



Air filters



Liquid filters



Engineering

Losma / Liquid filters

Master + MedioMaster + MiniMaster

Hydrostatic TNT coolant filtration system

ENG



Master



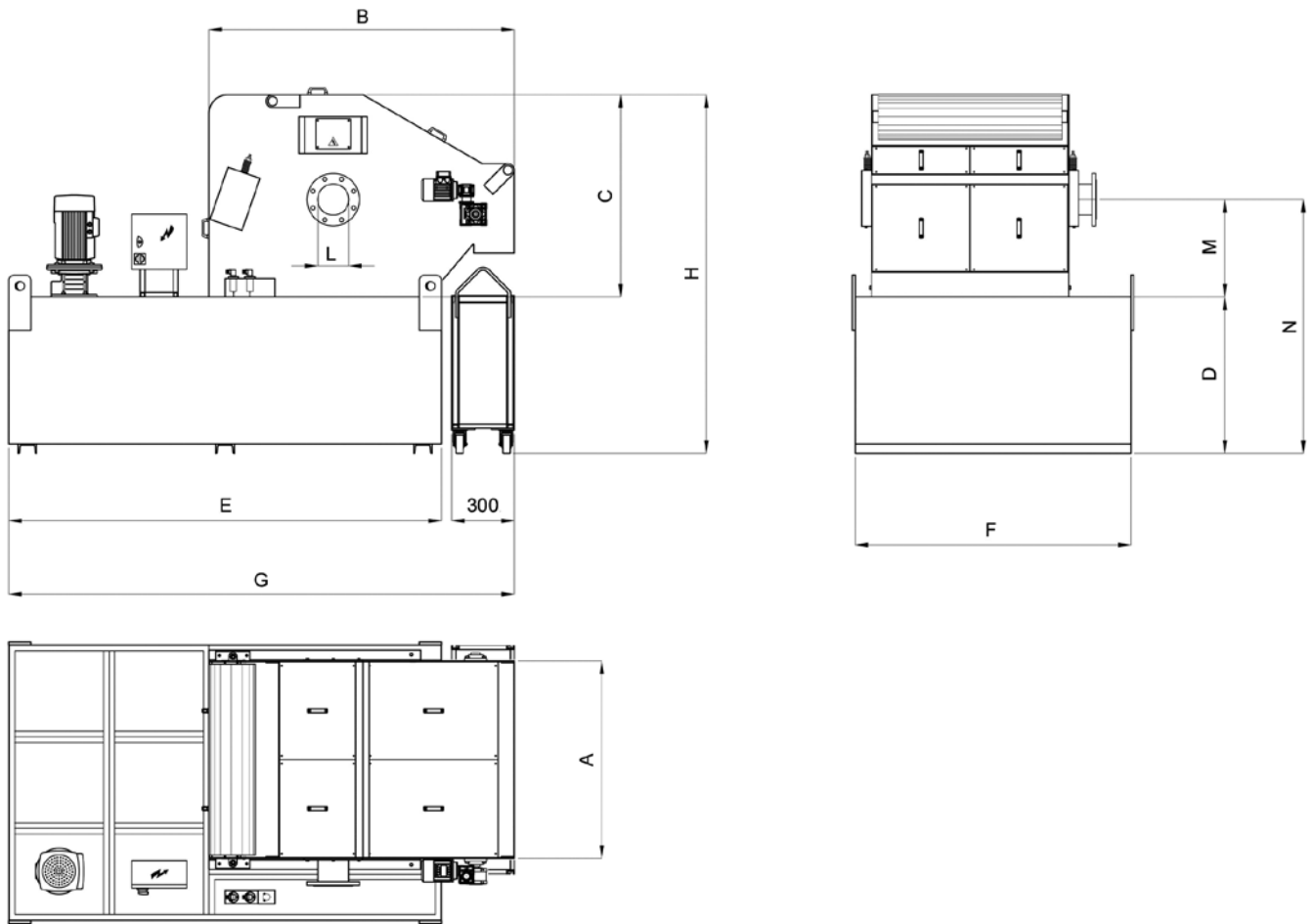
Losma grants that every single system is tested through strict control procedures. Every unit is provided with a Quality and Functional Test Certificate.

