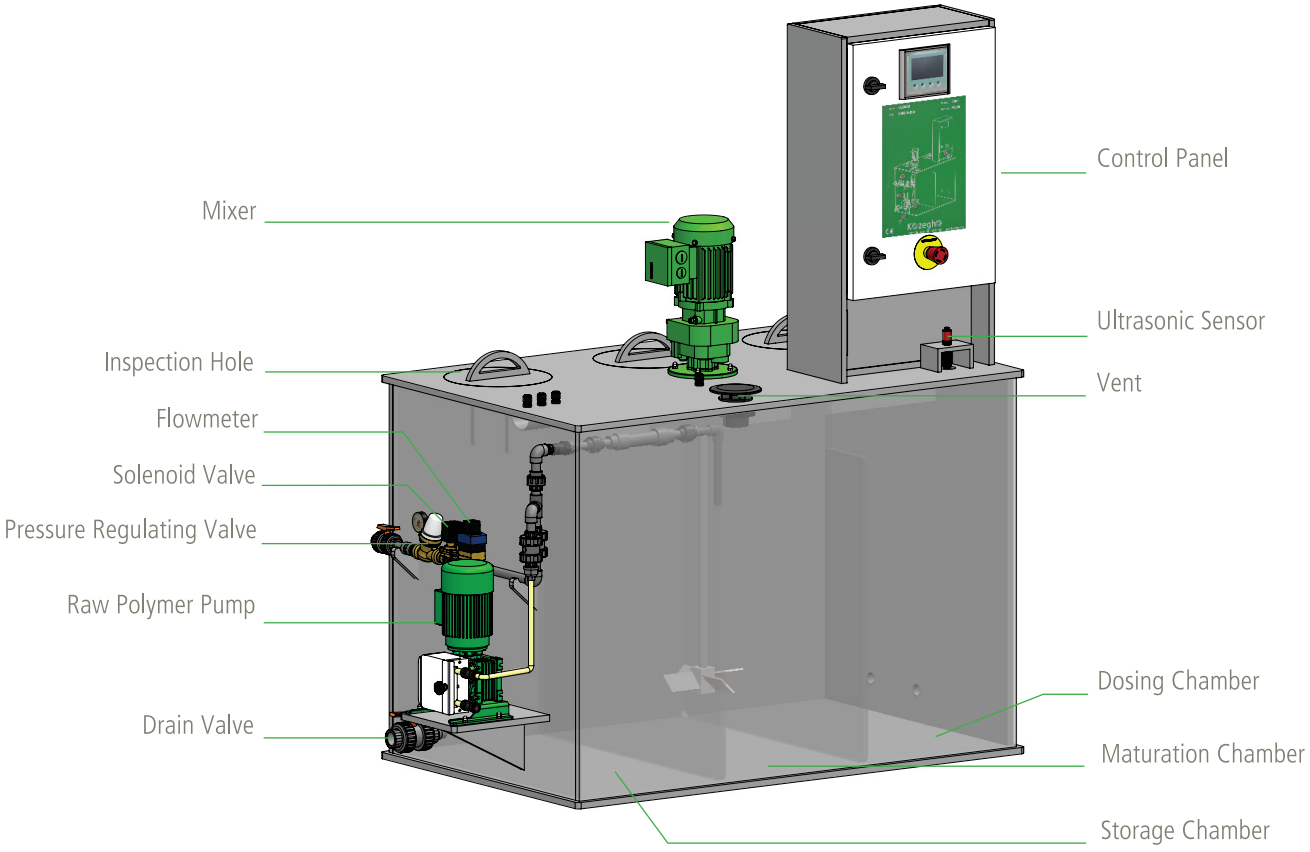
Kozegho dosing systems

PolySys CL-T

DATASHEET
Polymer Preparation System



CL-T 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 extraction capacities for this model 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 three chambers parallelepiped geometry.

First chamber is for raw polymer stock and the other two 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 process needs but our engineering department can study with costumers different options to improve present configurations to any situation.

