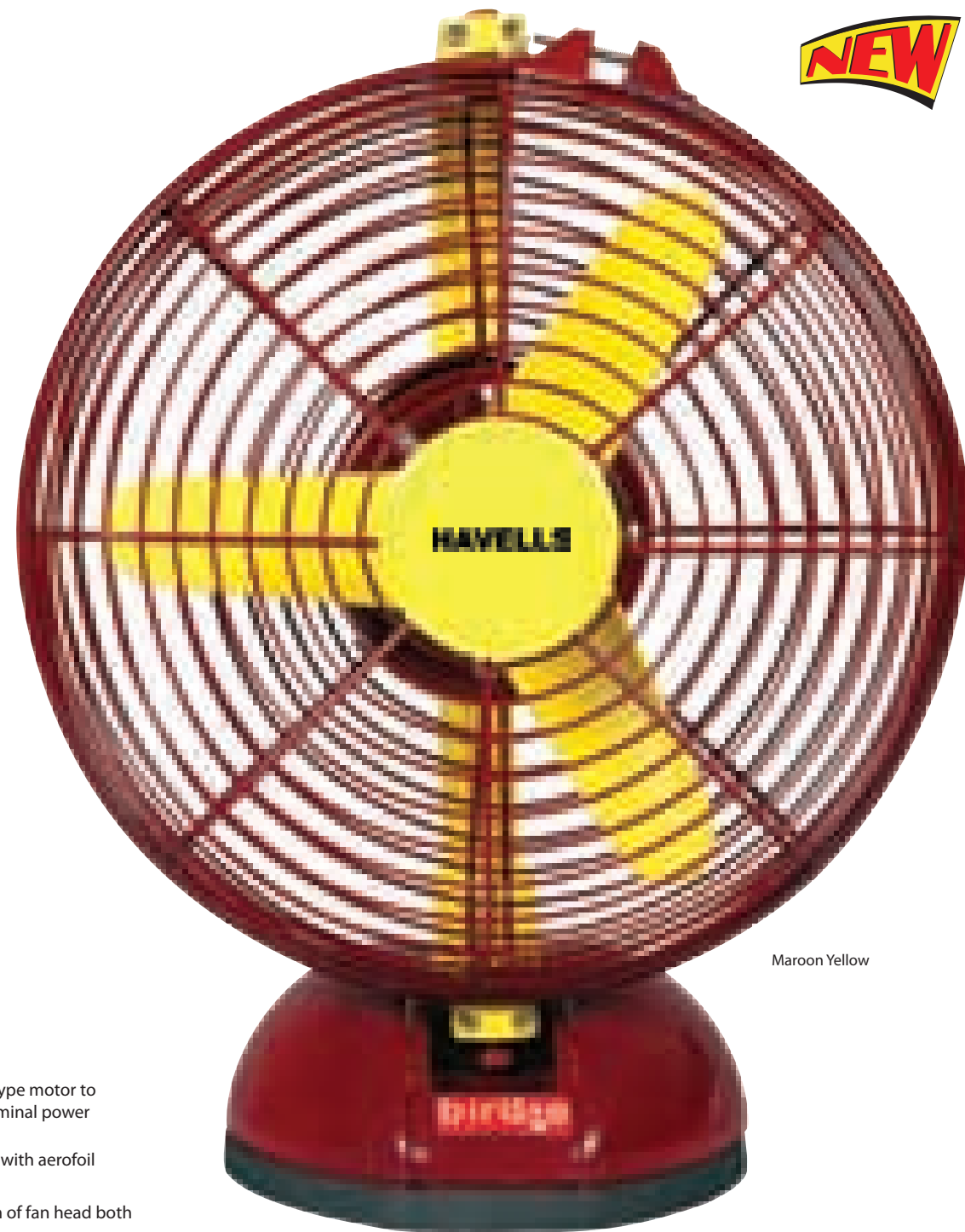


31

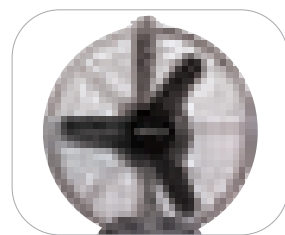
birdie

- Powerful energy efficient 2 pole Capacitor type motor to deliver strong air blast at 2800 rpm with nominal power consumption
- Aerodynamically designed 3 leaf ABS blade with aerofoil section for maximum air efficiency
- Unique Rocker design to allow 360° rotation of fan head both in horizontal & vertical plane
- Elegant spiral mesh guard with guard ring adorned with show cap gives a touch of grace
- Multiuse fan suitable for use as desk, wall or cabin / deck mounted application

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 230 | 55 | 2800 | 38 |



Maroon Yellow



Black Grey

Personal Fans

HAVELLS

Personal Fans

CresCent Personal Fan

- Jerk free revolving grill for wider spread of air
- Dual purpose use viz table / wall mounting
- 3 Speed operation & 2 hrs. timer
- Full 180° fan head movement
- Automatic power cut against accidental fall
- Sun moon shape for attractive look

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 250 | 38 | 1350 | 30 |

HAVELLS



32

velocity^{NEO}
Table Fan

- High performance motor for better air delivery
- Jerk free oscillation & smooth running
- Superior low voltage performance

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 400 | 55 | 1350 | 72 |



HAVELLS

Swing Lx

- Jerk free oscillation
- 120 ribs guard
- Pivot arrangement for tilting & oscillation
- Aerodynamically designed & balanced PP blades
- Available in 3 attractive colour combinations

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 400 | 55 | 1350 | 72 |



HAVELLS

Swing ZX
Table Fan

- Jerk free revolving grill for wider spread of air
- Available in three attractive colour combination
- Taller to give enhanced aesthetic appeal
- Available in 3 attractive colour combinations

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|---------------|------------------------|----------------|-----------------------|
| 400 | 55 | 1350 | 72 |



HAVELLS

Swing HS
Table Fan

- High performance motor with overheat protection
- Jerk free oscillation
- Aerodynamically designed heavy duty pp blades
- Pivot arrangement for tilting & oscillation
- World class styling & finish

