

Eductors & Spray Nozzles

DESCRIPTION:

Eductors are flow enhancing orifice venturis. They are used to build Sweeper Piping and assist with cleaning tanks and basins commonly in conjunction with cooling towers. The eductor uses the fluid surrounding itself to combine with the pumped flow to produce a basin flow approximately five times greater than the pumped gpm rate. In doing this the eductor continually mixes the solids in the tank. Mixing helps keep the solids suspended. These suspended solids can then be removed by the filter system. Spray Nozzles are used where the water level is shallow.

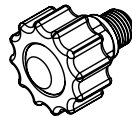
APPLICATION:

1. Quantity: The number of eductors or spray nozzles used are based on the design flow of each separator or sand filter package. Eductor flowrate and quantity are chosen to match the pumped flow and provide 20 psi at the eductor.

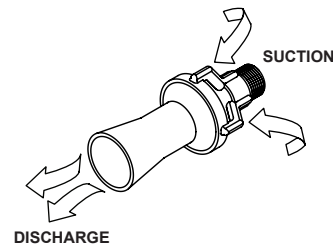
Example: Model CSS301D-HH rated at 250gpm@80tdh requires: (a) 25 pieces of E-10, or (b) 50 pieces of E-5, or (c) 12 pieces of E-20, etc. The correct selection will depend on the size of the basin (length x width), water depth, and if there are shallow areas within the perimeter of the basin.

MODEL	CONNECTION	LENGTH	DIA.	MAT'L.	MAX. PSI	MAX. TEMP.	GPM @20PSI	EDUCTOR VELOCITY	
								SUCTION	DISCHARGE
E-5	1/4 MNPT	3-1/8"	1-1/2"	POLYPROPYLENE	50 PSI	120°F	5	.75 sq/ft	2 sq/ft
E-10	3/8 MNPT	4-1/2"	2-1/8"				10	1.5 sq/ft	5 sq/ft
E-20	3/4 MNPT	6-3/8"	3"				20	3 sq/ft	10 sq/ft
E-30	1 MNPT	8-1/2"	3-3/4"				30	4 sq/ft	13 sq/ft
E-50	1-1/2 MNPT	9-7/8"	4-5/8"				50	5 sq/ft	15 sq/ft

MODEL	CONNECTION	USED WITH
SW-05	3/8 MNPT	E-5
SW-10		E-10

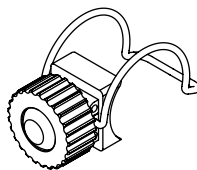


SW-05
SW-10



E-5
E-10
E-20
E-30
E-50

MODEL	PIPE	USED WITH
ES-1010	1"	E-10
ES-1015	1-1/2"	
ES-1020	2"	
ES-0510	1"	E-5
ES-0515	1-1/2"	
ES-0520	2"	

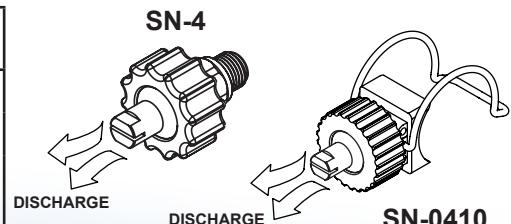


ES-1010
ES-1015
ES-1020
ES-0510
ES-0515
ES-0520

NOTE: DRILL 9/16" DIA. HOLES IN PIPE FOR EDUCTORS w/PIPE CLIPS

MODEL	PIPE	MAT'L.	MAX. PSI	MAX. TEMP.	GPM @20PSI	DISCHARGE VELOCITY
SN-4*	N/A	POLYPROPYLENE	50 PSI	120°F	4.2	5 sq/ft
SN-0410	1"					
SN-0415	1-1/2"					
SN-0420	2"					

* SN-4 HAS A 3/8 MNPT CONNECTION AND DOES NOT COME WITH A PIPE CLIP



SN-0410
SN-0415
SN-0420