Our Mission
Our mission is solid/liquid separation; we add stakeholder value by making our customers’ processes more competitive.

Our Vision
Larox as the world process industry’s solid/liquid separation solution provider.

Our Values
People to people – Sisu – Progress
Together... we make it happen... one step ahead for the benefit of our customers.
Operating Principles

The Larox C Series filter is the latest version of the well-proven Larox automatic pressure filter (horizontal plate type) with over 900 installations worldwide.

It offers the ability to dewater and wash fine and difficult to dewater solids in high volumes, producing very high purity, dry filter cakes all in a fully automatic mode. Continuing a history of continuous product development, the latest design features improved corrosion prevention, bigger unit sizes and the option to utilize PP plate technology.

Product Description

The heart of the Larox automatic pressure filter is horizontally configured, recessed plate membrane chambers. A unique filter plate and diaphragm design enables a very wide variety of materials to be effectively processed and produce the optimum result.

Filtration

The filtration cycle starts by pumping slurry into all the filtration chambers simultaneously. The filter cake is formed as filtrate is displaced from the chamber by more slurry being pumped in. As the solids build the pumping pressure is increased, forcing more filtrate through the cake and filter cloth until the desired cake thickness has been achieved. The solids filtration process, together with the tightly woven filter cloths, ensures exceptionally clear filtrates.

Diaphragm Pressing (pre-squeeze)

After the filter cake is formed the diaphragm located at the top of each chamber is automatically inflated, thus reducing the chamber volume and squeezing the solids to remove more filtrate. The high pressure maximizes filtration efficiency. By pressing with the diaphragm, the cake is squeezed into a uniform thickness producing a homogeneous cake, which enhances the subsequent cake washing and air blowing steps.
Cake Washing

The dewatered solids in-situ maximize solute recovery and/or solids purity. The wash liquid is distributed evenly across the filter cake due to the homogeneous cake surface produced by the squeezing step combined with the horizontal configuration of the filter plate. All washes are by displacement, thus offering the most effective possible wash results. Multiple wash steps and liquids are possible depending on the process and the desired result.

Diaphragm Pressing (post-squeeze)

After addition of the wash liquid the diaphragm is re-inflated, forcing the wash liquid uniformly through the filter cake. This produces a washing efficiency of over 95% while producing consistent dry solids quality and ensuring the use of the minimum possible wash volume. The wash and pressing steps can be repeated as needed.

Air Blowing

Compressed air is blown through the filter cake for the final dewatering of the cake. This ensures a discharged cake of consistent moisture at the lowest possible level exiting the filter, as it can be controlled precisely by adjusting the pressure and duration.

Cake Discharge and Cloth Washing

Finally the filter cakes are discharged from the filter by opening the filter plate pack followed by advancing the filter cloth. This conveys the cakes from the filter chambers. Cake discharge is always from two sides of the filter.

Discharge knives on the roller at the end of each chamber ensure residue-free discharge.

During the cake discharge cycle the filter cloth is continuously washed on both sides with high-pressure wash liquid to minimize cloth blinding and ensure consistent filtration results and a longer cloth life.
Benefits

Reduced lifetime production costs
- Energy consumption – electrical power, fuel for subsequent drying
- Wash water consumption
- Wastewater treatment costs

Improved product quality, consistency and value
- Larox-developed fully automated process control with continuous optimization
- Uniform and highest possible quality washing

Improved safety, health and environmental performance
- Much less wastewater with much lower solids content
- Reduced cake moisture means less thermal drying, reducing atmospheric emissions

Increased yields and productivity
- Runs 24 hours per day, without the need for regular cloth changing
- Backed by the Larox Service network and its “Performance for Life” program
- Very little loss of solids in filtrate, and less filtrate due to much lower consumption of wash water
- Lower moisture in cakes means a potentially significant increase in dryer capacity

Superior Performance
- Can handle difficult and slow filtering materials
- Inflatable diaphragms with up to 16 bar pressure ensure that maximum separation force is applied to the cake solids, resulting in maximum removal of the liquid phase
- Homogeneous cake formation is guaranteed by the diaphragm squeezing action
- Optimal cake washing due to homogeneous cakes and the flat filter plate configuration
- Exceptionally dry filter cakes resulting in improved product quality and reduced downstream operating costs
- High unit capacity and vertical construction reduce the footprint for installation
- Filter cloth is washed during every discharge cycle
- Very consistent filter cake quality with the lowest possible residual moisture
- Larox automation system ensures consistent throughput and results, even with variable conditions
- The endless cloth ensures automatic and complete cake discharge
- Superior processing while cutting emissions to the lowest possible levels
- Energy efficient operation
**Easy Operation**

- Fully automatic, attendance free operation, 24/7
- Guaranteed, highly efficient cake discharge within seconds
- Continuous cloth washing after each cycle ensures optimum performance at all times
- Energy efficient operation
- Low per kilo operating cost
- Quick and simple filter cloth change
- Enclosures ensure safe operation while allowing easy access during maintenance

**Handles Difficult Materials**

The Larox C Series automatic pressure filter is ideally suited for more difficult to filter materials where filter cakes have to be efficiently washed.

