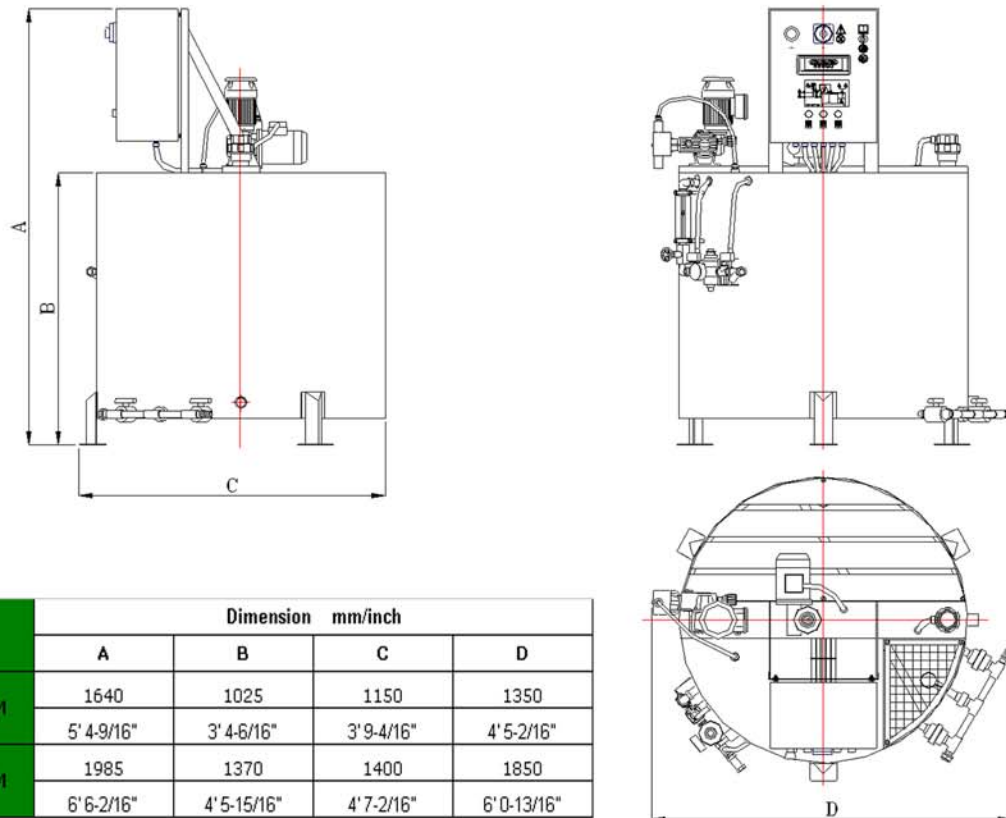


Type	Dimension mm/inch					
	A	B	C	D	E	F
CAP07CE	1150 3' 9-4/16"	1910 6' 3-3/16"	1750 5' 8-14/16"	1400 4' 7-2/16"	800 2' 7-8/16"	1125 3' 8-5/16"
CAP15CE	1350 4' 5-2/16"	1910 6' 3-3/16"	2230 7' 3-13/16"	2000 6' 6-12/16"	1000 3' 3-6/16"	1125 3' 8-5/16"
CAP30CE	1850 6' 0-13/16"	2210 7' 3-0/16"	2730 8' 11-8/16"	2500 8' 2-7/16"	1500 4' 11-1/16"	1225 4' 0-4/16"
CAP60CE	2200 7' 2-10/16"	2210 7' 3-0/16"	3870 12' 8-6/16"	3500 11' 5-13/16"	2000 6' 6-12/16"	1225 4' 0-4/16"



Type	Dimension mm/inch			
	A	B	C	D
CAP20EM	1640 5' 4-9/16"	1025 3' 4-6/16"	1150 3' 9-4/16"	1350 4' 5-2/16"
CAP60EM	1985 6' 6-2/16"	1370 4' 5-15/16"	1400 4' 7-2/16"	1850 6' 0-13/16"