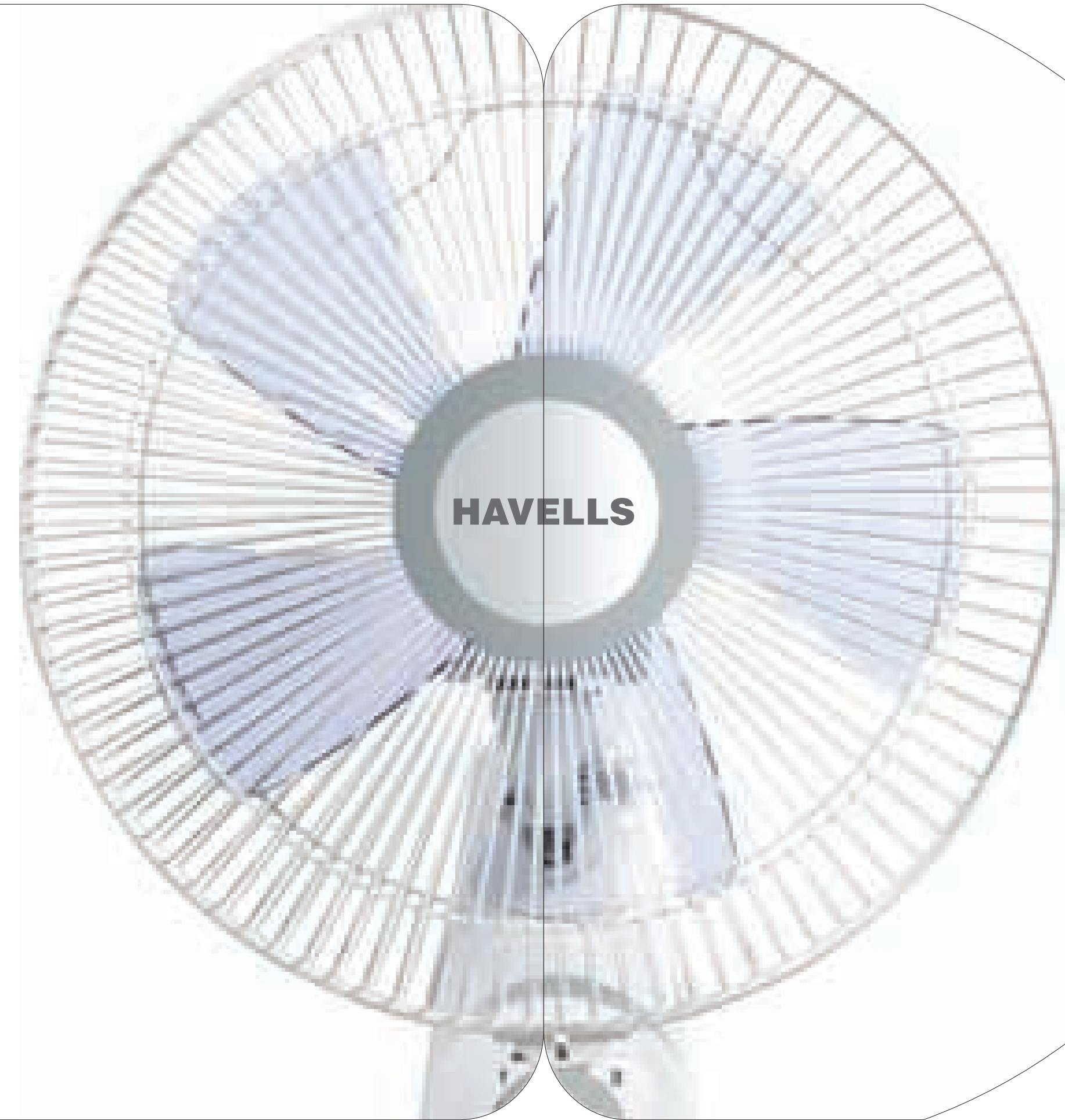
| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|---------------|------------------------|----------------|-----------------------|
| 400 | 110 | 2100 | 90 |



HAVELLS



Wall Fans





37

Swing

- Elegantly designed fan base
- 120 ribs guard
- Pull cord control for speed & oscillation On-Off
- Aerodynamically designed & balanced blades

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 300 | 45 | 1330 | 45 |



Wall Mounting Fans

HAVELLS

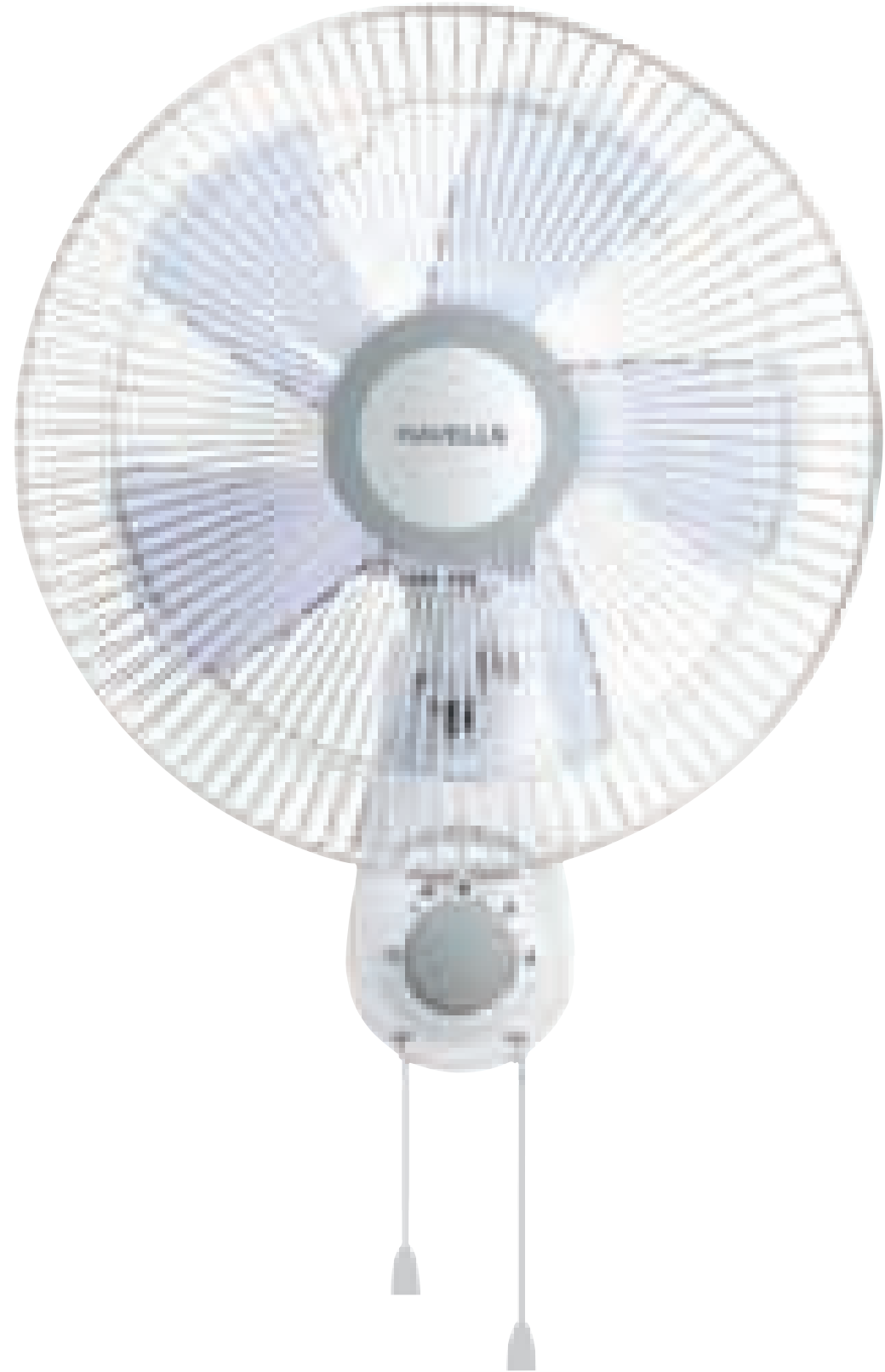
Wall Mounting Fans

Swing PENTA

Wall Fan

- 5 Leaf Transparent AS blade
- Elegant Styling & attractive look
- Pull cord control for speed & oscillation

