

CL-D MODELS

Complete systems to dilute emulsion polyelectrolyte's with water in continues mode to reach effective poly 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 preparing capacity for this models just depends on the dosing flow rate and for that is recommendable to understand the indicated volume as a hourly capacity, assuming 60 minutes maturation time, wich is the standard for most polyelectrolyte manufacturers. Main structure built in HDPE, with two chambers parallelepiped geometry connected by overflow channels permitting distinct solution volumes for, maturation and

dosing. Pre-dilution system by static mixer in feed water line. 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 dosing pump speed to get always the selected concentration even with water flow variations. Configurable process alarms with informative or impeditive action. Mechanical and process fault alarms with independent contact free current signals. Standard models cover most part of the process needs but our engineering department can study with costumers different options to improve present configurations to any situation. "All Siemens inside" with synoptic board and main components signalization by bicolor led, emergency button, PLC S7-1200 for command and control with 42 color display user interface.

MIXERS

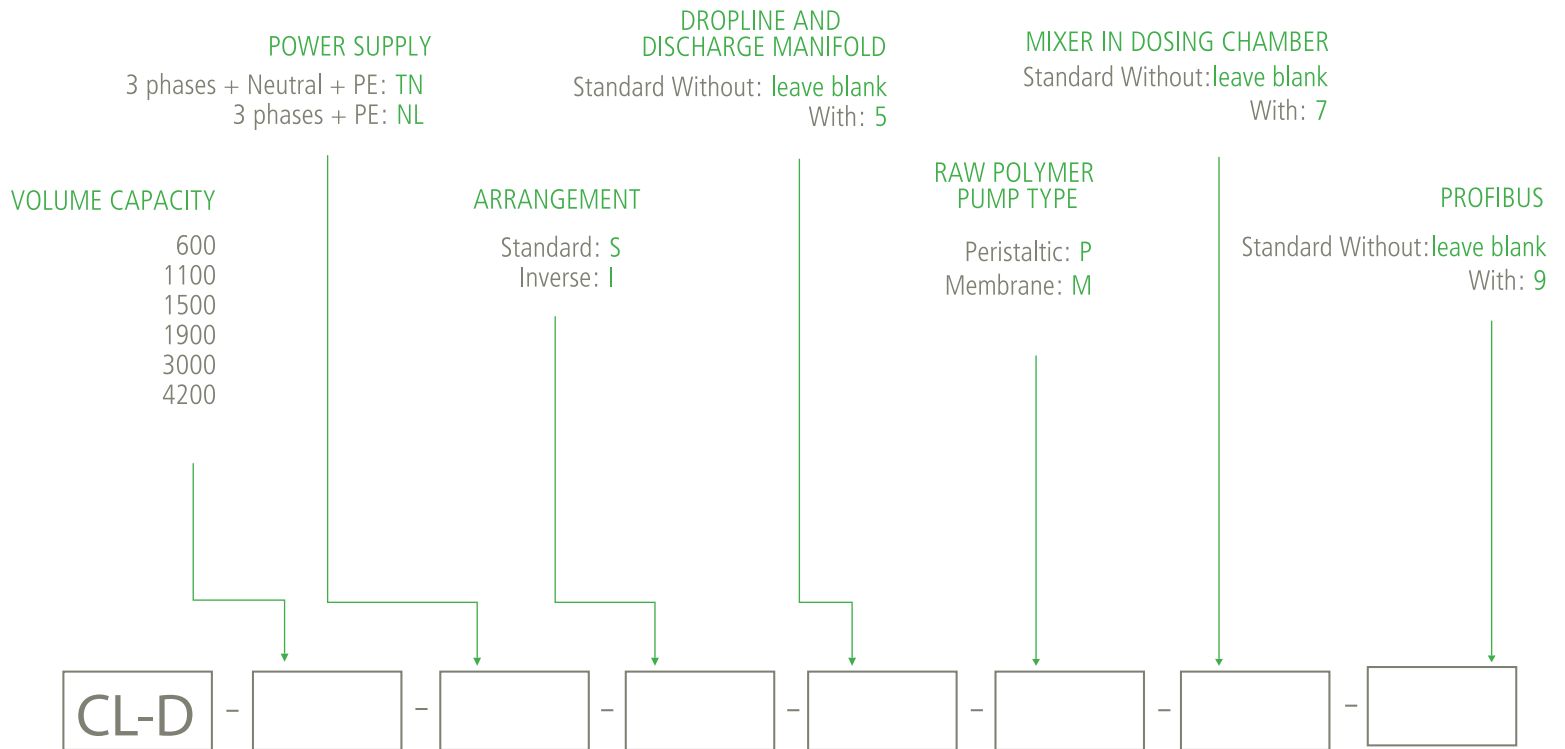
Standard in maturation chambers with fast removable coupling systems, shaft and 45° plain tetra-blade propellers build in 316 SS.