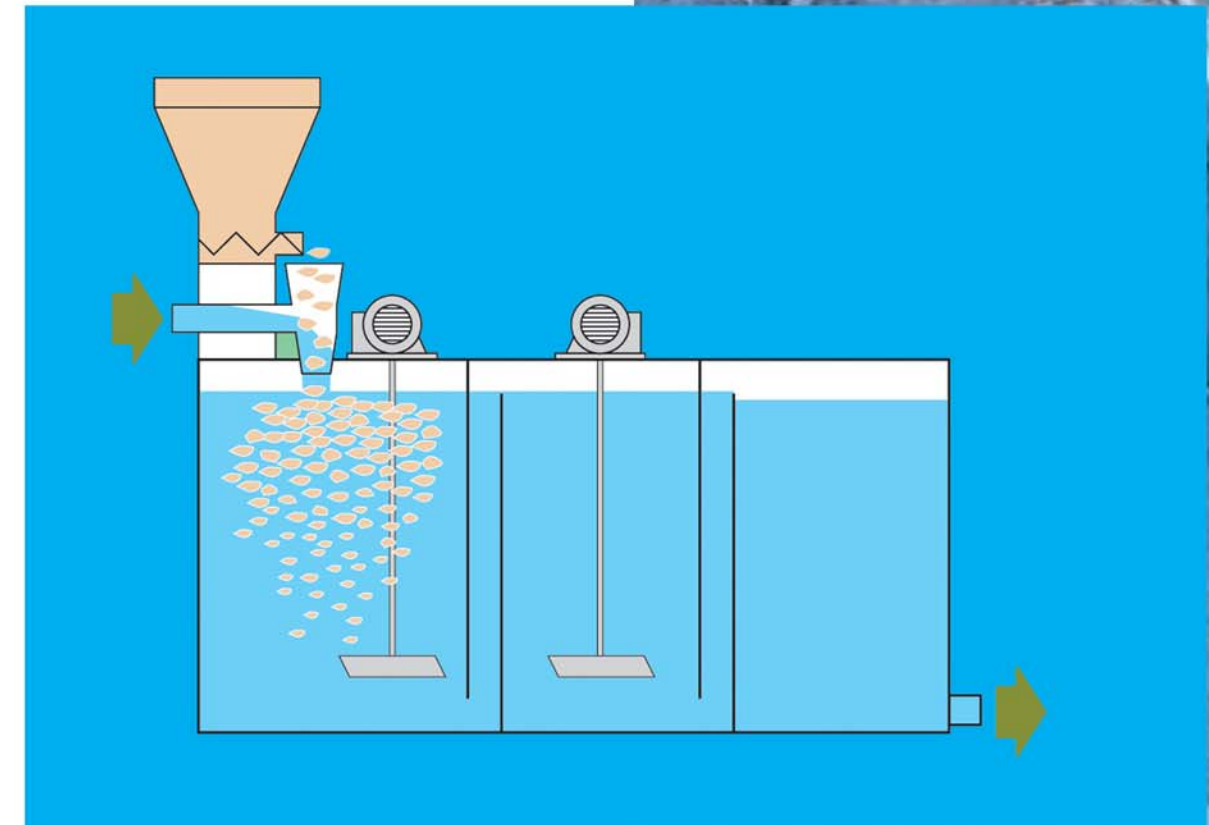
# POLYMERQUEEN



**V-STAINLESS  
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## POLYMERQUEEN

**COMPACT CONTINUOUS POLYMER PREPARATION/MIXING  
SYSTEMS FOR POWDER AND EMULSION**



The CAP series are available in 750-1500-3000-6000 l/hour capacity and can be fully customized. They all operate on the following principal: polymer from the feed hopper passes through a lump breaker and via a screw conveyor micro-dosing unit to a pre-dilution unit where it is mixed with a controlled volume of water and enters a dilution tank equipped with a 45° three bladed mechanical mixer.

Then it passes to a dispersion tank which is also mechanically mixed and finally to an ageing and storage tank. The polymer solution is withdrawn from this tank by a dosing pump (optional).

When the contents in the ageing/storage tank fills to a preset level, the water and polymer feed are automatically restarted and are stopped when the tank is full. Sensors are provided for automatic operation and dosing pump protection.

The percentage concentration of flocculant in solution can be controlled by adjusting both the water flow rate and the speed of the screw conveyor micro-dosing unit.

