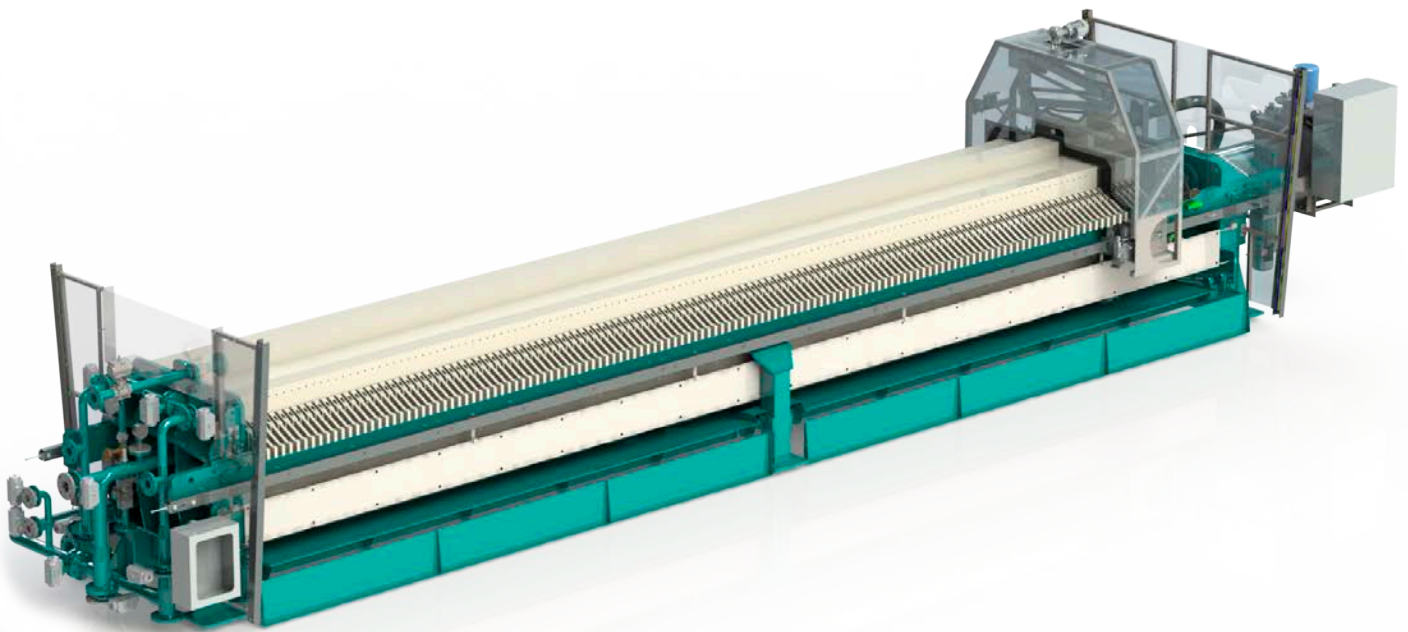




**Diemme
Filtration**



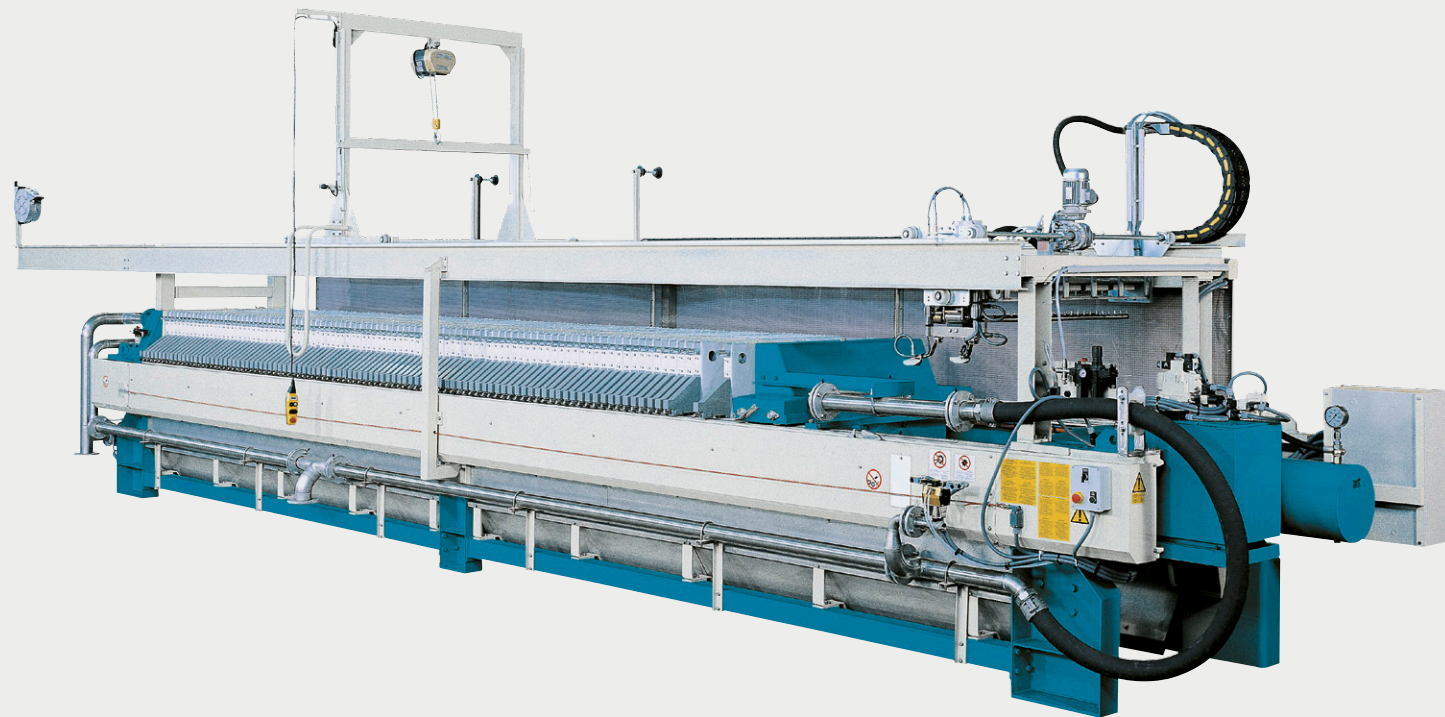
Solid-liquid separation technology for industrial processes

