

AIR FLOW VAC – AIR CONVEYOR

The **Air Flow Vac** or **Air Conveyor** utilizes compressed air for a powerful, efficient venturi action along its length in a compact design for high capacity **conveying** over large distances. Available in both coated aluminium or high temperature stainless steel. Air Flow Vac is of ring shape, in which simply clamp a standard hose size to each end of the **AIR FLOW VAC** to create this high energy conveying system. No moving parts for maintenance free operation with capacity and flow controlled with a pressure regulator.

The ring shaped **AIR FLOW VAC** System is available in 3/8" (9.5 mm), 1/2" (12.7mm), 3/4" (19 mm), 1" (25mm), 1-1/4" (32mm), 1-1/2" (38mm), 2" (51mm), 2-1/2" (64mm), 3" (76mm), 4" (101.6mm) and 5" (127 mm) sizes. Any size beyond that can be prohibitive for most applications due to high compressed air requirements. In addition, beyond 5", the vacuum ability begins to drop significantly except for highly intermittent applications. For applications beyond 3", a blower system often becomes far more economical except in a rare number of possible applications.

Application

Typical applications replace expensive, high maintenance blower systems and are particularly advantageous in intermittent applications.

Application	Description
Automotive:	Convey all sorts of items from ball bearings, screws, metal and plastic parts from machinery, moulding machines in manufacturing and in assembly operations.
Bottling:	Loading and conveying caps in bottle filling lines.
Food:	Convey caps, small items including food items from cheese bits to dried food. Fill or empty packaging material in shipping.
Pharmaceutical:	Convey pills, capsules, and tablets.
Plastic:	Trim removal in converting applications.
Textile:	Thread conveying.
Paper:	Trim removal in paper production.
Printing:	Blow off of chemicals or water prior to labelling or packaging.
General Manufacturing:	Waste trim removal in printing applications.

Advantages

- Longer life in difficult environments than competitive models.
- Simple and easy control of material flow.
- Ease of use.
- Maintenance free operation.
- Instant ON/OFF with no moving parts, no electricity or explosion hazard.

Features

- The ring-shaped Air Conveying System is made of a coated aluminium body with no moving parts. Stainless steel models are available for high temperature and corrosive applications.
- Utilizing a pressure regulator will control the flow of material.
- Standard sizes to fit standard hose diameter for easy clamping. Threaded versions connect easily to regular pipe thread: 1" (25mm), 1-1/4" (32mm), 1-1/2" (38mm), 2" (51mm), 2-1/2" (64mm), and 3" (76mm). Special sizes can be manufactured if required.

Model Selection:

MODEL				Specifications		
Aluminium	Aluminium Threaded	Steel	Steel Threaded	Size Outside Diameter Inches (mm)	Air Consumption SCFM at 80 PSI G	Vacuum Inches H2O (KPG)
AIR-CONV38		AIR-CONV038S		3/8" (9.5 mm)	5.3 (150)	-120 (-30)
AIR-CONV12		AIR-CONV012S		1/2" (12.7mm)	6.7 (190)	-100 (-25)
AIR-CONV00		AIR-CONV00S		3/4" (19 mm)	10.6 (301)	-68(-17)
AIR-CONV01	AIR-CONV01T	AIR-CONV01S	AIR-CONV01TS	1" (25mm)	15 (415)	-42 (-11)
AIR-CONV02	AIR-CONV02T	AIR-CONV02S	AIR-CONV02TS	1-1/4" (32mm)	26 (730)	-42 (-11)
AIR-CONV03	AIR-CONV03T	AIR-CONV03S	AIR-CONV03TS	1-1/2" (38mm)	33 (932)	-36 (-9)
AIR-CONV04	AIR-CONV04T	AIR-CONV04S	AIR-CONV04TS	2" ((51mm)	45 (1270)	-28 (-7)
AIR-CONV05	AIR-CONV05T	AIR-CONV05S	AIR-CONV05TS	2-1/2" (64mm)	58 (1650)	-23 (-6)
AIR-CONV06	AIR-CONV06T	AIR-CONV06S	AIR-CONV06TS	3" (76mm)	68 (1935)	-14.5 (-4)
AIR-CONV07	AIR-CONV07T			4" (101.6mm)	95 (2690)	(-13.6) -3.4
AIR-CONV08	AIR-CONV08T			5" (127 mm)	126.1 (3570)	(-10.4) -2.6

AIRMASTERS AIR VAC AIR-CONV038 / CONV038S

Air Conveyors – AIR FLOW VAC Pneumatic Conveying Systems are available in coated Aluminium, stainless steel and in high temperature stainless steel for high temperature applications. Note: All our stainless steel high temperature Ring-Vac units are rated to 1200°F (649°C) Special materials can be utilized for unique applications. If greater conveying force is required the conveying “generator” can be machined for higher capacities. Common applications include hopper loading (resin in the plastic industry, bottle caps in bottling), material conveying of all sorts, waste and trim removal, transferring parts from one location to another, chip removal, tensioning fiber, and in filling operations.