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 300 | 50 | 1350 | 50 |



38

HAVELLS

NEW



Swing Sport
Wall Fan

- High performance motor for better air delivery
- Jerk free oscillation & smooth running
- Aerodynamically designed & balanced blades
- Super low voltage performance

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 400 | 55 | 1350 | 72 |

HAVELLS



Swing Platina

- High performance motor for better air delivery
- Jerk free oscillation & smooth running
- Aerodynamically designed balanced
- Superior low voltage performance

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 400 | 55 | 1350 | 72 |

HAVELLS



41

Swing

- Elegantly designed fan base
- 120 ribs guard
- Pull cord control for speed & oscillation
- Aerodynamically designed balanced blades

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 400 | 55 | 1350 | 72 |

HAVELLS



42

Swing
Premia

- High quality ABS base
- 120 ribs guard
- Pull cord control for speed & oscillation

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 400 | 55 | 1350 | 72 |

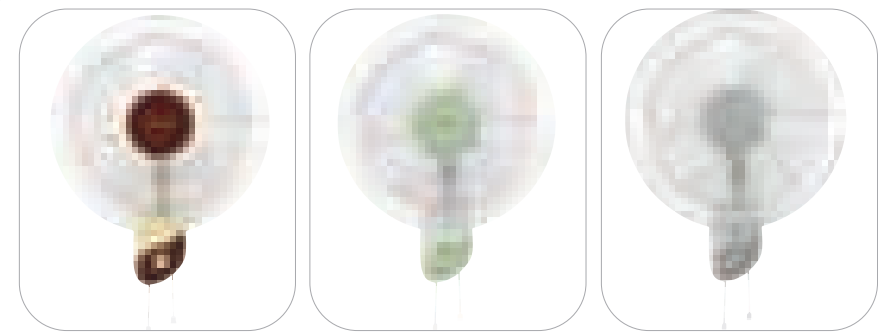
HAVELLS



DiVA 2010
Wall Fan

- Stylish contemporary look
- Pull cord control for speed & oscillation
- Superior air delivery & air blast

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 400 | 55 | 1350 | 72 |



HAVELLS



Swing Royale
Wall Fan

- Pull cord control for speed & oscillation
- Superior air delivery & air blast
- AS transparent 3 leaf blade

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 400 | 55 | 1350 | 72 |

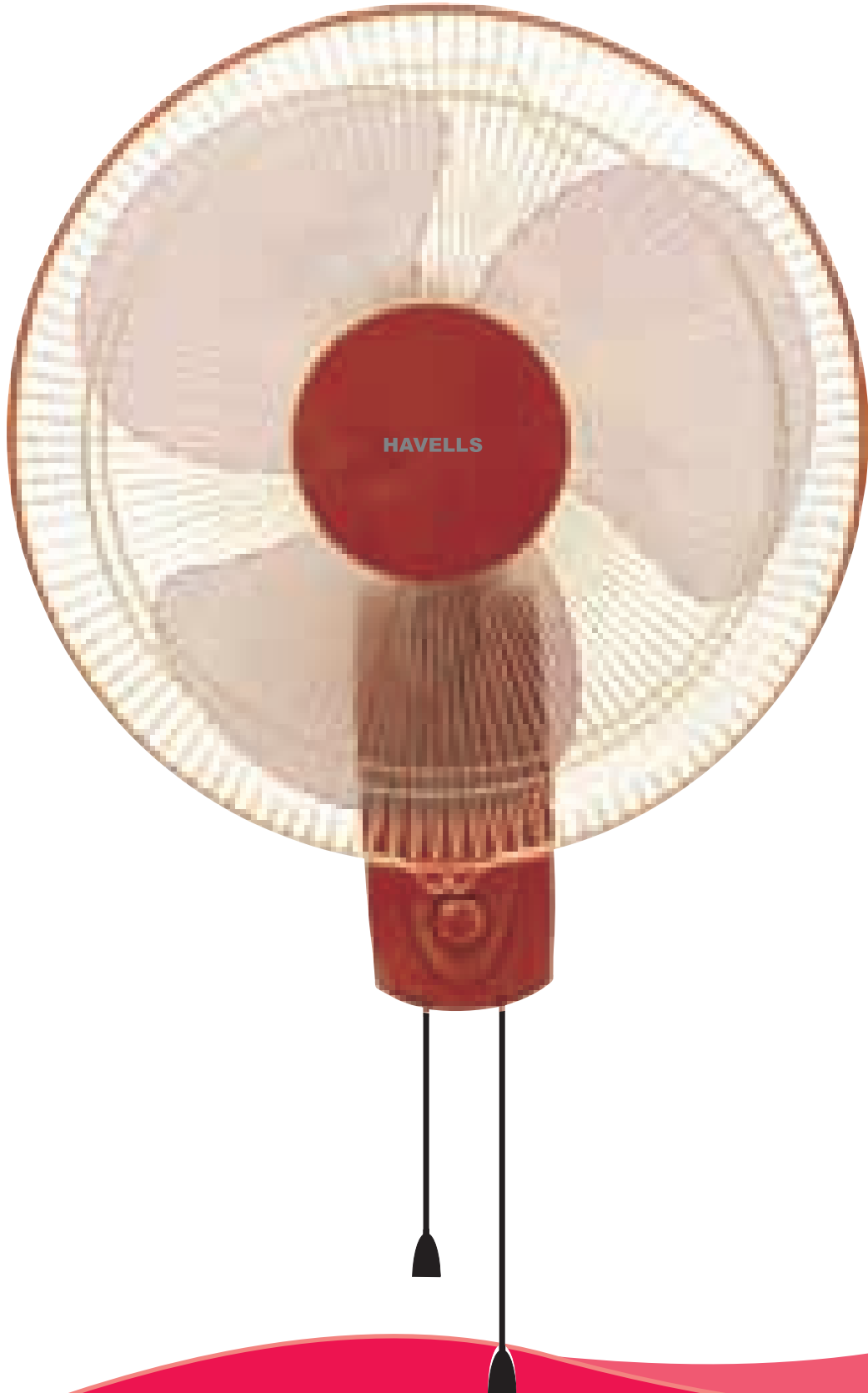
HAVELLS



Swing
Remote

- Jerk free oscillation fitted with synchronous motor
- Fan with built-in I.R. remote control
- High performance motor with overheat protection
- World class styling & finish
- Facility to control wind & nature mode
- Aerodynamically designed balanced AS blades