SIDE BEAM FILTER PRESS AUTOMAT

**A brand of
Aqseptence Group**

AUTOMAT

High automation
and complete flexibility



Design

AUTOMAT is a side-beam Diemme® Filtration filter press, characterised by functional design and extraordinary versatility. Thanks to its strong structure and wide range of models the AUTOMAT filter is able to meet any requirement of solid-liquid separation.

Automation

Thanks to the PLC (programmable logic controller), the AUTOMAT filter can work in fully automatic mode, with the operator supervising only the cake-discharging phase.

Flexibility

AUTOMAT filters offer the highest level of flexibility and production capacity according to the specific requirements of their required applications.

Model	Plate size (mm)	Working pressure (bar)	No. of installed plates		Cake volume (l)		Filtration area (m ²)		Length (mm)		Empty weight (kg)	
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
630	630x630	15	38	84	244	548	29	46	2000	4400	1600	2300
800	800x800	15	46	118	535	1390	43	122	2600	6700	3700	7600
1000	1000x1000	15	34	134	700	2600	50	205	6000	8000	6200	13900
1200	1200x1200	15	74	161	2000	4352	160	342	4700	10300	15460	27600
1500	1500x1500	15	73	177	3200	7800	247	603	5200	12600	23300	41800
1520	1500x2000	15	73	158	5800	1255	320	697	6000	13000	30600	45600

Safety and reliability

Plate-lifting hoist
Plates can be removed from the filter easily using the optional plate-lifting hoist in event of extraordinary maintenance.



High-pressure washing
A robotic arm equipped with nozzles cleans the cloths with high-pressure water jets directed perpendicularly onto the cloth surface. This system guarantees thorough cleaning of the cloths, and consequently, helps maintain an optimum filtration rate.



PLC
The AUTOMAT are provided with an automation system equipped with a Human Machine Interface(HMI) that simplify the monitoring of the filter functioning, damages diagnostics and allows the continuous adaptation of the filtration parameters in order to optimise the variable requests of the

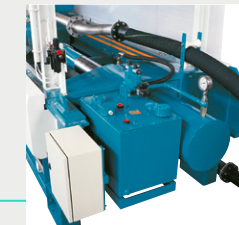


Plate pack closing system
The plate pack closing system is highly reliable and consists of an hydraulic jack which moves the mobile header plate, thus opening or closing the plate pack.



Photocell safety curtain
The operator's safety is ensured by a photoelectric barrier which immediately stops the filter when the light curtain is broken.

