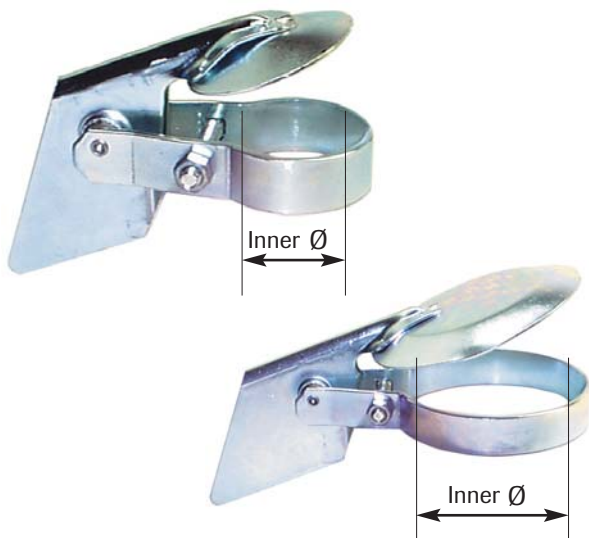




Order our exhaust system catalogue REF 6282465 with all mufflers, pipes, ...available from TVH.

## EXHAUST CAPS FOR FORKLIFT TRUCKS



### Inner diameter

### REF

(inch)

Ø (mm)

2"

51

107TA1881

2" 1/4

57

107TA1882

2" 1/2

63

107TA1883

2" 3/4

70

107TA1884

3"

76

107TA1885

3" 1/2

89

107TA1886

4"

102

107TA1887

EXHAUST PIPES AND RAIN CAPS



## FLEXIBLE EXHAUST PIPES

| Inner Diameter | REF galvanised | REF stainless steel |
|----------------|----------------|---------------------|
| 38 mm          | 107TA1862      | -                   |
| 40 mm          | 107TA1864      | 107TA1863           |
| 42 mm          | 107TA1865      | -                   |
| 45 mm          | 107TA1867      | 107TA1866           |
| 48 mm          | 107TA1868      | -                   |
| 50 mm          | 107TA1872      | 107TA1869           |
| 55 mm          | 107TA1873      | 107TA1870           |
| 60 mm          | 107TA1874      | 107TA1871           |
| 65 mm          | 107TA1875      | -                   |
| 70 mm          | 107TA1878      | 107TA1876           |
| 75 mm          | 107TA1879      | 107TA1877           |
| 80 mm          | 107TA1880      | -                   |

## HACKSAWS AND SET OF BLADES



**SET OF 2**  
**REF 107TA7558**  
20 TND + 14 TND

**ECLIPSEplus 30** DATE TO ARRIVE: 10/10/2015 **FLEXIBLE BIMETAL HIGH SPEED STEEL**

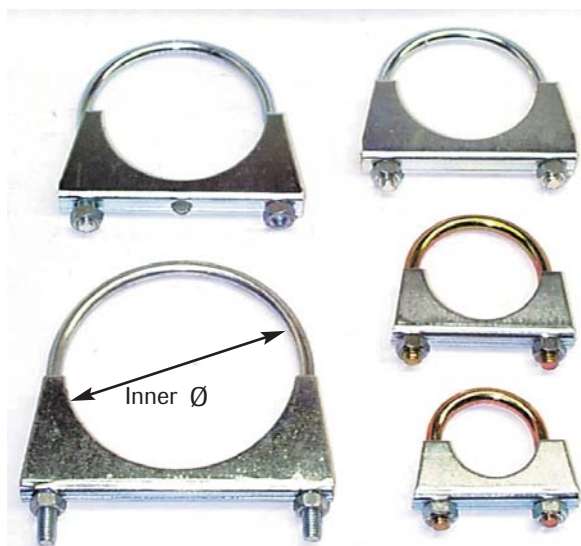
REF 107TA7555  
18 T - 100pcs.

REF 107TA7556  
24 T - 100pcs.

REF 107TA7557  
32 T - 100pcs.



## STANDARD EXHAUST CLAMPS



| Inner diameter<br>(mm) (inch) |        | Tube outer diameter<br>(mm) (inch) |        | REF       |
|-------------------------------|--------|------------------------------------|--------|-----------|
| 35                            | 1" 3/8 | 32                                 | 1" 1/4 | 107TA1895 |
| 38                            | 1" 1/2 | 35                                 | 1" 3/8 | 107TA1896 |
| 41                            | 1" 5/8 | 38                                 | 1" 1/2 | 107TA1897 |
| 44                            | 1" 3/4 | 41                                 | 1" 5/8 | 107TA1898 |
| 48                            | 1" 7/8 | 44                                 | 1" 3/4 | 107TA1899 |
| 51                            | 2"     | 48                                 | 1" 7/8 | 107TA1900 |
| 54                            | 2" 1/8 | 51                                 | 2"     | 107TA1901 |
| 58                            | 2" 1/4 | 54                                 | 2" 1/8 | 107TA1902 |
| 60                            | 2" 3/8 | 57                                 | 2" 1/4 | 107TA1903 |
| 67                            | 2" 5/8 | 63                                 | 2" 1/2 | 107TA1904 |
| 73                            | 2" 7/8 | 67                                 | 2" 3/4 | 107TA1905 |
| 79                            | 3" 1/8 | 76                                 | 3"     | 107TA1906 |
| 105                           | 4" 1/8 | 102                                | 4"     | 107TA1907 |