**A full range of chamber depths and plate sizes allows maximum flexibility to configure the optimal unit for efficiently handling almost any product. Low chamber depths together with the big plate sizes enable a larger filtration area per filter unit for slower filtering products.**

**Corrosion Resistant Operation**

- New PP-plate technology for processing an even wider range of corrosive slurries
- A wide selection of materials ensures a suitable execution for all wetted parts, stainless steel construction is standard, but higher grades steels including duplex steel SAF2205 and 1.4462 are also available for more difficult environments

**Flat Diaphragm Design**

The Larox flat diaphragm design, which is available for all plate sizes, ensures the optimum diaphragm lifetime and offers a number of advantages:
- More and higher grade rubber selections
- Wear resistant materials
- Longer lifetime
- Easy and fast exchange

**Cake Discharge**

The endless filter cloth guarantees the quick discharge of all the cakes as it advances during the discharge cycle. At the same time, the integrated cloth washing device cleans both sides of the filter cloth with high-pressure water, thus preventing the cloth from blinding and ensuring consistent filtration conditions for the next cycle.
Applications

The excellent washing results and extremely dry filter cakes obtained using the C Series filter have convinced many customers to select Larox automated pressure filters for their process. The applications in which Larox C Series filters are used include:

**Bio-processing**
- Biomass
- Bio-pharmaceuticals
- Enzymes
- Fermentation broth

**Chemicals**
- Acrylonitrile
- Catalysts
- Di- and tri- calcium phosphate
- Fungicides, herbicides & pesticides
- Gypsum
- Lignin
- Magnesium hydroxide
- Metal salts
- Metal stearates
- Optical brighteners
- Phosphate salts
- Phosphoric acid
- Pigments and dyestuffs
- Polymers
- Toner (chemically produced)
- Zeolites

**Industrial minerals**
- Alumina
- Boric acid
- Ground calcium carbonate
- Precipitated calcium carbonate
- Silica and silicates
- Talc
- Titanium dioxide

**Pharmaceuticals**
- Antibiotics
- Intermediates
- Proteins
- Vitamins

**Waste processes**
- Green liquor dregs
  (Kraft pulp process)
- Lime mud (Kraft pulp process)
- PVC waste
- Soda ash waste
- Sulfur (Sufurox, Lo-cat etc.)
- Waste mud

**Foodstuffs**
- Beet sugar
- Microcrystalline cellulose
- Starches (all types)
- Sorbitol
- Xylose
The Larox C1.6 Series comes with the smallest size plate in the C Series. The range starts with a single plate with an area of 1.575 m² and goes up to a maximum of 12 plates. The C1.6 Series comes in two frame sizes and is expandable within each frame one plate at a time. It is an extremely compact unit ideally suited for small duties. Larox C1.6 Series units are normally delivered as one-piece, fully assembled units requiring minimal on-site work.

**Filter Plates**

These filters are available with stainless steel plates with 45 or 60 mm deep chambers or polypropylene plates with 40 mm deep chambers. The filter plates for the C1.6 Series are available in the following materials:

- AISI 304L
- AISI 316L
- SAF2204
- EN 1.4482
- Polypropylene

Cake compression diaphragms are available in:

- Natural rubber
- Butyl rubber
- EPDM
- Hypalon

To ensure that the Larox C1.6 Series suits a wide range of operating conditions, all plates are fitted with heavy-duty cloth rollers and bearings for long life and low maintenance.

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**Larox C1.6 Pressure Filter equipped with 40, 45 or 60 mm chamber depth.**

<table>
<thead>
<tr>
<th>Larox C1.6 Series</th>
<th>1.6*</th>
<th>3.2*</th>
<th>4.7</th>
<th>6.3</th>
<th>7.9*</th>
<th>9.5*</th>
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<th>12.6</th>
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<tbody>
<tr>
<td>Filtration area</td>
<td>m²</td>
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<td>3.2</td>
<td>4.7</td>
<td>6.3</td>
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<tr>
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<td>11</td>
<td>11.5</td>
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<td><strong>Effective filter volume</strong></td>
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<tr>
<td>Chamber volume (40 mm PP)</td>
<td>m³</td>
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<td>0.126</td>
<td>0.189</td>
<td>0.252</td>
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<tr>
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<td>22</td>
<td>28</td>
<td>33</td>
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</table>

The technical data is subject to change without notice. *Expandable
Larox C15 Series

The C15 Series is the intermediate size range with a filter plate area of 2.5 m². In this case the smallest machine has 6 plates. There are 3 frame sizes, and within each frame they can be expanded in two plate increments. Accordingly, the smallest filter in this series has a filtration area of 15 m² and the largest 50 m².

