



**PMSM HVLS FAN**

## CONCEPT

The air produced from a HVLS fan moves towards the floor in a column that radiates in all directions, flowing horizontally until it reaches a wall – or the airflow from another fan – at which stage the air flow turns upwards and flows back towards the fan. This creates convection like air current that builds as the fan continues to spin. The increased air circulation effectively removes hot, humid air and replaces it with drier air. This process allows for a complete mixing of air in the atmosphere resulting in perceived temperature drop of 3 to 5 degrees, depending on the season.

## RR PMSM HVLS FAN

Permanent Magnet Synchronous Motorised (PMSM) HVLS Fan series from RR has been conceptualized and developed at our in-house R&D centre. It has a light and stylish design with the fan blades made from aviation grade aluminum that makes them stronger and more efficient. The winglets help in reducing air resistance and noise, reaching optimal silent performance at low speeds. Our PMSM HVLS Fan is certified with ISO 9001:2015 and made using only world class industrial grade components and spare parts of the highest quality. We ensure the most efficient and reliable fan for you to use.



RR-V05 DECORATIVE-66"



RR-V05 DECORATIVE-100"



CONTROL PANELS V05



CONTROL PANELS V06



RR-V05 L(8'-12')



RR-V05 H(8'-12')



RR-V06 (16'-24')

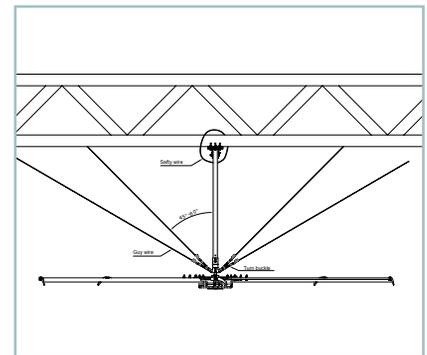
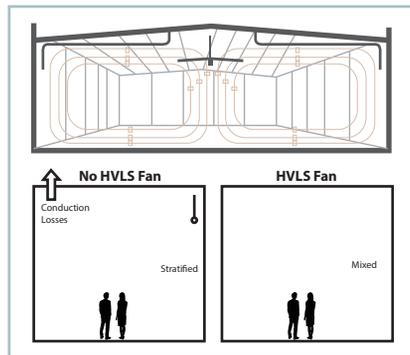
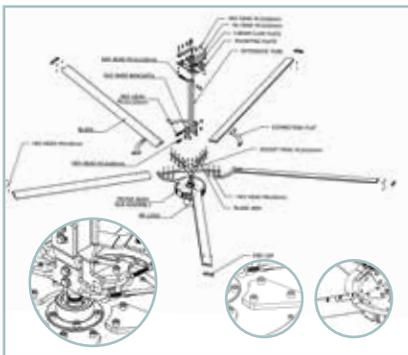
# ADVANTAGES OF RR PMSM HVLS FANS (GEARLESS) OVER GEARED HVLS FANS

					
INHOUSE MANUFACTURING	LIGHT WEIGHT	SILENT DESIGN	PMSM MOTOR	ENERGY SAVING	MAINTAINANCE FREE

## TECHNICAL SPECIFICATION

RR BLDC / PMSM HVLS FANS											
MODEL	RR-V05 DECORATIVE	RR-V05 DECORATIVE	RR-V05 L-8	RR-V05 L-10	RR-V05 L-12	RR-V05 H-8	RR-V05 H-10	RR-V05 H-12	RR-V06 R-16	RR-V06 R-20	RR-V06 R-24
Diameter	66 Inch	100 Inch	8 Feet	10 Feet	12 Feet	8 Feet	10 Feet	12 Feet	16 Feet	20 Feet	24 Feet
Input Power	SINGLE PHASE 230 VOLT, 50 HZ										
No. of Blade	8	6	5	5	5	5	5	5	5	5	5
Blade Material	ABS	ABS	AVIATION GRADE EXTRUDED ALUMINIUM ALLOY 6063-T								
Approximate Fan Weight [kg]	12	15	32	33	35	45	53	54	84	89	95
Power [W]	60	65	120	175	350	150	200	400	700	1000	1300
Max. RPM	115	100	140	120	110	110	100	95	75	65	55
Sound Level of Motor	≤30	≤30	≤40	≤40	≤40	≤40	≤40	≤40	≤45	≤45	≤45
Motor Colour	White/Brown/Black	White/Brown/Black	Black	Black	Black	Black	Black	Black	Black	Black	Black
Blade Colour	White/Brown/Black	White/Brown/Black	Black	Black	Black	Siemens Grey	Siemens Grey	Siemens Grey	Siemens Grey	Siemens Grey	Siemens Grey

## SAFETY & CONCEPT OF RR PMSM HVLS



ROUND PIPE MOUNTING



I-BEAM MOUNTING



SQUARE PIPE MOUNTING



RCC MOUNTING

## APPLICATIONS

									
MANUFACTURING UNITS	SHOPPING MALL	RAILWAY TERMINALS	RELIGIOUS TERMINALS	COW SHED /POULTRY	BUS TERMINALS	WARE HOUSE	FOOD COURT	AIR PORT	GYMNASIUM



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The information & technical data mentioned in this brochure is true, complete and correct. However, the technical data could vary from time to time, hence, current details should always be checked with RR Global for accuracy.