

EFFICIENCY UPGRADE FOR CENTRIFUGAL BLOWERS

Rigel™ Controls

20% Savings in Energy Usage when compared to Inlet Throttling

RIGEL Controls are engineered with the newest technologies, yielding cost effective, flexible and robust systems for multistage centrifugal blowers. Through energy savings, RIGEL Control units offer an accelerated payback on investment with added features that are unmatched by ordinary VFD's.

Benefits Include:

- Works with all plant control systems
- Meter-less flow control utilizing proprietary algorithms
- SCADA ready panels with Ethernet standard
- Pre-engineered design packages that greatly reduce electrical installation costs
- Automated monitoring to provide historical and real-time data for predictive maintenance
- Available on new systems and as an aftermarket upgrade

HOFFMAN & LAMSON utilizes the most current communication protocols and hardware to minimize the amount of cabling and wiring - which reduces installation and maintenance costs while providing advanced diagnostics and precise system control.

Power Consumption (kW) Rigel Controls vs. Inlet Throttling

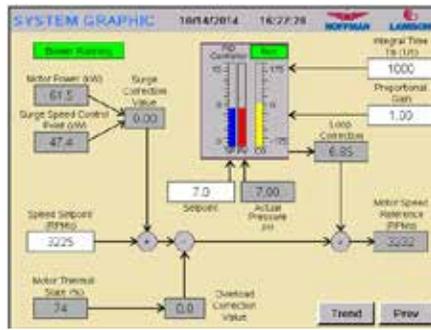
| INLET AIR TEMPERATURE | 100°F 38°C | SAVINGS | 65°F 18°C | SAVINGS | 30°F -1°C | SAVINGS |
|-----------------------------|------------------------------|----------------|--------------|-----------------|--------------|----------------|
| | TYPICAL SEASONAL FLUCUATIONS | | 20% | | 60% | |
| 6,000 SCFM (15%)* | 338 327 | \$118 | 340 302 | \$1,225 | 344 267 | \$827 |
| 5,000 SCFM (12.5%)* | 297 255 | | 299 233 | | 303 212 | |
| 4,000 SCFM (25.0%)* | 254 197 | \$1,429 | 255 179 | \$5,715 | 258 169 | \$2,231 |
| 3,000 SCFM (25.0%)* | 206 155 | | 207 145 | | 209 132 | |
| TOTAL SAVINGS | | \$3,148 | | \$13,901 | | \$6,166 |
| TOTAL ANNUAL SAVINGS | | | | \$23,214 | | |

- Inlet Throttled
- Rigel Controls

Assumptions:
 1. Blowers sized for 8 psi
 2. Electricity costs of \$0.06/kWhr
 3. Based on 8,000 operating hours
 * Typical demand fluctuations

Consideration of variable speed blower technologies must include full air-to-wire power consumption and maintenance costs to understand the full investment and payback period.





FEATURES THAT EXTEND BEYOND ENERGY SAVINGS

| | RIGEL | VFD W/PLC CONTROLS | VFD | CONSTANT SPEED |
|---|-------|--------------------|-----|----------------|
| Soft Start Capabilities | ✓ | ✓ | ✓ | \$ |
| Long Term Automation Migration Strategy Capable | ✓ | ✓ | \$ | \$ |
| SCADA Interfacing | ✓ | \$ | \$ | \$ |
| Web Enabled HMI Operator | ✓ | \$ | \$ | \$ |
| Gateway Communications Options | ✓ | \$ | \$ | \$ |
| Configurable Control Options | ✓ | \$ | \$ | \$ |
| Automatic Speed Control | ✓ | ✓ | \$ | |
| PID Control | ✓ | \$ | \$ | |
| Temperature Compensated Surge Protection | ✓ | \$ | | |
| Warrantied Blower Protection | ✓ | | | |
| Plug & Play Integrated Controls | ✓ | | | |

✓ = Standard Feature \$ = Available as an upgrade



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CF-C-RIGEL 8th Ed. 09/17

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