These filters have been designed to minimize maintenance, and platforms provide easy access to all points of the filter.

Filter Plates

The filter plates for the C15 Series are available in the following materials:
- AISI 304L
- AISI 316L
- SAF2204
- EN 1.4482
- Polypropylene

Cake compression diaphragms are available in:
- Natural rubber
- Butyl rubber
- Hypalon

To ensure that the Larox C15 Series suits a wide range of operating conditions, all plates are fitted with heavy-duty cloth rollers and bearings for long life and low maintenance.

| Larox C15 Series Pressure Filter equipped with 33 or 45 mm chamber depth. |
|-------------------|---|---|---|---|---|---|---|---|---|
|                  | 15° | 20° | 25 | 25° | 30° | 35 | 40° | 45° | 50 |
| Filtration area  | m²  | 15  | 20 | 25  | 25  | 30 | 35  | 40  | 45  | 50 |
| Frame size       |     | 1   | 2  | 2   | 3   |    |     |     |     |    |
| Maximum pressure | bar |     | 16 |     |     |    |     |     |     |    |
| Weight without auxiliary equipment | t | 28 | 29 | 30 | 32 | 33 | 34 | 38 | 39 | 40 |
| Effective filter volume |
| Chamber volume (45) | m³ | 0.675 | 0.900 | 1.125 | 1.125 | 1.350 | 1.575 | 1.800 | 2.075 | 2.250 |
| Chamber volume (60) | m³ | 0.900 | 1.200 | 1.500 | 1.500 | 1.800 | 2.100 | 2.400 | 2.700 | 3.000 |
| Filter plates     | pcs | 6   | 8  | 10  | 10  | 12  | 14  | 16  | 18  | 20 |
| Dimensions        |
| Height            | mm  | 400 | 4600 | 5950 |
| Length            | mm  | 5100|
| Width             | mm  | 3900|
| Filter plate size | mm  | 1050 x 2400|
| Filter cloth: width | m  | 1.18|
| length            | m   | 29  | 35  | 41  | 42  | 49  | 54  | 61  | 67  | 74 |

*Expandable

The technical data is subject to change without notice.
Larox C48 Series

The C48 Series is the largest model with filter areas of up to 168 m². It is the largest automatic pressure filter currently built. The C48 Series uses filter plates each with an area of 6.0 m². In this case the smallest machine has 8 plates and there are 5 frame sizes, each of which can again be expanded in two plate increments. These filters have been specifically designed for easy maintenance and corrosion protection of all components.

Filter Plates

The filter plates for the C48 Series are available in:

- AISI 304L
- AISI 316L
- SAF2204
- EN 1.4482
- Polypropylene (only in old C60 design)

Cake compression diaphragms are available in:

- Natural rubber
- Butyl rubber
- EPDM

Larox C48 Series Pressure Filter equipped with 33, 45 or 60 mm chamber depth.

<table>
<thead>
<tr>
<th>Larox C48 Series (33 or 45 mm)</th>
<th>48&quot;</th>
<th>60&quot;</th>
<th>72&quot;</th>
<th>84&quot;</th>
<th>96&quot;</th>
<th>108&quot;</th>
<th>120</th>
<th>132&quot;</th>
<th>144</th>
<th>156&quot;</th>
<th>168</th>
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<tbody>
<tr>
<td>Filtration area</td>
<td>m²</td>
<td>48</td>
<td>60</td>
<td>72</td>
<td>84</td>
<td>96</td>
<td>108</td>
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<tr>
<td>Maximum pressure</td>
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<td>65</td>
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<td>74</td>
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<td>99</td>
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<td>74</td>
<td>81</td>
<td>84</td>
<td>90</td>
<td>93</td>
<td>99</td>
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<td>Effective filter volume</td>
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<tr>
<td>Chamber volume (45)</td>
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<td>2.45</td>
<td>2.86</td>
<td>3.26</td>
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<td>16</td>
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<table>
<thead>
<tr>
<th>Larox C48 Series (60 mm)</th>
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<th>72&quot;</th>
<th>84&quot;</th>
<th>84&quot;</th>
<th>96</th>
<th>108&quot;</th>
<th>120</th>
<th>132&quot;</th>
<th>144</th>
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<tbody>
<tr>
<td>Filtration area</td>
<td>m²</td>
<td>48</td>
<td>60</td>
<td>72</td>
<td>84</td>
<td>84</td>
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<td>62.5</td>
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<td>85</td>
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<td>106</td>
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<tr>
<td>Effective filter volume</td>
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<td>Filter cloth: width</td>
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<td>106</td>
<td>116</td>
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</table>
Options, Ancillaries, Engineered Packages

Larox C Series filters can be packaged with a number of options and ancillary devices to complete your optimum process solution.

