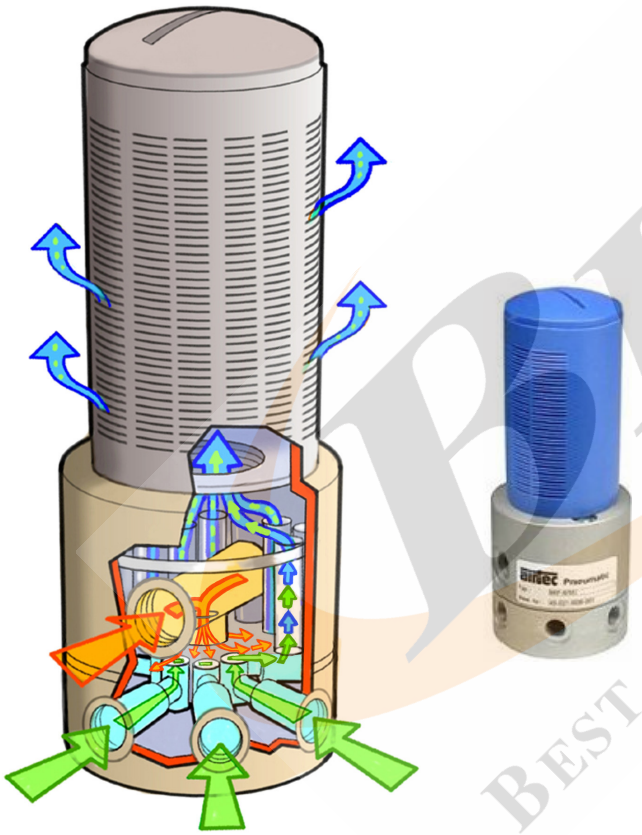
AIRTEC Multi-Inlet Vacuum Ejectors Series MI and MIF

A *Vacuum* ejector like no other! With up to 8 independent vacuum connections that work according to the Venturi principle. This means each connection is independent of the other. A leakage at one has no affect on the other connections. With No internal moving parts & No o-rings/seals of any kind, these units are virtually maintenance free!

Why have multiple vacuum generators that take up valuable space, resources and money when you can have the **Airtec Solution**.



Functionality Explained:

- Pressure and flow enters through the Single Pressure input port.
- It is then directed through an acceleration orifice where it breaks the sound barrier as it hits the baffle plate on the lower manifold section.
- The air flow is then distributed evenly across each Individual Venturi Orifice, creating a Venturi vacuum at each Individual Vacuum Port connection, before exiting through the exhaust chamber.

Benefits of this Design:

- Each Vacuum Port connection is an Independent Venturi Style Vacuum Ejector/Generator.
- This means that each Connection is independent of the others, allowing for Atmosphere to enter one or more, has no affect on the other connections that are under Vacuum.
- This design allows you to eliminate the need for multiple venturi vacuum units or will allow you to have each vacuum cup connected to an independent vacuum connection without the worry of "you loose one cup, you loose them all" when using a Single venturi vacuum ejector that is branched off to multiple cups.

AIRTEC Pneumatics, Inc
Phone: (630) 543-0265 Fax:(630) 543-4420 Internet: www.airtec-usa.com Email: airtec@airtec-usa.com

1	**Description of application** Short description of plans, if possible with drawing, or photo, etc.	
2	**Work piece** What kind of pieces are to be handled?	
3	**Material** Sheet metal, foils, round material (metal, synthetics, glass, paper, ceramics, etc.)	
4	**Work piece surface** Smooth, rough, structured, leak-proof, porous, oily, dusty, oxidised, wet, etc.	
5	**Measurement/Weight** Length, width, height/thickness, diameter, weight	
6	**Compressed air** Presssure in bar of the available operational line	
7	**Control voltage** 24 V DC or other	
8	**Area of use** Where will the components be installed? (dust-producing operation, outside, etc.)	
9	**Temperature** Environment, compressed air, short-term/constant temperature	
10	**Cycle time** Of suction, transport up to release	
11	**Paths of movement** Vertical, horizontal, turns, etc.	
12	**Acceleration** Data in the individual axes	
13	**Positioning accuracy** Pick and place position	
14	**Functional requirement** – Vacuum – Vacuum – blow off – Air saving device	

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