



Think Dustless
.com



KD
Integrated Mechanical Group

Up to 30,000 CFM ►

(2x) Belt Driven Centrifugal Fans

- Backward Inclined Exhaust
- Forward Curve Intake (Reduces Noise in the Workspace)
- Non-Sparking (Certified for Hazardous Location)
- Greasable Pillow Block Bearing Mounts

Bearings ►

Superior Strength & Durability

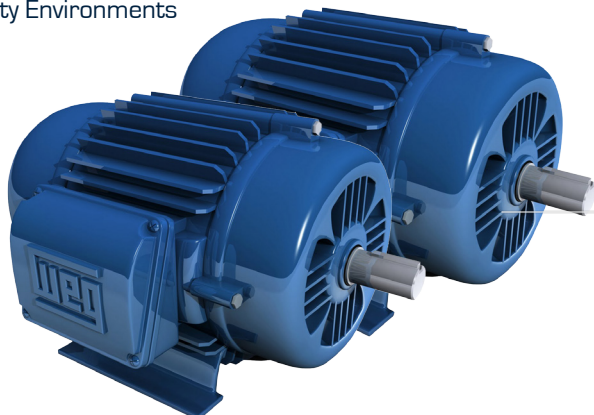
- Encapsulated Ball Bearing Design
- Designed for High Temperatures
- Easily Accessible Grease Fittings



▼ (2) TEFC Motors

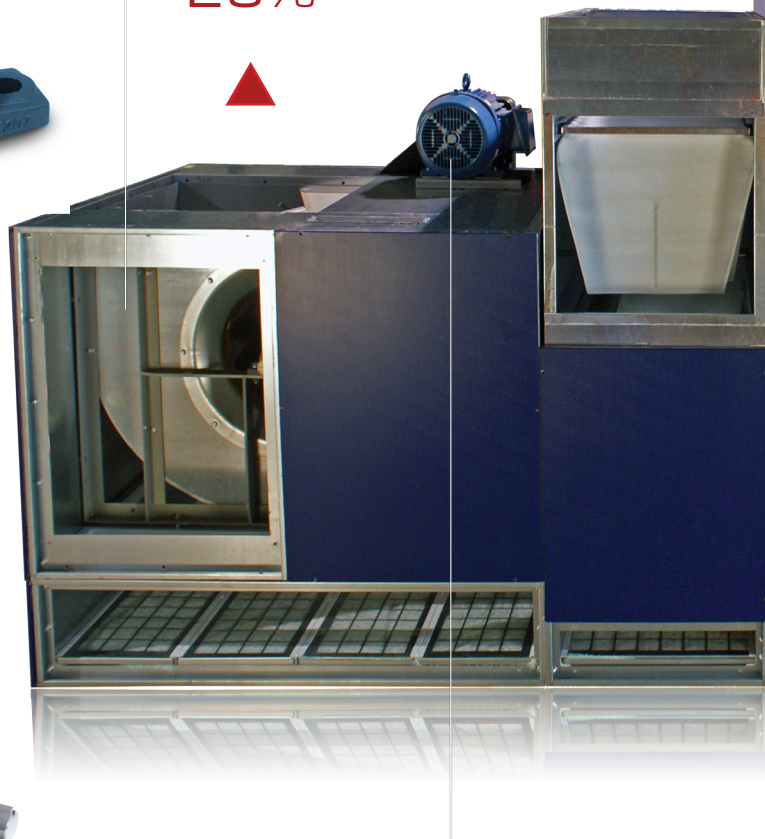
Weg® NEMA Premium Efficiency Motors

- (2x) Weg® TEFC Motors
- Totally Enclosed Fan Cooled Cast Iron Body
- Re-greaseable Ball Bearings
- 3 Phase 240V or 480V
- Rated for Continuous Operation In Hazardous Environments
- Designed for Dusty Environments



20% ▼

20% ▲



Direct
Fire



Save up to
30%*

Heat
Recycle



*All cost values & references are estimated and are not guaranteed.
Actual operating costs may vary.

