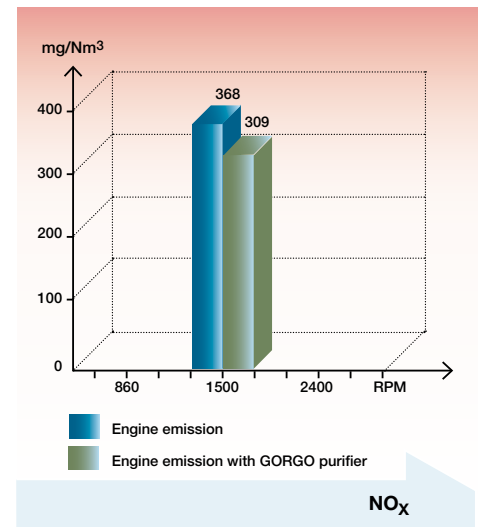
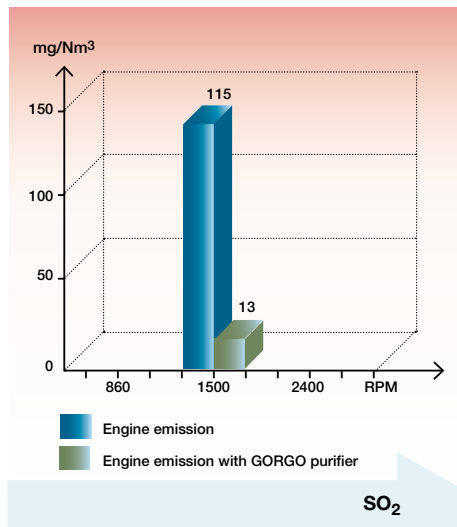
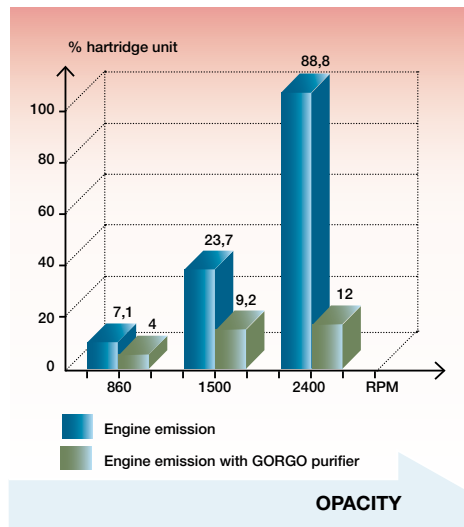


The main problem of Diesel engines is the black smoke emission which is both undesirable and acts as an irritant. The GORGO filter uses water to purify diesel exhaust fumes by up to 85% by utilising a special washing system which BERSY have developed and employed in this GORGO filter. In addition to purification, the GORGO filter also reduces the temperature of exhaust fumes as well as the transformation of Nitrogen Oxide to toxic Nitrogen Dioxide. The GORGO filter also acts as a silencer and spark arrestor, even when there is no water in the system. The GORGO filter is made in AISI 316 stainless steel with titanium and is resistant to high temperature and to corrosive sulphurous compounds present in the exhaust fumes. The GORGO consists of an horizontal cylindrical body (diameter varies depending on engine size) which makes up the water tank, two brackets for fixing the purifier and a cylindrical tower containing a separator situated in the upper part of water tank. The fumes are conveyed through an entry tube to the interior of the filter and passed in fine bubbles through the water.

The carbonaceous particles become heavier on contact with the water and fall to the bottom of the water tank. Steam vapour will be released from the filter when the system is at working temperature, consisting mainly of water. Bersy is Italy leader in diesel exhaust filters, and adheres to the guidelines concerning exhaust gas reduction issued by Experimental Station of Combustibles in Milan. As a result, Bersy is in a position to attest to the efficiency of its products as the graphs below show.



MAINTENANCE

Due to the nature of the filter the water must be replaced every 8 hours of usage, by emptying it through the spherical escape valve and then introducing clear water through the inlet port. The efficiency of the water filter can be seen when changing the water which emerges as a black sludge. After approximately every 300 hours, the system needs to be washed out with a high pressure jet to remove the build up of carbon from the exhaust. In order to keep the purifier as clean as possible, Bersy has developed TAM additive for addition to the water whenever it is replaced.