Air consumption at 5.5 Bar	150 l/min
Internal diameter	5 mm
External diameter	9,5 mm
Connection type	Female 1/8"
Vacuum inches	-30.0 kPa
Material	Aluminum or stainless steel

AIRMASTERS AIR VAC AIR-CONV012 / CONV012S

Air Conveyors – Air Flow Vac Pneumatic Conveying Systems are available in coated Aluminium, stainless steel and in high temperature stainless steel for high temperature applications. Note: All our stainless steel high temperature Ring-Vac units are rated to 1200°F (649°C) Special materials can be utilized for unique applications. If greater conveying force is required the conveying “generator” can be machined for higher capacities. Common applications include hopper loading (resin in the plastic industry, bottle caps in bottling), material conveying of all sorts, waste and trim removal, transferring parts from one location to another, chip removal, tensioning fiber, and in filling operations.



Air consumption at 5.5 Bar	190 l/min
Internal diameter	8 mm
External diameter	12,7 mm
Connection type	Female 1/8"
Vacuum inches	-25.0 kPa
Material	Aluminum or stainless steel

AIRMASTERS AIR VAC AIR-CONV00 / CONV00S

Air Conveyors – Air Flow Vac Pneumatic Conveying Systems are available in coated Aluminium, stainless steel and in high temperature stainless steel for high temperature applications. Note: All our stainless steel high temperature Ring-Vac units are rated to 1200°F (649°C) Special materials can be utilized for unique applications. If greater conveying force is required the conveying “generator” can be machined for higher capacities. Common applications include hopper loading (resin in the plastic industry, bottle caps in bottling), material conveying of all sorts, waste and trim removal, transferring parts from one location to another, chip removal, tensioning fiber, and in filling operations.



Air consumption at 5.5 Bar	301 l/min
Internal diameter	14 mm
External diameter	19 mm
Connection type	Female 1/4"
Vacuum inches	-17 kPa
Material	Aluminum or stainless steel

AIRMASTERS AIR VAC AIR-CONV01 / CONV01T / CONV01S / CONV01TS

Air Conveyors – Air Flow Vac Pneumatic Conveying Systems are available in coated Aluminium, stainless steel and in high temperature stainless steel for high temperature applications. Note: All our stainless steel high temperature Ring-Vac units are rated to 1200°F (649°C) Special materials can be utilized for unique applications. If greater conveying force is required the conveying “generator” can be machined for higher capacities. Common applications include hopper loading (resin in the plastic industry, bottle caps in bottling), material conveying of all sorts, waste and trim removal, transferring parts from one location to another, chip removal, tensioning fiber, and in filling operations.



Air consumption at 5.5 Bar	413 l/min
Internal diameter	19 mm
External diameter	25,4 mm
Connection type	Female 1/4" BSP
Vacuum inches	-12 kPa
Material	Aluminum or stainless steel

AIRMASTERS AIR VAC AIR-CONV02 / CONV02T / CONV02S / CONV02TS

Air Conveyors – Air Flow Vac Pneumatic Conveying Systems are available in coated Aluminium, stainless steel and in high temperature stainless steel for high temperature applications. Note: All our stainless steel high temperature Ring-Vac units are rated to 1200°F (649°C) Special materials can be utilized for unique applications. If greater conveying force is required the conveying “generator” can be machined for higher capacities. Common applications include hopper loading (resin in the plastic industry, bottle caps in bottling), material conveying of all sorts, waste and trim removal, transferring parts from one location to another, chip removal, tensioning fiber, and in filling operations.



Air consumption at 5.5 Bar	728 l/min
Internal diameter	25,4 mm
External diameter	31,7 mm
Connection type	Female 1/4"
Vacuum inches	-13 kPa
Material	Aluminum or stainless steel

AIRMASTERS AIR VAC AIR-CONV03 / CONV03T / CONV03S / CONV03TS

Air Conveyors – Air Flow Vac Pneumatic Conveying Systems are available in coated Aluminium, stainless steel and in high temperature stainless steel for high temperature applications. Note: All our stainless steel high temperature Ring-Vac units are rated to 1200°F (649°C) Special materials can be utilized for unique applications. If greater conveying force is required the conveying “generator” can be machined for higher capacities. Common applications include hopper loading (resin in the plastic industry, bottle caps in bottling), material conveying of all sorts, waste and trim removal, transferring parts from one location to another, chip removal, tensioning fiber, and in filling operations.



