



# OUTOTEC LAROX PF FILTER

Outotec Larox® PF (pressure filters) are fully automatic recessed-plate diaphragm filters with horizontally oriented chambers. We offer a range of models for various capacities, all designed for easy maintenance and consistent results under varying process conditions. Our comprehensive support services can help you select the correct filter model, assist with plant design, and ensure efficient and reliable operation through high-quality maintenance.

## BENEFITS

- Suitable for wide range of capacities and applications
- Dry filter cake with guaranteed discharge
- Highly efficient solids washing
- Robust design with flexible, reliable operation
- Fully automatic for consistent results under varying process conditions
- Low energy and water consumption

# PROVEN TECHNOLOGY FOR RELIABLE OPERATION

With over 1,200 installations around the world, Outotec Larox® PF Filters are the benchmark for reliability and efficiency in a wide range of applications.

The individual filter plates have single-sided filtration areas of 1.6, 2.5, 6, or 9 m<sup>2</sup> depending on the model and an operating pressure of up to 16 bar. The plates are stacked vertically to give a total filtration area of 1.6–252 m<sup>2</sup>. A single filter cloth zigzags between the filter plates and both sides of the filter cloth are utilized for filtration. We can supply a range of different cloth types for different applications.

The filter cloth ensures efficient and thorough cake discharge from each individual chamber at every cycle, eliminating the need for manual intervention.

## Consistent performance and simpler maintenance

Outotec Larox PF Filters are fully automatic, operating either with a stand-alone panel and integrated PLC or through a distributed control system. Automation extends beyond simple filter sequencing to process control, ensuring consistent results under varying process conditions.

After each cycle, the filter cloth is passed through high-pressure water sprays to remove any embedded solids. This maintains cloth permeability and consistent filter performance by ensuring every chamber has equal cloth resistance, and also extends cloth life. Our single-cloth system makes maintenance simple and quick, with cloth changeover typically taking as little as 30 minutes and requiring only two technicians. Furthermore, a thorough cloth inspection can be carried out without the need for equipment shutdown.

## TECHNICAL SPECIFICATIONS

Please note that the figures below may vary depending on chamber height and plate type. Contact Outotec for exact figures.

### OUTOTEC LAROX PF 1.6 SERIES

1.6 m<sup>2</sup> filter plate/45 and 60 mm chamber steel plates/40 mm chamber PP plates

PF 1.6 SERIES		1.6	3.2	4.7	6.3	7.9	9.5	11	12.6	
Filtration area	m <sup>2</sup>	1.6	3.2	4.7	6.3	7.9	9.5	11	12.6	
Filter plates	pes	1	2	3	4	5	6	7	8	
Filter plate size	mm	900 x 1750								
Cloth width	m	1.05								
Cloth length	m	17	22		28		33			
Filter length	mm	3650								
Filter width	mm	2500								
Filter height	mm	2300	2300	2400	2400	2500	2600	2700	2800	
Filter weight	t	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	
Required floor area	m <sup>2</sup>	36								
Hydraulic unit	kW (rpm)	18.5 (1500)								
Pressing water pump	kW (rpm)	4 (3000)				11 (3000)				
Pressing water tank	l	500				1500				
Hydraulic unit oil tank	l	250								

Note! PP plates available from size 6.3 and up.





## OUTOTEC LAROX PF 12 SERIES

1.6 m<sup>2</sup> filter plate/45 and 60 mm chamber steel plates/40 mm chamber PP plates

PF 12 SERIES		9.5	12.5	16	19	22	25	28	32	35	38	
Filtration area	m <sup>2</sup>	9.5	12.6	16	19	22	25	28	32	35	38	
Filter plates	pcs	6	8	10	12	14	16	18	20	22	24	
Filter plate size	mm	900 x 1750										
Cloth width	m	1.05										
Cloth length	m	21.5	26.0	32.0	37.0	42.5	47.0	53.0	57.0	63.5	68.5	
Filter length	mm	4805										
Filter width	mm	3800										
Filter height	mm	2600	2600	3100	3100	3600	3600	4100	4100	4600	4600	
Filter weight	t	11.2	12.0	13.2	14.0	15.6	16.3	18.2	18.9	19.8	20.5	
Required floor area	m <sup>2</sup>	39.5										
Hydraulic unit motor	kW (rpm)	22 (1500)										
Water pump motor	kW (rpm)	11 (3000)					18.5 (3000)					
Pressing water tank	l	1500					3000					
Hydraulic unit oil tank	l	300										



