LOSMA®

WORKING CLEAN, BREATHING HEALTHY

Liquid filters

Air filters

Engineering

# Extra

## Gravity bed coolant filter


ENG

# Extra

Extra and Extra High are two new gravity bed filters for coolants, which uses non-woven filtration tissue for eliminating magnetic and non-magnetic particles from neat oils and emulsions.

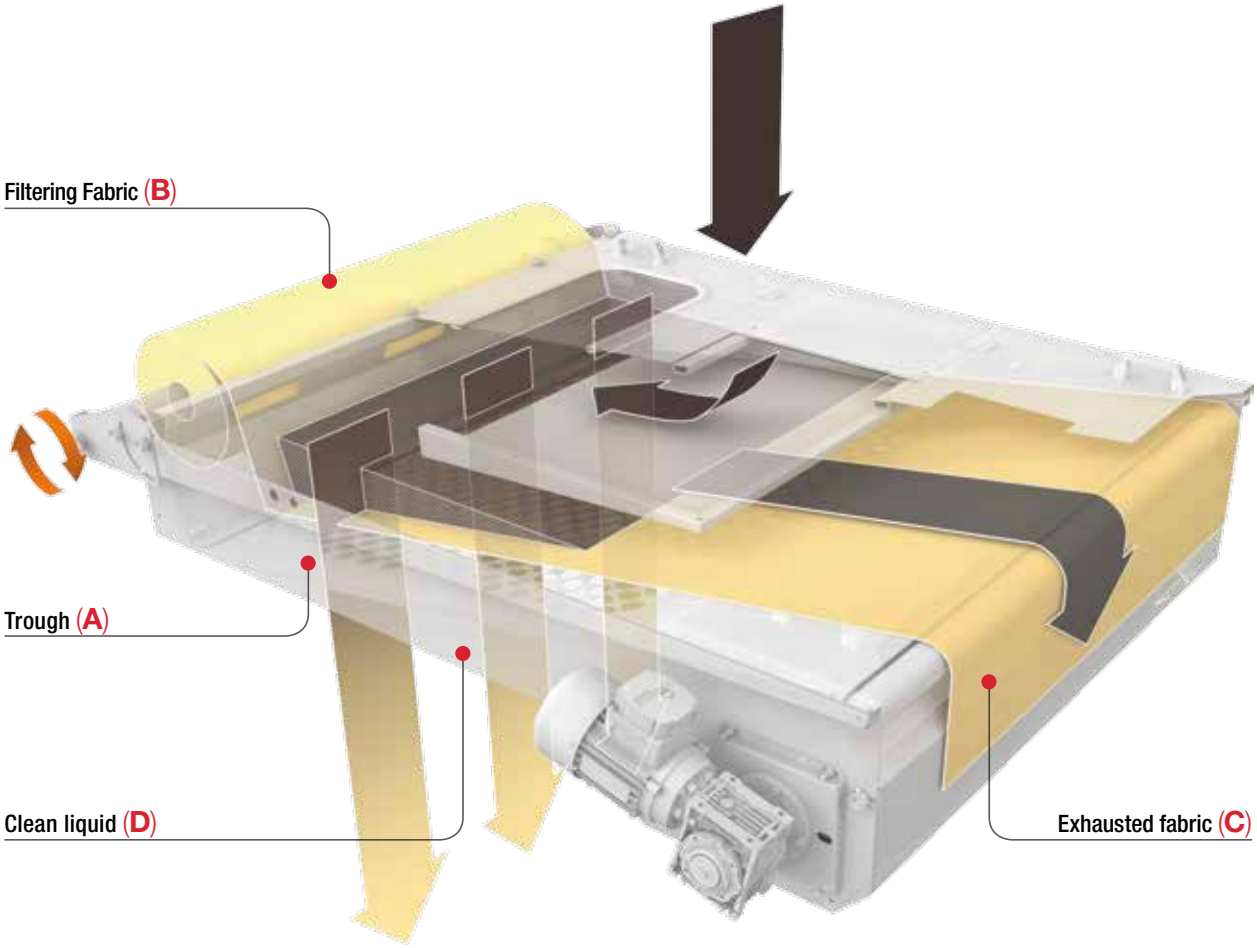
Filtration degree is set thanks to the tissue choice and varies from 10 to 50 microns, securing a very high depuration level.

Extra is available in two versions, normal and with augmented depth, with 11 models for throughput from 50 to 300 l/min for neat oils and from 100 to 600 l/min for emulsion.



