

EUROVAC VARIABLE FREQUENCY DRIVES

Significant Savings for your company and the environment

VFD Control Panels

(VFD - Variable Frequency Drive)

By adding a Variable Frequency Drive to high vacuum centrifugal blowers and high volume backward incline fans, **you will now automatically adjust your motor speed on user demand.**

There are many benefits to adding a VFD:

- Significantly reduced electric bills through reduced energy consumption
- Wear and tear on bearings, couplings and motor are reduced significantly by running at lower loads and RPM's resulting in extended blower life, less maintenance cost and downtime
- Helping to do your part to save our environment
- Further savings available from rebates offered by most energy suppliers
- Controlled ramp up speed so there are no "power spikes" resulting in more energy savings
- Balanced, accurate vacuum performance tailored specifically to the application
- Optional direct by-pass contact



VFD control panel screen displays continuous pump performance data (motor load, pump RPM, actual power usage)



High Vacuum Turbine Pump



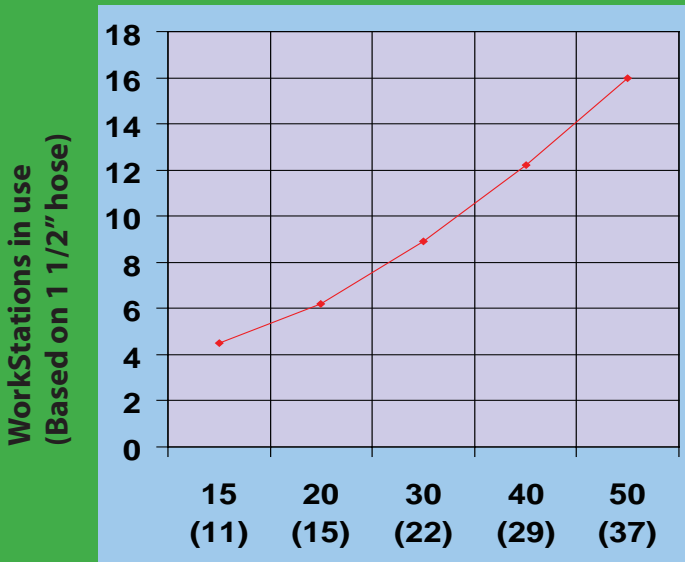
High Volume Backward Incline Fans

Significant Savings for your company and the environment

The following is an energy savings example based upon (see right):

- 50HP System with integrated VFD Control Panel
- Capability of 16 hoses (1 1/2") being used at the same time
- Vacuum shut off holsters available for each cleaning tool

50HP Example



Motor Load	Daily % Use	Normal Energy Kwh/yr	VFD Energy Kwh/yr	Energy Savings Kwh/yr
20	5	2470	42.9	2427.1
30	10	6136	280.8	5855.2
40	10	6630	676	5954
50	15	10686	1981.2	8704.8
60	15	11427	3412.5	8014.5
70	20	16588	7228	9360
80	15	13611	8092.5	5518.5
90	5	4823	3835	988
100	5	5070	5070	0
Totals	100	77442	30618.9	46822.1

YEARLY SAVING \$5,618.65

Based on estimated cost of \$0.12/hr and 2600 hrs of system usage/yr (Shut off holsters in use)

When comparing Normal Energy Usage to VFD Energy Usage, a 60% savings is a good estimate for all HP configurations.

No matter what the application, if you can shut off suction when not in use, you can save significantly with a VFD:



Vacuum Detailing
(Shut off holsters)



Industrial Applications
(Manual or Automatic Slide Gates)



Vehicle Exhaust
(Tail Pipe Adapters with Auto Shut Offs)



Dust Extraction
(Spring Loaded Vacuum Inlets)

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CANADA Toll Free 800-265-3878
Fax 905-738-4603
Web www.eurovac.com

116 Buttermill Ave, Concord, ON L4K 3X7

USA Ph. 800-265-3878
Fax 905-738-4603
Web www.eurovac.com

6295 Lear Nagle, Suite C, North Ridgeville, OH 44039