## HEAVY DUTY EXHAUST CLAMPS



Inner diameter  
(mm) (inch)

REF

54 2" 1/8  
67 2" 5/8  
73 2" 7/8  
79 3" 1/8  
86 3" 3/8  
92 3" 5/8  
113 4" 7/16

107TA1888  
107TA1889  
107TA1890  
107TA1891  
107TA1892  
107TA1893  
107TA1894

## CATALYTIC CONVERTERS FOR FORKLIFTS

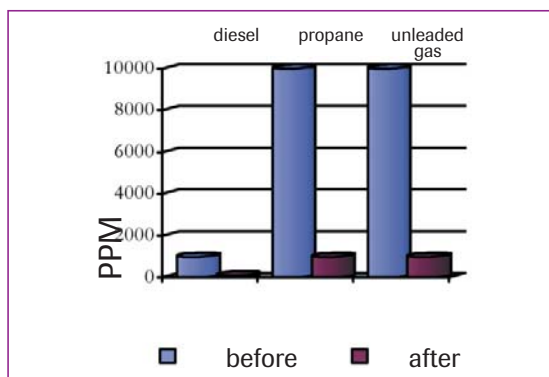
### What is a catalytic converter ?

- Catalytic converters reduce emissions of dangerous carbon monoxide (CO), hydrocarbons (HC), nitrogen oxides (NOx) and odour from diesel, gas, natural gas and propane-powered equipment

### Untreated emissions

- Carbon monoxide (CO) is an odourless and colourless gas that causes headaches; in high concentrations, it can even cause death.
- Hydrocarbons (HC) cause eye & throat irritation and are responsible for odours and irritating fumes.
- Emissions from internal combustion powered equipment cause serious health hazards to employees working in enclosed environments.

### CO Emissions Comparison



### What can catalytic converters do ?

- Catalytic converters reduce emissions of carbon monoxide (CO) up to 99%, hydrocarbons (HC) up to 90% and diesel particles by up to 30%.

### How does a catalytic converter work ?

- A catalytic converter contains a honeycomb in a steel housing or muffler.
- The honeycomb is coated with a catalyst formula, which induces chemical reactions as exhaust gasses enter and pass through the honeycomb.
- The effect of the catalyst formula is the conversion of the toxic gasses into harmless carbon dioxide (CO<sub>2</sub>) and water (H<sub>2</sub>O).

### Oxidation catalytic converters ?

- Oxidation catalytic converters, or two-way catalytic converters, convert poisonous carbon monoxide (CO) and hydrocarbons (HC) into carbon dioxide and water.

### Three-way catalytic converters ?

- Unlike oxidation catalytic converters, three-way catalytic converters offer the added reduction of nitrogen oxides (NOx).
- Three-way catalytic converters offer added NOx reduction by using a digital air/fuel ratio controller to maintain an optimum air/fuel ratio.
- The use of the air/fuel ratio controller combined with advanced three-way catalyst coating results in the elimination of toxic exhaust and the reduction of fuel consumption.



### Catalytic converter advantage

- Each catalytic converter contains a patented stainless steel honeycomb, which is brazed to its stainless steel shell.
- The unique brazed design eliminates the possibility of the honeycomb loosening, cracking or telescoping inside the catalyst.

**For further information, please contact us.**



## INLINE CATALYTIC CONVERTERS



- Inline catalytic converters are custom-designed units made to suit each equipment make and model.
- Inline catalytic converters replace the exhaust tubing between the exhaust manifold and muffler, eliminating costly exhaust system modification and downtime.

## STANDARD DESIGN DIESEL CATALYTIC CONVERTERS



- Oxidation catalytic converters install directly in the exhaust gas stream between the exhaust manifold and muffler.
- Standard design catalysts are available either with two quick-release clamps, for removal of the catalyst center body, or as all-welded units with a fixed catalyst center body.

## CATALYTIC MUFFLER CONVERTERS



- Catalytic muffler converters are direct replacement mufflers, making installation quick and easy.
- Catalytic muffler converters offer exhaust purification without compromising noise reduction or creating excessive backpressure.
- Available in two or three-way catalyst reduction.

