Engineered
Filtration, Inc.

HYDROSTATIC
COOLANT FILTERS

HYDROFLUX

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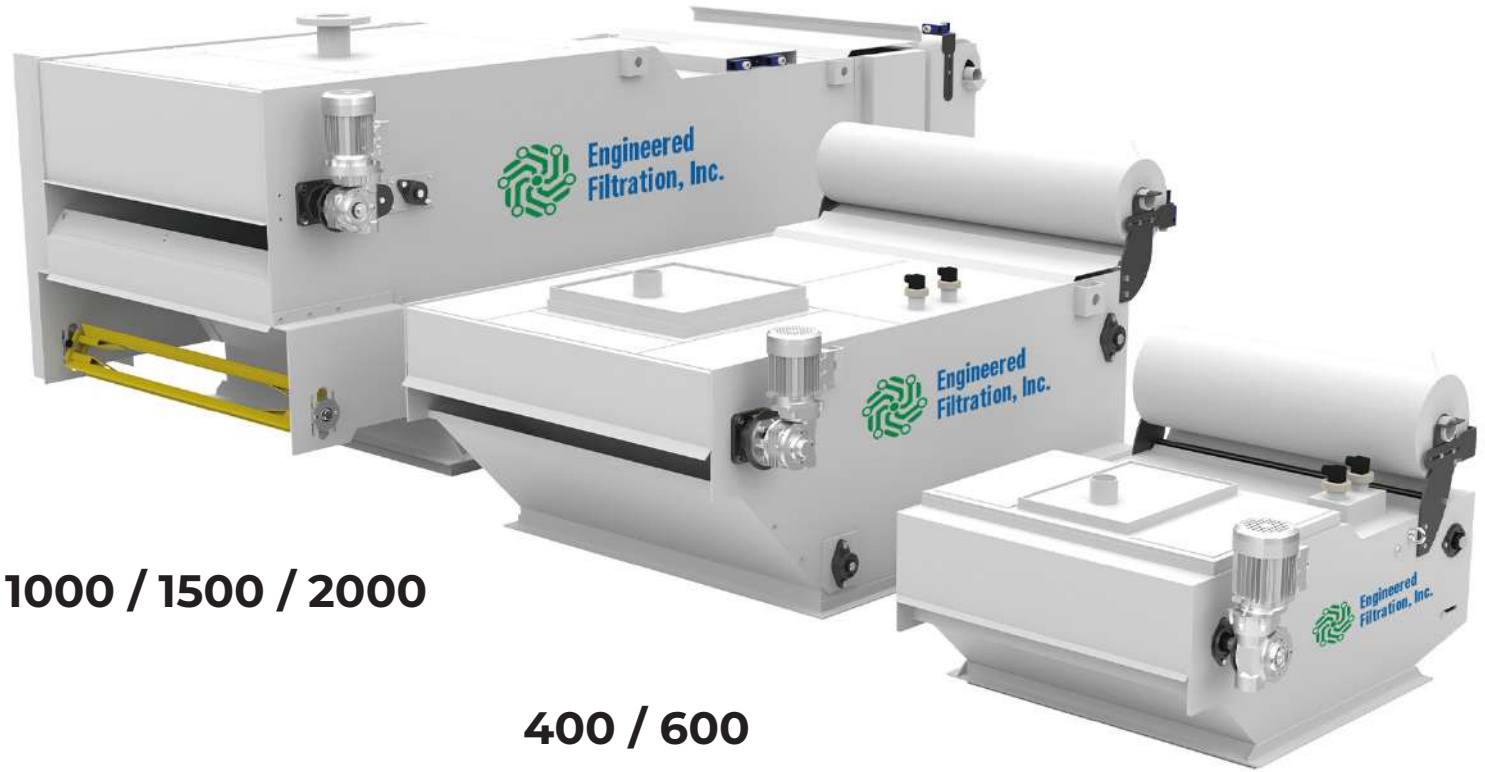
High efficiency gravity filters.

Paper media hydrostatic filtration systems for treatment of large quantities of coolant in reduced space.

