

F2 - Maceration

Macipump Series

Off line maceration of process solids (with pumping capability).

PROCESS INPUT:

Coarse process solids in liquid.

PROCESS OUTPUT:

Macerated solids in solution / suspension, with controlled particle size.

BY-PRODUCT PRODUCED:

N/A.

SERVICES REQUIRED:

N/A.

CAPACITY RANGE:

0 - 25 l/s per unit.
10m total head.

TYPICAL ELECTRIC MOTOR DRIVE SIZES:

2.2 to 15.0kW.

Off-line Macerator designed to give a controlled particle size with integral pumping capability.

Macipump is typically mounted on a reception vessel to receive the process solids with wash water (for example incorporating specialist mounting toes / tanks to ensure optimal performance and protection from Grit).

Inside the unit flow passes through holes in a shearplate which has a rotating headstock in contact with it.

Solids are sheared by the headstock as they pass through the holes providing controlled particles based on the hole size, typically 5mm - 15mm. An integrated centrifugal impeller pumps the effluent to the required location.

Commonly used to macerate solids from the effluent flow and pump for further processing.



Multiple units can be used to increase overall solids handling capacity

“Off-line Macerator designed to give a controlled particle size with integral pumping capability.”

Model / Series	202 / 200	303 / 300	303 / 350	402 / 400
*Solids Handling Capability	0.3m ³ /hr	up to 3.5m ³ /hr	up to 3.5m ³ /hr	up to 10m ³ /hr
Maximum Flow Rate	4 l/s	10 l/s	10 l/s	25 l/s
Maximum Total Head	3m	8m	15m	10m
Drive size Range	2.2kW	5.5 to 7.5kW	7.5 to 11kW	11 to 15kW
Speed	960 rpm	960 rpm	960 rpm	720 rpm

* Figures based on solids containing a high percentage of water, typically sewage screenings, food, fruits, vegetables etc

Dilution Water

Solids need to be in a waterbourne solution / suspension for effective maceration, dry solids content should be no more than 2.5%