

# AMTECH<sub>LC</sub> ATV SERIES DUST COLLECTORS



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## ATV SERIES ADVANTAGES

### CARTRIDGE AIR CLEANING

Contaminated air is drawn through high-efficiency cartridge filters, where the particulate is collected on the outside of the media. Filtered air is pulled down through the system and exhausted. Standard units feature Venturi reverse pulse cleaning systems to extend filter life and decrease costs.

### HIGH-PERFORMANCE CARTRIDGES

With a 99.7% efficiency rating for submicron (0.5) particulate, extra-large circular filters are vertically oriented for uniform dust loading and efficient cleaning.

### EFFICIENCY

The ATV Series utilizes a patented downflow/vertical design to ensure consistent filtration and efficient dust handling. Many competitors' products operate with a high level of re-entrainment, which means that energy and filter life are wasted by repeated collecting of the same dust.

### SIZE AVAILABILITY

The ATV Series is designed with a full range of capacities for a vast array of applications. From the ATV-2S with 2 cartridges to the ATV-128 with 128 cartridges, every ATV Dust Collector has the media capacity and optimal filtering velocity for every type of contaminant and process.

### POWERFUL CLEANING

The patented Venturi assisted design optimizes reverse jet pulse cleaning and increases filter life. With three available methods to initiate the filter cleaning cycle, every ATV Dust Collector is equipped with the control system that best fits the application.

### IMPROVED FAN OPERATION

Venturi and innovative cylindrical fan housing increases performance, attenuates noise, simplifies maintenance and eliminates the need for a discharge damper.

### EASE OF MAINTENANCE

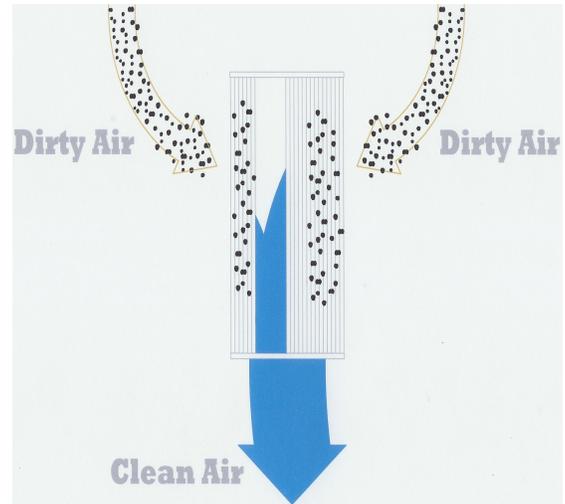
Outstanding design features combine to promote longer filter life. Easy access allows each filter to be changed within several minutes.

### SPACE ECONOMY

The downflow/vertical design has a smaller footprint than comparable units with horizontal filters.

### ROCK-SOLID INDUSTRIAL CONSTRUCTION

ATV Dust Collectors are built for durability and reliability with 11 gauge steel fabrication and welded seams and joints.



## FROM A LEADER IN CLEAN AIR TECHNOLOGY

Amtech LC is an Industry Leader in manufacturing highly efficient, low maintenance, cost effective solutions for dust and fume control. Amtech LC has designed state of the art Dust Collectors which utilize a patented down flow design, and is proud to have placed units with Manufacturing Leaders, such as:

John Deere	Siemens	Airgas
Emerson	Toyota	Electrolux
Arvin Meritor	Case	Raben Tire
TVA	Rockwell	Martinrea



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## HOW ATV SERIES DUST COLLECTORS OPERATE

Contaminated air enters the collector above the filter cartridges. Specially designed components in the cabinet uniformly distribute the contaminated air across the top of the filters. The contaminated air flows downward at a steady velocity. Dust is conveyed to the settling area below the filters by both air flow and gravity. Extremely small particulate is collected on the filter media, allowing clean air to return to the workplace or outside environment. Once particulate collection on the filters is sufficient to reduce air flow, the patented reverse jet pulse cleaning system propels the collected dust off of the filters and into the settling area.

## DOWNFLOW

The ATV Series downflow/verticle design produces zero velocity at the base of each filter stack, allowing the dust to settle uninhibited below the cartridges, thereby eliminating re-entrainment.

## CARTRIDGE FILTERS

The standard 80% cellulose 20% polyester cartridge media is high in resin content to provide mechanical resilience, and has pleat-lock construction. Standard cartridges are rated for temperature up to 160 degrees Fahrenheit. High temperature cartridges are also available.

