

EDUCTORS

Mixing : Liquid/Solid
Accessories
Bath Mixing

An Eductor, combined with a centrifugal pump, improves liquid circulation and agitation in recirculation process.

The eductor contains no moving part, provides a homogeneous fluid mix between the bottom and the top of the tank. Not only is it a cost-effective way for optimum liquid performance, it also allows smaller pumps to circulate the fluid.

Performances data:

Flow-rate	model	Inlet liquid pressure (in bar)							
		0.5	1	1.5	2	2.5	3	3.5	4
en l/mn									
inlet	3/8"	29	42	0	0	0	0	0	0
inlet	3/4"	43	64	74	85	97	106	116	124
inlet	1 1/2"	106	151	184	215	243	259	288	308
entrained	3/8"	116	168	204	236	260	280	308	328
entrained	3/4"	172	256	298	340	388	424	464	496
entrained	1 1/2"	424	604	736	860	972	1036	1152	1232
total	3/8"	145	210	204	236	260	280	308	328
total	3/4"	215	320	372	425	485	530	580	620
total	1 1/2"	530	755	920	1075	1215	1295	1440	1540

In yellow, the performance of the 3/4" type, commonly utilized by LEFCO

| Explanation (the values are in red on the data table) :

For 3/4" type, and for a pressure of 2 bar, the inlet flow rate is 85 l/mn, the entrained flow rate is 340 l/mn, and the total 425 l/mn.



Tank turn over:

The capacity and number of tank mixing eductor is determined by turnover rate. The turnover rate will vary according to the characteristics of applications.

For example, most plating tanks require 20 turnovers per hour, cleaning tanks at least 10, soiled tank up to 20.

For filtration applications, ask a project to Lefco France.