INSTALLATION

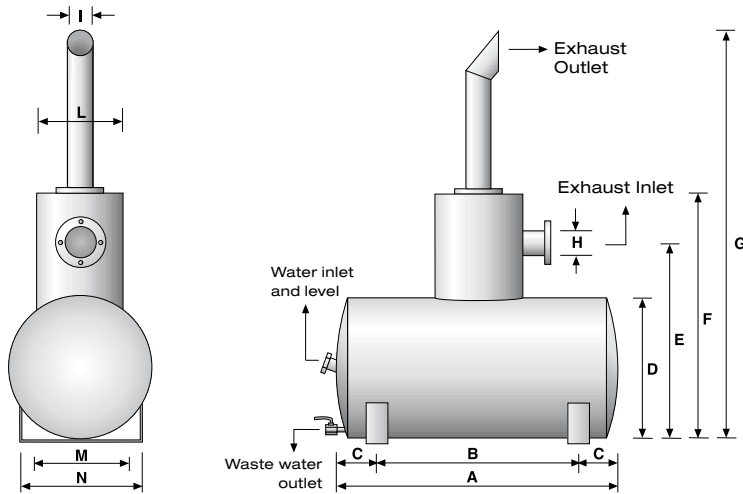
The GORGO filter can be fitted at any location of the unit and at any distance from the engine.

- 1) Remove the silencer to avoid an increase in backpressure
- 2) The filter can be bolted to the frame using the appropriate brackets.
- 3) Connect the filter with a length of flexible pipe.

To simplify the installation, Bersy manufactures a wide range of kits which are listed in the price list.

To satisfy the need of different installations, Bersy manufactures two different models: standard model and flanged version. For engines of less than 110 KW, the standard model and the flanged version are available; for engines of over 147 KW, only the flanged version is supplied.

GORGO standard model (up to 110 KW)

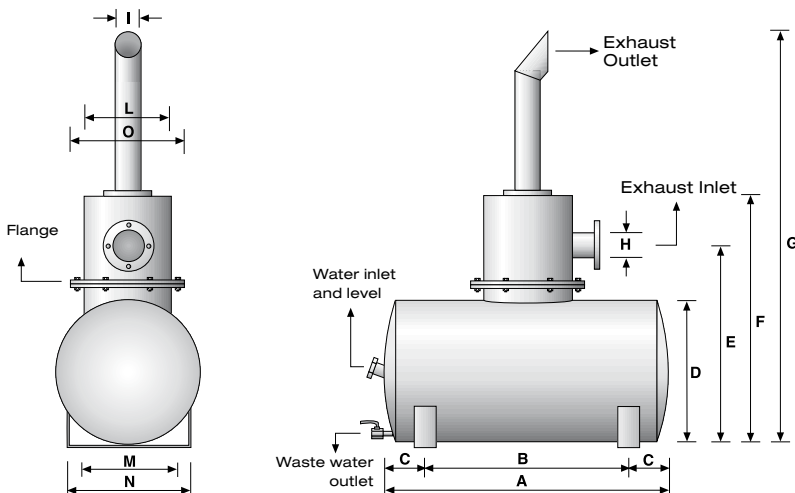


For Turbocharged engines, multiply the engine KW by **1.3** and read directly from the table;
for two-stroke engines multiply by **1.4** and read directly from the table.

COD.	MOD.	RATING	A	B	C	Ø D	E	F	G	Ø H	Ø I	Ø L	M	N
090020	D 20	up to KW 15 (HP 20)	450	290	80	300	440	530	900	40	50	150	205	268
090050	D 50	up to KW 37 (HP 50)	570	350	110	350	530	620	1000	60	60	200	230	300
090080	D 80	up to KW 59 (HP 80)	650	430	110	350	530	620	1000	60	60	200	230	300
090110	D 110	up to KW 81 (HP 110)	750	490	130	400	560	660	1190	60	80	230	290	375
090150	D 150	up to KW 110 (HP 150)	920	620	150	400	560	660	1190	80	80	260	290	375

all dimensions in mm

GORGO flanged model (up to 110 KW)

