

DTE

Flat bed coolant filter



DTE

Detex is a flat bed coolant filter, using non-woven fabric for eliminating magnetic and non-magnetic particles from neat oil and emulsion.

Filtration degree can be determined by the choice of the fabric, ranging from 10 to 50 micron, granting the highest level of filtration.

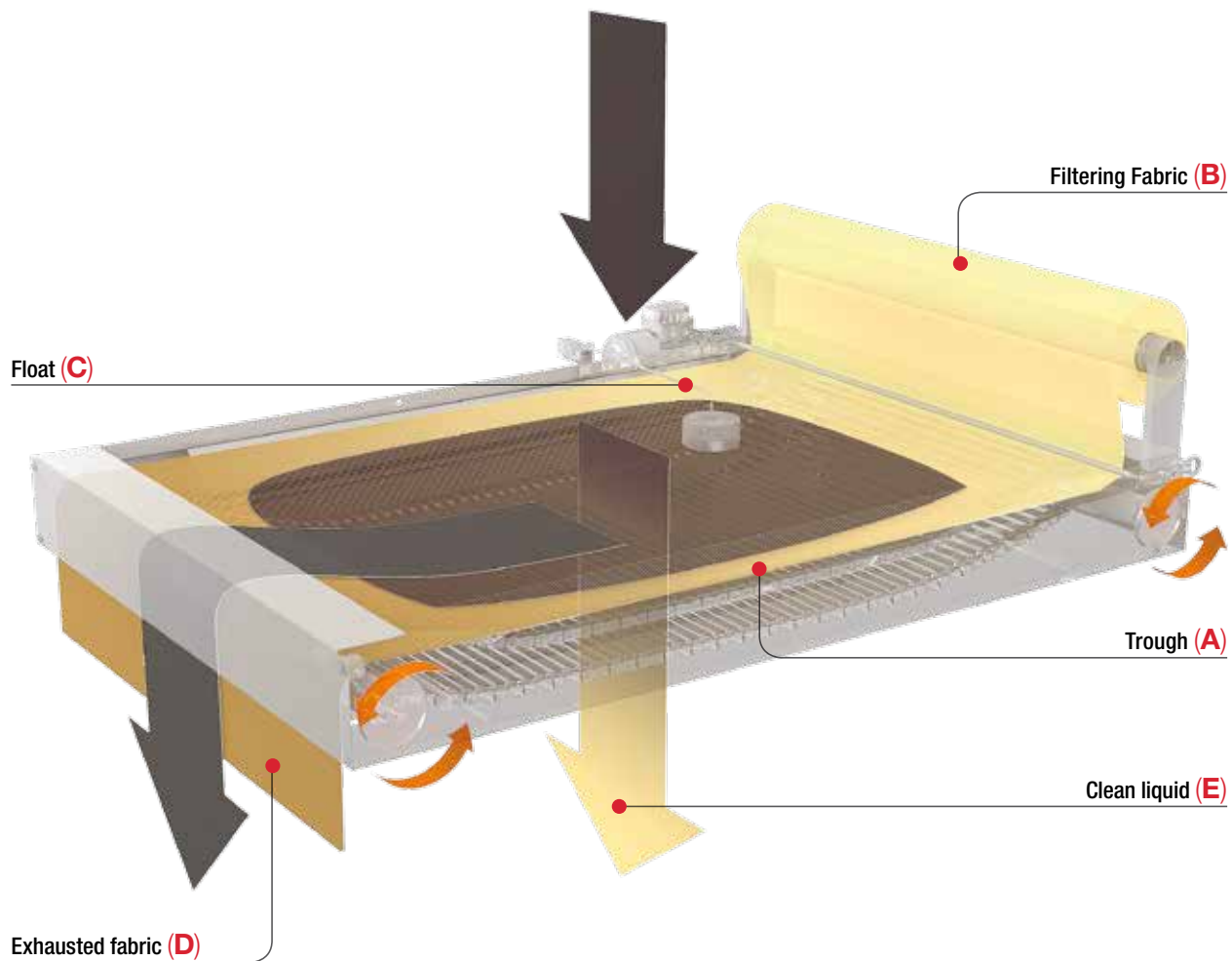
Detex is available in 12 sizes, with a flowrate capacity from 50 to 400 l/min of emulsion and from 25 to 200 l/min of neat oil.



