



STULZ the natural choice

Inverter Scroll Stulz iEC series



Production facility in India



Global Production Centres

China



India

USA

Germany

Italy

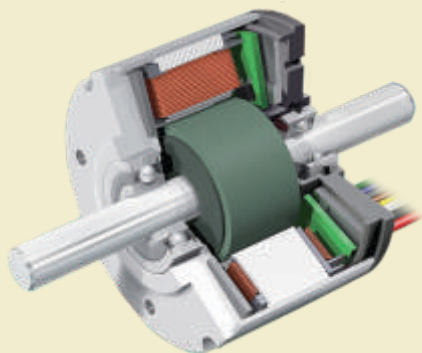
■ Powerful Savings in operating costs

INVERTER SCROLL COMPRESSOR

GENERATION NEXT TECHNOLOGY

What is an Inverter Scroll Compressor?

- DC compressor which offers **stepless capacity controls**
- Cooling capacity ranging from 5KW – 130KW
- Power supply 380V (20 – 120 rps)
- Technology that offers highest **reliability**
- Maximum **savings in power consumption** in comparison with other technologies offering capacity control

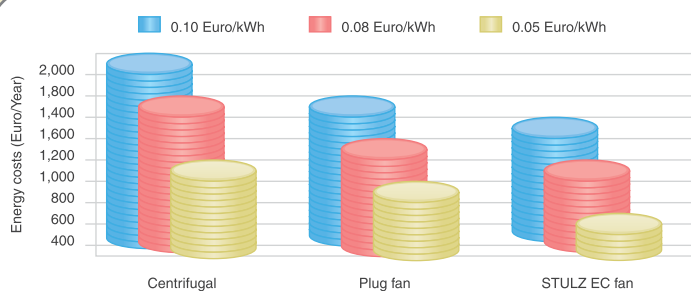


EC FAN TECHNOLOGY

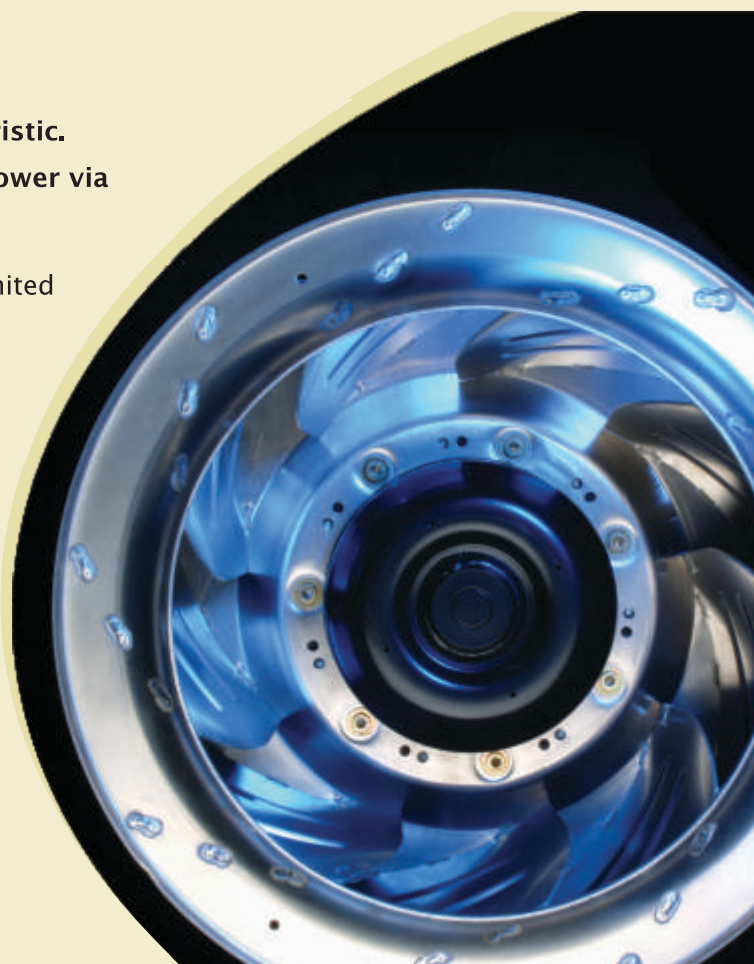
NOTHING COMES CLOSE TO IT

What is an EC motor?

- An Ec motor is a DC motor with a **shunt characteristic**.
- The rotary motion is achieved by **supplying the power via a switching device** – the commutator.
- **Previously, the commutator was realised using mechanical carbon brushes**, and hence, had a limited service life of only a few thousand hours.
- On Ec motors, this commutation is performed electronically, and therefore, wear free **offering a service life of 80,000 hours**.



Energy cost saving with EC fan compared to ordinary fans.
At 8,500 m³/h and 350 Pa



Stulz iEC Series

iEC Series is equipped with inverter scroll compressor and electronically commutated fan motor for maximum energy savings.