Air consumption at 5.5 Bar	930 l/min
Internal diameter	28,6 mm
External diameter	38,1 mm
Connection type	Female 3/8" BSP
Vacuum inches	-11 kPa
Material	Aluminum or stainless steel

AIRMASTERS AIR VAC AIR-CONV04 / CONV04T / CONV04S / CONV04TS

Air Conveyors – Air Flow Vac Pneumatic Conveying Systems are available in coated Aluminium, stainless steel and in high temperature stainless steel for high temperature applications. Note: All our stainless steel high temperature Ring-Vac units are rated to 1200°F (649°C) Special materials can be utilized for unique applications. If greater conveying force is required the conveying “generator” can be machined for higher capacities. Common applications include hopper loading (resin in the plastic industry, bottle caps in bottling), material conveying of all sorts, waste and trim removal, transferring parts from one location to another, chip removal, tensioning fiber, and in filling operations.



Air consumption at 5.5 Bar	1220 l/min
Internal diameter	44,5 mm
External diameter	50,8 mm
Connection type	Female 3/8" BSP
Vacuum inches	-8 kPa
Material	Aluminum or stainless steel

AIRMASTERS AIR VAC AIR-CONV05 / CONV05T / CONV05S / CONV05TS

Air Conveyors – Air Flow Vac Pneumatic Conveying Systems are available in coated Aluminium, stainless steel and in high temperature stainless steel for high temperature applications. Note: All our stainless steel high temperature Ring-Vac units are rated to 1200°F (649°C) Special materials can be utilized for unique applications. If greater conveying force is required the conveying “generator” can be machined for higher capacities. Common applications include hopper loading (resin in the plastic industry, bottle caps in bottling), material conveying of all sorts, waste and trim removal, transferring parts from one location to another, chip removal, tensioning fiber, and in filling operations.



Air consumption at 5.5 Bar	1630 l/min
Internal diameter	55,6 mm
External diameter	63,5 mm
Connection type	Female 3/8" BSP
Vacuum inches	-7 kPa
Material	Aluminum or stainless steel

AIRMASTERS AIR VAC AIR-CONV06 / CONV06T / CONV06S / CONV06TS

Air Conveyors – Air Vac Pneumatic Conveying Systems are available in coated Aluminium, stainless steel and in high temperature stainless steel for high temperature applications. Note: All our stainless steel high temperature Ring-Vac units are rated to 1200°F (649°C) Special materials can be utilized for unique applications. If greater conveying force is required the conveying “generator” can be machined for higher capacities. Common applications include hopper loading (resin in the plastic industry, bottle caps in bottling), material conveying of all sorts, waste and trim removal, transferring parts from one location to another, chip removal, tensioning fiber, and in filling operations.



Air consumption at 5.5 Bar

1910 l/min

Internal diameter

68 mm

External diameter

76,2 mm

Connection type

Female 1/2"

Vacuum inches

-5 kPa

Material

Aluminum or stainless steel

www.air-masters.eu info@air-masters.eu Tel. +44 8006893125

AIRMASTERS AIR VAC AIR-CONV07 / CONV07T

Air Conveyors – Air Flow Vac Pneumatic Conveying Systems are available in coated Aluminium, stainless steel and in high temperature stainless steel for high temperature applications. Note: All our stainless steel high temperature Ring-Vac units are rated to 1200°F (649°C) Special materials can be utilized for unique applications. If greater conveying force is required the conveying “generator” can be machined for higher capacities. Common applications include hopper loading (resin in the plastic industry, bottle caps in bottling), material conveying of all sorts, waste and trim removal, transferring parts from one location to another, chip removal, tensioning fiber, and in filling operations.



Air consumption at 5.5 Bar	2690 l/min
Internal diameter	95 mm
External diameter	101.60 mm
Connection type	Female 1/2"
Vacuum inches	-3.4 kPa
Material	Aluminum or stainless steel

AIRMASTERS AIR VAC AIR-CONV08 / CONV08T

Air Conveyors – Air Flow Vac Pneumatic Conveying Systems are available in coated Aluminium, stainless steel and in high temperature stainless steel for high temperature applications. Note: All our stainless steel high temperature Ring-Vac units are rated to 1200°F (649°C) Special materials can be utilized for unique applications. If greater conveying force is required the conveying “generator” can be machined for higher capacities. Common applications include hopper loading (resin in the plastic industry, bottle caps in bottling), material conveying of all sorts, waste and trim removal, transferring parts from one location to another, chip removal, tensioning fiber, and in filling operations.



Air consumption at 5.5 Bar

3570 l/min

Internal diameter

121 mm

External diameter

127 mm

Connection type

Female 1/2"

Vacuum inches

-2.6 kPa

Material

Aluminum or stainless steel

www.air-masters.eu info@air-masters.eu Tel. +44 8006893125