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 400 | 55 | 1350 | 72 |



Swing
Premia GOLD

- High quality ABS base with wood finish
- 120 ribs golden plated guard
- Pull cord control for speed & oscillation On-Off
- Aerodynamically designed & balanced AS blades

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 400 | 55 | 1350 | 72 |

Wall Mounting Fans



- Close mesh guard with 120 spokes
- Sturdy & heavy duty blades for higher air delivery & superior air blast
- Attractive black chrome colour combination
- Pull chain arrangement for speed control
- 85° oscillation & provision for tilting up & down

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 450 | 100 | 1400 | 110 |

Ceiling Mounted Fans



- (360°) gyroscopic movement/adjustable wind direction
- Grill for protection
- 3 Speed control by regulator
- Ideal for mounting on low height ceiling
- Aerodynamically designed balanced ABS blades

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 400 | 58 | 1330 | 72 |



Pedestal Fans





49

Rio-Remote Pedestal Fan

- Infra-red remote control
- Fan head adjustable up & down
- 8 hour timer setting
- Available in attractive colour combination
- Vitreous printed chasis-two colour decorative console

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|---------------|------------------------|----------------|-----------------------|
| 400 | 55 | 1350 | 72 |



Pedestal Fans

HAVELLS

Pedestal Fans

Swing Remote

- Elegantly designed switch box
- Control of power On-Off, speed modes, oscillation & timer functions through remote also
- Aerodynamically designed balanced 3 leaf blade

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|---------------|------------------------|----------------|-----------------------|
| 400 | 55 | 1350 | 72 |

HAVELLS



50

Trendy
Pedestal Fan

- Innovative semi rotary fan speed control
- Available in attractive colour combination
- Elegant styling

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 400 | 55 | 1350 | 72 |



With
TIMER

Pedestal Fans

HAVELLS

Pedestal Fans

Derby
Pedestal Fan

- Elegantly designed switch box
- Control of power On-Off, speed modes, oscillation & timer functions through remote also
- Aerodynamically designed balanced 3 leaf blade

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 400 | 55 | 1350 | 72 |



HAVELLS

Swing

- Jerk free oscillation
- Elegantly designed switch box with 2 hrs. timer

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 400 | 55 | 1350 | 72 |



Pedestal Fans

HAVELLS

Pedestal Fans

DIVA

Pedestal Fan

- High performance motor for better air delivery
- Jerk free oscillation & smooth running
- Aerodynamically designed balanced blades
- Superior low voltage performance
- 2 hour timer setting

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 400 | 55 | 1350 | 72 |



HAVELLS

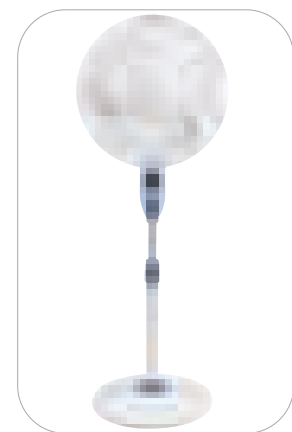
SPRINT-16

- Strong motor for better air delivery
- Smooth oscillation
- Superior low voltage performance
- Heavy base for stability

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 400 | 55 | 1350 | 72 |



Pedestal Fans



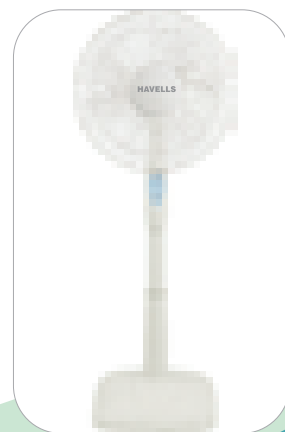
HAVELLS

Pedestal Fans

Swing MIDGET
Pedestal Fan

- High performance motor with overheat protection
- Smooth oscillation by heavy duty gear box
- Aerodynamically designed transparent AS blade
- Free Neck arrangement for tilting
- Unique telescopic arrangement for height adjustment

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 400 | 55 | 1350 | 72 |



HAVELLS

SPRINT-18

- Strong motor for better air delivery
- Smooth oscillation
- Superior low voltage performance
- Heavy base for stability
- Aerodynamically designed balanced ABS blades

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|---------------|------------------------|----------------|-----------------------|
| 450 | 65 | 1330 | 82 |



Pedestal Fans

HAVELLS

Pedestal Fans

DIVA 18
Pedestal Fan

- Strong motor for better air delivery
- Smooth oscillation
- Superior low voltage performances
- Wider base for stability
- Aerodynamically balanced blades
- 2 hour timer setting

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|---------------|------------------------|----------------|-----------------------|
| 450 | 65 | 1340 | 82 |



HAVELLS



Windstorm

- Powerful energy efficient heavy duty motor
- Unique aerodynamically designed 4 leaf metal blade for excellent air thrust
- Telescopic height adjustment from 1060 mm to 1225 mm
- Three speed control
- Attractive bi-colour metallic finish

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 450 | 190 | 1350 | 130 |

PedestalFans

HAVELLS

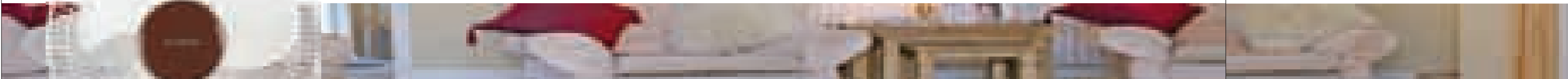
Pedestal Fans



- Telescopic arrangement for height adjustment
- Stable & sturdy base
- Powerful motor with heavy duty gear box
- Superior aesthetics
- Pull chain arrangement for speed control

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 450 | 100 | 1400 | 110 |

HAVELLS



High Speed Fans





61

SPRINT 2000
Wall Fan

- High speed wall fan
- Aesthetically designed ABS stand
- Aluminium die-cast knuckle
- High speed motor for higher air delivery

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|---------------|------------------------|----------------|-----------------------|
| 300 | 75 | 2200 | 70 |



