



because of the combined impact we can have on our earth, fcx salutes all companies and organizations that "go green."

EXPECT SOLID STATE: THE FCX ADVANTAGE

FCX Solid State vs Electric Rotary

- High efficiency (92% or better)
- Little to NO maintenance
- Less noise (less than 68 dba)
- Excellent frequency regulation
- Longer life expectancy (no moving parts)
- More Flexibility! Multiple inputs frequencies
- Keyboard control
- Cost saving of 30%
 - Save \$8,000* per unit on installation
 - Save \$3,000* per unit (per year) on maintenance
 - Save up to \$11,000* per unit (per year) on operations

*Based on a specific study of one unit for the US Navy. Results may vary.

Other advantages

- | | |
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| <ul style="list-style-type: none"> UL and CE approved Automatic phase lock 0.001% frequency drift 1% THD typical 0.5% Output modulation 20 mSec voltage recovery Simple diagnostics 55°C rated | <ul style="list-style-type: none"> Active DC buss bleeder Active load sharing (5% balance) No Break Power Transfers Low input current distortion Open front design Weather Proof enclosure available Coated circuit boards to prevent corrosion PWM 12 or 24 pulse design |
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www.fcxinc.com
304-983-0400

expect focus. expect the best.



systems for a sustainable world.



expect less cost.
expect less pollution.
expect more customer
satisfaction.



WHAT SETS FCX APART, IS THAT WE HAVE BEEN "GREEN FROM GO."

By investing in FCX Power and PC Air Technology, you can save **\$150,000 per gate per year** and **cut CO2 emissions by 85%** So go ahead, shut off the aircraft APU.

Save money and the environment. An FCX product will pay for itself within a year. Contact us today to find out more.

Expect it now, Expect it in the future. Expect green.

Since our inception, working towards a sustainable future has been a top priority for FCX. Not because it's a fad. Not because we are required. We are green because it makes sense. And since we are inherently green, it's something you can expect.



THE EXTERNAL APU DESIGN

Aircraft APUs are far too noisy, harmful to the environment, and expensive. FCX has the solution. FCX offers Electric and Diesel Units to handle all your cooling, heating, and power requirements.

FCX 3-in-1 Combination Units

Get the power and air requirements needed for your aircraft or fleet with ONE piece of equipment.

Key benefits of FCX all-in-one solutions:

- One unit: Total kW per hour is much less with FCX products and it beats having separate power and air units... One engine instead of two or three will do the job!
- One input cable
- Everything fits into one clean box that looks sharp
- Experience one of the Ground Support Industry's quickest ROI piece of equipment.

FCX Diesel External APU:

When electric power is not available, mobile units are a necessity. FCX diesel units use far less fuel, and produce far less emissions and noise when compared to aircraft APU units. Rest assured, we always implement the latest EPA standards into our design.

Key benefits of using FCX diesel solutions:

- Less maintenance, less components, fewer engines, less controls... you get the idea.
- Fewer service vehicles. Fewer accidents.
- Experience ROI in no time

Whether diesel or electric, FCX has the right product to fit your unique needs.

EXPECT GREEN BY DESIGN

FCX vs PC Air

We use VFD (Variable Frequency Drives) to soft start our PC Air Unit motors and produce the exact motor speeds needed for optimal performance. The soft start on the blower motor eliminates high inrush current.

We also use a VFD to control the blower motors on all units for increased power savings. The blower runs at maximum speed for large aircraft but reduces airflow when a smaller aircraft is being serviced, or when the unit is in the heating mode. The reduction in speed from the Wide Body mode to the Narrow Body mode is 60%.

VFD vs Dampers*

A unit using an outlet damper to lower the airflow would use **3 TIMES** the power of a unit using VFD to lower the airflow! Expect a savings of $21.12 - 6.72 = 14.4$ kW for every hour at Narrow Body mode! Expect even a greater savings in heating mode

*Based on a specific study of one unit for the US Navy. Results may vary.