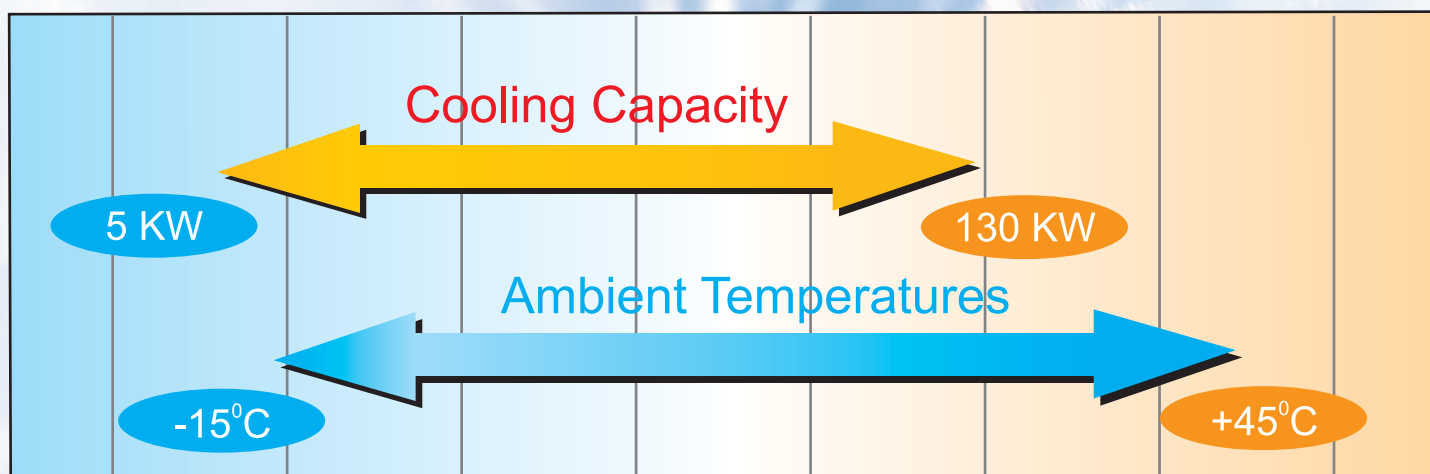
All models available in three flow options.

■ Powerful Statistics - 3 way air flow

Technical Specifications: iEC Series

Dx and Dual fluid Aircooled/watercooled Precision Airconditioners : iEC(D/U/F) A / G - A/CW						
Model	iEC535A	iEC743A	iEC570A	iEC786A	iEC5105A	iEC7129A
Dx Cooling Capacity-KW (total)	35	43	70	86	105	130
Airflow-CMH @ 20Pa	8000	10200	18000	20500	25000	30000
No Of Fans	1	1	2	2	3	3
Type Of Fan	EC-Radial	EC-Radial	EC-Radial	EC-Radial	EC-Radial	EC-Radial
Type Of Drive	Direct	Direct	Direct	Direct	Direct	Direct
No Of Compressors	1	1	2	2	3	3
Type Of Compressor	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Configuration	INV	INV	INV+FIX	INV+FIX	INV+FIX	INV+FIX
Power Supply (V)	400	400	400	400	400	400
Heater	Electric	Electric	Electric	Electric	Electric	Electric
Humidifier	Electrode Steam	Electrode Steam	Electrode Steam	Electrode Steam	Electrode Steam	Electrode Steam
DIMENSIONS (MM)						
Height	1980	1980	1980	1980	1980	1980
Width	1010	1410	1760	2160	2560	2900
Depth	920	920	920	920	920	920
Gross Weight (Kgs)	315	475	700	880	950	1150

High flexibility product range



➤ Multiple Inverter configuration available as an option

Gross capacity based on 45DegC midpoint condensing temperature at 25Pa ESP at sea level
Capacities are for 24DegC db return air temperature and 50% R. H.
Technical data subject to change without notice.

Stulz iEC – DP Series



Supply air section below false floor in combination with inverter scroll compressor & electronic motor ensures optimization of the entire unit design for efficiency & wide range of capacity control.

* Technical data available on request



■ **STULZ Quality Assurance** for energy saving and reliability

STULZ has developed a strict set of guidelines, which all STULZ production sites worldwide must adhere to. These Quality Assurance Parameters ensure you get the best possible product.

- » **Machine Pipe Bending**
- » **Vibration Absorber**
- » **Automated Electronic Nitrogen Testing**
- » **Power Monitoring Switch**
- » **Gasflux**
- » **Hi-Pot Testing**
- » **Wire cut and strip technologies**
- » **Witness Testing Facility**
- » **Clients assured of capacity and performance parameters of units.**
- » **Operational/witness testing of units at design conditions in addition to standard dry run testing.**

Powerful access for more savings

STULZ has worked towards lowering expenses by reducing operating costs, life cycle costs and power consumption. And now, the same German efficiency will be available in India at an unbeatable price advantage!

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