

AIRTECH[®] VACUUM

ISO 9001-2008
CERTIFIED



ATV SERIES

INDUSTRIAL DUTY
ROTARY VANE VACUUM PUMPS

AIRTECH, INC.

Established in 1982, Airtech Inc. is a leading global manufacturer and supplier of vacuum pumps, blowers, and compressors. In addition to a broad range of ready-to-ship products, we have the experience, expertise, technology, and design capabilities to quickly develop customized solutions for our customers.

Continuing in the Airtech tradition of customized solutions, another quality product has been added to the Airtech vacuum line

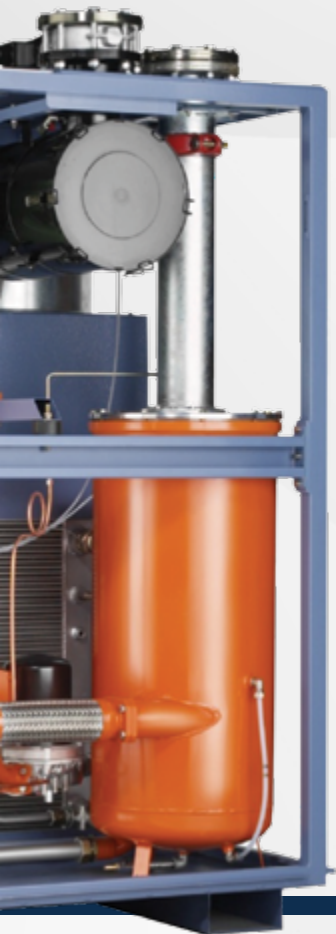
of products. The ATV series of rotary vane vacuum pumps are rugged, single stage, air-cooled, and direct driven. They are designed to handle the most demanding industrial applications. The ATV's robust design offers longevity not found in today's oil lubricated vacuum pump technologies including, rotary vane, screw type, and rotary piston. The ATV excels where others vacuum pumps fail and backed by our (5) year warranty with factory service plan.

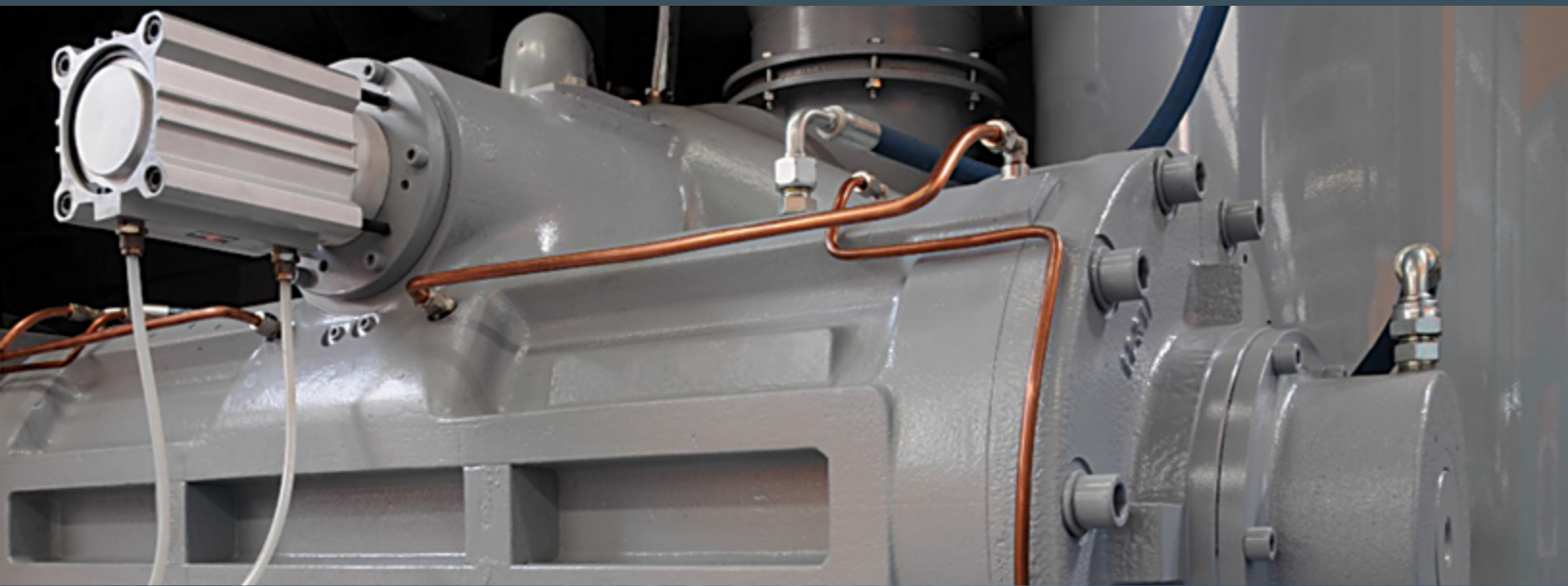
ATV SERIES | Sustainable Vacuum Generation