MIXERS

Standard in maturation chambers with fast removable coupling systems, shaft and 45º 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

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

VOLUME CAPACITY
400
750
1000
1250
2000

POWER SUPPLY
3 phases + Neutral + PE: TN
3 phases + PE: NL

ARRANGEMENT
Standard: S
Inverse: I

DROPLINE AND DISCHARGE MANIFOLD
Standard Without: leave blank
With: 5

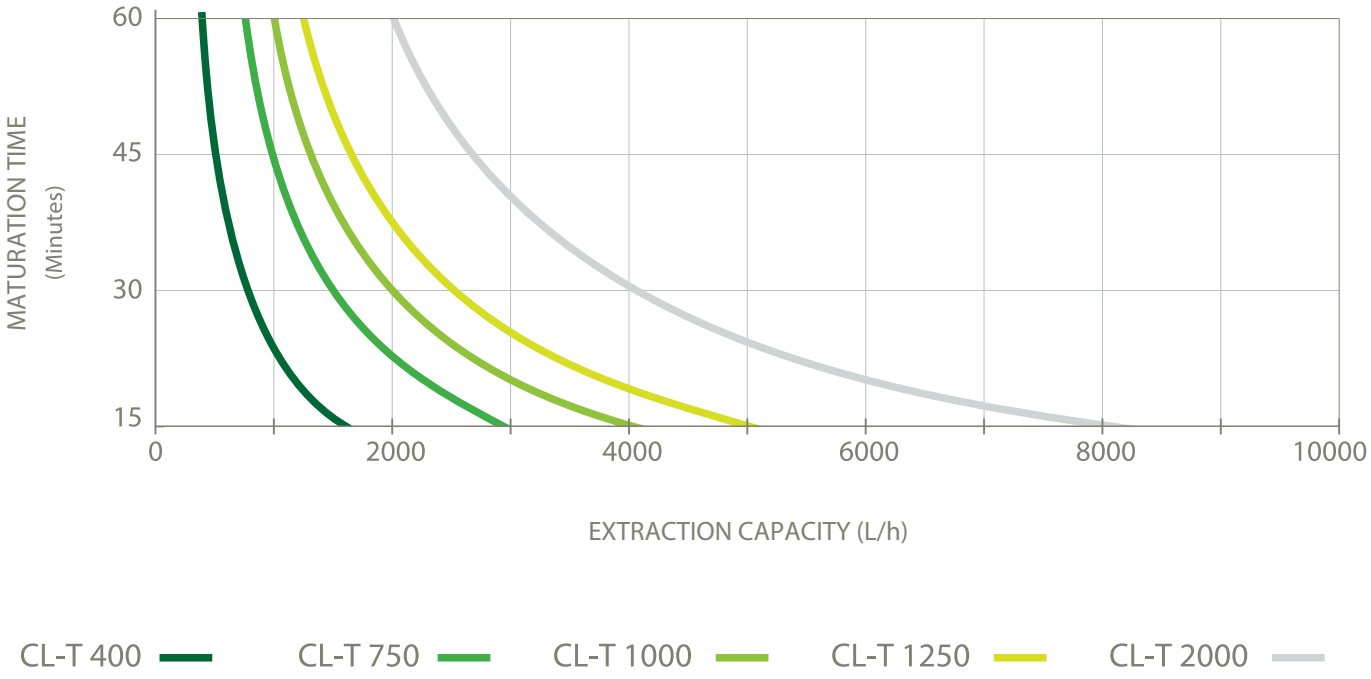
RAW POLYMER PUMP TYPE
Peristaltic: P
Membrane: M

MIXER IN DOSING CHAMBER
Standard Without: leave blank
With: 7

PROFIBUS
Standard Without: leave blank
With: 9

CL-T - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ]

