




Epoch HVLS Fans Return on Investment

08 Fans/24-ft HVLS


Falco eMotors Sales
and Engineering Team



Epoch HVLS Fans can save you
₹ 12.23 Lac (\$17.4 k) per year
in Electricity Charges

Get Ready for the Ultimate Savings

An Exciting Breakthrough
in Direct Drive
PMMSM Motors and HVLS Fan



World's Only HVLS
Fan with Ultra Low
Harmonics and Unity
Power Factor
Correction

Comparisons

Points	Epoch HVLS Fan- 24 feet	Competition Fan -24 feet
Motor	PMSM (Direct drive)- no gearbox	BLDC (Direct Drive) - no gearbox or Induction Motor with Gears
UPF	Yes	NO
Coverage area	30,000 Sq. Ft.	22,000 Sq. Ft.
Power consumption	1.2 KW	1.57KW
RPM	62	50
Weight	100 kg	108 kg to 150kg
Made in India	Yes	NO (Only Blades)

Power Consumption Comparison

Epoch 3.0	Epoch-24 feet fan- with UPF	Competition – 24 feet fan without UPF
Quantity	08	08
Input Power for each fan	1200 W/ 1200VA	1560 W / 3120 VA
Daily Total Power consumption(kWh/kVAh)	230.4 kWh/230.4 kVAh	299.52 kWh/602.88 kVAh
Daily cost (@ ₹ 9 /KWh)	₹ 2,073	₹ 2,695
Daily cost (@ ₹ 9 /KVAh)	₹ 2,073	₹ 5,425
Yearly cost (@ ₹ 9 /KWh)	₹ 7,56,864	₹ 9,83,923
Yearly cost (@ ₹ 9 /KVAh)	₹ 7,56,864	₹ 19,80,460

Benefit of Epoch over Competition

Daily we can save

₹ 622 to ₹ 3,352 (\$9 to \$48)

Monthly we can save around

₹ 18,652 to ₹ 1,00,569 (\$266 to \$1,436)

Yearly we can save around

₹ 2,27,059 to ₹ 12,23,596 (\$3,243 to \$17,479)

Power Saving Report for 24 Feet/ 8 Fans

	Epoch	Other Fan	Savings (₹)	Savings (USD)
Quantity	8	8		
Fan Diameter	24-ft	24-ft		
Pin (W)	1,200.00	1,560.00		
Pin (VA)	1,200.00	3,140.00		
Total W	9,600.00	12,480.00		
Total VA	9,600.00	25,120.00		
Operational Hours (Daily)	24.00	24.00		
Daily Power Consumption (Wh)	230,400.00	299,520.00		
Daily Power Consumption (VAh)	230,400.00	602,880.00		
Cost/kWh (₹)	9.00	9.00		
Cost/kVAh (₹)	9.00	9.00		
Daily Cost (kWh) in ₹	₹2,073.60	₹2,695.68	₹622.08	\$8.89
Daily Cost (kVAh) in ₹	₹2,073.60	₹5,425.92	₹3,352.32	\$47.89
Operational Days (Monthly)	30	30		
Monthly Cost (kWh) in ₹	₹62,208.00	₹80,870.40	₹18,662.40	\$266.61
Monthly Cost (kVAh) in ₹	₹62,208.00	₹162,777.60	₹100,569.60	\$1,436.71
Operation Days (Yearly)	365	365		
Yearly Cost (kWh) in ₹	₹756,864.00	₹983,923.20	₹227,059.20	\$3,243.70
Yearly Cost (kVAh) in ₹	₹756,864.00	₹1,980,460.80	₹1,223,596.80	\$17,479.95

Epoch Technology

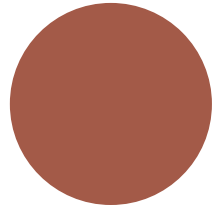
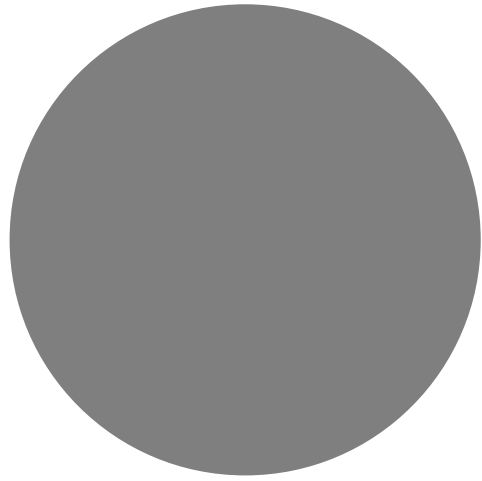
Breakthrough: Epoch HVLS fans represent a significant technological breakthrough;

