

Processing Equipment, Inc

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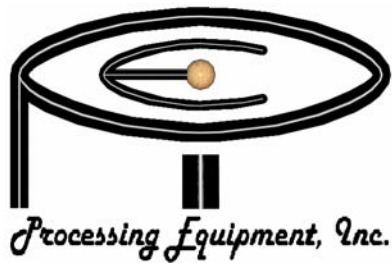
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Vertical Downflow Cartridge Collector

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Vertical Cartridge Down Flow

PROCESSING EQUIPMENTS' VERTICAL CARTRIDGE DOWN FLOW DUST COLLECTOR (VCDF SERIES) ARE DESIGNED TO PROVIDE EFFICIENT, COST EFFECTIVE CONTROL OF DRY DUSTS AND FUMES, GENERATED FROM SANDING, GRINDING, WELDING, LASER CUTTING, AND WOOD WORKING. INDUSTRIES SUCH AS METAL WORKING PLANTS, WOODSHOPS, PHARMACEUTICALS, AND FOUNDRIES. MATERIALS LIKE PLASTICS, RUBBER PRODUCTS, CERAMICS, AND POWDER COATING, AND MANY OTHER PROCESSES. TYPICALLY UTILIZED FOR CONTROL OF MODERATE TO HEAVY CONCENTRATIONS OF DRY CONTAMINANTS, THE VCDF SERIES COLLECTORS ARE PROVIDED WITH A SELF-CLEANING, PATENTED REVERSE PULSE DOWN FLOW FILTER CLEANING TO MINIMIZE MAINTENANCE AND REDUCE REPLACEMENT FILTER COSTS.

THE VCDF DUST COLLECTOR CAN BE CONFIGURED A FEW DIFFERENT WAYS, STANDARD IS WITH A LEG SUPPORTSTAND TO ACCOMMODATE A 55 GALLON DRUM, LEGS CAN BE REMOVED TO ADD A DUST DRAWER OR A HOPPER CAN ACCOMMODATE A ROTARY AIR LOCK. INLET AIR CONFIGURATION WOULD BE TOP DOWN AS STANDARD WITH AN OPTION FOR A SIDE INLET FOR APPLICATIONS GENERATING SPARKS OR ABRASIVE AIR INLET FOR ABRASIVE DUSTS. THE STANDARD BLOWER IS AN IN-LINE CENTRIFUGAL FAN MOUNTED ON THE OUTLET OF THE COLLECTOR.

THE NUMBER OF CARTRIDGES CAN VARY FROM 4 TO 32 WITH BLOWERS TO DELIVER IN THE RANGE OF 1,000 TO 16,000 CFM. OTHER CARTRIDGE AND BLOWER SIZES ARE AVAILABLE.

90 DEGREE FILTER CARTRIDGE ROTATION IS NOT REQUIRED MAINTENANCE DUE TO THIS TRUE DOWN FLOW AIR DESIGN.

Features

- SMALL TUBE SHEET DESIGN
- ONE FILTER STACK PER 3/16" THICK STEEL PLATE
- TUBE SHEET IS SEAM WELDED TO CLEAN AIR PLENUM WHICH ELIMINATES DISTORTION AND DUST BYPASS.
- CARTRIDGE FILTERS ARE ARRANGED IN THE VERTICAL POSITION TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE FILTER AND CONSISTENCY IN THE AIR TO CLOTH RATIO FOR EACH FILTER
- CARTRIDGE FILTERS ARE SECURED EXTERNALLY WITH A LOCKING DEVICE TO ELIMINATE PROCESS AND CLEAN AIR RESTRICTIONS
- DOWN FLOW VERTICAL CARTRIDGE DESIGNED FOR:
 - UNIFORM LOADING OF FILTERS
 - MINIMIZED FILTER MEDIA ABRASION
 - DOWN FLOW PROCESS AIR ENHANCES FILTER CLEANING IN A DOWNWARD DIRECTION TOWARD HOPPER
 - AREA BELOW CARTRIDGES HAS NO AIRFLOW WHICH ACTS AS A TRUE SETTLING CHAMBER FOR DUST TO FALL OUT OF THE AIR STREAM INTO THE HOPPER. PROCESS AIR NEVER REACHES HOPPER SO RE-ENTRAINMENT NEVER OCCURS.
- **Filter area is not reduced compared to horizontally mounted cartridges where 22% to 25% of the top of the filter is blocked from dust settling.**

Options

- REMOTE OR FLOOR MOUNTED BLOWERS
- BLOWER EXHAUST SILENCERS
- VARIETY OF CARTRIDGE MEDIA
- ELECTRONIC PULSE CONTROLLER
- EXPLOSION DOOR WITH LATCHES
- DUST DRAWER OR LEG SUPPORT MODIFICATIONS
- SPRINKLER HEADS
- ROTARY AIR LOCKS
- ELECTRIC MOTOR STARTERS

Model #	# of Filters	Sq. Ft. Media	Dimensions HxWxD (in.)	Weight
VCDF-2	4	1 0 1 6	155.125 x 32 x 44.75	1160
VCDF-3	6	1 5 2 4	171.25 x 80 x 24	1888
VCDF-4	8	2 0 3 2	158.125 x 63.75 x 33	1790
VCDF-6	12	3048	171.25 x 83.75 x 33.25	2465
VCDF-9	18	4572	171.25 x 88.75 x 48.25	3395
VCDF-12	24	6096	191 x 105.78 x 48.25	4050
VCDF-16	32	8128	189.25 x 105.78 x 64.25	5025