

Automatic Multi-Chamber Flocculation Units

Use

- GFA Model multi-chamber flocculation units are suitable for waste water treatment processes where dosing of polyelectrolytes powder (flocculant) is required
- The range of multi-chamber flocculation units, available in models GFA 1700, GFA 2800, GFA 5000 and GFA 800, incorporate all the elements required for a proper preparation of the polyelectrolytes solution and a precise and constant transfer of the solution to the treatment plant
- GFA flocculation units carry out all their functions in fully automatic mode minimizing as far possible the operator intervention

Main Characteristics and Accessories

- Structure and metal components in AISI 304 stainless steel
- Three open communicating tanks, complete with protection grids, for proper maturation and stocking of the solution
- Main water supply with regulating valve, pressure switch and flow meter with indication of the flow rate
- AISI 304 stainless steel flocculant dosing screw adjustable by manual speed variation driving unit
- Level probe to detect flocculant powder missing in the feeding hopper (optional)
- AISI 304 stainless steel triple propeller mixers to fully dissolve the powder in the water
- Level probes to open/close the water inlet by electromagnetic valves and to start/stop the powder dosing screw
- Electrical control panel made in compliance with Canadian standards

Physical/Operating Characteristics

Dimension	Imperial	Metric
Operating length	8' 1" - 21' 3"	2.47 - 6.5 m
Operating height	6' 7" - 7' 4"	2.05 - 2.25 m
Operating width	3' 2" - 5' 2"	.97 - 1.6 m
Empty weight	992 - 1,918 lb	450 - 870 kg
Operating weight	4,850 - 19,621 lb	2,200 - 8,900 kg
Total Tank capacity	449 - 2,113 gal	1,700 - 8,000 L
Powder hopper capacity	33.5 - 43 gal	127 - 163 L
Maximum solution production	607.5 - 2,827 gal/h	2,300 - 10,700 L/h
Maximum powder delivery	10 - 44 lb/h	4.5 - 20 kg/h

Hydraulic

Dimension	Imperial	Metric
Minimum network pressure	29 psi	2 bar
Maximum network pressure	72.5 psi	5 bar
Minimum inlet water flow	528 - 2,642 gal/h	2,000 - 10,000 l/h
Inlet coupling diameter	3/4 - 1 1/4 in. BSP	N/A

Power

Dimension	Voltage/Kilowatts
Power supply voltage	400 V
Power supply frequency	50 V
Power requested at the panel	2.0 - 4.0 kW
Screw geared motor power rating	.18 - .28 kW
Power rating of each agitator	.37 kW
Power rating for each dosing pump	.25 - .55 kW
Motor protection	IP 55 kW

* Also available for non-standard voltages, frequencies and power ratings.