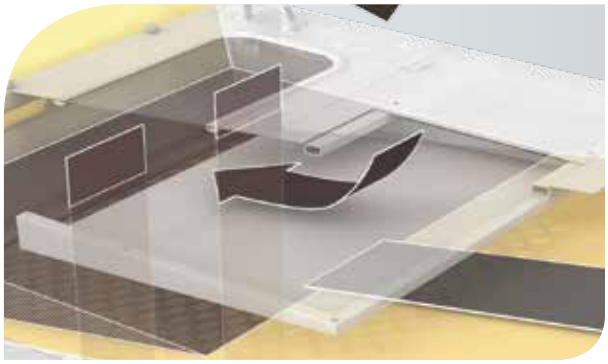

LOSMA guarantees that every single unit is individually tested through strict control procedures. Each unit is issued a test certificate for quality and function.

# Working principles




1. Contaminated coolant is piped into the trough (**A**) and distributed on the filtration fabric (**B**), retaining pollutant particles and allowing the cleaned coolant to pass.
2. The fabric collects pollutant particles until it is full and the coolant cannot cross it anymore. The coolant rises its level touching a float, which actions the proximity sensor controlling the fabric movement and the replacing with the new one.
3. Dirty Fabric (**C**) is rewound with a dedicated system, while sludge are separated from a scraping blade.
4. The clean liquid pass in the tank below (**D**) and is sent back to the machine tools thanks to the dedicated electrical pump.

# Plus



## HIGH EFFICIENCY AND LOW CONSUMPTION

This system with inclined bed secures to Extra and Extra High version a maximum level of hydrostatic flow, which arises the medium filtration level and at the same time reduces the filtration tissue consumption.

## VERSATILITY

Filtration systems of Extra series are supplied with a rewinding system.

## HYDRAULIC GUARD

(Only for Extra High) a double system of spill door, positioned on the two sides of the frame avoids any overflow phenomena caused by a wrong working of the dragging system.

## PROXIMITY

The use of proximity sensors for the control of tissue movement, instead of the push-piece spring, allows a precise movement avoiding any tissue waste.

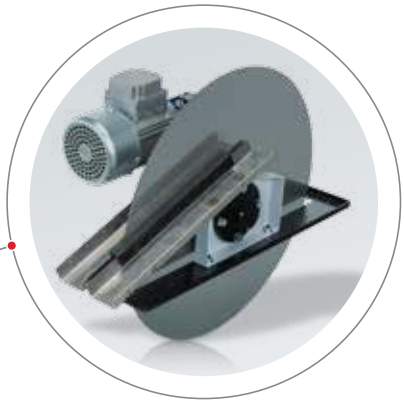

## STAINLESS STEEL VERSION

Extra and Extra High are also available in stainless steel version, ideal to filter water, salty or corrosive liquids typical in the mechanical machining sector or in the chemical, pharmaceutical and food industry.

# Optional

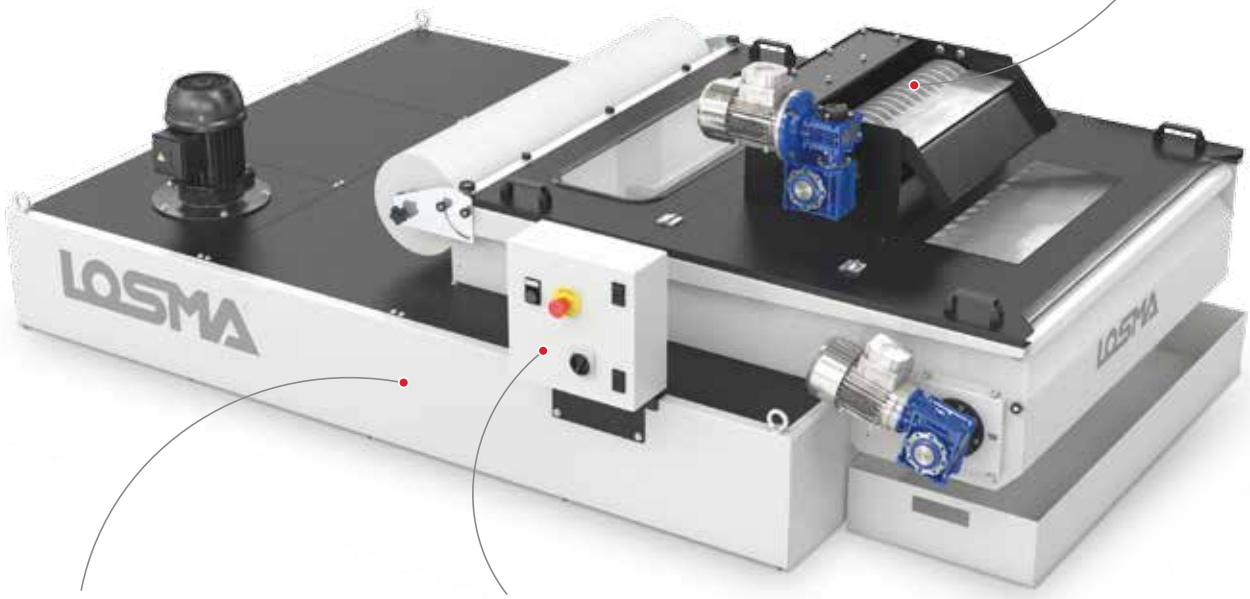
## Skim

Superficial oil skimmer, it allows to lengthen coolant quality and eliminate odors generated by anaerobic bacteria.