Features Include:

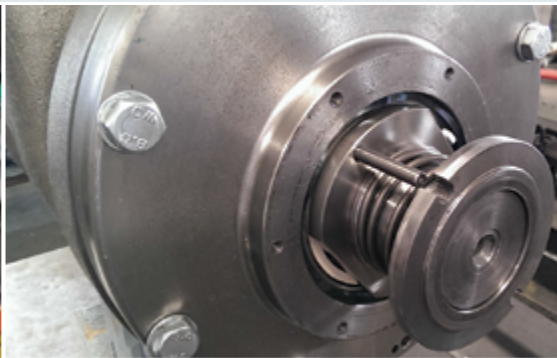
- Advanced air cooled design including temperature controlled fan allows for proper operation under any ambient condition.
- High water handling capabilities
- Intelligent control - Integrated HMI control with VFD
- Capacities up to 4000 CFM
- Vacuum level to 2 torr - (0.1 torr)*
- Special aluminum alloy vanes provide no wear
- Ease of installation as no special foundation are required. All accessories included for "plug and play."
- Variable speed option available for energy savings
- Low noise level
- Waste heat recovery available
- ATV pumps are designed for 20 years between rebuild
- Five (5) year warranty with factory service plan

* with AD Series booster





Oversized hardened high temperature roller bearings. Seven (7) vane rotary design compared to standard rotary van pumps with three (3) vanes. The ATV pumps are designed for 20 years plus between rebuilds if maintained per factory recommended maintenance schedule.



Mechanical seals are used in place of Viton lip seals on OEM type pumps typically supplied with food processing equipment.



The ATV superior oil lubrication/sealing system ensures maximum performance. Temperature sensors are built-in to maintain correct operating temperature independent of the ambient temperature. Automated shutdown occurs in case of high operating temperature preventing catastrophic failure.

Sound Insulated Enclosure

It reduces sound level as low as 68 dB(A). Lift out panels allow for easy maintenance access and enhanced appearance.

Fabricated Steel Base

Fabricated steel base with forklift holes allows for easy handling and installation.



Heat Duct

Heat load from unit can be ducted out of installation area. A water cooled option is available.



Highly Efficient Oil Mist Separator

The generously sized oil mist separator system guarantees long intervals between demister filter replacement. Optimal performance even operating close to atmospheric pressure is controlled by the inlet throttle valve.

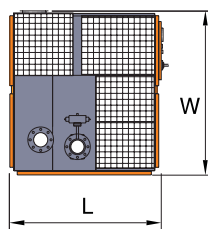
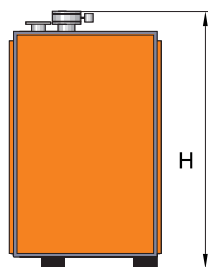
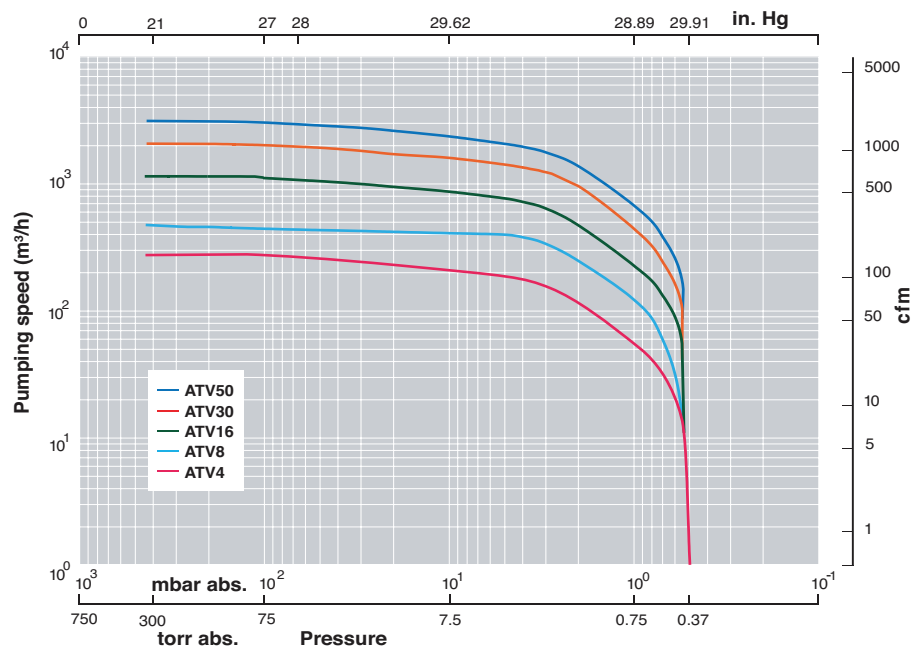


Airtech AD series of vacuum boosters are designed for use with ATV vacuum pumps.