## STANDARD DESIGN LPG CATALYTIC CONVERTERS



- Standard catalysts for LPG engines clamp directly onto the existing tailpipe.
- Every catalyst is an exact fit, making installation quick and easy.

## CATALYTIC CONVERTERS FOR FORKLIFTS

Treatment of exhaust fumes: each engine produces emissions at different pollution levels.  
Exhaust fumes in PPM (particles per million)

| Typical exhaust gas levels | harmfulness | LPG         | Diesel                | Gas                   |
|----------------------------|-------------|-------------|-----------------------|-----------------------|
| CO: Carbon oxides          | toxic       | 380 - 10000 | 180 - 4000            | 18000 - 70000         |
| NOx: Nitrogen oxides       | toxic       | 180 - 4500  | 260 - 2000            | 250 - 4500            |
| HC: Hydrocarbons           | toxic       | 90 - 300    | 275 - 2000            | 250 - 600             |
| Aldehydes                  | irritants   | 10 - 100    | 10 - 300              | 100 - 300             |
| Soot / particle matter     | toxic       | -           | 0,24 g/m <sup>3</sup> | 0,05 g/m <sup>3</sup> |

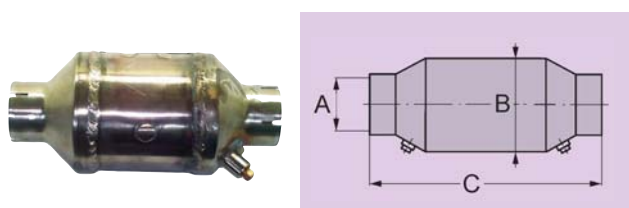
Solution:

### 1) Oxidation catalytic converters.

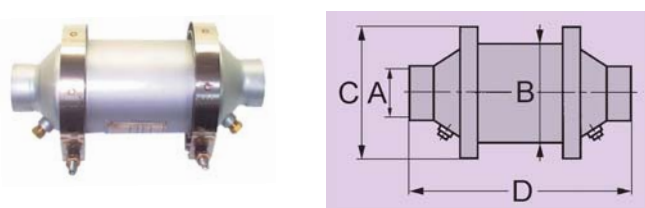
The 2-way catalytic converter reduces CO gasses up to 99 % and HC gasses up to 90 %.

### A) STANDARD CATALYSTS FOR DIESEL ENGINE

standard welded design



standard design with clamps



| REF              | Displacement | Dimensions (mm) |     |     |
|------------------|--------------|-----------------|-----|-----|
|                  | (*)          | A               | B   | C   |
| <b>107TA1908</b> | 2380 cc      | 38              | 79  | 184 |
| <b>107TA1909</b> | 2380 cc      | 44 •            | 79  | 184 |
| <b>107TA1910</b> | 2380 cc      | 51 •            | 79  | 184 |
| <b>107TA1911</b> | 2380 cc      | 64              | 79  | 184 |
| <b>107TA1912</b> | 3970 cc      | 38              | 102 | 234 |
| <b>107TA1913</b> | 3970 cc      | 44              | 102 | 234 |
| <b>107TA1914</b> | 3970 cc      | 51 •            | 102 | 234 |
| <b>107TA1915</b> | 3970 cc      | 64 •            | 102 | 234 |
| <b>107TA1916</b> | 3970 cc      | 76 •            | 102 | 234 |
| <b>107TA1917</b> | 6290 cc      | 51              | 127 | 244 |
| <b>107TA1918</b> | 6290 cc      | 64              | 127 | 244 |
| <b>107TA1919</b> | 6290 cc      | 76 •            | 127 | 244 |
| <b>107TA1920</b> | 6290 cc      | 89              | 127 | 244 |
| <b>107TA1921</b> | 6290 cc      | 102             | 127 | 244 |
| <b>107TA1922</b> | 9230 cc      | 64              | 152 | 264 |
| <b>107TA1923</b> | 9230 cc      | 76              | 152 | 264 |
| <b>107TA1924</b> | 9230 cc      | 89              | 152 | 264 |
| <b>107TA1925</b> | 9230 cc      | 102             | 152 | 264 |