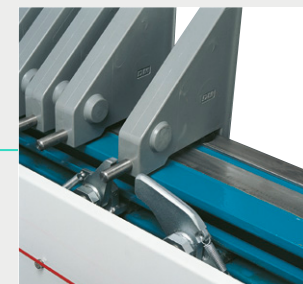
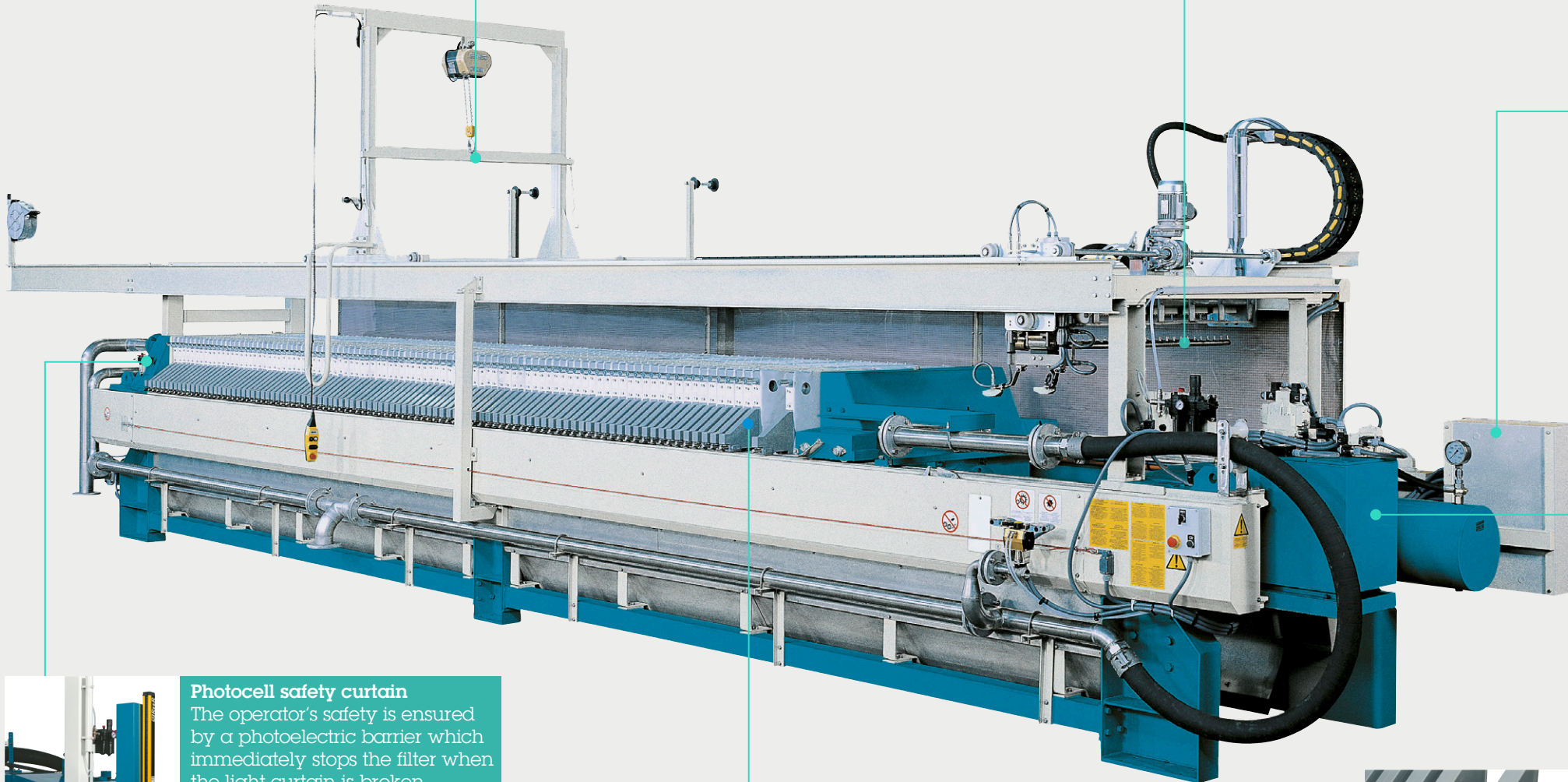


Plate shifting
The plate shifting mechanism consists of hooks attached to chains located within the side-beams. The plates are shifted sequentially without the operator's intervention. The plate shifting drive motor is equipped with a frequency inverter and the shifting speed can be adjusted by the PLC (programmable logic



AUTOMAT

Aqseptence Group offers customised features for the complete AUTOMAT range

AUTOMAT 630

The picture below shows an AUTOMAT 630 membrane filter press, equipped with retractable drip-tray in AISI 316L stainless steel.



AUTOMAT 1200

The picture on the left shows an AUTOMAT 1200 membrane filter press with FDA (Food and Drug Administration) certification for the pharmaceutical and food industry. Feed and discharge pipelines are in AISI 316L stainless steel with mirror-polished sanitary surfaces.



AUTOMAT 1520

The picture on the left shows an AUTOMAT 1520 equipped with two hydraulic jacks ensuring an improved distribution of closing pressure and an effective plate pack closing.



Aqseptence Group srl
Filtration and Thickening Systems

Via Gessi 16
48022 Lugo
Italy
Phone +39 0545 20611
Fax +39 0545 30358
info.diemmefiltration@aqseptence.com

www.aqseptence.com