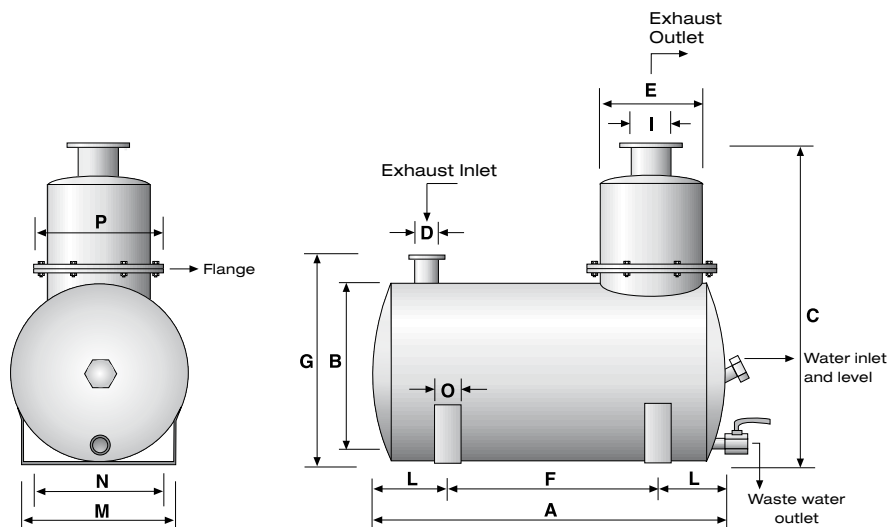


For Turbocharged engines, multiply the engine KW by **1.3** and read directly from the table;
for two-stroke engines multiply by **1.4** and read directly from the table.

COD.	MOD.	RATING	A	B	C	Ø D	E	F	G	Ø H	Ø I	Ø L	M	N	Ø O
090020FL	D 20	up to KW 15 (HP 20)	450	290	80	300	440	530	900	40	50	150	205	268	180
090050FL	D 50	up to KW 37 (HP 50)	570	350	110	350	530	620	1000	60	60	200	230	300	230
090080FL	D 80	up to KW 59 (HP 80)	650	430	110	350	530	620	1000	60	60	200	230	300	230
090110FL	D 110	up to KW 81 (HP 110)	750	490	130	400	560	660	1190	60	80	230	290	375	260
090150FL	D 150	up to KW 110 (HP 150)	920	620	150	400	560	660	1190	80	80	260	290	375	290

all dimensions in mm

GORG flanged model (from 147 to 331 KW)



For Turbocharged engines, multiply the engine KW by **1.3** and read directly from the table;
for two-stroke engines multiply by **1.4** and read directly from the table.

COD.	MOD.	RATING	A	Ø B	C	Ø D	Ø E	F	G	Ø I	L	M	N	O	Ø P
090200FL	D 200	up to KW 147 (HP 200)	950	550	950	100	340	620	620	100	165	487	390	80	390
090250FL	D 250	up to KW 184 (HP 250)	1000	600	1000	100	400	750	670	100	125	556	480	100	450
090300FL	D 300	up to KW 221 (HP 300)	1000	650	1050	100	400	750	720	100	125	588	500	100	450
090350FL	D 350	up to KW 258 (HP 350)	1100	700	1100	120	420	800	770	120	150	610	520	100	470
090400FL	D 400	up to KW 295 (HP 400)	1250	700	1150	120	450	900	770	120	175	610	520	100	500
090450FL	D 450	up to KW 331 (HP 450)	1350	700	1200	120	500	1000	770	120	175	610	520	100	550

all dimensions in mm

Terminal pipe available on request

All GORG models are supplied with counter-flanges, packing, nuts and bolts, spherical discharge valve with rubber extension, a sample of TAM additive and instructions for installation and maintenance. Besides the standard models, Bersy produces water filter for engines with power rating above those shown in this leaflet. Budget information available from our technical office.



GORG special model

TAM ADDITIVE

In order to keep the filter as clean as possible, Bersy has developed TAM additive for addition to the water whenever it is replaced.

TAM additive also serves to improve purification by neutralising sulphuric and sulphurous acids and nitrogen oxides.

We recommend to use a fresh dosage of TAM additive every time that the water in the tank is replaced.

The TAM additive is provided in convenient bottle of 150cc.

Each package contains 50 bottles.

Different packages available on request.



Bottles of TAM additive



gorggo filter applications

diesel exhaust water filter