| REF              | Displacement | Dimensions (mm) |     |     |     |
|------------------|--------------|-----------------|-----|-----|-----|
|                  | (*)          | A               | B   | C   | D   |
| <b>107TA1926</b> | 2380 cc      | 38              | 79  | 107 | 203 |
| <b>107TA1927</b> | 2380 cc      | 44 •            | 79  | 107 | 203 |
| <b>107TA1928</b> | 2380 cc      | 51 •            | 79  | 107 | 203 |
| <b>107TA1929</b> | 2380 cc      | 64              | 79  | 107 | 203 |
| <b>107TA1930</b> | 3970 cc      | 38              | 102 | 133 | 244 |
| <b>107TA1931</b> | 3970 cc      | 44              | 102 | 133 | 244 |
| <b>107TA1932</b> | 3970 cc      | 51 •            | 102 | 133 | 244 |
| <b>107TA1933</b> | 3970 cc      | 64 •            | 102 | 133 | 244 |
| <b>107TA1934</b> | 3970 cc      | 76 •            | 102 | 133 | 244 |
| <b>107TA1935</b> | 6290 cc      | 51              | 127 | 159 | 254 |
| <b>107TA1936</b> | 6290 cc      | 64              | 127 | 159 | 254 |
| <b>107TA1937</b> | 6290 cc      | 76 •            | 127 | 159 | 254 |
| <b>107TA1938</b> | 6290 cc      | 89              | 127 | 159 | 254 |
| <b>107TA1939</b> | 6290 cc      | 102             | 127 | 159 | 254 |
| <b>107TA1940</b> | 9230 cc      | 64              | 152 | 184 | 276 |
| <b>107TA1941</b> | 9230 cc      | 76              | 152 | 184 | 276 |
| <b>107TA1942</b> | 9230 cc      | 89              | 152 | 184 | 276 |
| <b>107TA1943</b> | 9230 cc      | 102             | 152 | 184 | 276 |

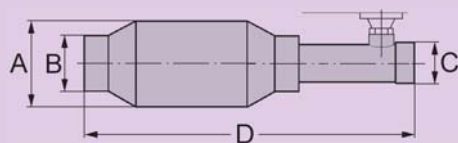
(•) = in stock.

(\*) for turbo engines, please contact us.

**For further information, please contact us.**



## B) CATALYSTS FOR LPG & GAS ENGINES (LEAD FREE)



|                          | REF 107TA7671 | REF 107TA7672 | REF 107TA7673 | REF 107TA7674 |
|--------------------------|---------------|---------------|---------------|---------------|
| Max. engine power (kW)   | 32 (23,9)     | 32 (23,9)     | 53 (39,5)     | 53 (39,5)     |
| Max debit exhaust (m3/h) | 192 (326)     | 192 (326)     | 318 (540)     | 318 (540)     |
| A inch (mm)              | 3.12 (79)     | 3.12 (79)     | 4.00 (102)    | 4.00 (102)    |
| B inch (mm)              | 1.75 (44)     | 2.04 (52)     | 2.04 (52)     | 1.75 (44)     |
| C inch (mm)              | 1.75 (44)     | 2.04 (52)     | 2.04 (52)     | 1.75 (44)     |
| D inch (mm)              | 11.77 (300)   | 11.77 (300)   | 13.75 (350)   | 13.75 (350)   |

## C) CUSTOM REPLACEMENT CATALYST

Inline and catalytic muffler converters, replace STD-muffler !  
Please indicate your make of truck + make of engine.  
Different models in stock.

*This is only a small selection,  
call for further details*

| Example:   | machine model                        | engine model                      | REF       |
|------------|--------------------------------------|-----------------------------------|-----------|
| CLARK      | DPM 12-15-17-20S<br>DPM 12-15-17-20S | MITSUBISHI S4E<br>MITSUBISHI S4E2 | 107TA1944 |
| CLARK      | DPM 20-25-30                         | MITSUBISHI S4E                    | 107TA1945 |
| DAEWOO     | G20-2S.30                            | HERCULES 2.7 L LPG 2 way          | 105TA6874 |
| DAEWOO     | D20-2S.30                            | DAEWOO DB33 DIESEL                | 107TA1946 |
| DAEWOO     | G20-2S.30                            | HERCULES 2.7 L LPG 2 way          | 107TA1947 |
| DAEWOO     | D50-60-70                            | PERKINS 4.236 DIESEL              | 107TA1948 |
| DAEWOO     | D20-2S.30-S3                         | DAEWOO DB33 DIESEL                | 107TA1949 |
| DAEWOO     | GC20-2S.30 S3                        | HERCULES 2.7 L LPG 2 way          | 107TA1950 |
| DAEWOO     | GP 20-2S-30 S3                       | HERCULES 2.7 LPG 2 way            | 107TA1951 |
| DAEWOO     | G25E                                 | MITSUBISHI 4G64 LPG 2 way         | 107TA1952 |
| HYSTER     | H12.00 XL                            | PERKINS 1006.6 DIESEL             | 105TA6870 |
| TOYOTA     | 5FD20-25-30                          | TOYOTA 1Z                         | 107TA1953 |
| MITSUBISHI | FD20-25 F18A                         | MITSUBISHI S4E                    | 107TA1954 |



## 2) 3-way converters

The 3-way catalytic converters reduce harmful gases, including nitrogen oxides (NOx) by up to 95%.  
A 3-way system allows trucks with LPG engines to work safely in enclosed areas due to extremely low emission levels.

