



**YOUNG ENERGY
THAT DRIVES
INNOVATION &
TECHNOLOGY.**

Standard Fans 2017 Range

STANDARD is a brand of India's leading FMEG company, Havells India Ltd., that offers a wide range of highly differentiated Domestic & Industrial Switchgear products and Domestic Cables. The brand has been serving the Indian customers for over five decades and has built a formidable reputation with its high quality products in domestic as well as international markets.

It offers products such as MCBs, RCCBs, Distribution Boards (DBs), MCCBs, RCBOs Changeover Switches, Switch Disconnecter Fuses (SDFs), HBC Fuses, Modular Switches, Copper Flexible Cables etc. In 2014-15, STANDARD marked its entry into consumer product category with the launch of premium range of Fans. Today, STANDARD boasts of having a comprehensive range of ceiling, table, wall-mounted, pedestal fans and domestic exhaust fans.

STANDARD has pan-India marketing and distribution network stretching over 42 branch offices, 1,200 authorized dealers and 10,000 strong retail outlets across the country. The company also has a wide presence in International markets including Middle East, South East Asian countries, Malaysia, Singapore, South Africa, Kenya, Ghana, Nigeria.

It has established a well-equipped infrastructure with state of the art facilities in terms of plant, machinery and testing. STANDARD products are manufactured at most modern and technologically advanced plants of its parent, Havells India, located in different parts of the country such as Haridwar, Baddi, Sahibabad, Faridabad and Alwar. All STANDARD products are designed on the lines of Indian & International specifications and tested by nationally accredited laboratories CPRI/VERDA.

STANDARD's R&D is etched in company's DNA. The company has a very strong R&D team that has driven innovation to continuously deliver world-class products. Its R&D centers are equipped with supreme quality CAD/CAM machines for its entire stage of design and development. The R&D team continuously works to create innovative solutions and new products of high reliability and safety catering to meet the ever-changing demands of various segments of customers. All its products are incorporated with special technology rated for 10% higher current carrying capacity and can withstand high temperature rise even during the worst of overloading conditions. It offers best in class safety features along with better performance during low voltage conditions too. STANDARD's entire product range offers high performance, best design and superior features like energy savings, longer life and shock proof to name a few.

With its mission to offer quality products, efficient customer service and everlasting relationship with partners, STANDARD holds unbeatable advantages like expertise in LT Switchgear since last four decades, technology leadership, excellent brand perception, wide dealer network, excellent after sales service and value for money to its customers.

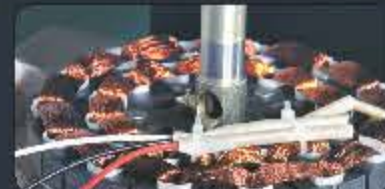
CORPORATE OFFICE



HARIDWAR FACTORY



Stator Shop



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

Paint Shop



- Fully integrated state-of-the-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 are used in the 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 lac fans per month
- Each stage of assembly is equipped with latest technology machines & mechanisms
- Automation in online packing with latest technology machines for accuracy & productivity

