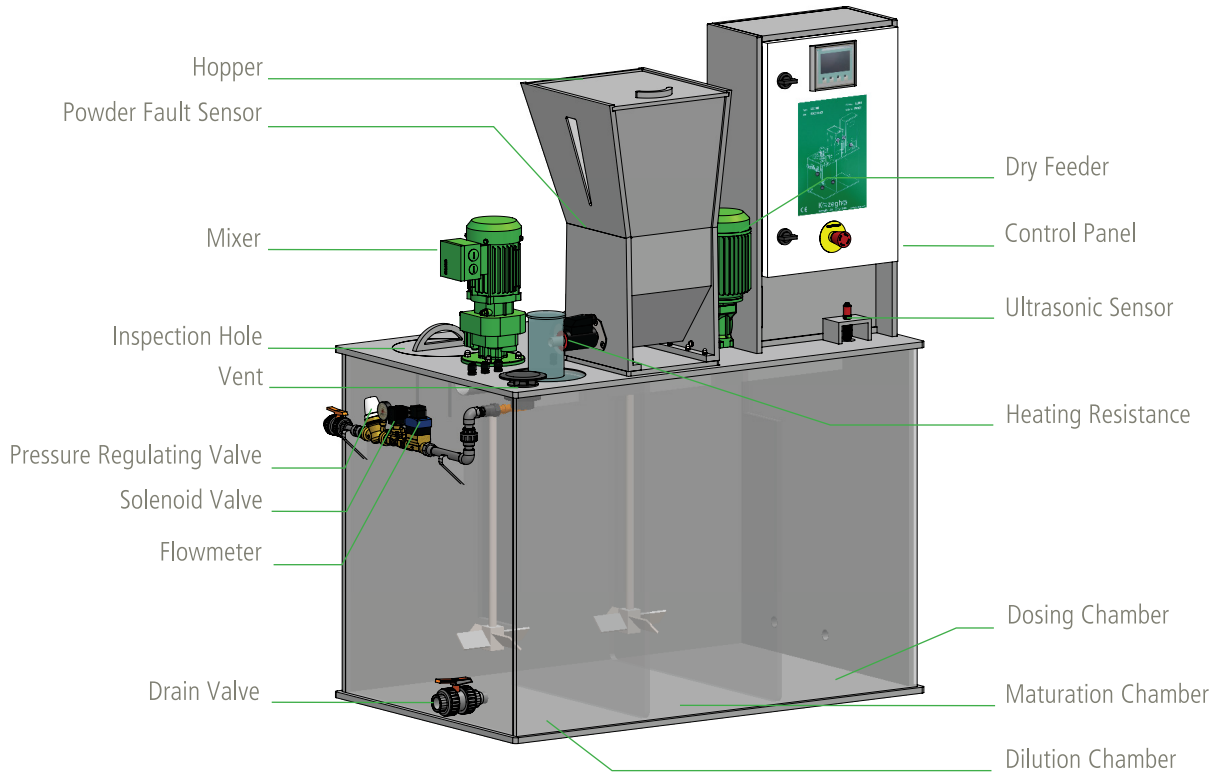


**DATASHEET**

Polymer Preparation System



**CS MODELS**

Are complete systems to dilute powder polyelectrolyte's with water in continues mode to reach concentration solution between 0.05 % and 0.5 %. Built as skid principles where all components are connected and tested make it easy electrical and hydraulic installation saving time and money. A friendly configuration, maintenance and operation make them ideal systems used in flocculation process as dewatering, pre-filtration, paper industry. The extraction capacities for this models just depends on the dosing flow rate and for that recommendable understand the indicated volume as a hourly capacity assuming 60 minutes maturation time that is the standard for most polyelectrolyte manufacturers.

