1213 West Loop North, St1 180
Houston, TX 77055
Phone: 713-688-2008
Fax: 713-688-2993
Website: www.cccmix.com

AZ Tank Eductor Performance Chart

AZ Tank Eductors are utilized in a submerged environment to agitate, mix and suspend solids in a liquid. AZ Tank Eductors provide energy conservation; for each motive gallon pump through the nozzle orifice, there are three gallons drawn through the induction ports and co-mingled in the mixing chamber of the eductor and discharged as a plume into the open vessel or tank. This representation is in the below (OUT) column.

		Operating Pressure (Motive) PSI (BAR)															
		30 (2.0)		40 (2.7)		50 (3.3)		60 (4.0)		70 (4.7)		80 (5.3)		90 (6.0)		100 (6.7)	
Model TriClamp	Nozzle Orifice Size IN (MM)	Motive Fluid Flow Rate (IN) Circulation Fluid Flow Rate (OUT) GPM (M^3/HR)															
		IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
AZ-TE-0.50	0.31 8.00	10.00 2.25	40.00 9.00	12.00 2.70	48.00 10.80	13.00 2.90	52.00 11.70	14.50 3.20	58.00 13.00	15.00 3.40	60.00 13.50	16.00 3.60	64.00 14.40	17.00 3.80	68.00 15.30	18.50 4.20	74.00 16.50
AZ-TE-0.75	0.50 12.70	23.00 5.20	92.00 20.50	26.50 5.90	106.00 24.00	29.00 6.50	116.00 26.00	32.50 7.30	130.00 29.00	35.00 7.90	140.00 31.00	37.00 8.30	148.00 33.00	40.00 9.00	160.00 36.00	42.00 9.40	168.00 38.00
AZ-TE-1.00	0.75 19.00	63.00 14.00	252.00 56.50	74.00 16.50	296.00 66.50	82.00 18.00	328.00 74.00	90.00 20.00	360.00 81.00	97.50 21.90	390.00 88.00	104.00 23.40	416.00 93.00	110.00 25.00	440.00 99.00	117.00 26.00	468.00 105.00
AZ-TE-1.50	0.88 22.00	92.00 20.50	368.00 82.50	106.00 24.00	424.00 95.00	119.00 26.50	476.00 107.00	130.00 29.00	520.00 117.00	141.00 32.00	564.00 127.00	150.00 33.50	600.00 135.00	160.00 36.00	640.00 144.00	168.00 38.00	672.00 151.00
AZ-TE-2.00	1.13 32.00	125.00 28.00	500.00 112.00	145.00 32.50	580.00 130.00	162.00 36.00	648.00 145.00	177.00 40.00	708.00 159.00	191.00 43.00	764.00 172.00	205.00 46.00	820.00 184.00	217.00 49.00	868.00 195.00	229.00 51.00	916.00 206.00

The circulating rate is four times the motive flow rate that is indicated in the (OUT) column.
Divide the tank volume by the selected model circulating rate to calculate the volume turn-over rate.

Example:
Tank Volume is 10,000 gallons.
(4) Model AZ-TE-1.00 are installed.
Operating motive pressure is 50 PSI (3.3 BAR) = 82 gpm x 4 = 328 gpm is the pump requirement.
The circulating rate of the (4) model AZ-TE-1.00 is 1312 gpm.
Tank volume at 10,000 gallons is divided by 1312 gpm = 7.6 minutes.
7.6 minutes represents the volume turn-over rate.