

## FlocXpress™ Pipe Flocculator

The FlocXpress Pipe Flocculator is a *plug-flow reactor* type coagulation, flocculation system, consisting of a long serpentine pipe of a specific length and diameter. The term "plug-flow" refers to the fact that retention time and mixing energy is constant in any given cross section of the pipe. As such, all particles are subjected to the same amount of mixing energy for the same amount of time. This results in a highly uniform floc with excellent separation characteristics.

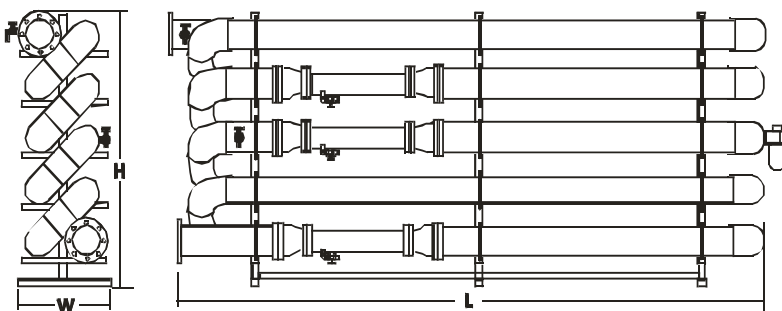


Package FlocXpress pipe flocculator with Lamella DAF

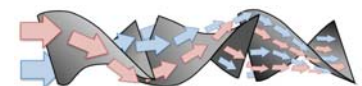


FlocXpress Pipe Flocculator are delivered standard with fitting ports for chemical dosing- Coagulant (PAC/FeCl<sub>3</sub>), Alkali/Acid, Polymer, pH probe box and coagulation, flocculation

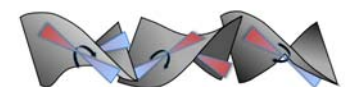
and sampling port/valve. Mixing energy and reaction energy in the Static mixer unit and in the pipe are result turbulence. For this reason a flocculants is dosed after the coagulant and pH is completed. Floc growth takes place in the pipe after the third static mixer units. In this way a uniform, ideal floc is formed for separation in the DAF tank.



Ecologix Static Mixer



Flow Division



Radial Mixing

### Benefits

- Both Coagulation, pH adjusted and Flocculation in one unit
- Requires much less space than conventional reaction tanks
- Energy efficiency; No additional energy input required
- Little or no maintenance; No moving parts

### Dimension and Technical data

Model	Flow Rate, m <sup>3</sup> /h			Dimensions				Weight / Kg		Headloss
	Min.	Avg.	Max.	L(mm)	W(mm)	H(mm)	Flange	Empty	Full	
FX-10	7.0	10.0	12.0	2700	510	920	2"	100	160	18.0m
FX-30	26.0	30.0	37.0	4450	750	1100	3"	220	485	14.0m
FX-60	50.0	60.0	65.0	4450	850	1300	4"	278	734	16.0m
FX-100	85.0	100.0	120.0	4700	1150	1350	6"	480	1,280	14.0m
FX-150	125.0	150.0	170.0	4830	1150	1450	6"	543	1,650	8.0m
FX-200	175.0	200.0	220.0	5500	1350	1450	8"	600	2,030	10.0m
FX-250	225.0	250.0	265.0	5550	1350	1700	10"	675	2,650	8.0m
FX-300	270.0	300.0	350.0	5550	1430	1700	10"	740	3,260	12.0m
FX-400	360.0	400.0	450.0	5550	1430	2000	12"	850	4,050	10.0m

- Ecologix reserves the right to alter technical data and/or to modify the product without previous notice.
- Custom size and flow rate available
- Pipe material: uPVC (HDPE and Stainless steel 304 available as option)