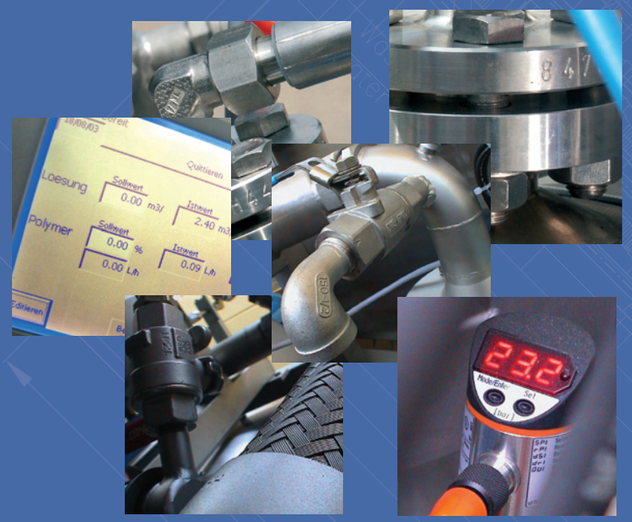
Company

Made in Germany – a high standard of technology

Today's most advanced engineers are constantly developing better and more effective tools especially designed for demanding tasks in industrial and environmental fields. For more than 15 years the headquarter of the *AquaMix* product series is located directly in Hamburg, Germany's center of engineering, high tech and logistics.



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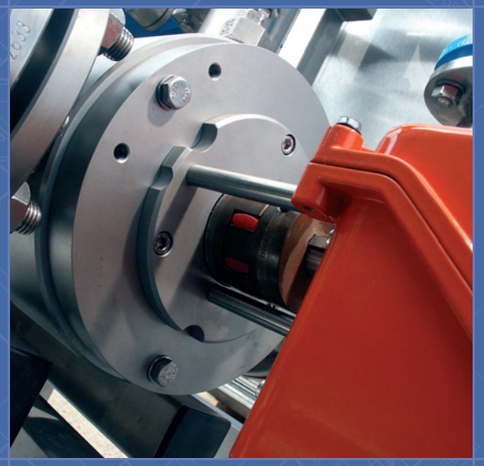
Your local distributor:

AquaMix
Polymer Makeup Unit

Recommended by all machine suppliers:

STATE OF THE ART
POLYMER MAKEUP UNIT



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AquaMix

Less consumption, increased efficiency, no more fish eyes

***AquaMix* is a single stage, continuously operating polymer dissolution unit for liquid polymer. It allows instant inline application of the polymer solution to a separation process. Tanks, metering pumps, and secondary dillution units are no longer required.**

The core of the unit is a mixing pump that dynamically supplies the required mixing energy to the solution during the pumping process exactly at the contact point of water and polymer, abruptly forming a spherical net structure. The polymer consumption decreases whereas the effectiveness of the solution increases, allowing better separation results with less chemical consumption. The mixing pump meters dilution water and polymer in the inlet chamber of the pump via two separate suction sides. On the pressure side the solution is ready for use and of high viscosity. Ageing time (time required for the formation of the three-dimensional net structure) for polymer is not necessary. Lump formation as a result of introducing both products without sufficient mixing energy – as often noticed in the case of conventional units – can be successfully avoided due to the application of *AquaMix*.

Increase of Effectiveness

Dilution water is supplied to the mixing pump from a water container through a float valve. This guarantees constant pressure and an atmospheric disconnection of the unit from the water distribution system.

The total amount of the solution as well as the flow rate of the polymer commodity are both measured on the *AquaMix*. With the help of an integrated controller, it is possible to preestablish the required concentration of the solution, which remains constant independently of the used solution amount and of the viscosity of the product. Pump litering can thus be avoided.

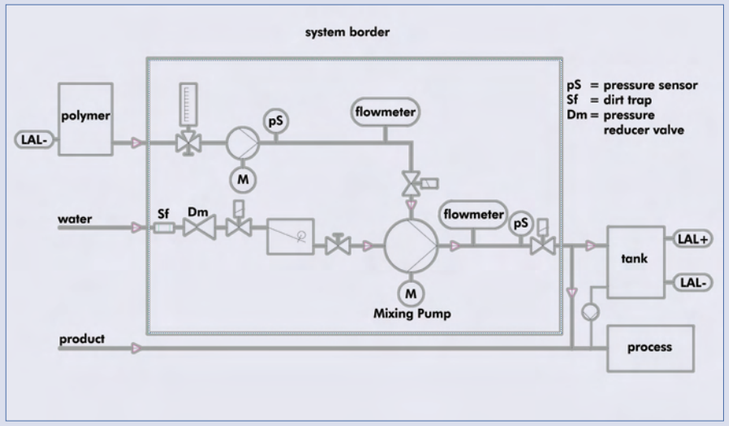
Application Insights

The concept of *AquaMix* enables an inline application of the solution to the separation process. Tanks, metering pumps, and secondary dilution units are not required anymore.

If *AquaMix* is combined with the process in case of some process alterations, the solution will be automatically adjusted accordingly.

Options

- output alteration manual/electrical
- mixing energy adjustment to applied polymer
- electrical connection to a central/remote control unit
- bus connection
- cover
- drip tray
- small footprint



Comparison Chart

type	Einheit	AquaMix 125	AquaMix 230	AquaMix 325	AquaMix 345
unit capacity	l/h	300 - 1.600	700 - 3.600	1.200 - 6.000	2.400 - 12.000
polymer quantity	l/h	1 - 11	2 - 30	4 - 60	4 - 60
concentration	%	0,05 - 1,00	0,05 - 1,00	0,05 - 1,00	0,05 - 1,00
max. viscosity	mPas	5.000	5.000	5.000	5.000
pressure height	m	20	30	30	30
length	mm	1.600	1.600	1.600	1.600
width	mm	1.000	1.000	1.000	1.000
hight	mm	1.300	1.300	1.300	1.300
weight	kg	210	240	280	320
polymer connection	inch	1	1	1	1
water connection	inch	1	1	1,5	1,5
solution connection	inch	1	1	1,5	2
electrical connection	three phase	100 - 600 V 50 - 60 Hz	100 - 600 V 50 - 60 Hz	100 - 600 V 50 - 60 Hz	100 - 600 V 50 - 60 Hz
controll system		Siemens PLC	Siemens PLC	Siemens PLC	Siemens PLC

There are many advantages of the AquaMix polymer station compared to standard products available on the market, especially are to be noticed:

- higher dry substance
- increased efficiency
- continous operation
- maintenance-free
- exact metering of polymer by flowmeter
- compact, space saving solution
- high, directly introduced mixing energy
- homogeneous mixture
- display of daily and weekly consumption of polymer and solution
- polymer economizing, low costs
- decreased costs