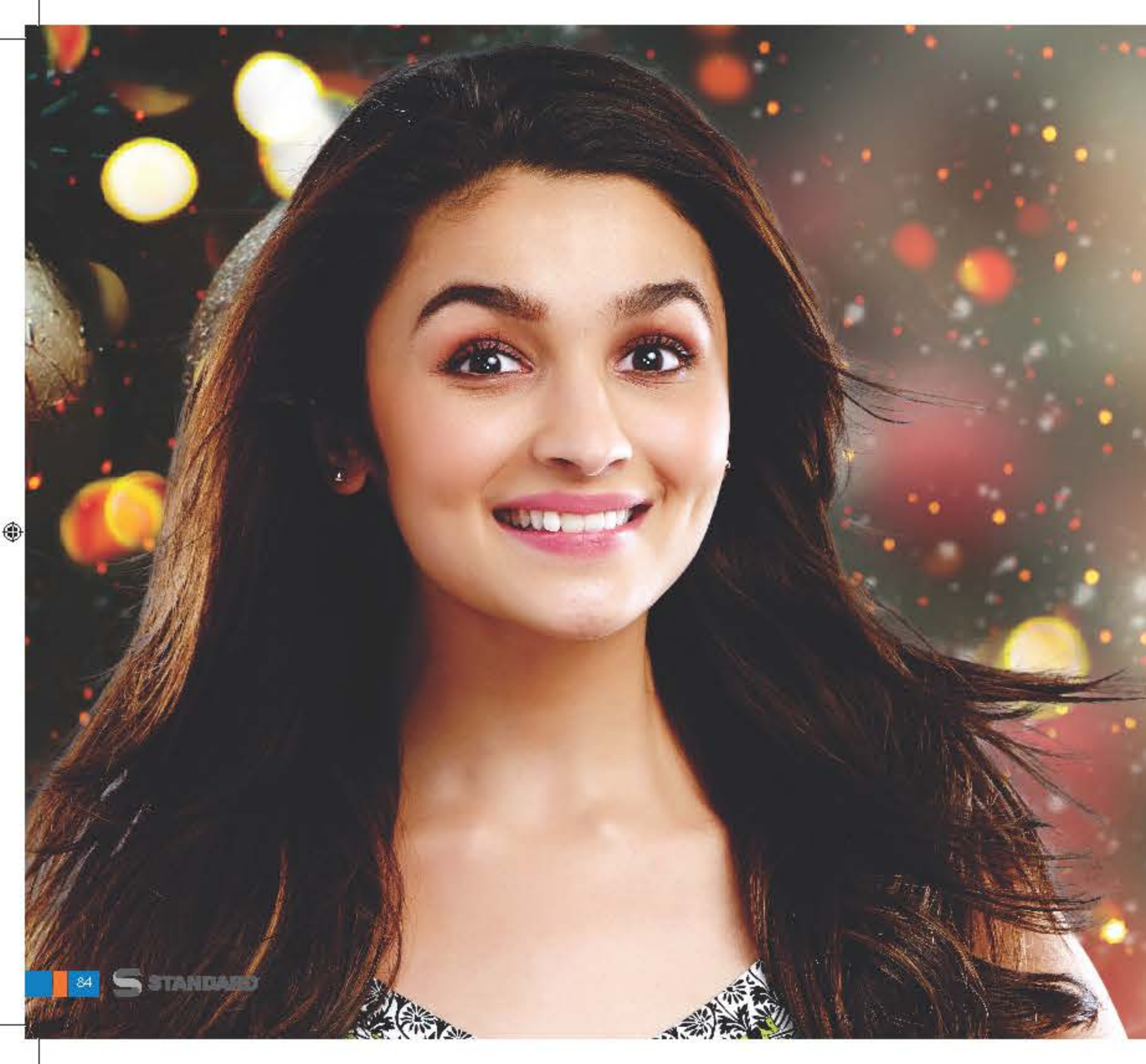
Testing & Quality Control



- Latest technology testing equipment & 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
- 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

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— EXHAUST FAN



Refresh Air Exhaust

130 mm
Refresh Air DXC Ceiling Exhaust Fan



150 & 100 mm
Refresh Air DXW Exhaust Fan



200 & 150 mm
Refresh Air DXR Exhaust Fan



250, 200 & 150 mm
Refresh Air DX Exhaust Fan



LOW NOISE
Super silent & smooth running



FRESHNESS
Get Fresh air

Model	Sweep (mm)	Power Inputs (watts)	Speed RPM	Air Delivery (CMH)	Rated Frequency (Hz)	Noise Level (db)
Refresh Air DX	250	36	1200	860	50	44
Refresh Air DX	200	28	1280	520	50	42
Refresh Air DX	150	24	1350	280	50	34
Refresh Air DXW	150	25	1800	300	50	43
Refresh Air DXW	100	15	2400	100	50	40
Refresh Air DXR	200	28	1280	520	50	42
Refresh Air DXR	150	24	1350	280	50	34
Refresh Air DXC	130	24	1350	280	50	34



Refresh Air Exhaust

300 & 230 mm
Refresh Air DB Metal Exhaust Fan



300 & 230 mm
Refresh Air DB Metal Exhaust Fan



300, 230 & 150 mm
Refresh Air SPS Exhaust Fan



BEARING
Double ball bearing
Refresh Air DB



SMOOTHNESS
Smooth running speed

Model	Sweep (mm)	Power Inputs (watts)	Speed RPM	Air Delivery (CMH)	Rated Frequency (Hz)	Noise Level (db)
Refresh Air DB	300	55	1400	1900	50	40
Refresh Air DB	230	42	1400	850	50	40
Refresh Air SPS	300	55	1400	1200	50	40
Refresh Air SPS	230	42	1400	700	50	40
Refresh Air SPS	150	48	2400	1250	50	40



Refresh Air HD Exhaust

600, 450, 380 & 300 mm
Refresh Air HD Metal Exhaust Fan



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



600, 450, 380 & 300 mm
Refresh Air HD Exhaust Fan



FRESHNESS
Get Fresh air



SMOOTHNESS
Smooth running speed



IP55
Protected

Model	Sweep (mm)	Power Inputs (watts)	Speed RPM	Air Delivery (CMH)	Current (Amp)	Service Value	Noise Level (±1.5db)
Refresh Air HD	300	82	1400	1950	0.35	22	45
Refresh Air HD	380	145	1400	3700	0.65	25	55
Refresh Air HD	450	324	1400	6125	1.48	18.5	60
Refresh Air HD	600	490	900	10,520	2.24	21.5	62