Key Features

- Pump down times reduced up to 50%
- Continuous operation at all pressure due to integral bypass valve
- Vertical flow for self draining
- Quiet, vibration-free operation
- Reduce capital and operating cost

■ PERFORMANCE CURVES



■ DIMENSIONS

	ATV 8	ATV 16	ATV 30	ATV 50
Length (inches)	52.40	54.50	89.40	105.00
Width (inches)	26.75	50.50	57.00	59.00
Height (inches)	70.00	70.00	81.00	88.60
Weight (lbs.)	1,719	2,359	3,968	4,630

■ TECHNICAL DATA

		ATV 8	ATV 16	ATV 30	ATV 50
		60 Hz	60 Hz	60 Hz	60 H
Capacity	cfm	335	700	1,275	2,000
Maximum vacuum	torr	2 - (0.1)*	2 - (0.1)*	2 - (0.1)*	2 - (0.1)*
Pump motor	HP	20	40	75	125
Rotation speed	rmp	1,750	1,750	1,750	1,750
Fan Motor	HP	0.16	0.6	1.2	1.6
Intake connection		4"	5"	6"	8"
Discharge connection		3"	5"	6"	6"
H-Model Water Vapor Handling Capacity at 90 Torr in lbs/hour		83	171	327	470
Noise Level	dB(A)	69	70	77	79

* with AD Series booster

APPLICATIONS

FOOD PACKAGING

Centralized Vacuum System For Food Packaging

- » Eliminate OEM pumps mounted at the packaging line in the processing room
- » Reduced maintenance with central system
- » Increased packaging speed
- » The ATV pump performance is not impacted by water

Improved Food Safety

- » Remove the hot vacuum pumps from the processing room
- » No more “smoke” from vacuum pumps in the processing room
- » Eliminate downtime due to vacuum pump service at the packaging machine
- » Centralized vacuum system can be serviced without entering the processing room



Floor-mounted boosters



Pump-mounted boosters



Eliminate need for vacuum pump washdown in the processing room



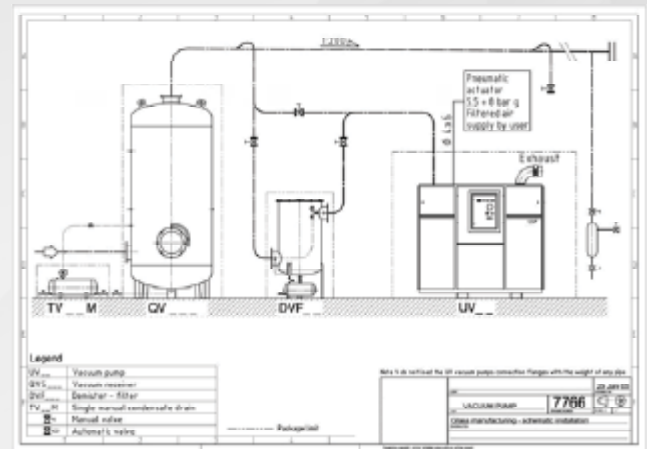
EVISCERATION

Eliminate Liquid Ring Vacuum Pumps

- » Reduce power consumption by a minimum of 30%
- » Waterless technology saves millions of gallons of water and eliminates water treatment cost
- » No cooling tower needed
- » Constant vacuum level independent of ambient temperature

HOLLOW GLASS (Bottles and Containers)

- » Designed for decades of trouble free service
- » Waterless vacuum pump solution
- » Reduced power consumption
- » Constant vacuum level
- » Increase productivity
- » Improved heat removal
- » Better embossing details with deeper vacuum
- » Less glass needed
- » Minimizes rejected product



■ Typical ATV installation in hollow glass industry



EPS/STYROFOAM

Eliminate Liquid Ring Vacuum Pumps

- » 50-70% power savings
- » Reduce water consumption
- » Shorter cycle time due to deeper vacuum
- » Removes more moisture in product
- » Higher strength EPS due to better weld between EPS beads
- » Higher yield rate



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