High Speed Fans

HAVELLS

High Speed Fans

NEW

Diiva HS
Wall Fan

- High speed wall fan
- Elegant looks
- Aerodynamically designed AS blades
- Powerful motor for higher delivery

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|---------------|------------------------|----------------|-----------------------|
| 300 | 75 | 2200 | 70 |



62

HAVELLS



Swing *platina*
Hi-Speed

- Jerk free oscillation & smooth running
- High performance high speed motor for higher air delivery
- Superior low voltage performance
- Aerodynamically designed balanced heavy duty PP blade

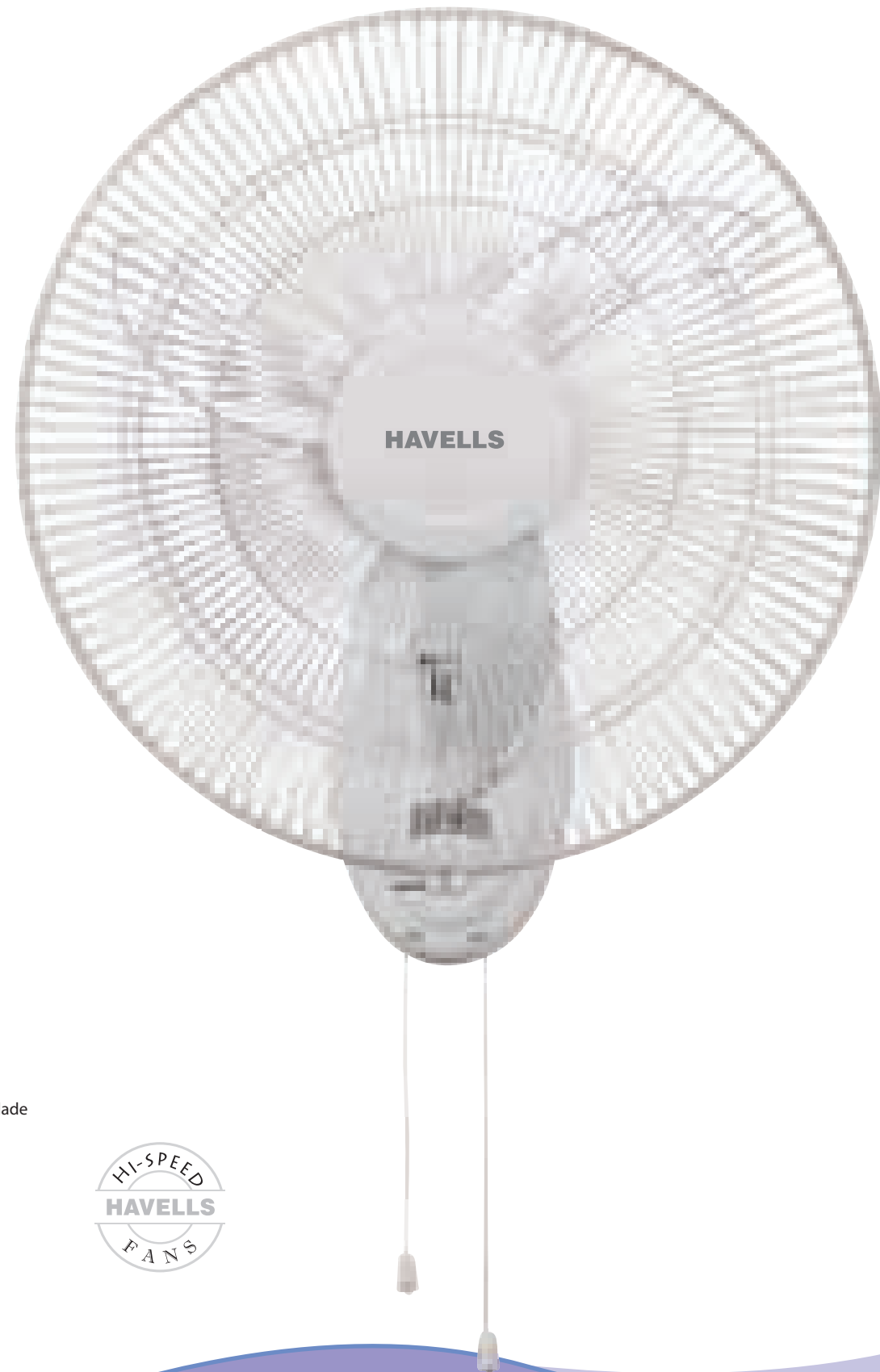
| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 400 | 110 | 2100 | 90 |



High Speed Fans

HAVELLS

High Speed Fans



Airball
Hi-Speed

- High performance motor for better air delivery
- Jerk free oscillation & smooth running
- Aerodynamically designed balanced propeller type blade
- Superior low voltage performance

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 450 | 120 | 2000 | 100 |



HAVELLS

SPRINT-16
HI - SPEED

- Strong motor for better air delivery
- Smooth oscillation
- Superior low voltage performance
- Heavy base for stability

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 400 | 110 | 2100 | 90 |



HAVELLS

SPRINT-18
HI - SPEED

- Strong motor for better air delivery
- Smooth oscillation
- Superior low voltage performance
- Heavy base for stability

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMM) |
|------------|---------------------|-------------|--------------------|
| 450 | 120 | 2000 | 100 |



HAVELLS



Selection Guide-Exhaust Fans



In many areas within a building, mechanical ventilation, powered by fans, is a practical (and often a legal) requirement. The rate of ventilation, conveniently measured in cubic meter of air per hour must be sufficient to satisfy the following three requirements:

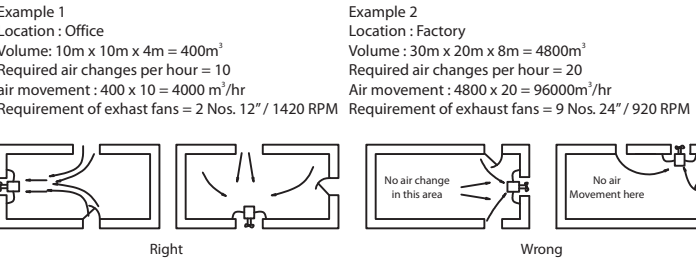
- a) Sufficient air movement throughout the room or building to prevent the formation of pockets of stale, stagnant air.
- b) Sufficient fresh air supply and foul air exhaust to limit the level of air pollution from all sources in the building, including humidity.
- c) Reduction of air temperature, within the limits set by the climate, by the removal of heat generated within the building or supplied by the sun.

Ventilation Requirements
Air Change ratings- The simplest method of determining the ventilation rate required is to make use of the accumulated experience of the industry expressed in a table of "air changes rates". The volume in cubic metres (m3) of the space to be ventilated is estimated and multiplied by the number of air changes per hour to give the ventilation rate in m3 per hour.