An integral electrical control panel constructed to IP65 standard is included.

The CAP series consist of the following equipment :

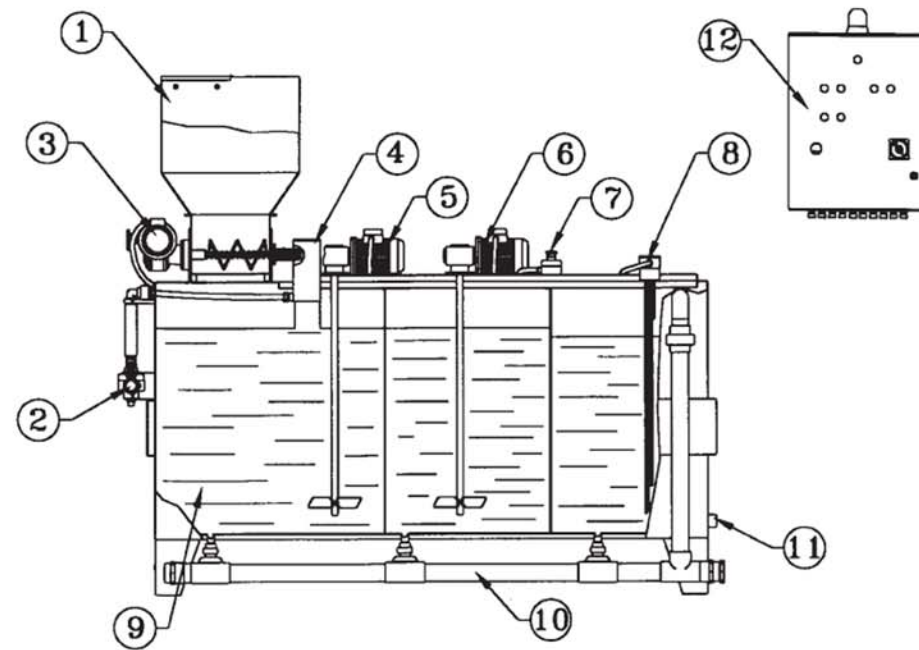
- Micro-dosing unit with hopper, equipped with lump breaker and variable speed screw conveyor to accurately dose the pure polymer
- Water flow regulation and water feed assembly line complete with manual



The liquid polymer mixing units are designed for continuous mixing and feeding of emulsion polymer. The CAP20EM has a capacity of 2000 l/h (9 gpm) and the CAP60EM 6000 l/h (22gpm). A tank is divided into two compartments for preparing, mixing and ageing the polymer. The compartments are interconnected via a baffle, and the complete structure is fabricated from AISI 304. Every compartment is complete of one 1 1/2" GM draining nipple. In the ageing compartment there is also available one overflow outlet and one DN 65 PN 10 flanged connection for the polymer pump. The liquid polymer plunger metering pump (maximum viscosity 55.000 cps) comes with manual flow regulation from 10% to 100%, (body made in aluminum, pumping head and valves made in AISI 316L, piston seals in PTFE). The diluter nozzle provides first contact between the liquid polymer and the inlet water. The water inlet group consists of a water filter, pressure reducer, pressure gauge, pressure switch, solenoid valve and flow meter. The stirrer with a 45° three-bladed propeller made of AISI 304 guarantees perfect mixing and is driven by a gearbox at a speed of 280 rpm. The level switch in the ageing tank regulates the production. Local control panel with digital control included.

#### Technical data

- 1 Hopper
- 2 Water control unit
- 3 Powder feeder and breaker
- 4 Pre-dilution chute
- 5 Stirrer (dilution stage)
- 6 Stirrer (dispersion stage)
- 7 Emergency stopping device
- 8 Cycle and pump probe
- 9 Tank
- 10 Drain (optional)
- 11 Connection for dosing pump
- 12 Electrical control panel



#### TECHNICAL DATA

1. Emulsion pump (max. viscosity 55000 cps)
2. Water control unit
3. Liquid polymer inlet
4. Dilution nozzle
5. Mixer
6. Mixing tank
7. Water inlet
8. Sensor for process and safety
9. Storage tank
10. Drain outlet
11. Connection for dosing pump
12. Control panel