Access Platforms
On C15 and C48 Series filters, access platforms are available as required.

Air Compressors
Larox can provide high and low pressure air compressors and all necessary ancillaries, including tanks, as required.

Automation
The Larox automation system automates, optimizes and visualizes the entire filtration process, allowing filtration plant operators to achieve better filtration performance and cost-efficient operations with minimal intervention. Larox automation solutions include plant floor level automation for all filter types, as well as corporate-wide visualization, real-time reporting and product analysis availability to the filter plant. All Larox automation solutions share the same architecture with modular functions.

Cake Conveyors
Heavy-duty belt conveyors for collecting the cake under the discharge chutes can be provided for the C48 series.

cGMP packages
All C Series filters can be built to meet cGMP (current Good Manufacturing Practices) for food and pharmaceutical applications. Three documentation package levels are also available:
- CDP (Compliance Documentation Package)
- QDP (Qualification Documentation Package)
- EDP (Extended Documentation Package)

Cloth Wash Supply Station
A cloth washing supply station complete with a high-pressure pump can be provided to effectively clean the filter cloth during the discharge cycle.

Hydraulic Power Pack
All Larox C Series filters are provided with a state-of-the-art hydraulic system for operating the piston rods that open and close the plate pack.

Slurry and Wash Water Pumps
When required a slurry feed pump complete with a variable frequency controller can be provided. Wash water pumps can also be supplied either as separate items or as the second function of the slurry pump.

Engineered Packages
Larox can offer a range of engineering packages to meet almost any level of detail that may be required. With over 1 500 installations and 40 years of experience, Larox offers customers the optimal solution for their process needs.
Testing

Larox offers a versatile range of test filtration services. After each test a detailed report is prepared, quantifying the technical and economic benefits of the Larox solution.

Testing can be conducted at the Larox Research Center but is normally done at the client’s facilities. The Research Center continuously updates the testing equipment to ensure accurate results. It also maintains the Larox Databank, a source of detailed information on over 10,000 filtration tests.

Bench Test Filters

Larox’s bench test pressure and vacuum filters are used for preliminary screening and when only a limited amount of slurry is available. These test filters are also available to clients who wish to perform their own tests on their slurry.

Laboratory Filters

Larox’s laboratory pressure and vacuum filters simulate the process at the client’s production site on a smaller scale. All process and cost benefits of the application are projected with reliable test results that can be used for filter sizing.

Pilot Filters

Larox test engineers work closely with the client’s personnel to conduct test filtration for full-scale process evaluations on site. Pilot units can be connected directly to the client’s filtration process. Larox has a range of pilot filters for pressure, polishing, vacuum, and vacuum belt filtration to meet all possible process requirements. Pilot testing typically takes place after laboratory scale testing.
Performance for Life

Larox provides its customers with an unrivalled combination of process expertise and service. Larox delivers complete filtration solutions, which exceed the customers’ expectations for product quality, safety, value and consistency. All this in energy saving and environmentally friendly way.

Larox offers a comprehensive Performance for Life service concept for its filtration solutions. Larox’s customer-centered services begin with strategic lifecycle planning already at the investment phase. A nominated customer support engineer handles each project together with the project manager, providing a familiar and reliable point of contact for the customer throughout the entire lifetime of the filtration solution. Start-up and training services ensure optimal performance, while reliability is maintained through spare part services, service agreements and maintenance support. Filter performance can be further enhanced through process optimization and modernizations. Finally, Larox offers refurbishment and relocation/resale services that maximize the value of the original filtration investment.

Larox’s mission is to work together with its customers on a day-to-day basis to achieve their system and process objectives for the entire lifetime of the solution. To support customers in achieving competitiveness in their business, Larox helps them to maximize availability, minimize operating cost and optimize process results. The Performance for Life service concept developed by Larox has proven to be an optimized, cost-effective and high-quality approach that meets the individual needs of customers.
Larox is committed to helping you...

- Reduce lifetime production costs
- Improve product quality, value and consistency
- Improve safety, health and environmental (SHE) performance
- Improve product yield
Ceramec
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