HYDROFLUX



1000 / 1500 / 2000

400 / 600

150 / 250

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WORKING PRINCIPLES

1

Dirty coolant entry:

The contaminated coolant is conveyed to the filter by gravity or pressure and passes through a diffuser which serves to distribute the liquid on the underlying filter fabric where the pollutants are retained.

2

Filtration process:

The pressure created by the large amount of coolant within the filter progressively creates a compact layer of waste material on the fabric, increasing the degree of filtration as well as reducing the consumption of filter media. When the fabric is completely clogged, the liquid level rises and lifts the float.

3

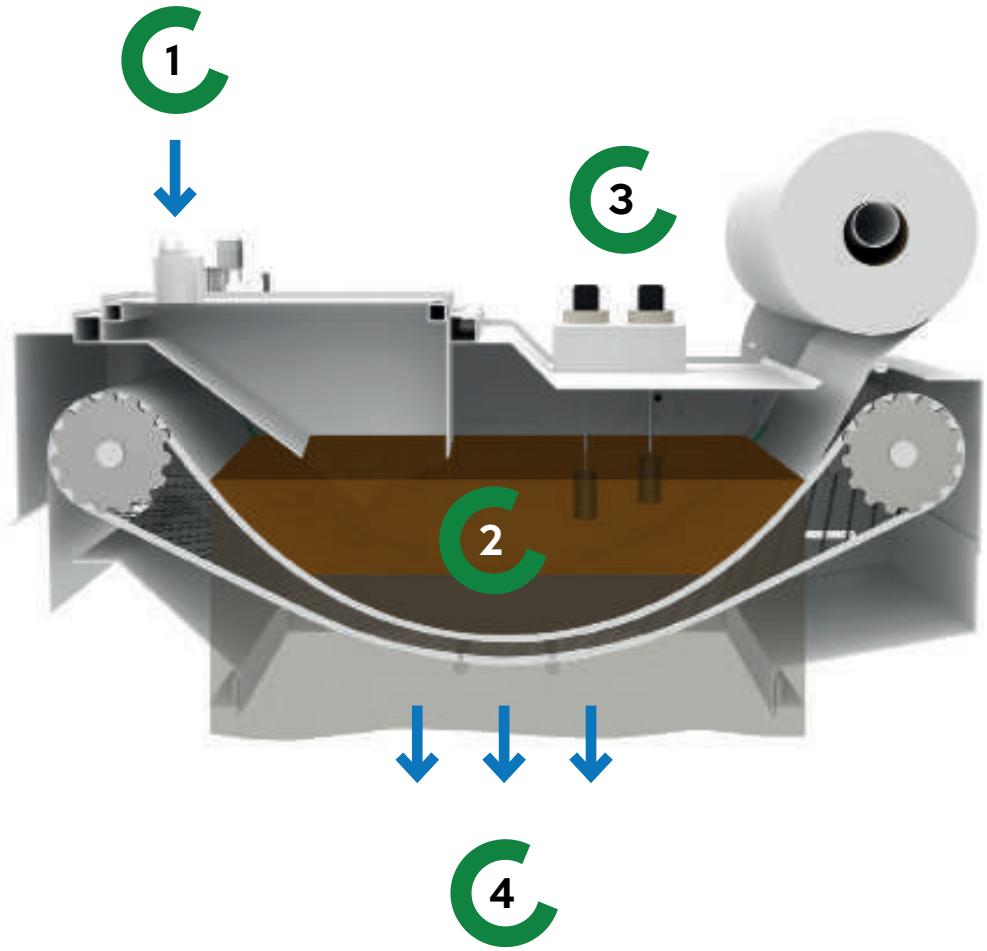
Filter media advancement:

The float starts the gearmotor which rotates the chain on which the clogged fabric rests. It is then automatically extracted and rewound (optional) and replaced by a portion of clean fabric, restoring the initial permeability and allowing the coolant to flow again.

4

Clean coolant exit:

The clean coolant is conveyed into a collection tank to be processed as required by the client.