MASTER is a range of high efficiency gravity filters, using non-woven fabric as filter media. Master series is available in 4 models, able to manage flowrates from 200 to 1000 l/min of neat oil and from 400 to 2000 l/min of water based emulsion, contaminated by metallic or non-metallic

particles. Master's operation is simple and its efficiency is stable and constant. This type of filter is suitable for cooling and lubricant liquids used in many industrial processes, such as: drawing, milling, polishing, grinding and washing amongst others.



Technical Data



Master													
Models	Dimensions [mm]											Tank Capacity	Tank with tissue
	A	B	C	D	E	F	G	H	L	M	N	[l]	[kg]
AB 700	773	1660	1150	700	2600	1350	3000	1800	DN150 PN16	580	1330	2000	1200
AB 1000	1073	1660	1150	850	2900	1550	3300	1950	DN150 PN16	580	1430	3200	1500
AB 1400	1473	1660	1150	850	2900	1950	3300	1950	DN150 PN16	580	1430	4100	1800
AB 2000	2093	1660	1150	850	3500	2300	3900	1950	DN150 PN16	580	1430	5700	2100

Master				
Models	Flow [l/min]			
	Grinding (emulsion)	Grinding (neat oil)	Drawbench (emulsion)	Washing machines, chip removal machines (emulsions)
AB 700	400	200	(emulsion)	800
AB 1000	600	300	da 800 a 1200	1200
AB 1400	800	400	da 1200 a 1600	1600
AB 2000	1200	600	da 1600 a 2000	2000

MedioMaster



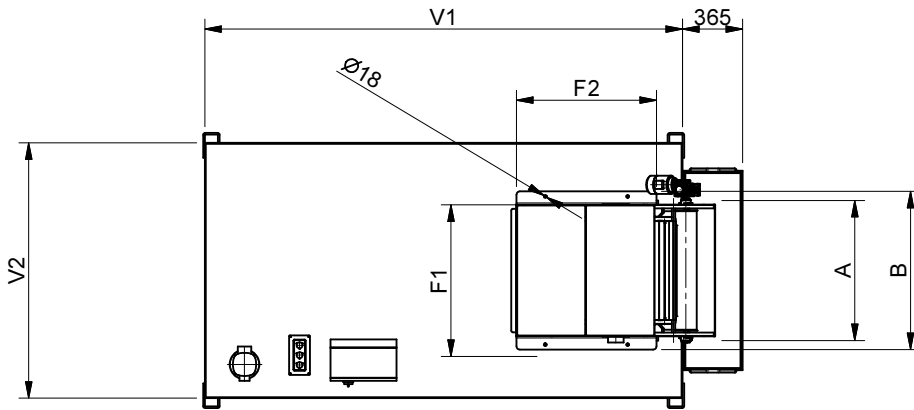
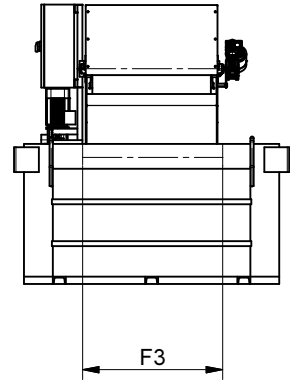
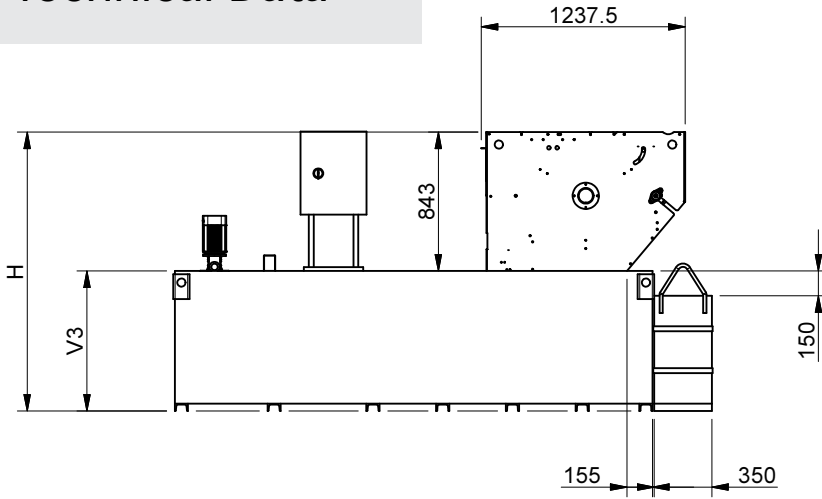
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MEDIO-MASTER is a high efficiency industrial coolant filtration system, available in 3 models able to treat from 150 to 200 l/min of neat oil and from 400 to 800 l/min of water based emulsion, contaminated by metallic and non-metallic particles.