Main structure built in HDPE with classic three chambers parallelepiped geometry connected by overflow channels permitting distinct solution volumes for dilution, The duty cycle is controlled by ultrasonic continues level measuring sensor, installed in the dosing chamber, that start the refilling process automatically, opening the solenoid valve and adjusting the dry feeder speed to get always the selected concentration even configurable process alarms with informative or impeditive action. Mechanical and process fault alarms with independent contact free current signals. "All Siemens inside" with synoptic board and main components signalization by bicolor led, emergency button, PLC S7-1200 for command and control with 4" color display user interface.

**MIXERS**

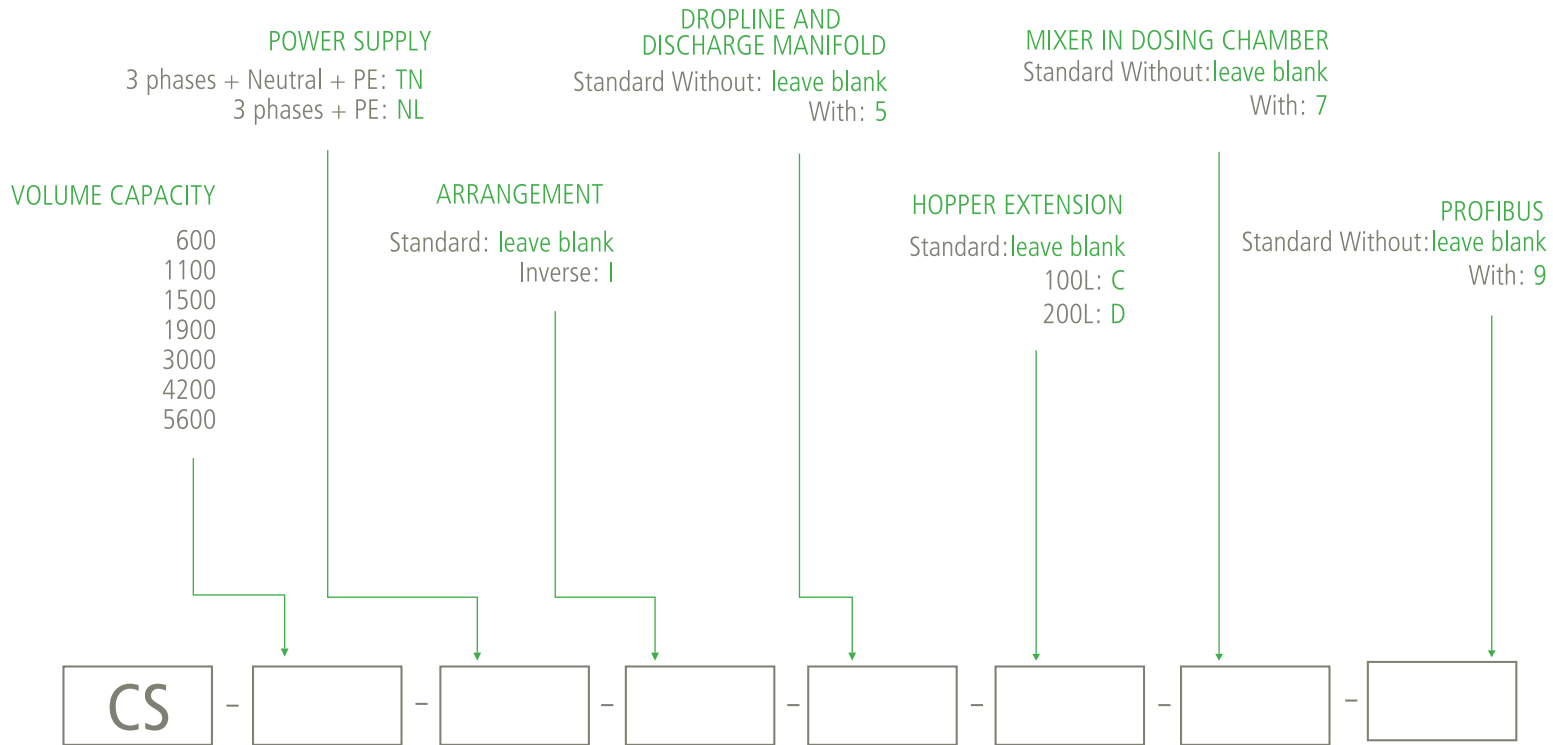
Standard in dilution and maturation chambers with fast removable coupling systems, shaft and 45° plain tetra-blade propellers build in 316 SS.