Please indicate your make of truck + make of engine.  
Different models in stock.

### More than 1.000 different models available:

ALLIS CHALMERS - CATERPILLAR - CLARK - DAEWOO - FIAT  
HYSTER - KOMATSU - LINDE - MANITOU - MITSUBISHI  
NISSAN - TOYOTA - TCM - YALE

**For further information, please contact us.**

## EXHAUST FUME WASHER

- The exhaust fumes are led through a water bath.
- The water retains the soot.
  - Advantage: cost price.
  - Disadvantage: lower efficiency, daily maintenance.

**WATER-MUFFLER FOR DIESEL EXHAUST GAS.**

This type of water muffler gives an answer to the problem of the "black smoke", which is caused by diesel engines. By reducing the grade of black smoke, and soot by 85% and consequently a large part of all bad smelling and irritating substances with the help of an exhaust gas "cleaning" mechanism.

Fumes pass through the cleaning fluid (water) in order to deposit all unburnt hydrocarbons, at the bottom of the tank, as a part of sulphurous compounds and aldehydes (which are the reason for the typical smell and grade of smoke of diesel engines). With the help of this cleaning system a considerable temperature drop of exhaust fumes is also reached, in this way the transformation of nitric oxides into very noxious nitric dioxides is avoided. They are kept constantly under the flash point of eventual fumes present in the working environment.

- It is an excellent silencer and spark quencher in conformity with explosion-proof standards CEI 31-11 and European standards CENELEC EN 50014 and 50018.
- Its temperature is lower than class "T5" (100° C).
- Works as spark arrestor also without water.

**MOUNTING:**

It can be mounted on any part of the forklift, even if it is far away from the engine.

1. Remove the pre-existing muffler (in order to avoid an increase in back pressure).
2. Fix the muffler on the forklift chassis by means of the fitting brackets which you can find on the lower part.
3. Connect the tube coming from the manifold to the inlet flange of the muffler by inserting a flexible tube section between them

**MAINTENANCE:**

The maintenance is very simple, fast and economic. Actually, it simply requires the water replacement every 8 working hours. Emptying the tank first, opening the fitting tap and afterwards refilling the tank with water. Clean the muffler every 300 working hours. Empty the water tank and wash the inside with a pressure water jet for 2 or 3 minutes.

**WARNING:**

Do not use sea water (salt) or water-containing chloride !!!

**REF 124TA2654**

This product is used to keep the inside of the purifier clean; extending maintenance intervals. TAM additive also serves to improve purification by neutralising sulphuric and sulphurous acids and nitrogen oxides. We recommend using a fresh dosage of TAM additive every time the body of water is replaced. The TAM additive is provided in convenient containers with screw caps holding a volume of 150cc.

**IMPORTANT NOTE FOR GUARANTEE**

The Gorgo purifiers are entirely manufactured in AISI 316 stainless steel. This material is resistant to high temperature and to corrosive sulphurous compounds which are present in the exhaust gas.

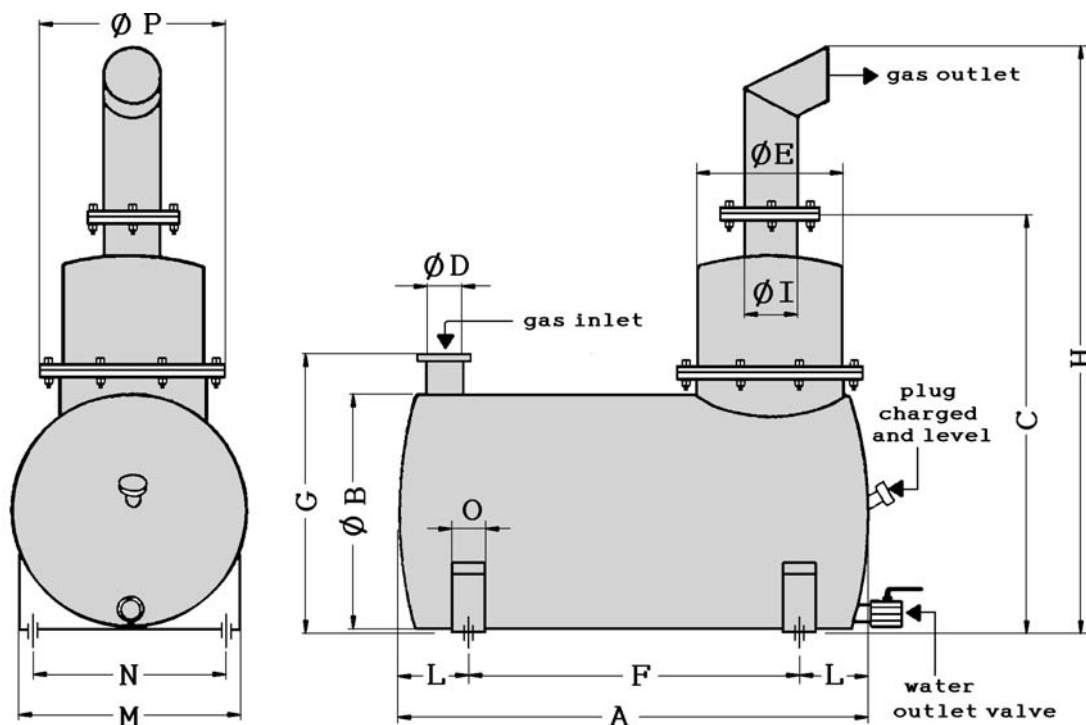
In spite of all that, in some applications, permanent corrosion damage can be caused, and is not covered by the guarantee.