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OPTIONAL

1. Clean coolant collection tank
2. Automag magnetic separator
3. Clean coolant transfer pumps
4. Chiller
5. Heat exchanger
6. Electrical cabinet with PLC

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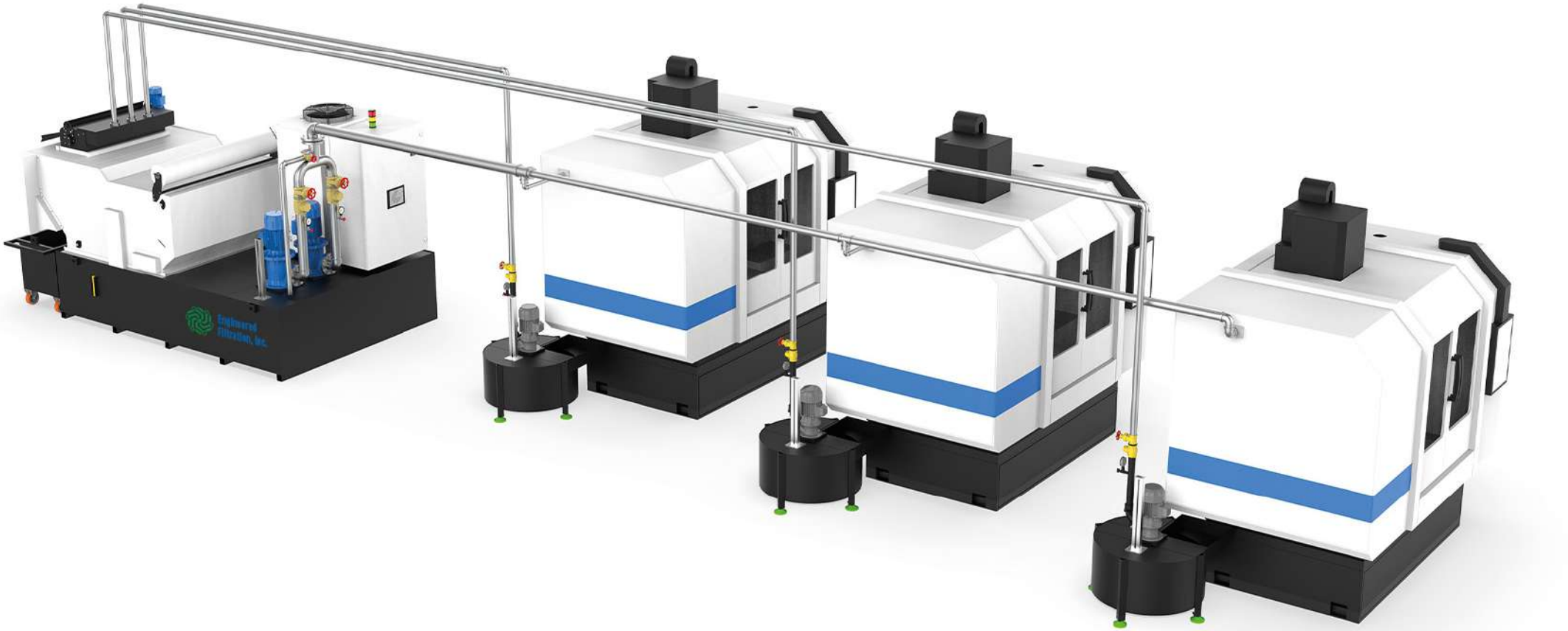
ADVANTAGES



Single installation:

The Hydroflux range can be installed on single machine tools.

Centralized solution:

Hydroflux can also be installed as a centralization to serve multiple machine tools simultaneously.