Installation
Havells Exhaust fans should be installed in such a way as to draw fresh air movement throughout the room or building to be ventilated so that it prevents formation of air pockets and the state air is totally extracted. It is recommended to mount the fan on a wall opposite the inlets and at highest possible level normally not less than 7' so that any smoke, steam or odour laden air, warmer than ambient temperature within the room and having tendency to arise, can be effectively exhausted. The exhaust fan should be installed at a higher level than ceiling fan blades, if both are located in same area. The sketch shows correct installation of exhaust fans.

Ventilation rate (m3/hour) = Volume (m3) x air changes per hour

| Portable location | Air changes per hour |
|--|----------------------|
| Office Hall/Bank/Hospital ward | 08-12 |
| Factory/Workshop | 12-20 |
| Canteen/Restaurant | 15-20 |
| Boiler House/Foundry | 40-60 |
| Cinema/Auditorium/Kitchen/Toilet/Photographic darkroom | 20-30 |
| Laboratory | 08-30 |



Exhaust Fans





Domestic Exhaust Fans-Plastic



67 **VENTILAIR DX**

- Ideal for mounting on glass window
- High quality engineering plastic, resistant to colour change with anti static properties

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMH) | Rated Voltage | Rated Frequency(Hz) | Noise Level(db) |
|------------|---------------------|-------------|--------------------|---------------|---------------------|-----------------|
| 150 | 24 | 1350 | 280 | 220 | 50 | 34 |
| 200 | 28 | 1280 | 520 | 220 | 50 | 42 |
| 250 | 36 | 1200 | 860 | 220 | 50 | 44 |



VENTIL-AIR DX-FG

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMH) | Rated Voltage | Noise Level(db) |
|------------|---------------------|-------------|--------------------|---------------|-----------------|
| 150 | 22 | 1360 | 220 | 220 | 39 |
| 200 | 31 | 1225 | 450 | 220 | 42 |
| 250 | 41 | 1100 | 660 | 220 | 44 |

HAVELLS

Domestic Exhaust Fans-Plastic

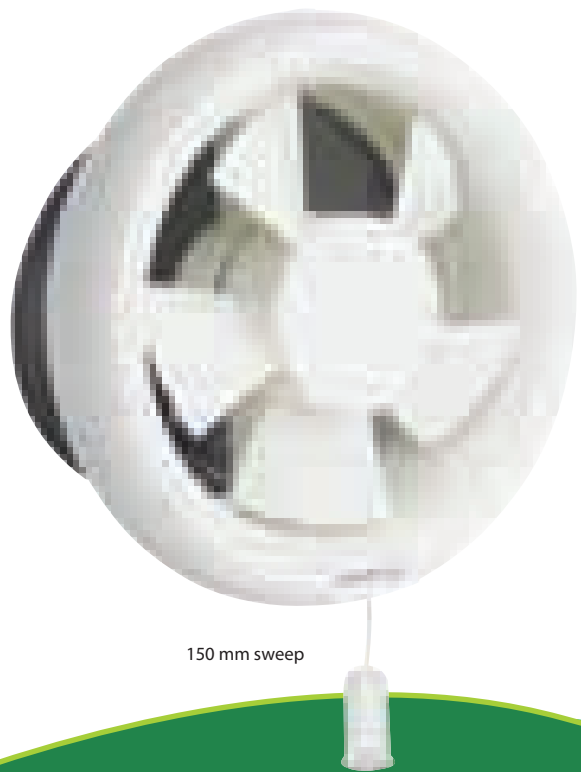


100 mm & 150 mm sweeps

VENTILAIR DXW

- Ideal for mounting on glass window
- High quality engineering plastic, resistant to colour change with anti static properties

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMH) | Rated Voltage | Rated Frequency(Hz) | Noise Level(db) |
|------------|---------------------|-------------|--------------------|---------------|---------------------|-----------------|
| 100 | 11 | 1350 | 84 | 220 | 50 | 43 |
| 150 | 18 | 1280 | 210 | 220 | 50 | 42 |



150 mm sweep

VENTILAIR DXR

- Back shutter & fan ON-Off operations are interlocked through pull cord
- High quality engineering plastic, resistant to colour change with anti static properties

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMH) | Rated Voltage | Rated Frequency(Hz) | Noise Level(db) |
|------------|---------------------|-------------|--------------------|---------------|---------------------|-----------------|
| 150 | 18 | 1250 | 380 | 220 | 50 | 42 |

HAVELLS



VENTILAIR DX-WE

- Suitable for window & wall mounted indoor installation
- Electrically operated automated front shutter
- Modern design, fashionable & elegant look

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMH) | Rated Voltage | Rated Frequency(Hz) | Noise Level(db) |
|------------|---------------------|-------------|--------------------|---------------|---------------------|-----------------|
| 150 | 18 | 1350 | 210 | 220 | 50 | 42 |



VENTILAIR DX-C

Ceiling Mounted Ventilating Fans

- Modern design & elegant look
- High quality engineering plastic, resistant to colour change with anti static properties

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMH) | Rated Voltage | Rated Frequency(Hz) | Noise Level(db) |
|------------|---------------------|-------------|--------------------|---------------|---------------------|-----------------|
| 130 | 28 | 1250 | 150 | 220 | 50 | 42 |



VENTILAIR DB

- Double ball bearings heavy duty motor
- Protective bird guard is provided
- Robust construction

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMH) | Rated Voltage | Rated Frequency(Hz) | Noise Level(db) |
|------------|---------------------|-------------|--------------------|---------------|---------------------|-----------------|
| 230 | 45 | 1400 | 850 | 230 | 50 | 40-45 |
| 300 | 70 | 1400 | 1600 | 230 | 50 | 40-45 |