◀ Clean & Energy Efficient

Pre-filtration, Re-filtration, Post-filtration

- Pre-filtration (Accepts Flat Insert or Bag Filtration Media)
- Post-filtration (Accepts Flat Insert or Bag Filtration Media)
- 80-90% Heat Recycle
- Includes Recycling Stage Re-filtration

When compared to basic heated air makeup units, the KD Integrated Air Mechanical Group can use up to 30% less energy. Integrated heat recycling connects intake and exhaust in one compact unit and provides the highest form of heat efficiency possible. Direct fired heat gives the KD mechanical group up to 99% fuel efficiency. This means that almost 100% of the gas being used is actually turning into heat. No more inefficient fume chimneys or heat exchangers and no more high/low temperature swings. The direct fire burner maintains an open flame and increases or decreases the flame's intensity depending on the temperature setting. Maintainable temperature accuracy can approach $\pm 1^\circ\text{F}$.

The KD Series is available in different sizes in order to produce the proper air volume and heating power for your workspace. Depending on the size and shape of the workspace being conditioned, the KD mechanical group is available in the following sizes.

10 HP / 14,000 CFM / 1.2M Btu/hr
15 HP / 20,000 CFM / 1.5M Btu/hr
25 HP / 30,000 CFM / 2.5M Btu/hr

All units provide from 80-100 °F temperature rise over ambient temperature in one pass through the burner. Three stages of filtration (prefiltration, post filtration, & recycle filtration) provide an ultra-clean spray environment and protect the life of fans & mechanical components from overspray and dust.



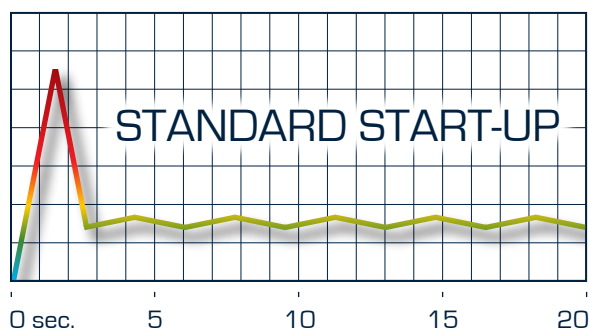
Burner ▶

- Computerized Burner Controls
- Direct Fire - 99% Heating Efficiency
- 900,000 - 2.5 Million Btu/hr
- Stainless Steel Burner Construction
- Natural Gas or Propane Fuel



SmartPad™ Controls ▶

- Digital Control Panel
- Digital PLC Controller
- Dual Modes for Standard and Waterborne Paint
- Allows for EnergySmart™ System with STANDBY



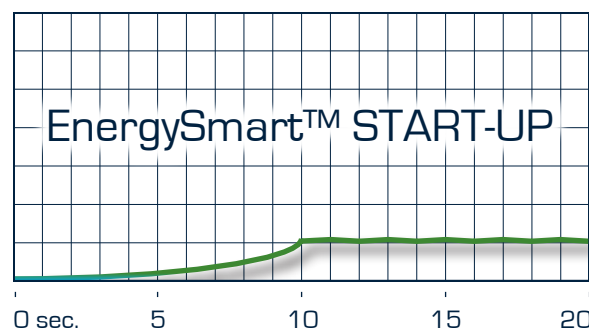
Standard Start-Up ▲

Traditional motor start-up causes a spike in power draw. Most utility companies charge a service factor and rate the facility according to the highest possible power draw.

For example: Motors that are rated for 25-30 Amps of running power may spike to over 100 Amps momentarily as the turbines wind up from a standstill. After a few seconds, the power draw levels out, but the damage has been done. The shop will now be charged according to the "spike" rate, not the lower running rate.

Amps

- 150 -
- 100 -
- 50 -



EnergySmart™ Start-Up ▲

With Accudraft's EnergySmart™ Feature, motors are gradually started in order to get the turbines spinning. Each VFD drive continues to increase each motor's speed until the proper amperage is reached. This eliminates the spike in power and can save 30% or more on electrical usage.

The SmartPad™ digital control panel gives the EnergySmart™ system two additional functions. First, the VFD drives automatically maintain pressure inside the spray area by adjusting turbine speeds accordingly. Second, the drives drop all motors to idle when the spray gun is not in use. This allows the system to run at full power only when the user is spraying and can save thousands in energy usage over the course of a year.



◀ EnergySmart™ VFD

Variable Frequency Drive System

Schneider
by Electric

- Save 30% or More on Electric Usage
- Automatic Pressure Control
- STANDBY Feature - Drops system to idle state when not in use
- Max quality for government energy rebates *

* All regions may not qualify. Rebate percentages may vary



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35

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