## DUST SETTLING

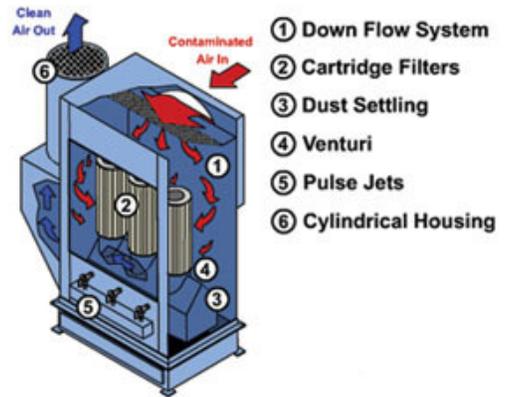
The ATV Series design allows larger dust contaminants to have a clear path to the dust settling area and finer particles to be collected by the filters.

## VENTURI

Venturi reverse pulse cleaning is the quick release of pressure through a blowtube into a venturi enductor tube into a cartridge filter. A higher volume of air is induced via this principle. The resulting burst of compressed air is more equally dispersed across the filter resulting in greater cleaning effectiveness compared to typical reverse pulse cleaning.

## PULSE JETS

Pulse jet performance and economy are maximized by Optimizing the orifice size and position. There are four methods of initiating jet pulse cleaning to best fit each application.



## CYLINDRICAL FAN HOUSING

The motor, fan and inlet cone are packaged into a tubular centrifugal fan arrangement for greater performance, quieter operation and simplified maintenance.

## DUST COLLECTION EFFICIENCY

The major obstacle to dust collection efficiency is re-entrainment, the re-filtering of dust that has been stirred up prior to settling. The goal is to dislodge the dust from the filter and allow it to settle in the hopper below.

The ATV Series utilizes patented downflow/verticle technology to minimize re-entrainment and extend filter life. Carefully managed inlet air velocity ensures that the air only flows downward, never upward or sideways. This prevents air movement below the filters where the dust has settled and results in effective cleaning while the dust collector is operating and shut down.



## Amtech<sub>LC</sub> ATV Dust Collector Specifications

Amtech Model	Filters	Sq. Ft. Media	Hoppers	Standard Height in.	Standard Width in.	Standard Depth in.	Unit Weight lbs.
ATV-2S	2	508	1	144 5/8	42 1/4	55 5/16	1,100
ATV-4S	4	1,016	1	152 3/16	42 1/4	55 5/16	1,650
ATV-4	4	1,016	1	152 3/16	42 1/4	55 5/16	1,200
ATV-6	6	1,524	1	166 3/16	84 7/8	40 13/16	1,900
ATV-8	8	2,032	1	159 3/8	76 1/16	49 1/4	2,000
ATV-12	12	3,048	1	166 3/19	86 1/8	62 1/8	2,600
ATV-18	18	4,572	1	177 1/16	96 3/16	69 1/4	3,550
ATV-24	24	6,096	1	188 7/8	113 9/16	70 1/4	4,200
ATV-32	32	8,128	1	202 3/16	115 3/14	90 1/4	5,200
ATV-40	40	10,160	2	188 7/8	115 3/4	110 1/4	5,025
ATV-48	48	12,192	2	189 3/4	130 1/4	96 5/16	5,690
ATV-56	56	14,224	2	194 3/16	150 1/4	96 5/16	6,400
ATV-64	64	16,256	2	203 3/8	170 1/4	96 5/16	7,000
ATV-72	72	18,288	2	189 3/4	190 1/4	96 5/16	7,800
ATV-80	80	20,320	3	191 3/4	210 1/4	96 5/16	8,600
ATV-96	96	24,384	4	189 3/4	260 1/2	96 5/16	11,000
ATV-112	112	28,448	4	194 3/4	300 1/2	96 5/16	12,800
ATV-128	128	32,512	4	203 3/8	340 1/2	96 5/16	14,900

Notes: 1) Models ATV-2S thru ATV-40 dimensions & weights include standard top mount blowers & top inlets.  
 2) Models ATV-48 thru ATV-128 dimensions & weights do not include ground mount/remote blowers.  
 3) All dimensions & weights include hopper/leg sets for a 55-gallon drum base.

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