Medio – Master grants very high coolant filtration levels based on customer's needs, thanks to the consumable filter media. It is used in many industrial processes, such as: drawing, milling, polishing, grinding and washing.



Technical Data



Medio Master														
Models	Dimensions [mm]										Tank Capacity	Weight Tank	Weight filter only	Tissue width
	Filter positioning			Standard tank dimensions										
	A	B	C	F1	F2	F3	H	V1	V2	V3	[l]	[kg]	[kg]	[mm]
Medio 600	800	960	675	900	860	850	1693	2600	1350	700	2000	800	250	740
Medio 800	1100	1260	775	1200	860	1150	1780	2900	1550	850	3000	1100	270	1040
Medio 1200	1500	1660	975	1600	860	1550	1780	2900	1950	850	4000	1400	310	1440

Medio Master				
Models	Flow [l/min]			
	Grinding (emulsion)	Grinding (neat oil)	Drawbench (emulsion)	Washing machines, chip removal machines (emulsions)
Medio 600	400	200	from 400 to 600	600
Medio 800	600	300	from 600 to 800	800
Medio 1200	800	400	from 800 to 1200	1200

MiniMaster



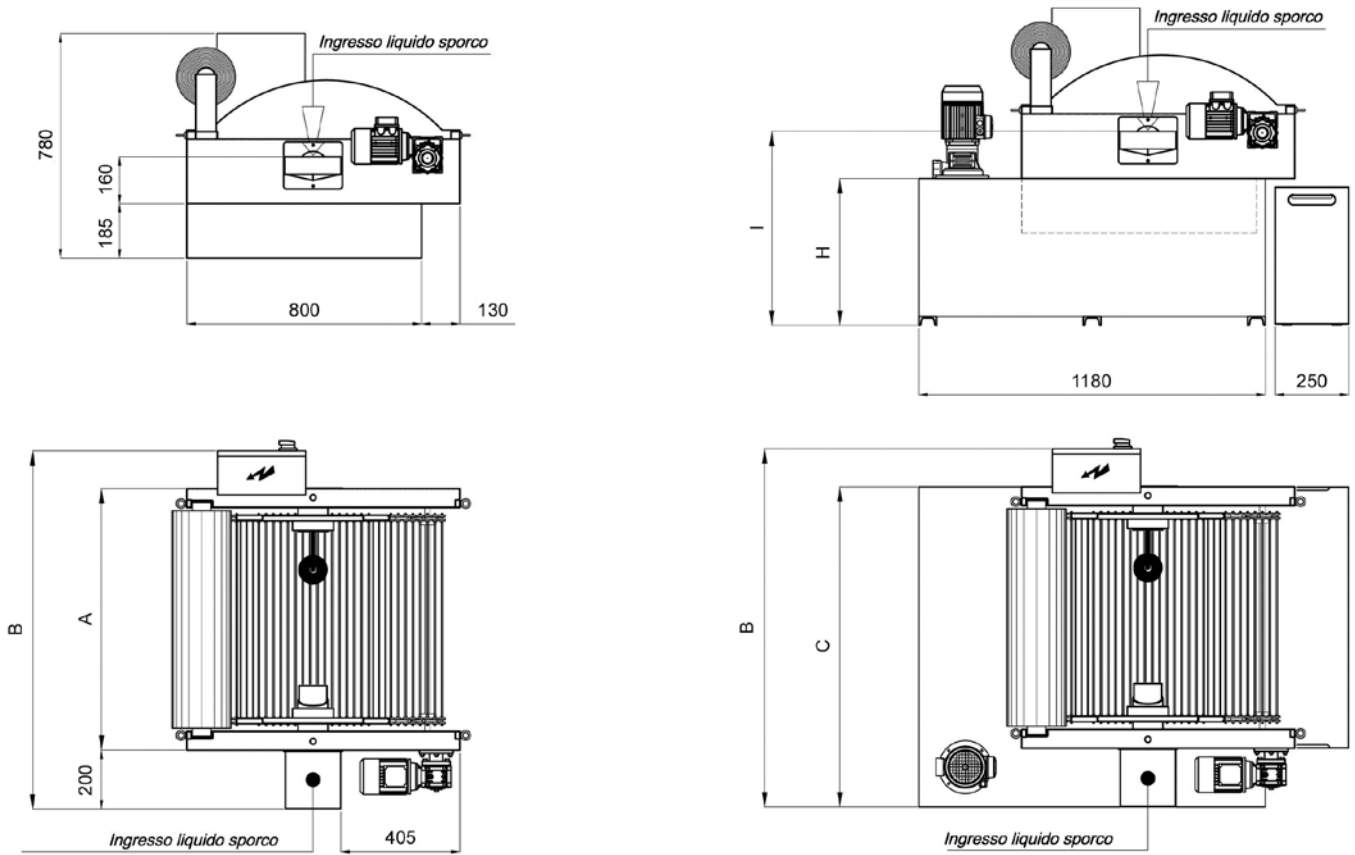
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MINI-MASTER series is composed of 3 models, able to filter from 60 to 200 l/min of neat oil and from 100 to 400 l/min of water based emulsion, contaminated by metallic and non-metallic particles. Mini-Master has an optimum filtration level, thanks to