The causes of the corrosion can be the followings:

- use of fuel with high sulphur content
- use of water with a chlorine content of > 50 ppm
- use of seawater or brackish water
- irregular purifier maintenance, you must change every 8 hours the water and add the TAM Additive (keep your accounts from the additive to beware your guarantee)



## EXHAUST FUME WASHER



| REF       | Engine power          | A    | $\varnothing B$ | C    | $\varnothing D$ | $\varnothing E$ | F   | G   | H    | $\varnothing I$ | L   | M   | N   | O   | $\varnothing P$ |
|-----------|-----------------------|------|-----------------|------|-----------------|-----------------|-----|-----|------|-----------------|-----|-----|-----|-----|-----------------|
| 107TA1956 | up to KW 15 (pk 20)   | 450  | 300             | 600  | 40              | 150             | 290 | 350 | 800  | 50              | 80  | 268 | 205 | 45  | -               |
| 107TA1957 | up to KW 37 (pk 50)   | 570  | 350             | 700  | 50              | 180             | 350 | 400 | 1380 | 80              | 110 | 303 | 230 | 60  | 230             |
| 107TA1958 | up to KW 59 (pk 80)   | 660  | 350             | 700  | 50              | 200             | 430 | 400 | 1380 | 80              | 115 | 303 | 230 | 60  | 250             |
| 107TA1959 | up to KW 81 (pk 110)  | 750  | 370             | 740  | 60              | 230             | 530 | 420 | 1420 | 80              | 110 | 342 | 280 | 70  | 280             |
| 107TA1960 | up to KW 110 (pk 150) | 950  | 400             | 740  | 80              | 300             | 620 | 450 | ✓    | 100             | 165 | 362 | 290 | 70  | 350             |
| 107TA1961 | up to KW 184 (pk 250) | 1000 | 600             | 1000 | 100             | 400             | 750 | 650 | ✓    | 100             | 125 | 556 | 480 | 100 | 450             |
| 107TA1962 | up to KW 258 (pk 350) | 1100 | 700             | 1100 | 120             | 420             | 800 | 750 | ✓    | 120             | 150 | 610 | 520 | 100 | 470             |

## SOOT FILTER WITH REPLACEABLE CARTRIDGES

## Soot filter replaceable elements:

- The soot is retained by a special replaceable filter element.  
 Advantage: 99,98 % efficiency.  
 Disadvantage: replacement of elements (every 300 to 400 hours).
- Please advise truck type + engine power + installation counterweight or installation on roof.



## Function:

The "heart" of the soot filter is an interchangeable filter element that is composed of cellulose.

This element has the ability to withstand high temperatures (in comparison with an ordinary filter) and reduces the emission of diesel soot by 99%.

## Composition:

The system consists of a filter housing, with filter element, counter pressure valve + indicator, temperature safety valve + outlet valve and flexibles.

The filter is available for both assembly on the counterweight and assembly on the roof.

## Maintenance:

The element should be replaced every 300 to 400 hours, with normal use.

**Please supply truck model, serial number and engine type**

| REF complete | Engine power | Element    | REF element    |
|--------------|--------------|------------|----------------|
| 107TA1966    | 80 PK        | Ø11" 340°C | 107TA1963 (2x) |
| 107TA1967    | 60 PK        | Ø15" 320°C | 102TA6003      |
| 107TA1968    | 50 PK        | Ø11" 320°C | 107TA1965      |



## SOOT FILTER FOR DIESEL ENGINES

### Soot filter for:

- Forklift diesel engines, construction machinery
- Stationary diesel engines

### Function:

The soot filter is composed of ceramic materials, packed gas-free in a stainless steel plate. The ceramic monoliths contain a certain number of square cells with parallel channels, which are sealed by turns; the separation between these channels is porous. The diesel exhaust flows through these separations and is filtered by the surface and pores in the ceramic material. This filtration removes up to 98% of soot from the exhaust fumes. The filtered particles are then burnt by regenerating the filter in a separate oven.