DOSING PUMP

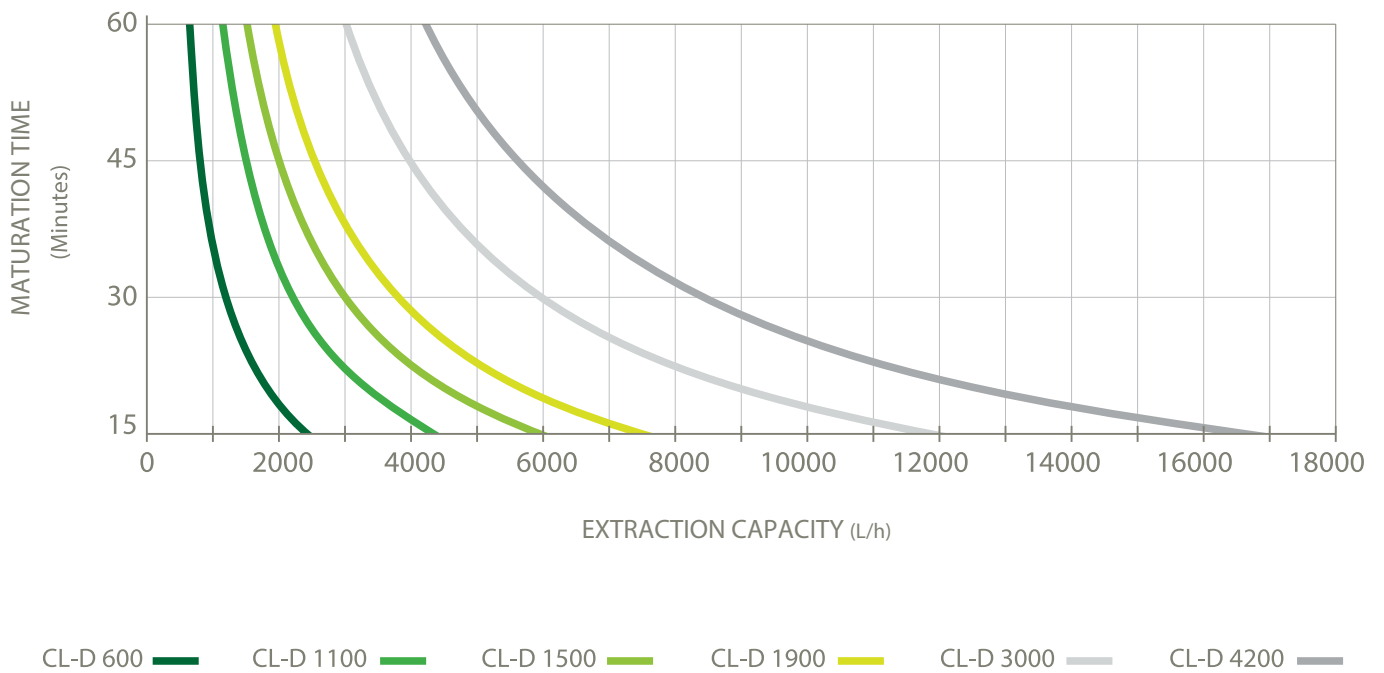
Peristaltic with high head suction capacity suitable for standard or viscous liquids, driven by motor and controlled by speed inverter.