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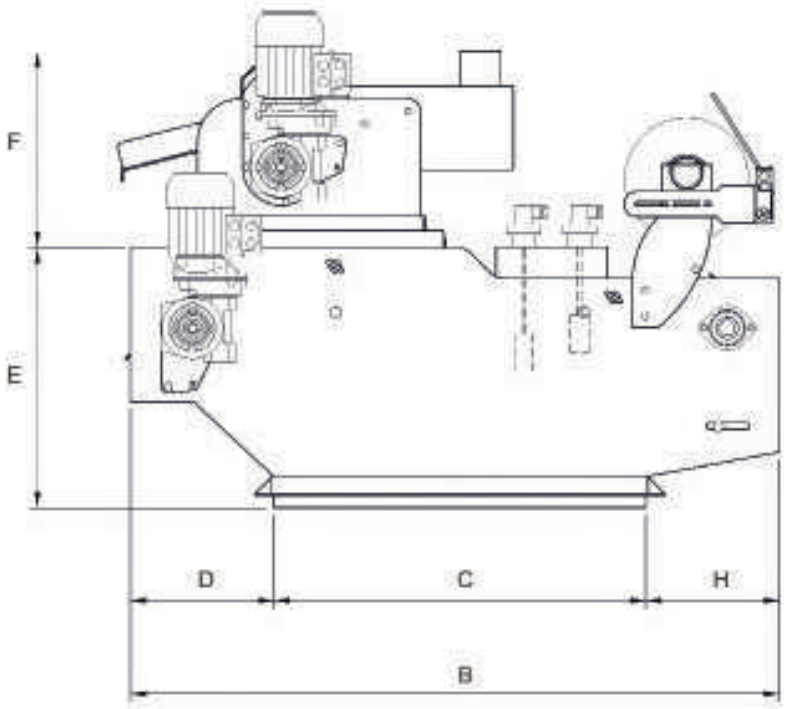
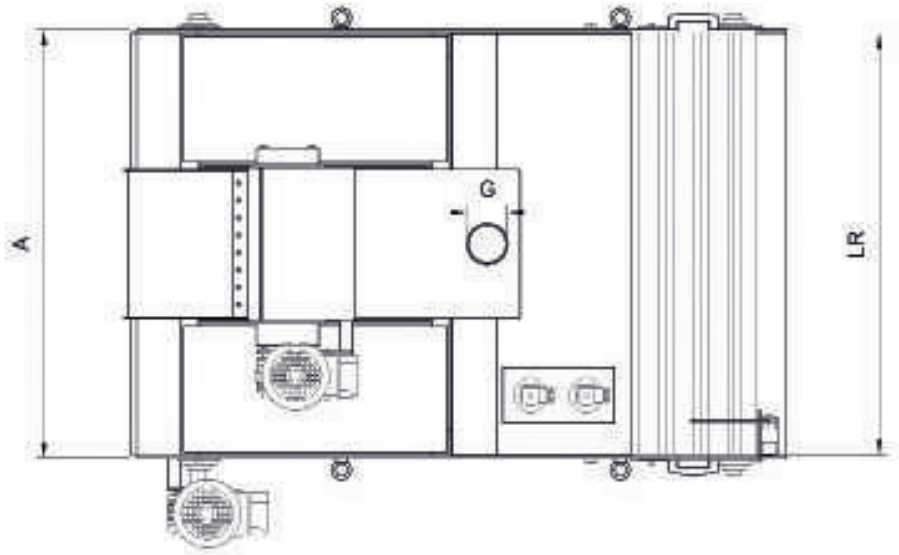
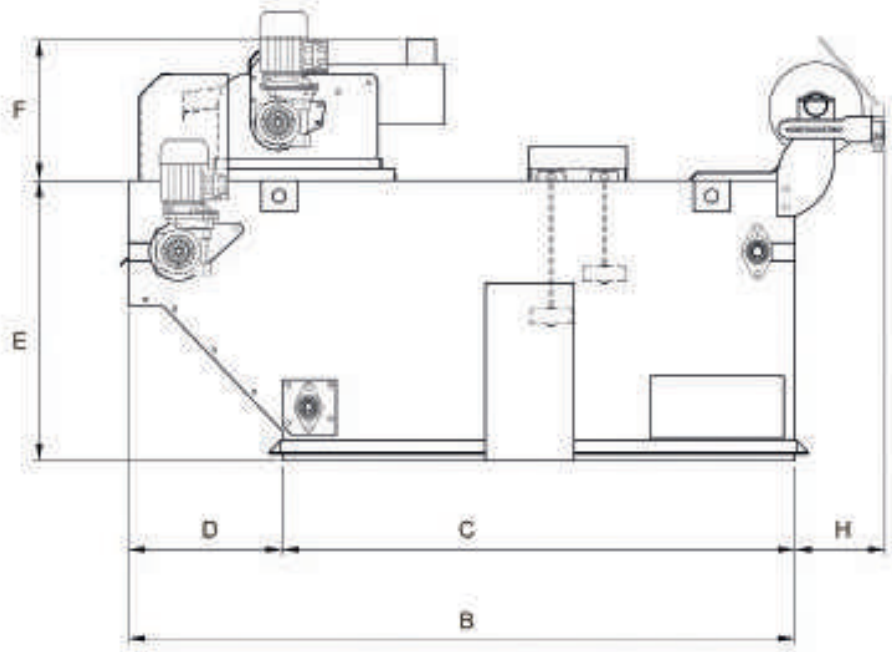
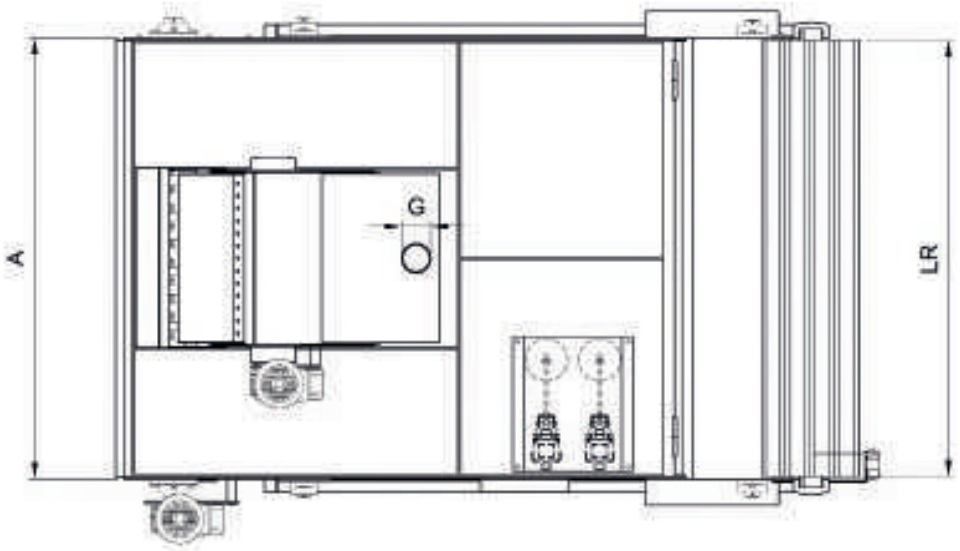
TECHNICAL DETAILS