## OUTOTEC LAROX PF 15 SERIES

2.5 m<sup>2</sup> filter plate/45 and 60 mm chamber steel plates/45 and 60 mm chamber PP plates

PF 15 SERIES		25	30	35	40	45	50	55	60	
Filtration area	m <sup>2</sup>	25	30	35	40	45	50	55	60	
Filter plates	pcs	10	12	14	16	18	20	22	24	
Filter plate size	mm	1050 x 2400								
Cloth width	m	1.21								
Cloth length	m	43	50	56	63	69	76	83	90	
Filter length	mm	5150								
Filter width	mm	4760								
Filter height	mm	4680	4680	4680	5640	5640	5640	6280	6280	
Filter weight	t	34	36	38	41	43	45	47	49	
Required floor area	m <sup>2</sup>	84								
Hydraulic unit motor	kW (rpm)	22 (1500)								
Water pump motor	kW (rpm)	18.5 (3000)			37 (3000)					
Pressing water tank	l	3000			6000					
Hydraulic unit oil tank	l	300								

## OUTOTEC LAROX PF 48 SERIES

6.0 m<sup>2</sup> filter plate/33, 45 and 60 mm chamber steel plates

PF 48 SERIES		48	60	72	84	96	108	120	132	144	156	168	
Filtration area	m <sup>2</sup>	48	60	72	84	96	108	120	132	144	156	168	
Filter plates	pcs	8	10	12	14	16	18	20	22	24	26	28	
Filter plate size	mm	1500 x 4010											
Cloth width	m	1.70											
Cloth length	m	53.5	63.5	73	85	94.5	106.5	115.5	127	137	149	159	
Filter length	mm	7935											
Filter width	mm	5470							5775				
Filter height	mm	5170			5860			6340		6920		7610	
Filter weight	t	65			74		84		93		102		
Required floor area	m <sup>2</sup>	110											
Installed power (peak)	kW	105 (125)											
Hydraulic unit oil tank	l	800											

## OUTOTEC LAROX PF 60 SERIES

6.0 m<sup>2</sup> filter plate/33, 45, 60, and 75 mm chamber steel plates

PF 60 SERIES		60	72	84	96	108	120	132	144	156
Filtration area	m <sup>2</sup>	60	72	84	96	108	120	132	144	156
Filter plates	pcs	10	12	14	16	18	20	22	24	26
Filter plate size	mm	1500 x 4010								
Cloths width	m	1.70								
Cloth length	m	62.5	73.5	84.5	95.5	105.5	116.5	128	139	149
Filter length	mm	7935								
Filter width	mm	5580								
Filter height	mm	5508	5508	6208	6208	6908	6908	7608	7608	7608
Filter weight	t	69	72	77.0	80.0	86.0	89.0	94.0	97.0	100.0
Required floor area	m <sup>2</sup>	110								
Installed power (peak)	kW	105 (125)								
Hydraulic unit oil tank	l	800								



## OUTOTEC LAROX PF 180 SERIES

9.0 m<sup>2</sup> filter plate/45, 60, 75, and 90 mm chamber steel plates

PF 180 SERIES		144	162	180	198	216	234	252
Filtration area	m <sup>2</sup>	144	162	180	198	216	234	252
Filter plates	pcs	16	18	20	22	24	26	28
Filter plate size	mm	1500 x 6010						
Cloth width	m	1.73						
Cloth length	m	--	140	155	170	185	200	215
Filter length	mm	9400						
Filter width	mm	5400						
Filter height	mm	--	8000	8000	8000	8000	8730	8730
Filter weight	t	131	136.5	140.5	145.5	150	156	160
Required floor area	m <sup>2</sup>	190						
Installed power (peak)	kW	170 (200)						
Hydraulic unit oil tank	l	800						

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Outotec provides leading technologies and services for the sustainable use of Earth's natural resources. As the global leader in minerals and metals processing technology, we have developed many breakthrough technologies over the decades for our customers in metals and mining industry. We also provide innovative solutions for industrial water treatment, the utilization of alternative energy sources and the chemical industry. Outotec shares are listed on NASDAQ OMX Helsinki. [www.outotec.com](http://www.outotec.com)