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** The dirty coolant falls into the distribution trough (A) and from here onto the filter fabric (B) which retains solid pollutant particles (dust and swarfs) while the filtered oil passes through it.
- 2** The fabric collects progressively the pollutant, until losing its filtering capacity. At this stage the liquid collects on the trough

and lifts the float (C) and starts an automatic system, which advances the collection tray to change the exhausted fabric with the new one.

- 3** Exhausted fabric (D) is collected in a dedicated tank. The clean liquid is collected the tank below (E), in order to be pumped back to the machine tool.

Plus



AVAILABLE IN STAINLESS STEEL VERSION

Detex is also available in stainless steel version, suitable for filtering water, salty or corrosive liquids used in mechanical machining sector or in pharmaceutical and food industry.



ECONOMICAL

Fabric filtration guarantees a high filtration efficiency with a limited initial investment.



MODULARITY AND VERSATILITY

DTE series offers a wide range of models, facilitating the choice of an appropriate solution for customer's needs avoiding wastes for low-dimensioned systems or, on the contrary, inefficiency for over-dimensioned ones.

Fabric can be changed following customer and machining needs, this guarantees versatility to DTE.

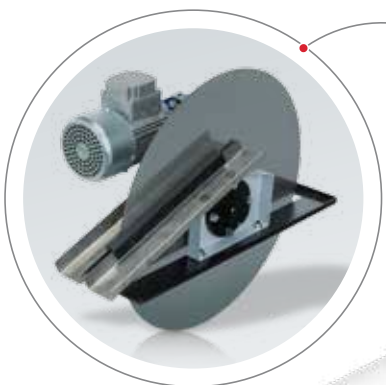
Optional

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.



Pump

For pressure from 0,1 to 100 bar for returning clean liquid.

Collecting tank

For clean liquid collection, to be sent back to the machine tool.

Electrical panel

For powering the system, control and command all signals.

Transfer tank

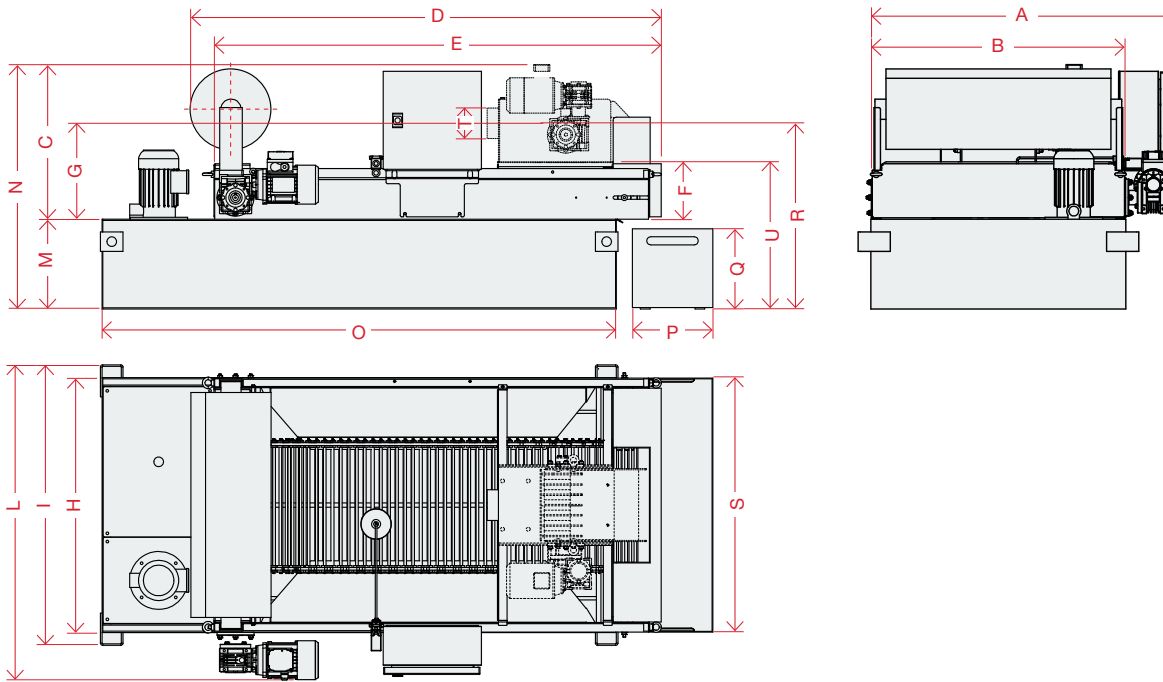
To collect dirty liquid for feeding the filter.