Hydroflux	Max flowrate emulsion (l/m/GPM)	Max flowrate neat oil (l/m/GPM)	Weight (kg/lbs)	A (mm/in)	B (mm/in)	C (mm/in)	D (mm/in)	E (mm/in)	F (mm/in)	G (in)	H (mm/in)	LR (mm/in)
150	160/42	80/21	120/264	690/27.1	1047/41.2	600/23.6	231/9	420/16.5	317/12.4	1" 1/2	215/8.4	680/26.7
250	260/68	130/34	150/330	990/38.9	1047/41.2	600/23.6	231/9	420/16.5	317/12.4	2"	215/8.4	980/38.5





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400	400/106	200/53	250/551	690/27.1	1500/59	1153/45	347/13	630/25	317/12	2"	205/8	680/26.7
600	600/159	300/78	300/661	990/39	1500/59	1153/45	347/13	630/25	317/12	2" 1/2	205/8	980/38.5
1000	1000/265	500/132	500/1102	990/39	1995/78	1290/50	525/20.6	1080/42	520/20.4	3"	340/13.4	980/38.5
1500	1500/396	750/198	700/1543	1430/56.3	1995/78	1290/50	525/20.6	1080/42	520/20.4	3"	340/13.4	1420/55.9
2000	2000/528	1000/264	950/2094	1430/56.3	2490/98	1830/72	560/22	1080/42	520/20.4	4"	340/13.4	1420/55.9

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P.O. BOX 1067, SAN MARCOS, TX - INFO@ENGFILT.NET - TEL. 512-827-3788 - WWW.ENGFILT.COM