

F4 - Maceration

HVL Series

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

PROCESS INPUT:

Process solids in liquid.

PROCESS OUTPUT:

Coarsely macerated solids in solution / suspension.

BY-PRODUCT PRODUCED:

N/A.

SERVICES REQUIRED:

N/A.

CAPACITY RANGE:

0 - 65m³/hr per unit.

1.2m total head.

TYPICAL ELECTRIC MOTOR DRIVE SIZES:

2.2 to 11.0kW.

Off-line Macerator designed to give a coarse particle size with limited pumping capability.

HVL Macerators can be mounted vertically or horizontally either on a reception vessel or a concrete sump.

Process solids together with wash water enter a stationary cutter ring within which a tipped impeller with radial slots rotates. The combined action of the cutter ring and impeller shred the solids putting them in suspension for further processing.

HVL Macerators are particularly well suited where coarse maceration is required.



Multiple units can be used to increase overall solids handling capacity

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

Model	150	180	200	250	300
*Solids Handling Capability	< 0.1m ³ /hr	< 0.2m ³ /hr	< 0.5m ³ /hr	< 1.0m ³ /hr	< 1.5m ³ /hr
Flow Rate	7m ³ /hr	12m ³ /hr	25m ³ /hr	40m ³ /hr	65m ³ /hr
Maximum Total Head	< 1.2m	< 1.2m	< 4m	< 1.2m	< 1.2m
Drive size Range	2.2kW	4.0kW	5.5 or 7.5kW	7.5kW	11.0kW
Speed	1450 rpm	1450 rpm	1450 rpm	960 rpm	960 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%.