Installations



Technical data



DTE	Dimensions (mm)																
	A	B	C	D (rotolo 250 mm)	E	F	G	H	I	L	M	P	Q	R	S	T	U
DTE 30	630	480	432	815	750	178	298	400	480	630	200	200	170	500	480	2"	378
DTE 50	750	590	481	1115	1040	178	298	593	673	780	280	250	250	578	590	3"	458
DTE 100	950	790	481	1465	1390	178	298	793	873	980	280	250	250	578	790	3"	458
DTE 150	1250	1090	481	1665	1590	178	298	1093	1173	1280	280	250	250	578	1090	3"	458
DTE 200	1250	1090	481	2115	2040	178	298	1093	1173	1280	280	250	250	578	1090	3"	458
DTE 250	1250	1090	481	2615	2540	178	298	1093	1173	1280	280	250	250	578	1090	3"	458
DTE 300	1250	1090	503,5	3115	3040	178	298	1093	1173	1280	280	250	250	578	1090	3"	458
DTE 400	1250	1090	503,5	4115	4040	178	298	1093	1173	1280	280	250	250	578	1090	3"	458
DTE-L 450	1640	1466	481	3115	3040	178	298	1470	1550	1650	380	250	350	678	1430	3"	558
DTE-L 500	1640	1466	481	3615	3540	178	298	1470	1550	1650	380	250	350	678	1430	3"	558

DTE	Tank capacity	Max filtering cap. emulsion*	Max filtering cap. neat oil	Pump pressure	Power kW		Input tension		Input tension		Weight
					50 Hz	60 Hz	230 V - 50 Hz	265 V - 60 Hz	400 V - 50 Hz	460 V - 60 Hz	
	l	l/min	l/min	bar			A	A	A	A	Kg
DTE 30	51	30	15	0,2	0,29 (0,28)		1,38 (1,75)		0,8(1,04)		70
DTE 50	167	50	25	0,2	0,29 (0,28)		1,38 (1,75)		0,8(1,04)		90
DTE 100	287	100	50	0,2	0,50 (0,42)		2,13 (1,85)	2,03 (1,85)	1,23 (1,07)	1,17 (1,07)	135
DTE 150	445	150	75	0,2	0,64 (0,52)		2,48 (2,45)	2,3 (2,45)	1,43 (1,39)	1,33 (1,39)	195
DTE 200	557	200	100	0,2	1,12 (0,65)		4,07 (3,55)	3,72 (3,55)	2,35 (2,09)	2,15 (2,09)	235
DTE 250	656	250	125	0,2	1,32 (0,9)		4,66 (4,15)	4,21 (4,15)	2,69 (2,39)	2,43 (2,39)	275
DTE 300	805	300	150	0,2	1,27		4,15		2,39		210
DTE 400	1050	400	200	0,2	1,59		5,65		3,29		380
DTE-L 450	1210	450	225	0,2	1,28	2,38	5,51	7,81	3,17	4,53	nn
DTE-L 500	1400	500	250	0,2	1,28	2,38	5,51	7,81	3,17	4,53	nn

* 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/m². 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

newtarget



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R.E.A. 185685



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