**DRY FEEDER**

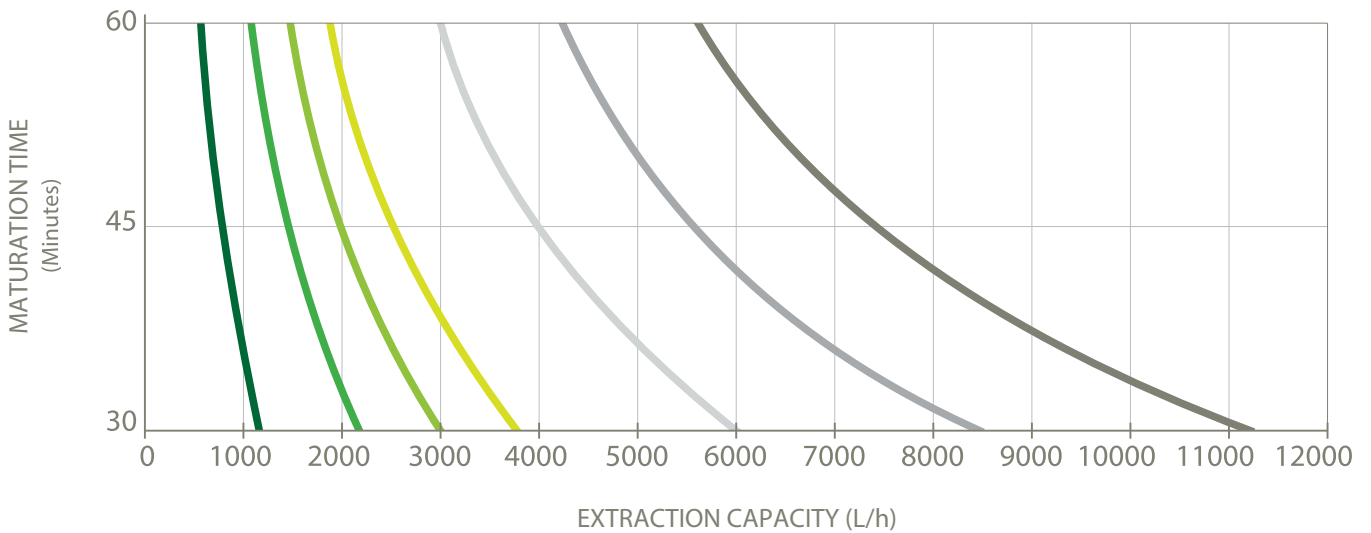
With extraction solid center screw and compact hopper built in HDPE. All systems include heater resistance in extractor tube, intuitive level window and lever sensor in hopper.

# Configuration Chart

Please select the option that best suits your needs and fill the following chart with the green references:

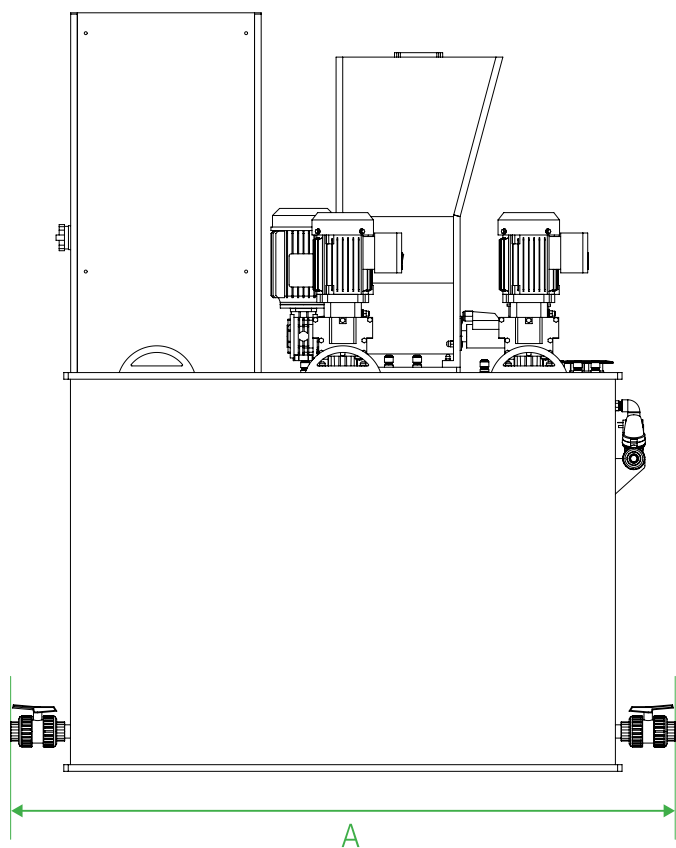


## Extraction Capacity as a Function of Aging Time

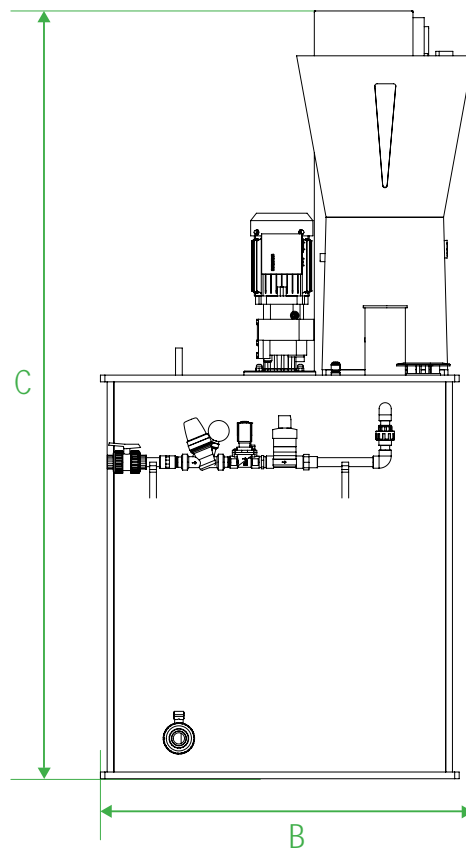


CS600 CS1100 CS1500 CS1900 CS3000 CS4200 CS5600

BACK VIEW



LEFT SIDE VIEW



Technical Specifications

	CS 600	CS1100	CS 1500	CS 1900	CS 3000	CS 4200	CS 5600	CS 9000
Total volume L	600	1100	1500	1900	3000	4200	5600	9000
Total length as A mm	1500	1740	2230	2750	2980	2990	3520	4480
Total width as B mm	830	1120	1110	1060	1280	1560	1560	1870
Total height as C mm	1700	1800	1830	1830	1990	2100	2275	2490
30 minutes capacity L/h	1200	2200	3000	3800	6000	8400	11200	18000
60 minutes capacity L/h	600	1100	1500	1900	3000	4200	5600	9000
Water connection DN	15	15	20	20	25	40	40	50
Max. water flow L/h	1400	2600	3600	4500	7200	11000	13400	21600
Dosing connection DN	25	25	25	32	32	40	40	50
Total rate kW	0.9	0.9	1.2	1.2	1.5	1.5	2.6	2.6
Power supply	3Ph+N	3Ph+N	3Ph+N	3Ph+N	3Ph+N	3Ph+N	3Ph+N	3Ph+N
Voltage V	400	400	400	400	400	400	400	400
Dry feeder rate kW	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
Hopper volume L	40	60	60	60	60	60	60	60
Mixers motor kW	0.25	0.25	0.37	0.37	0.75	0.75	1.1	1.1
Speed rpm	172	172	160	160	153	153	144	144
Propeller diameter mm	200	200	350	350	500	500	550	550