### Type EWR:

- Removes up to 98% of soot
- Life span 8 to 10 hours
- Usable in every situation
- Adapts to any kind of truck through its element structure
- Quick and easy change of the filter
- Continuous operation when using multiple filters
- Electronically operated filter regeneration within 50 to 90 minutes
- Can be placed horizontally or vertically
- Requires little space, no obstruction of sight
- Only one regeneration oven needed for multiple filters.



| REF       | SOOT FILTER |
|-----------|-------------|
| 107TA1969 | 0-20 KW     |
| 107TA1970 | 20-60 KW    |
| 107TA1971 | 60-120 KW   |
| 107TA1972 | 120-160 KW  |
| 107TA1973 | 160-200 KW  |





## TEMPORARY EXHAUST FILTERS

EXHAUST CLEANER  
FOR STARTING INSIDE BUILDINGScomplete filter:  
**REF 105TA2744**replacement element:  
**REF 105TA2745**connecting cone:  
d min. = 35 mm  
d max. = 70 mm  
**REF 105TA2746**connecting cone:  
d min. = 25 mm  
d max. = 45 mm  
**REF 105TA2747**

This filter is an exhaust cleaner for **temporary use** of vehicles in factories, ships, workshops, exhibition halls etc...

The filter functions immediately when starting the truck, gives maximum flexibility indoors and is not affected by moisture.

The filter removes all hazardous substances from the exhaust particles.

## TECHNICAL DATA

For use inside buildings

|                   |               |
|-------------------|---------------|
| particle separ.   | >99,9 %       |
| Co separ.         | +/- 30 %      |
| Nox separ.        | +/- 60 %      |
| Rc Ho separ.      | +/- 90 %      |
| Hc separ.         | +/- 35 %      |
| Max. engine       | 5,5 L cyl col |
| Max. rpm          | 2500 rpm      |
| Max const. temp   | 200°C         |
| Max temp. 30 sec. | 350°C         |

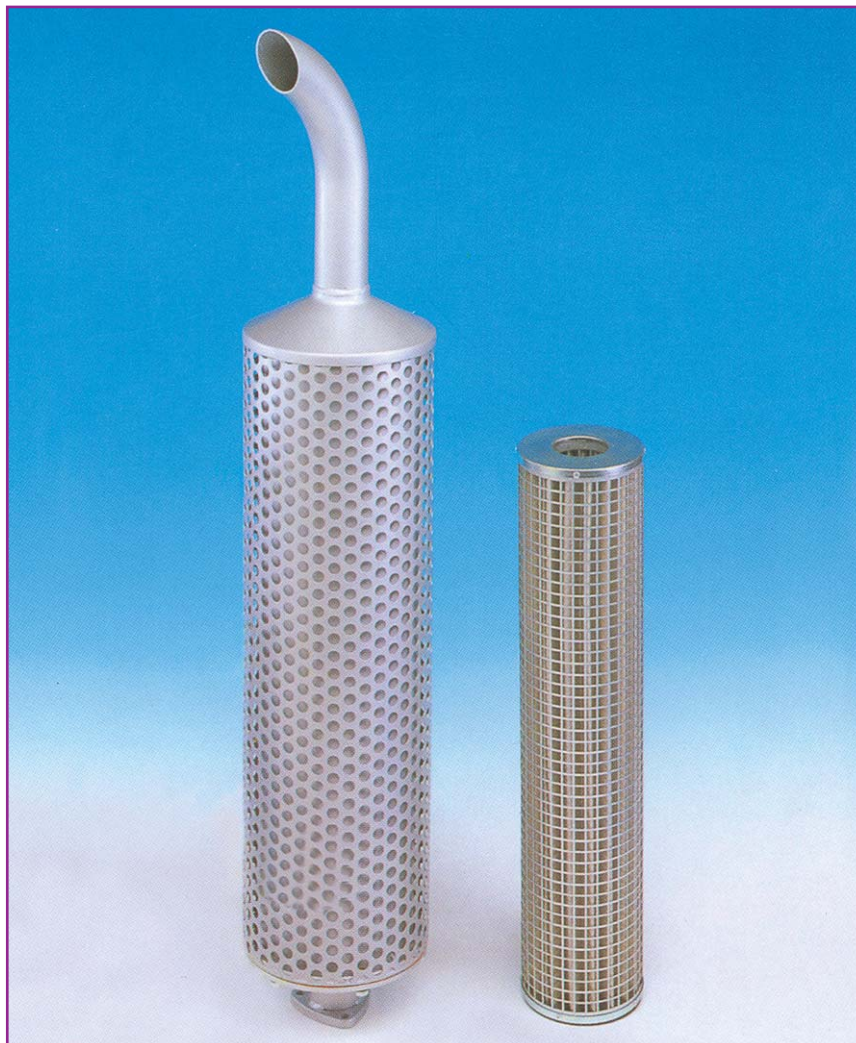
## Expected lifetime:

