# ACmaxx Simply better than AC



















## **AC** fans

#### The standard for decades

#### Status quo

- Almost no possibility of innovation for 50 years
- No flexibility
- Short expected operational life
- 70 % of the power consumed is converted into heat
- No increase in air performance



Does AC represent a sustainable technology?

## 5 reasons to go for it

#### A new generation of alternating voltage fans for:

- Max. air performance
- Max. efficiency
- Max. operational life
- Max. flexibility (integrated intelligence for variable speed and output signals)
- Max. simplicity (compatible with worldwide line voltage)



#### **ACmaxx** offers maximum benefits

# Benefits – energy efficiency

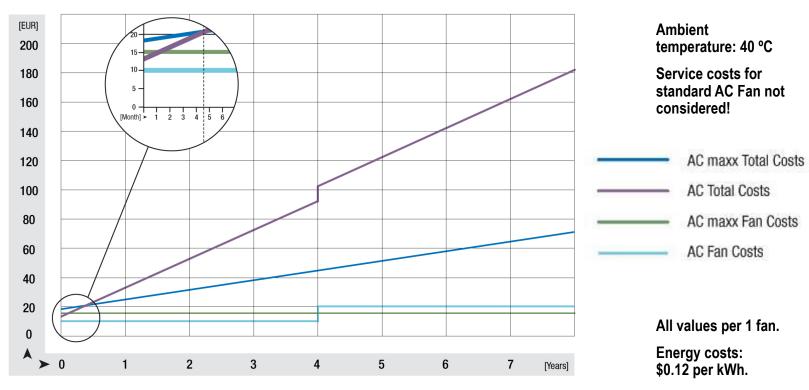
Technology	Model	Flow (cfm)	Pressure (PA)	Power (W)
ACmaxx	AC 4300	100	85	6.5
Standard AC	4656N	94	80	19.0

Technology	Model	Cost/kWh	Consumption per year	Cost per year & fan
ACmaxx	AC 4300	\$0.12	56.94 kWh	\$6.83
Standard AC	4656N	\$0.12	166.44 kWh	\$19.97

- 40–75 % lower power consumption
- ACmaxx allows a significant reduction in energy costs

# Benefits – cost savings

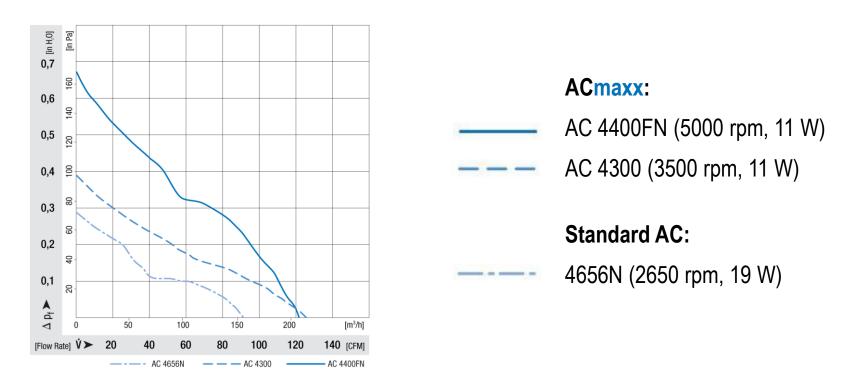
#### Cost comparison standard AC 4650 vs Acmaxx 4300 @ same performance



**Break even after 4,5 months** 



## Benefits – better performance



→ Min. 40 % better performance with 42 % lower power consumption!

**ACmaxx** – the first high-performance **AC** fan!

## Benefits – greater reliability and life time

#### Fan type Life time L10

• 120 mm:

AC 4300: 70,500 hrs @ 40 °C 4656N: 37,500 hrs @ 40 °C

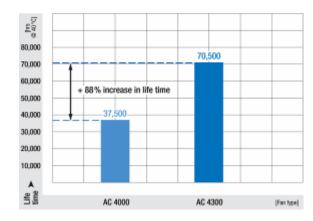
→ + 88 % increase in life time

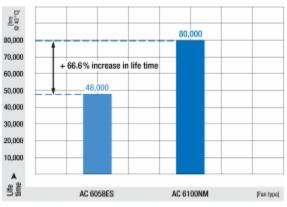
• 172 mm:

AC 6100NM: 80,000 hrs @ 40 °C 6058ES: 48,000 hrs @ 40 °C

→ + 66.6 % increase in life time

ACmaxx - fit it and forget it







# Benefits – worldwide line voltage

Supply-voltage range: 85 VAC – 265 VAC (50/60 Hz)

- Consistent performance at all line frequencies
- Consistent performance at all line voltages
- → Fewer fan models, reduced logistics outlay



First AC fan compatible with worldwide line voltages: one size fits all

# Benefits – flexibility

#### Speed control using integrated intelligence

- Speed control according to temperature (internal or external NTC)
- Speed control using PWM/analogue voltage
- 2-speed design
- Constant flow feature for induct fan (defined constant air flow with varying back pressure conditions)

#### → Speed control allows a further reduction in energy consumption and noise

Technology	Model	Airflow	Noise	Power
ACmaxx	AC 4300	53 – 121 cfm	30 ~ 51 dB(A)	2 ~ 11 W
Standard AC	AC 4656N	94 cfm	47 dB(A)	19 W

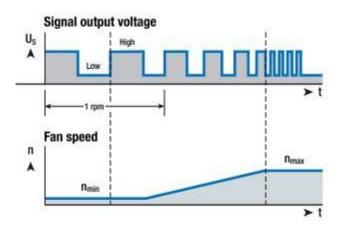
#### ACmaxx – first AC fan with integrated speed control



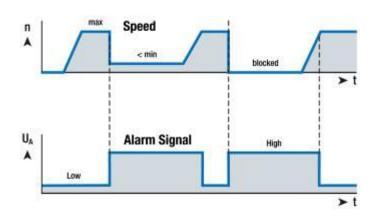
## Benefits – integrated intelligence

#### Output signals using integrated intelligence

Speed monitoring using tacho signal



Function monitoring using alarm signal



→ Early warning feature/potential to reduce down time

ACmaxx – the first AC fan with integrated failure detection



# **ACmaxx** Products



AC 3200J 92 x 92 x 38mm + 32 mm motor module



AC 4400FN 119 x 119 x 25 mm + 32 mm motor module



AC 4300 119 x 119 x 32 mm + 32 mm motor module

# **ACmaxx** Products



AC 6100NM 172 x 51mm + 32 mm motor module



AC 6200NM 172 x 51 mm + 32 mm motor module



AC 3200J
Customised induct fan
100 mm tube