VENTILAIR DS

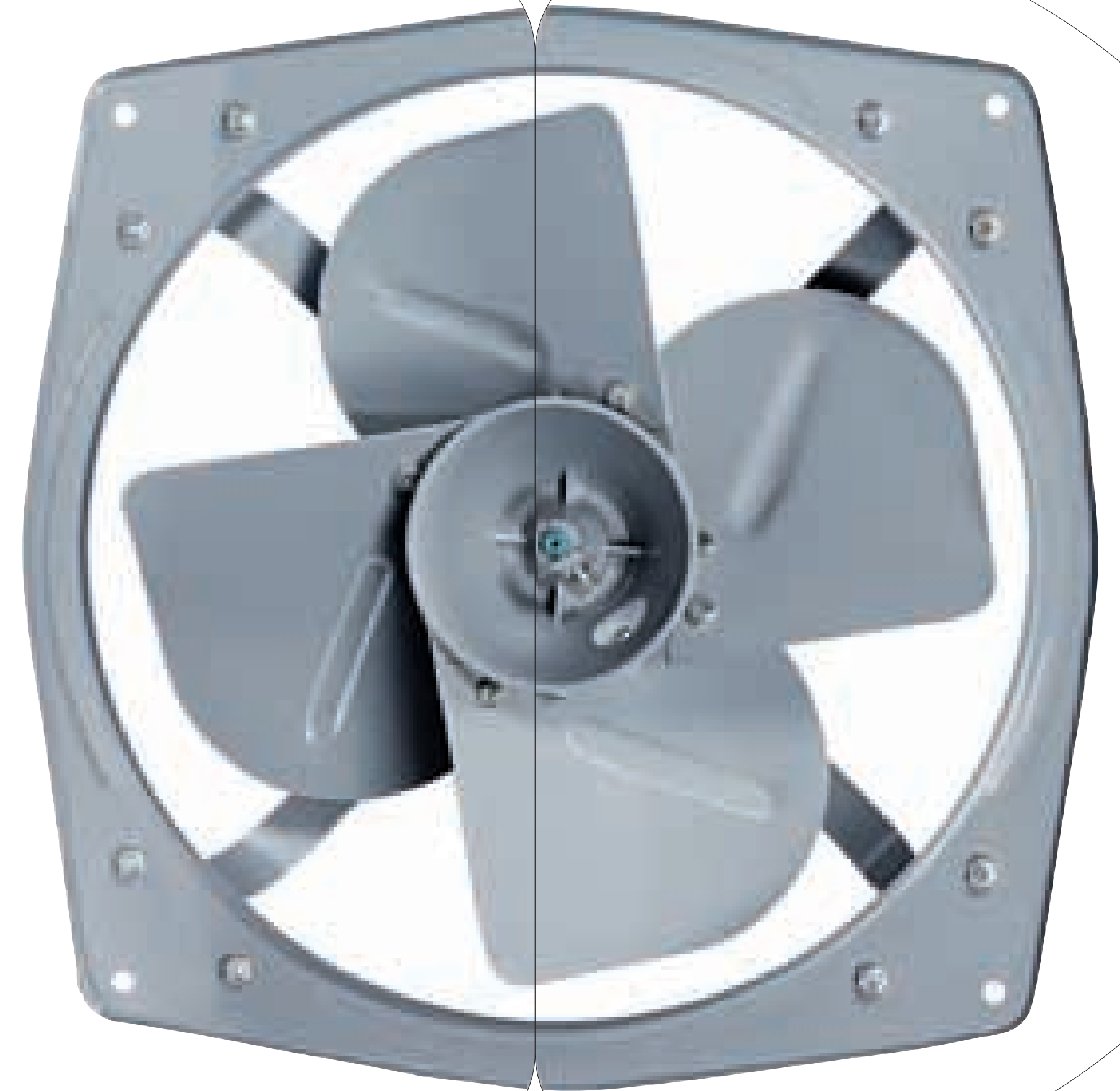
- Specially designed metal blade
- Powder coated metallic finish
- Sturdy steel bird guard

| Sweep (mm) | Power Input (Watts) | Speed (RPM) | Air Delivery (CMH) | Rated Voltage | Rated Frequency(Hz) | Noise Level(db) |
|------------|---------------------|-------------|--------------------|---------------|---------------------|-----------------|
| 230 | 42 | 1400 | 700 | 230 | 50 | 40-45 |
| 300 | 55 | 1350 | 1200 | 230 | 50 | 45-50 |



