

# Tank Mixing Eductors

## Effective Mixing Solutions

### Ferti-Ject Tank Mixing Eductors

Ferti-Ject's range of Tank Mixing Eductors provide an effective way to mix liquids in open or enclosed tanks.

They are low-cost, easy to maintain, and can handle a wide range of viscosities and types of liquids.

### How they work.

They work by using a high-velocity stream of fluid to create a low-pressure zone, which draws in surrounding fluid, this mixing action is very effective at creating a uniform mixture, even in difficult applications such as mixing slurries and suspensions.



Ferti-Ject Tank Mixing Eductors can handle a variety of viscosities and types of liquids, including slurries and suspensions.

Their thorough mixing action makes them especially useful for maintaining uniform liquid characteristics throughout the tank contents, such as temperature, pH, or solids distribution, and are also used to prevent separation of non-mixable liquids or stratification of liquids having different specific gravities.



### Typical installation

Ferti-Ject Tank Mixing Eductors are typically installed in the bottom of a tank and connected to a recirculating pump.

The pump provides the motive fluid for the eductor, which then creates a high-velocity stream of fluid that draws in surrounding liquid from the tank, the mixed fluid is then discharged back into the tank, creating a continuous mixing loop.

Additional eductors can be placed at different heights in the tank to lessen the potential for stratification.

### Turnover rate

The rate at which fluid in the tank must be completely turned over will determine the overall capacity of the tank eductors needed.

When the inlet pressure supplied to the tank eductor is within a range of 130 to 483 kPa, every litre operating fluid passing through the tank will blend 3-5 litres of tank contents.

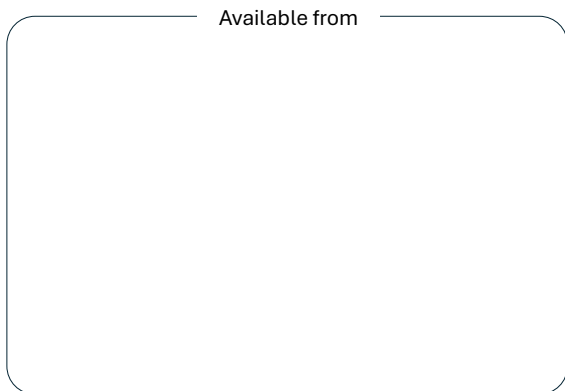
## Model Data

| Performance Data |                          |                     |        |        |        |        |        |
|------------------|--------------------------|---------------------|--------|--------|--------|--------|--------|
| Inlet Connection | Flow Rate (lpm)          | Flow Capacity (lpm) |        |        |        |        |        |
|                  |                          | 100kPa              | 150kPa | 200kPa | 250kPa | 300kPa | 350kPa |
| 1/4" BSP         | Inlet Flow Rate          | 16                  | 19.5   | 23     | 25     | 28     | 30     |
|                  | Circulation Rate         | 75                  | 91.5   | 107    | 118    | 130    | 140    |
|                  | Effective Flow Field (m) | 1.5                 | 2.1    | 3.0    | 3.7    | 4.3    | 5.2    |
| 3/8" BSP         | Inlet Flow Rate          | 42                  | 51     | 59     | 65     | 70     | 77     |
|                  | Circulation Rate         | 210                 | 255    | 295    | 325    | 350    | 385    |
|                  | Effective Flow Field (m) | 1.8                 | 2.4    | 3.7    | 4.3    | 4.9    | 6.7    |
| 3/4" BSP         | Inlet Flow Rate          | 64                  | 74     | 85     | 97     | 106    | 116    |
|                  | Circulation Rate         | 320                 | 370    | 425    | 485    | 530    | 580    |
|                  | Effective Flow Field (m) | 2.4                 | 3.4    | 5.2    | 6.1    | 7.3    | 10.1   |
| 1, 1/2" BSP      | Inlet Flow Rate          | 151                 | 184    | 215    | 243    | 259    | 288    |
|                  | Circulation Rate         | 755                 | 920    | 1075   | 1215   | 1295   | 1440   |
|                  | Effective Flow Field (m) | 3.7                 | 4.9    | 7.3    | 8.6    | 10.4   | 14     |

### Talk to us.


Ferti▶ Ject specialize in injection systems and can customize our products to suit your specific application.

For more information contact your local specialist.




### Ferti▶ Ject Dosing Systems

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