the consumable filter media, which can be selected according to customer needs. Its dimensions are significantly smaller and is used in many industrial processes, such as: drawing, milling, polishing, grinding and washing amongst others.



Technical Data



Mini Master								
Models	Dimensioni [mm]					Tank Capacity	Tank with tissue	Weight
	A	B	C	H	I	[l]	[mm]	[g]
M	590	950	800	500	660	400	440	140
L	890	1250	1100	700	860	800	740	260
X	1190	1550	1400	800	960	1200	1040	400

Mini Master				
Models	Flow [l/min]			
	Grinding (emulsion)	Grinding (neat oil)	Drawbench (emulsion)	Washing machines, chip removal machines (emulsions)
M	100	60	da 100 a 150	150
L	200	100	da 200 a 300	300
X	300	160	da 300 a 450	450

Working Principles



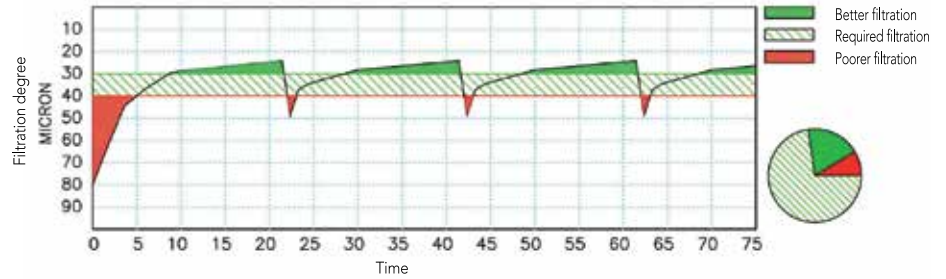
1. The filter fabric is perfectly clean; the dirty liquid begins depositing the pollutant on the fabric's surface. The clean liquid goes through the lower part where the discharge opening is located and falls into the tank underneath. During this phase the system is idle and the filter carpet is not advancing. The pollutant which is deposited on the filter fabric forms the actual filtering layer. In many applications the filtering layer can reach a thickness of 10 mm.