## DMD

Pre-filtration system with rotating magnetic discs for the separation of magnetic polluting particles from coolant.




## Collecting tank

For clean liquid to be sent back to machine tool.

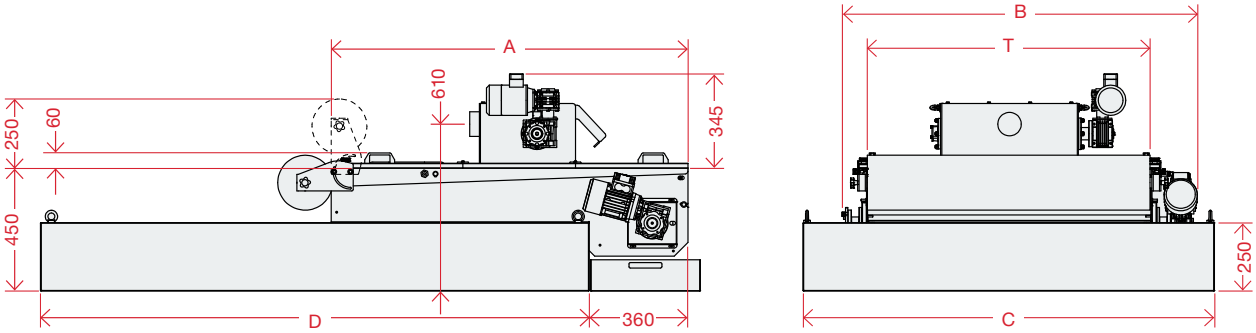
## Electrical panel

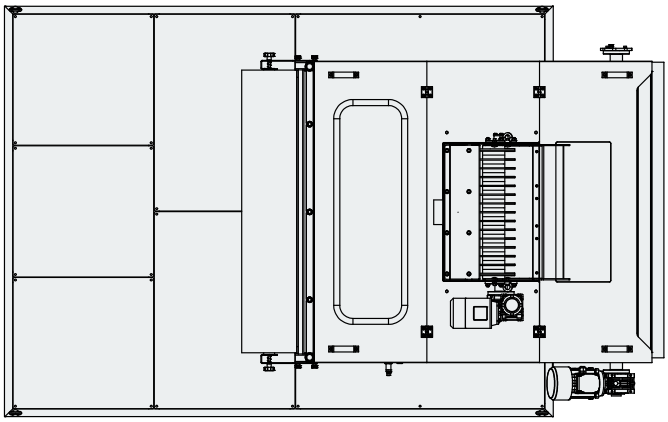
For powering the system, control and command all signals.

## Transfer tank

To collect dirty liquid for feeding the filter

# Extra Technical data



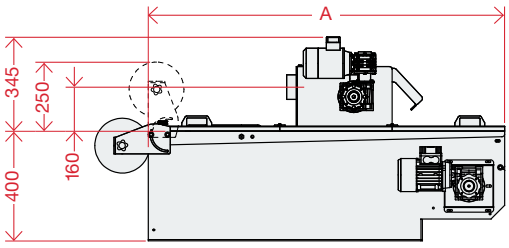



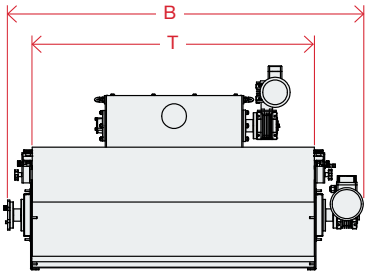
| EXTRA | Dimensions (mm) | | | | | |
|---|---|---|---|---|---|---|
| | A | B | C | D | E | T |
| **EXTRA R 100** | 1000 | 795 | 1000 | 1500 | 640 | 530 |
| **EXTRA R 150** | 1000 | 995 | 1000 | 1500 | 640 | 730 |
| **EXTRA R 200** | 1300 | 1195 | 1200 | 2000 | 940 | 930 |
| **EXTRA R 250** | 1300 | 1295 | 1200 | 2000 | 940 | 1030 |
| **EXTRA R 300** | 1500 | 1495 | 1500 | 2600 | 1140 | 1230 |
| **EXTRA R 350** | 1500 | 1695 | 1500 | 2600 | 1140 | 1430 |