Selection Guide-Exhaust Fans

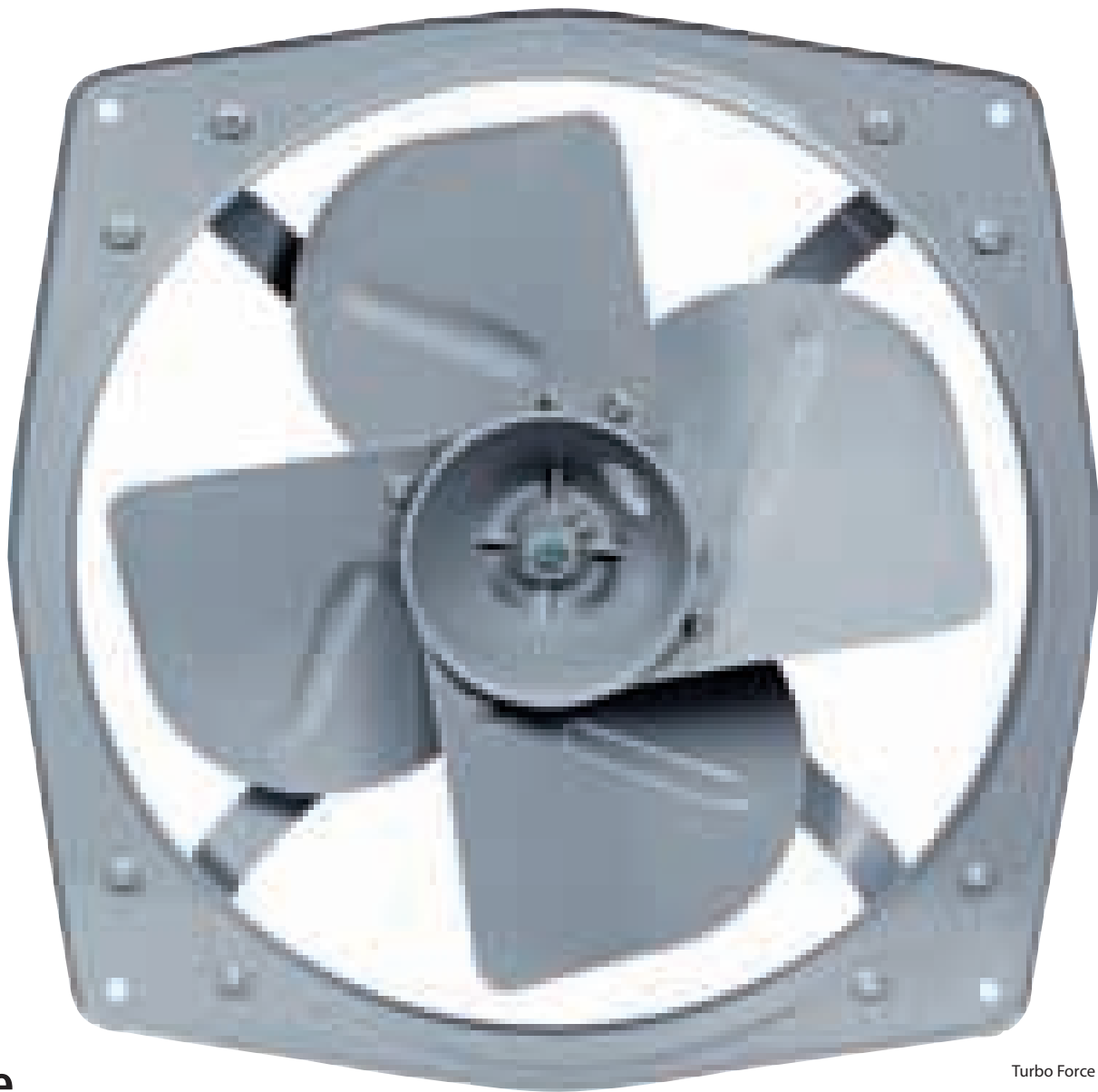
Industrial Fans





Turboforce
Heavy Duty Exhaust Fan

- Energy Efficient motor
- Dynamically balanced impellers for smooth & vibration-free operation
- Turbo profile blades for higher air delivery
- Aluminium pressure die-cast motor shell with fins ensure better heat dissipation resulting in a cooler motor
- Pre-lubricated double ball bearing for maintenance free running
- Generally conforming to IS 2312-1967



Heavy Duty Exhaust Fan

**IP55
Protected**

IS:2312-1967



CM/L-3062441
For 300 mm, 380 mm, 450 mm, 600 mm*
* 300/380/450 mm in 1400 RPM
& 600 mm in 900 RPM

Turbo Force Heavy Duty Exhaust Fan

At 230 Volts, 1 Phase, 50Hz AC
or 400 Volts, 3 Phase, 50Hz AC

| Sweep (mm) | Phase | Speed (RPM) | Input (Watt) | Current (AMP) | Free air flow M ³ /hr. | Noise Level (dB) |
|------------|--------|-------------|--------------|---------------|-----------------------------------|------------------|
| 300 | Single | 900 | 50 | 0.23 | 1275 | 40-45 |
| | | 1400 | 82 | 0.38 | 1900 | 45-50 |
| 380 | Single | 900 | 90 | 0.42 | 2250 | 50-55 |
| | | 1400 | 150 | 0.70 | 3600 | 55-60 |
| 450 | Single | 900 | 132 | 0.60 | 4400 | 55-60 |
| | | 1400 | 370 | 1.70 | 6800 | 60-65 |
| 600 | Single | 700 | 240 | 1.10 | 7900 | 55-60 |
| | | 1400 | 500 | 2.30 | 10500 | 60-65 |
| 450 | Three | 1400 | 370 | 0.82 | 6800 | 60-65 |
| 600 | Three | 900 | 500 | 0.95 | 10500 | 60-65 |

HAVELLS

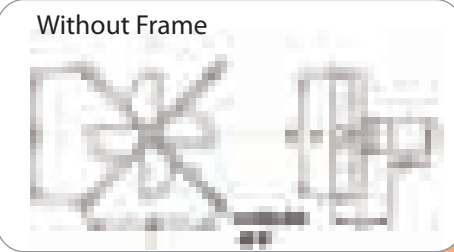
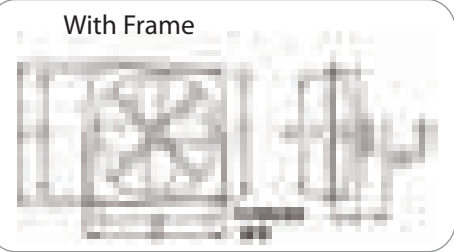
Heavy Duty Exhaust Fan



| Dimension (mm) | A | B (CRS) | ØC | ØD | E | ØF | G | Sweep of Blade ØH ± 5mm |
|----------------|-----|---------|-----|------|-----|-----|-----|-------------------------|
| 600 | 728 | 606 | 630 | 11.0 | 365 | 188 | 350 | 600 |
| 450 | 556 | 450 | 475 | 10.5 | 315 | 139 | 302 | 450 |
| 380 | 469 | 374 | 399 | 10.5 | 266 | 139 | 255 | 380 |
| 300 | 388 | 313 | 328 | 10.2 | 115 | 115 | 250 | 300 |

HAVELLS

Tolerance on ratings:- (As per IS 2312-1967)
Speed ± 5% to + 10%
Power ± 10%
Air Delivery ± 10%





Turboforce
Wall Air Circulator Fan

- Double ball bearings ZZ (Permanent lubricated) for longer life
- Aerodynamically designed blades for higher air delivery and minimum noise level
- Sturdy close-mesh guards with powder coating to ensure corrosion resistance as per safety standards
- Thermally protected motor
- Metallic hi-lustre finish with chrome plated pipe
- Heavy duty gear box
- 90° Oscillation for wide coverage
- Efficient motor design to suit voltage / supply fluctuation
- Generally conforming to IS : 2997-1964

| Sweep | Volts (V) | AC Cycle (C/S) | Power Consumption | Speed RPM | Phase | Air Del. M ³ /min. | Min Peak air velocity | No. of blades | No. of Speeds | Height Adjustment in mm | |
|-----------------------|-----------|----------------|-------------------|-----------|-------|-------------------------------|-----------------------|---------------|---------------|-------------------------|------|
| 450mm (18") Wall | 230 | 50 | 90W | 1440 | 1 | 150 | 245 | 3 | 1 | - | - |
| 450mm (18") Pedestal | 230 | 50 | 90W | 1440 | 1 | 150 | 245 | 3 | 1 | 1100 | 1400 |
| 600mm (24") Wall | 230 | 50 | 180W | 1440 | 1 | 280 | 245 | 3 | 1 | - | - |
| 600mm (24") Pedestal | 230 | 50 | 180W | 1440 | 1 | 280 | 245 | 3 | 1 | 1400 | 1650 |
| 750mm (30") Wall* | 230 | 50 | 225W | 1440 | 1 | 410 | 245 | 3 | 1 | - | - |
| 750mm (30") Pedestal* | 230 | 50 | 225W | 1440 | 1 | 410 | 245 | 3 | 1 | 1500 | 1950 |

Tolerance on ratings:-(As per IS 2997-1964)
Speed : -10%
Power : +10%
Air Delivery: -10%

Air Delivery measurement at a distance of 6 times blade sweep from the fan as per IS 2997-1964

Specifications may vary without notice due to continuous technology upgradation.
* On request

Turboforce
Pedestal Air Circulator Fan

| Size (sweep) | A | B | C | D | E | F | G | H |
|--------------|-----|-----|-----|-----|-----|------|-----|------|
| 450 | 520 | 450 | 125 | 350 | 650 | 700 | 400 | 1580 |
| 600 | 670 | 605 | 165 | 380 | 680 | 1080 | 510 | 2080 |
| 750* | 812 | 750 | 180 | 400 | 680 | 1080 | 510 | 2180 |

* On Request