Long Life: Epoch fans operate silently and efficiently requiring no maintenance for years to come;

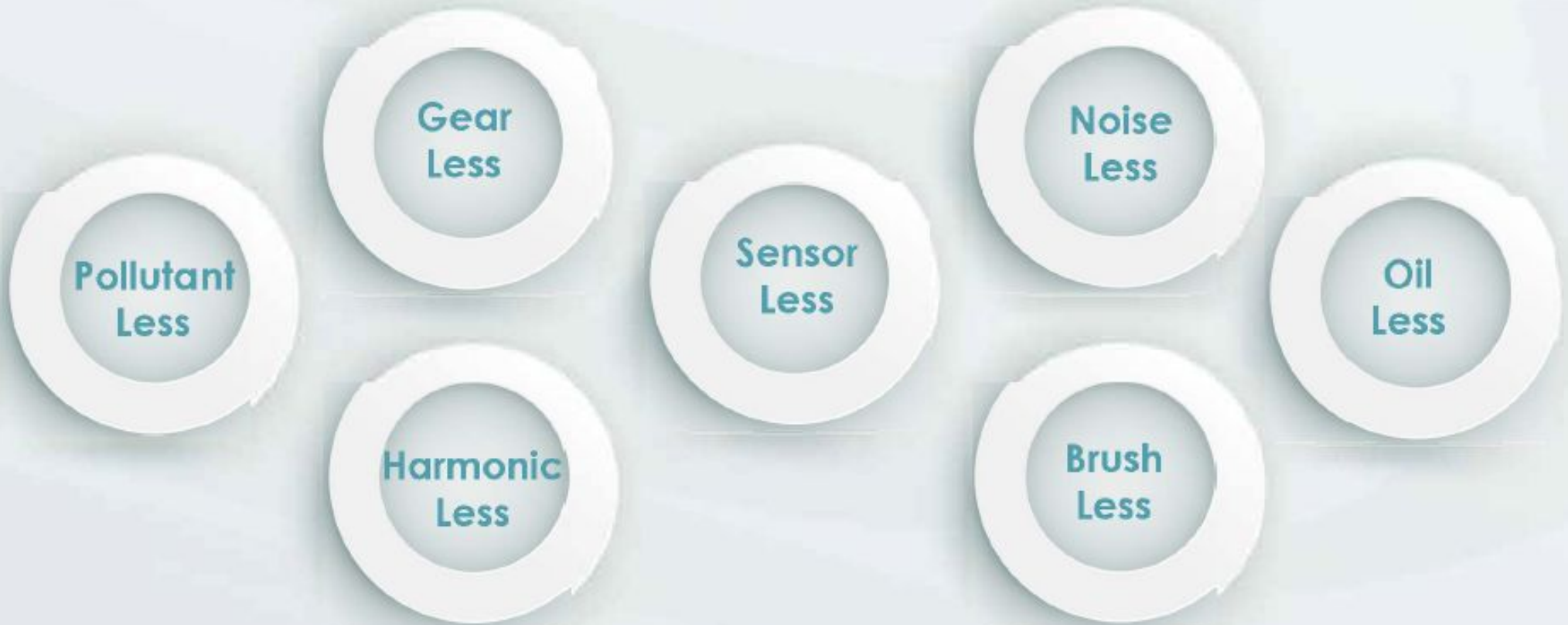
Low Power Consumption: With the least amount of energy consumption (40% more efficient than the best HVLS fan in the industry);

Zero Sound: Sound signature of less than 35 dB, we are setting some serious world records;

High Efficiency: The motor and inverter efficiency is close to 95% each, giving you a lightweight powerhouse which can move a ton of air at tremendous energy savings.



**A Sound Signature of
Less than 35dB**



Direct Drive Tech with Power Factor Correction has many benefits as it has a very few parts

10-Point Benefit Wheel for the Epoch Technology with Power Factor Correction



Epoch Technology



BLDC
Medium Level of
Performance
1980s Concept!



**UPF &
PMSM**
Highest Level of
Performance.
This is the Future!



Geared IM
Low Level Technology
An Outdated Concept!



Conclusion

Epoch Technology with Power Factor Correction is far superior than any other HVLS fan in the World.