2. The dirty filter fabric's permeability is reduced, the liquid level starts increasing. The dirty liquid continues to deposit the pollutant onto the filter fabric's surface. The filtration degree improves due to the thickness of the mud deposited on the filter fabric. Also during this phase the system is idle.

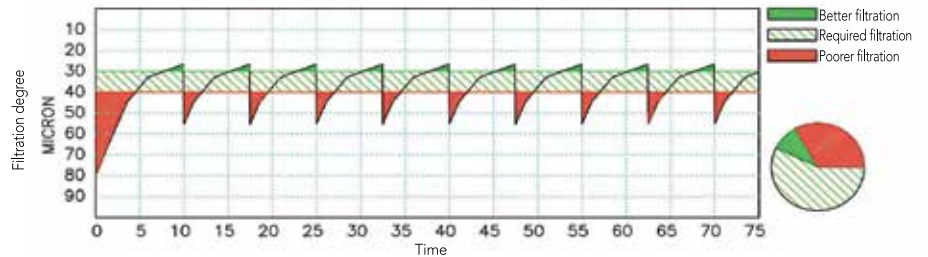
3. The liquid has reached its maximum level. This is the stage when the best possible filtration degree is actually reached. The longer the filter operates in this condition, the better the average filtration will be. The system is idle also in this phase.

4. The regeneration cycle begins, the motor reducer allows the system to rotate and moves the dirty filter fabric. Clean filter fabric is then introduced and permeability is restored, allowing for the level to descend and return to intermediate condition B.

Operating cycle and trend filtration in a system correctly dimensioned



Operating cycle and trend filtration in a system undersized



Plus



Chain system and lateral seal discs:

Master is equipped with a corrugated chain and lateral discs, this system guarantees the perfect seal of contaminated liquid in the filtering section.



Customizable for every customer need:

This series' filters uses consumable filter media, which allows to change the filtration degree simply by changing the fabric type, always maintaining good results.



Compact:

Compared to other flat bed filters of the same capacity, gravity filter MASTER's overall dimensions are significantly smaller and can achieve greater levels of filtration.

Optionals

Master + Mediomaster + Minimaster

DMD:

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



Skim:

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

Collecting tank: for clean liquid

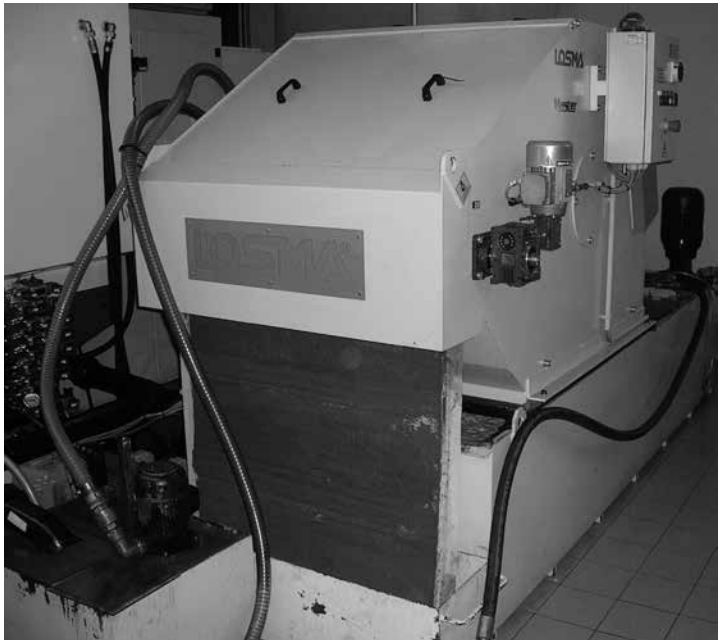
Transfer tank: to collect dirty liquid for feeding the filter

Pumps: for pressure from 0,1 to 100 bar for returning clean liquid

Electrical equipment: for command and control

Control system: for level and temperature of coolant

Installations





Health



Savings



Efficiency



Environment



Safety

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Losma S.p.A.
Via E. Fermi 16 24035 Curno (BG)
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