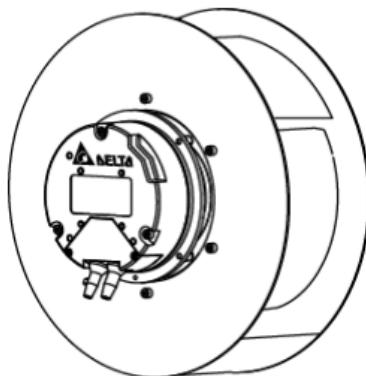
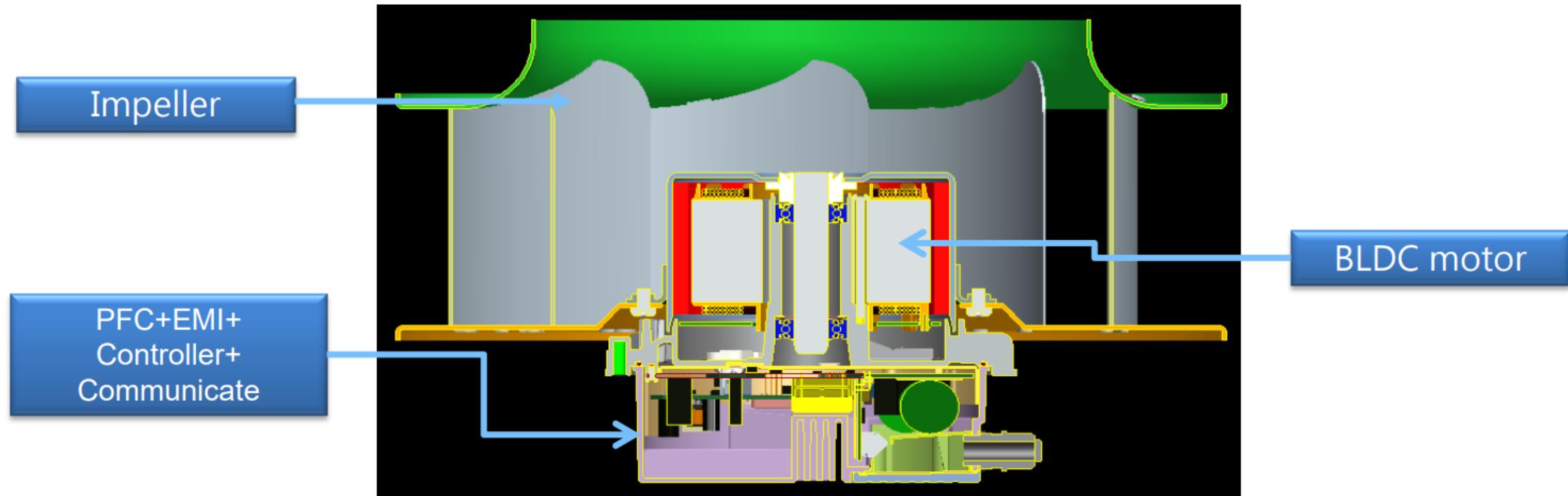
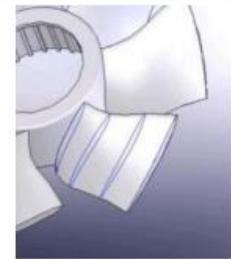


Electronically Commutated (EC) Fan Introduction

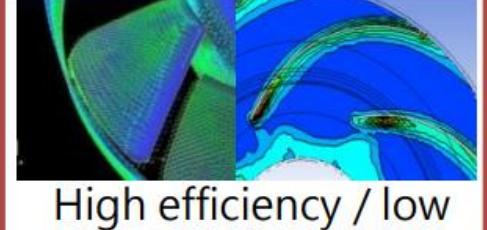


- Brushless DC motor fan driven by applying AC source
- PWM or voltage speed control
- PFC, EMI, Controller and Communication interface
- High reliability / Long Life motor with multi-protection function
- High efficiency design

Electronically Commutated (EC) Fan Design Feature



Multi-section design



High efficiency / low noise Impeller

Impeller

Structure design

Fan performance

BLDC motor

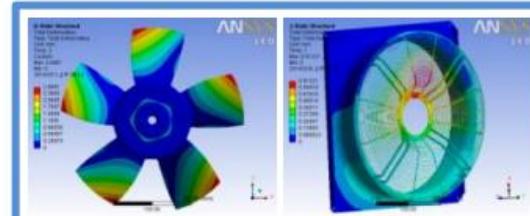
Control module



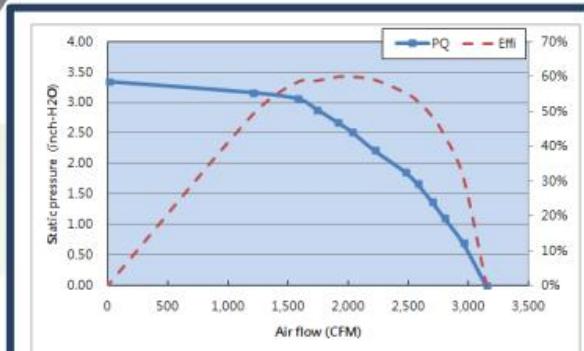
- High efficiency (>90%)
- Long life
- High reliability



- High efficiency (>95%)
- PFC design
- SVPWM motor control
- RS485 interface



- Stress / Fatigue / Harmonic simulation
- Robust design



Maximum Fan efficiency :
Blower > 55%
Axial fan > 40%

Delta Confidential

Electronically Commutated (EC) Fan Application



Precision Cooling
Row / Room Cool



Precision cooling
Outdoor



PVI
>500kW Central
Inverter

**Medium
Voltage Drive**



Electronically Commutated (EC) Fan Benefit

DESIGN CORE

AC source input

- Apply to AC source directly by Brushless DC motor control
- High efficiency BLDC motor design

Wide operative voltage range

- 1 phase 230Vac : 200Vac ~ 277Vac
- 3 phase 380Vac : 380Vac ~ 480Vac

Active PFC design

- Higher Power factor
- Lower Total Harmonic Distortion

Safe Electric Protection

- With OVP, OCP, OTP and lock protection
- With EMI solution and power factor correction

Easy speed control and monitor

- Speed control by PWM and voltage
- RS485 communication interface

Customize Design

- More efficiency products
- Customized design

ADVANTAGE



High Performance



High efficiency



Controllable



Easy installation



Power Saving



Safety