Extration Capacity as a Funcion of Aging Time



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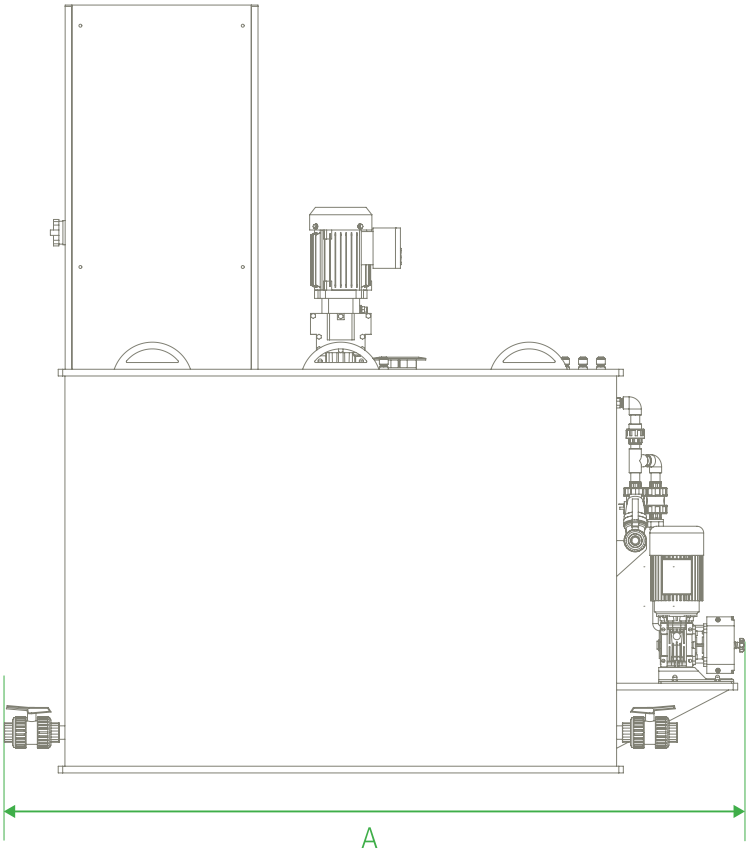
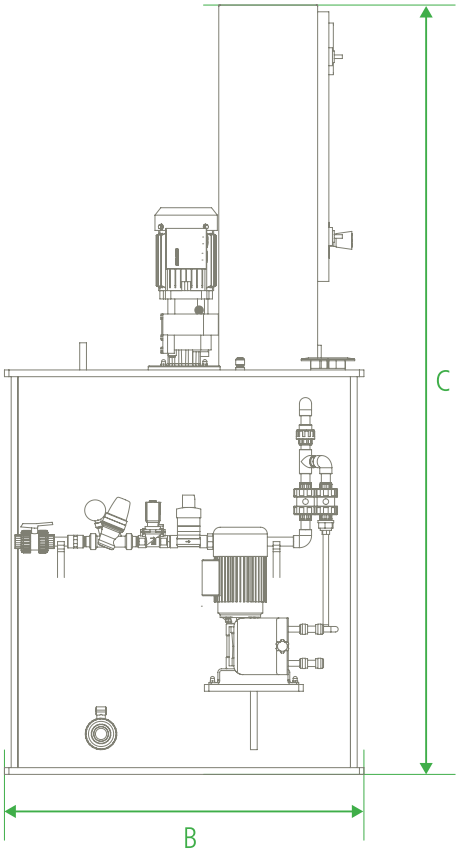
Technical Drawings

BACK VIEW



LEFT SIDE VIEW



Technical Specifications

	CL-T 400	CL-T 750	CL-T 1000	CL-T 1250	CL-T 2000
Total volume L	400	750	1000	1250	2000
Storage capacity L	200	375	500	625	1000
Total lenght as A mm	1660	1900	2445	3000	3240
Total with as B mm	800	1000	990	1060	1280
Total height as C mm	1700	1800	1830	1830	1660
15 minutes capacity L/h	1600	3000	4000	5000	8000
30 minutes capacity L/h	800	1500	2000	2500	4000
Water connection DN	15	25	25	25	25
Max. water flow L/h	1900	3500	4800	6000	9600
Dosing connection DN	25	25	25	32	32
Total rate kW	0.5	0.5	0.6	0.6	0.8
Power supply	3Ph+N	3Ph+N	3Ph+N	3Ph+N	3Ph+N
Voltage V	400	400	400	400	400
Raw polymer pump power kW	0.18	0.18	0.18	0.18	0.25
Mixers motor kW	0.25	0.25	0.37	0.37	0.75
Speed rpm	172	172	160	160	153
Propeller diameter mm	200	200	350	350	500

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