

Industrial Static Control

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# V-Force 30

NARROW WEB CLEANER



# V-Force 30

Simco-Ion's V-Force 30 narrow web vacuum system is a unique high performing industrial vacuum cleaning system for narrow web machines. The V-Force 30 combines the power of static neutralization with high vacuum, high volume and high velocity allowing for ultimate cleaning.

This powerhouse system includes a non-contact cleaning hood with active static neutralizing bars and a self-contained Air Control System with isolated particle collection in an all-in-one cabinet.

It can be easily installed onto any area of open web on most major narrow web presses and other narrow web machinery making it ideal for many applications.

## System Advantages

- Suitable for thin film applications
- Coaxial hose design minimizes connections
- Quiet operation (<70 dB)
- Minimal floor space
- Simple installation
- Rugged stainless steel construction
- Removable particle collection trays
- Easy replaceable filters
- Non-regenerative blower design

## Hood

V-Force 30's compact clam-shell hood design incorporates an optimized air management chamber that balances a high velocity air agitation curtain with dual optimized vacuum slots providing the highest efficiency clean.

The vacuum hood is low profile, designed for easy positioning within space constrained areas. The flexible hinged construction allows material to be thread through easily. The upper and lower hoods can also be separated, allowing for simple installation and maintenance.

The V-Force 30 hood integrates four barrier brushes to manage air velocity and air flow. It incorporates four shockless static bars to quickly neutralize and break the bond between charged particulate and the running web up to 2,000 ft per minute. This optimizes the cleaning performance and neutralizes the web surface. The hood is available for 6, 12, 18, 24 and 30 inch web widths.

## Mounting

Universal mounting points are included in the hood's design allowing for vertical or horizontal mounting options. Position locking or swivel brackets are available for flexible web entry mounting. Performance is not affected by mounting angle.

## Rollers

Can be customized for thin film support.



### Hood Specifications

Maximum Web Speed	2,000 ft/min, 610 m/min
Maximum Web Width	30", 762 mm
Minimum Web Thickness	1 mil (.001")
Duct Connections	3" coaxial vacuum/blow off
Static Control Active	110/240 VAC, 50/60 Hz
Mounting	Four 1/4 - 20 thread
Standard Opening	Manual with end hinges
Hood Widths	6, 12, 18, 24, 30
Hood Material	Mirrored stainless steel
Crosssection Dimensions	6.56" x 5.66"

# Air Control System

The V-Force 30 Air Control System (ACS) is an all-in-one clean air blow-off/vacuum and collector support cabinet that drives our cleaning hood. This industrial powerhouse provides optimal filtration and airflow. The ACS's stainless steel enclosure incorporates enhanced acoustic isolation for blower and vacuum chambers making for an extremely quiet operation.

This compact integrated vacuum and blow-off system is designed for easy mobility and a minimal footprint in applications with limited space.

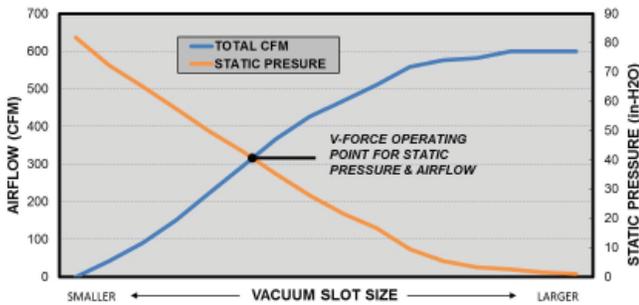
The Air Control System incorporates a non-regenerative blower design with dedicated turbines and filtered fresh air intake. No compressor needed. The quad turbine vacuum source is strategically designed so that there is no reduction of vacuum suction as each filter accumulates particles. Particle and dust collection trays are easily removable. HEPA filter optional.



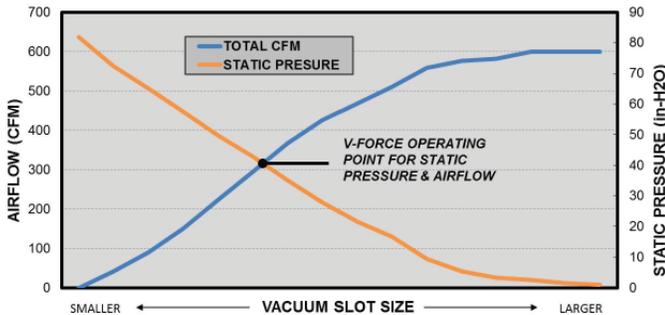
Air Control System

Blower and vacuum motor speeds are independently user controlled resulting in maximum system efficiency. Two variable controls for each the upper and lower hoods manage vacuum and blow off air generation.

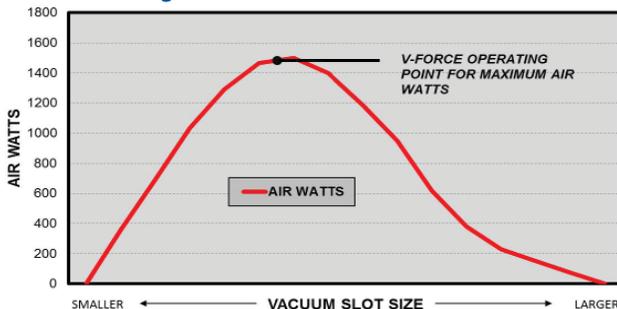
## Optimized Blower / Vacuum Velocity



## How To Make Peak Power



## Achieving Peak Power



## ACS Specifications

Maximum Amperage	230 V, 3-phase at 20A; 480 V, 3-phase at 10A
Decibel Rating	<70 dB at full operating speed
Remote Access	Remote on/off from PLC
Blow Off	Dedicated blow off turbine
Hose Diameter	3" outer, 1.25" inner
Dimensions	32"L x 22"W x 49"H
Turbines	6 motors - 80" H2O lift
Airflow	400 cfm vac; 200 cfm blow-off
Cabinet Material	Brushed stainless steel
Filter Ratings	Vacuum filter 2 µm; Blow-off filter 2 µm HEPA filter .3 µm

## Typical Applications

The V-Force 30 can be used in a wide variety of non-contact applications.

- Specialty films
- Printing & Bindery
- Plastics
- Packaging
- Labeling
- Laminating
- Converting
- Optical Coatings
- Food
- Medical

Contact your Simco-Ion Representative for more details.

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