Configuration Chart

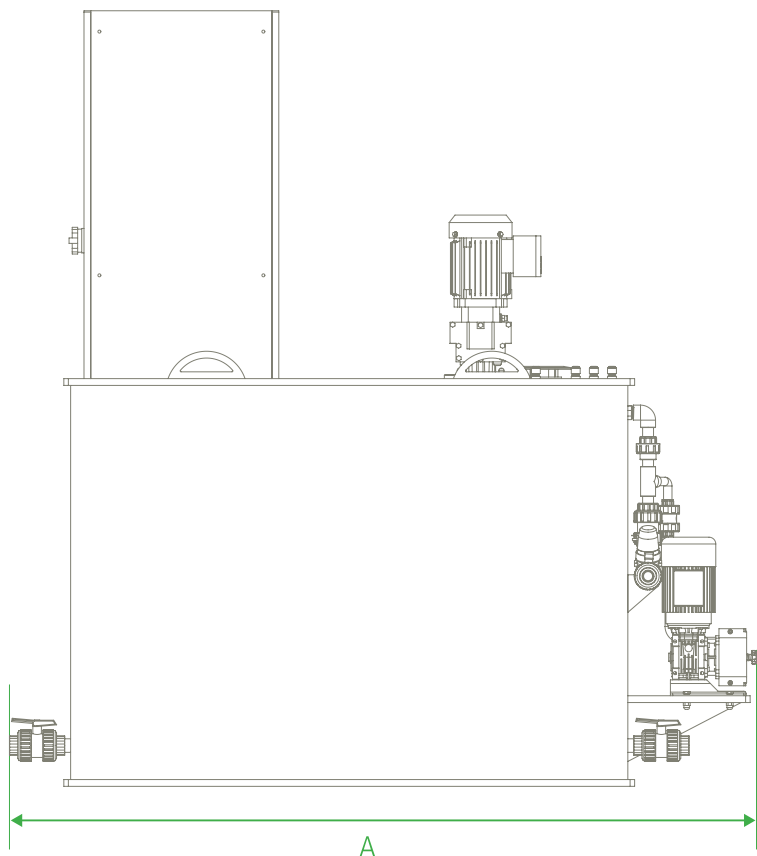
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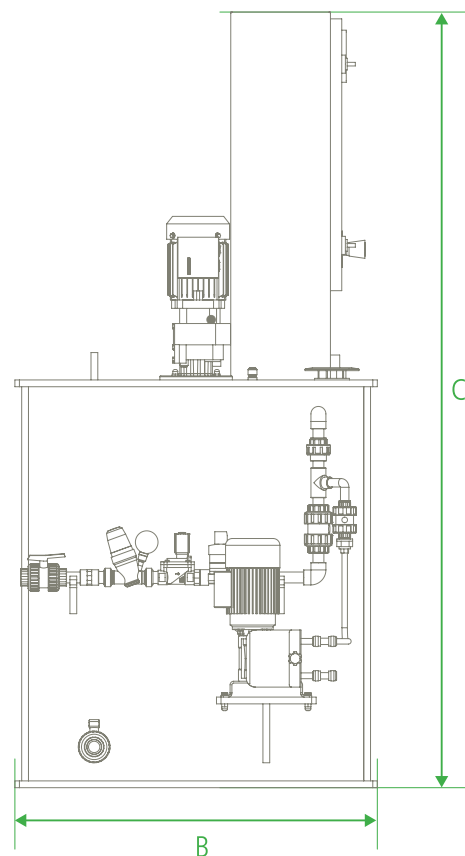
Extraction Capacity as a Function of Aging Time



BACK VIEW



LEFT SIDE VIEW



Technical Specifications

	CL-D 600	CL-D 1100	CL-D 1500	CL-D 1900	CL-D 3000	CL-D 4200
Total volume L	600	1100	1500	1900	3000	4200
Length as A mm	1660	1900	2445	3000	3240	3240
Width as B mm	800	1000	990	1060	1280	1560
Total height as C mm	1700	1800	1830	1830	1660	1840
15 minutes capacity L/h	2400	4400	6000	7600	12000	16800
30 minutes capacity L/h	1200	2200	3000	3800	6000	8400
Water connection DN	20	25	32	32	40	50
Max. water flow L/h	2900	5300	7200	9100	14500	20000
Dosing connection DN	25	25	32	32	40	50
Total rate kW	0.5	0.6	0.7	0.8	0.8	0.8
Power supply	3Ph+N	3Ph+N	3Ph+N	3Ph+N	3Ph+N	3Ph+N
Voltage V	400	400	400	400	400	400
Raw Polymer pump power kW	0.18	0.18	0.25	0.25	0.25	0.25
Mixers motor kW	0.25	0.37	0.37	0.75	0.75	1.1
Speed rpm	172	160	160	153	153	144
Propeller diameter mm	200	350	350	500	500	550