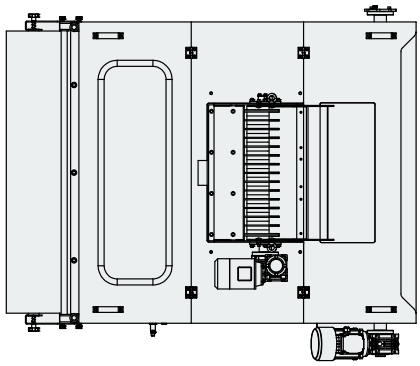
| EXTRA | Tank capacity | Max filtering cap. emulsion | Max filtering cap. neat oil | Pump pressure | Power | Input tension 230V / 50Hz | Input tension 260V / 60Hz | Input tension 400V / 50Hz | Input tension 460V / 60Hz | Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| | l | l/min | l/min | bar | kW | A | A | A | A | Kg |
| **EXTRA R 100** | 365 | 100 | 50 | 0,2 | 0,12+0,25 | 0,83+1,3 | 0,85+1,18 | 0,48+0,75 | 0,49+0,68 | 63 |
| **EXTRA R 150** | 365 | 150 | 75 | 0,2 | 0,12+0,37 | 0,83+1,65 | 0,85+1,45 | 0,48+0,95 | 0,49+0,84 | 69 |
| **EXTRA R 200** | 490 | 200 | 100 | 0,2 | 0,12+0,53 | 0,83+2,7 | 0,85+2,7 | 0,48+1,6 | 0,49+1,6 | 82 |
| **EXTRA R 250** | 490 | 250 | 125 | 0,2 | 0,12+0,78 | 0,83+3,3 | 0,85+3,3 | 0,48+1,9 | 0,49+1,9 | 87 |
| **EXTRA R 300** | 955 | 300 | 150 | 0,2 | 0,12+1,15 | 0,83+3,3 | 0,85+3,3 | 0,48+1,9 | 0,49+1,9 | 99 |
| **EXTRA R 350** | 955 | 350 | 175 | 0,4 | 0,12+1,47 | 0,83+4,8 | 0,85+4,8 | 0,48+2,8 | 0,49+2,8 | 107 |

* Flow rates data refers to emulsion with a max. oil concentration of 5% or neat oil with a max. viscosity of 20cst at 40°C, and with a filtering media having a weight not over 35g/m$^2$. Different characteristics of the coolant to be treated, pollutant typology and its concentration could considerably influence the filtration system's performances. Our Technical Dept. is available for studying the best solution for your requirements.

# Extra High Technical data



| EXTRA HIGH | Dimensions (mm) | | | |
|---|---|---|---|---|
| | A | B | C | T |
| **EXTRA HIGH 150** | 1000 | 795 | 700 | 530 |
| **EXTRA HIGH 250** | 1000 | 995 | 700 | 730 |
| **EXTRA HIGH 350** | 1300 | 1295 | 1000 | 1030 |
| **EXTRA HIGH 450** | 1300 | 1495 | 1000 | 1230 |
| **EXTRA HIGH 600** | 1500 | 1695 | 1200 | 1430 |

| EXTRA HIGH | Tank capacity | Max filtering cap. emulsion | Max filtering cap. neat oil | Power | Input tension 230V / 50Hz | Input tension 260V / 60Hz | Input tension 400V / 50Hz | Input tension 460V / 60Hz | Weight |
|---|---|---|---|---|---|---|---|---|---|
| | l | l/min | l/min | kW | A | A | A | A | Kg |
| **EXTRA HIGH 150** | On request | 150 | 100 | 0,12 | 0,83 | 0,85 | 0,48 | 0,49 | 75 |
| **EXTRA HIGH 250** | On request | 250 | 125 | 0,12 | 0,83 | 0,85 | 0,48 | 0,49 | 83 |
| **EXTRA HIGH 350** | On request | 350 | 175 | 0,12 | 0,83 | 0,85 | 0,48 | 0,49 | 106 |
| **EXTRA HIGH 450** | On request | 450 | 225 | 0,12 | 0,83 | 0,85 | 0,48 | 0,49 | 115 |
| **EXTRA HIGH 600** | On request | 600 | 300 | 0,12 | 0,83 | 0,85 | 0,48 | 0,49 | 131 |

* Flow rates data refers to emulsion with a max. oil concentration of 5% or neat oil with a max. viscosity of 20cst at 40°C, and with a filtering media having a weight not over 35g/m$^2$. Different characteristics of the coolant to be treated, pollutant typology and its concentration could considerably influence the filtration system's performances. Our Technical Dept. is available for studying the best solution for your requirements.

Health Savings Efficiency Environment Safety

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