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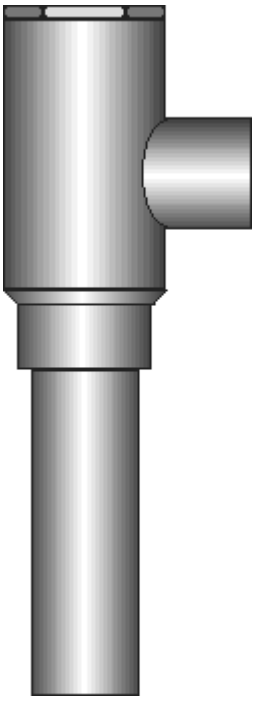
Dry Polymer Eductor (Part# PE1)
Datasheet - Specifications

(also widely known as a HOOTONANNY)

Connection:	6 feet of 1 inch OD clear vinyl tubing (included).
Nominal lift:	5 vertical feet (1.5 m) maximum.
Nominal lift rate:	1 lb (0.45 kg) dry polymer per minute.

Suction (top)



Water Input (side)

Specifications

Water Inlet:	3/4 inch FNPT
Water flow rate:	12 to 30 GPM (12 gpm minimum)
Water Pressure:	5 to 40 PSI (45 psi maximum)
Eductor:	7.5 in long x 2 in diameter top, (19 cm long x 5.1 cm diameter)
Clear vinyl tubing:	6 ft long x 1 in OD, (1.8 m x 2.54 cm OD)
Shipping:	9 x 9 x 3.5 in, (22.9 x 22.9 x 7.6 cm) Box Size
Shipping Weight:	2.2 lbs, (1.0 kg)

Lift Rate (variable):	Flow Rate (GPM)	Lift Rate (lb/min)
	12	1
	20	3
	30	8

Discharge (bottom)

Optional Accessories

PE1-FUNNEL	10 inch diameter translucent PVC feed funnel
PE1-CLAMP	Mounting clamp for the top side of a mixing tank

The Nova-Tech Polymer Eductor is guaranteed to give satisfactory service so long as the units are installed according to the above instructions and are not disassembled nor abused in use. If a dissatisfied, the unit will be replaced or money refunded at the customer's option upon the return of the eductor.

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Dry Polymer Eductor (Part# PE1)
Installation, Operation, and Maintenance

(also widely known as a HOOTONANNY)

The Nova-Tech Dry Polymer Eductor is made of PVC housing and fitted with a non-stick, anti-static polypropylene lining designed for mixing dry polymers or other wettable powders with water.

Installation

The proper setup of the polymer eductor is essential for achieving the best results. The supply water must be connected to the 3/4-inch (6 mm) FNPT fitting and maintain a minimum flow rate of 12 GPM (*optimal performance is obtained at 30 GPM or higher*). It is recommended that the water line should be no smaller than 3/4 in (6 mm) ID throughout.

1 Mount the eductor vertically over your solution mixing tank with the discharge tube pointing down. (*Our optional PE1-CLAMP is available for mounting to the top side of a mixing tank*.)
2 Insert the clear vinyl suction tubing into the vacuum port bushing at the top of the eductor. (*our optional PE1-FUNNEL is available for slowly pour polymer instead of using the pick-up tubing*)
3 Connect the water supply line to the eductor water inlet.

Operation

When water flows through the eductor, the venturi action of the eductor will create enough vacuum to pull the powder polymer through the tubing and into the top of the eductor. The mixture exits the eductor through the bottom discharge pipe into the solution tank while it is filling. Agitate the solution for 30 to 60 minutes or until the water-soluble polymer or wettable powder is completely dissolved or suspended.

1 Turn on the water supply to the eductor.
2 Hold the suction (lift) tube slightly above a pre-measured amount of dry polymer powder.
3 Adjust the suction tube position manually to obtain the desired mix ratio (concentration) or pickup rate.

Note: Care should be taken to avoid inadvertent blockage of the vacuum tubing which will draw water into the dry zone of the device (inside polypropylene nozzle and tubing). If the occasional blockage cannot be avoided, drill three 1/8th inch diameter holes in the vacuum tubing just above the vacuum port to provide a vacuum relief.

Maintenance

Residual polymer powder within the vacuum tubing will attract moisture from the mixing zone and eventually form a buildup after extended use.

To clean the unit

1 Remove the vacuum suction tubing.
2 Wash the eductor with water until clean.
3 Dry thoroughly with air, alcohol, or both.

Note: Since dry polymer does not adhere to the polypropylene lining, the polymer inside the eductor may also be dried with air and alcohol, and then cleaned out manually. The use of a 1 - 1.25 inch diameter bottle brush is also a convenient method of cleaning the vacuum bushing.

The Nova-Tech Polymer Eductor is guaranteed to give satisfactory service so long as the units are installed according to the above instructions and are not disassembled nor abused in use. If a dissatisfied, the unit will be replaced or money refunded at the customer's option upon the return of the eductor.