- > 300 starts; for petrol (3,0 L engine)
- > 75 starts; for diesel (3,0 L engine)

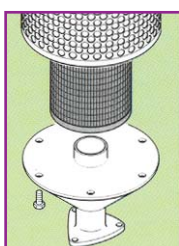
Weight 0,4 Kg

## PARTICULE DETAINING EXHAUST

It reduces, as far as possible, the unburnt residues (particules) in the exhaust fumes of diesel endothermic engines. The cylindrical casing with external protection in perforated sheet metal contains a dry filtering cartridge (fire-retardant) which detains the solid particles of the exhaust fumes. In fork-lift trucks it is rapidly installed instead of the vertical silencer.



Securing solutions

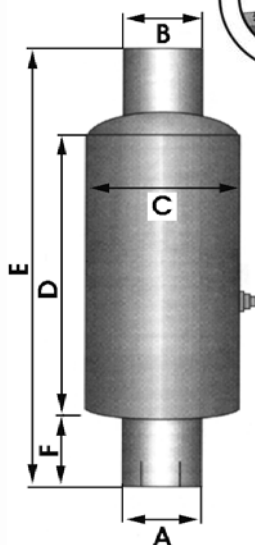
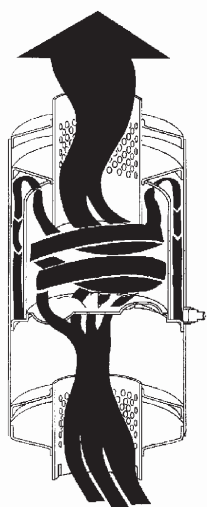


Filter replacement

| REF       | Ø                            | Length | Discharge  | Engine Power |
|-----------|------------------------------|--------|------------|--------------|
| 115TA6910 | 115                          | 800    | Vertical   | 0-52 kw      |
| 115TA6911 | 400                          | 800    | Horizontal | 52-75 kw     |
| 115TA6912 | Filter element for 115TA6910 |        |            |              |
| 115TA6913 | Filter element for 115TA6911 |        |            |              |

- **Rapid installation**
- **It acts as a silencer**
- **it does not create vapours or liquid residues**
- **it is rapidly replaced**
- **it is compact**
- **the cartridges last 200 hours approximately**
- **global damping of the particules of around 70%**

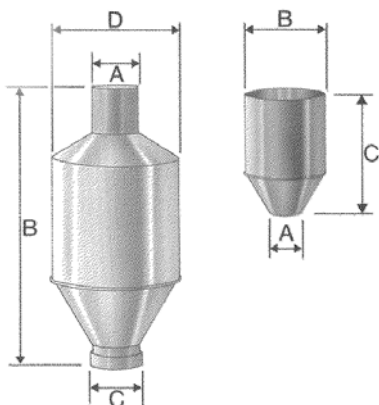
## SPARK ARRESTORS FOR FORKLIFTS

**No more flames thanks to the centrifugal system.**

- Designed for universal application with a minimum of restriction on the engine.
- They work well as add-on units to existing exhaust systems. Their lightweight and small size reduces stress and vibration to the rest of the exhaust system.
- Typical applications include logging and construction equipment, agricultural machinery, over-the-road trucks, airport equipment, forestry and military vehicles.
- All arrestors exceed U.S. forestry requirements and are qualified and tested for vertical and horizontal installations under the U.S. forestry Service Standard 5100-1b.
- All inlets are slotted tube connections. Outlets are O.D. tubing.
- CFM rating is based on a pressure drop of 1 PSI.

| inner $\varnothing$ A | outer $\varnothing$ B | C     | D     | E     | F     | CFM  | l/min | REF              |
|-----------------------|-----------------------|-------|-------|-------|-------|------|-------|------------------|
| 27mm - 1,05"          | 32mm - 1,25"          | 108mm | 81mm  | 150mm | 33mm  | 80   | 2266  | <b>122TA7586</b> |
| 38mm - 1,50"          | 38mm - 1,50"          | 108mm | 79mm  | 150mm | 36mm  | 165  | 4675  | <b>107TA1976</b> |
| 51mm - 2,00"          | 51mm - 2,00"          | 143mm | 163mm | 279mm | 51mm  | 295  | 8357  | <b>108TA8876</b> |
| 64mm - 2,50"          | 67mm - 2,63"          | 143mm | 218mm | 325mm | 51mm  | 450  | 12748 | <b>107TA1978</b> |
| 76mm - 3,00"          | 80mm - 3,13"          | 168mm | 259mm | 378mm | 64mm  | 660  | 18696 | <b>104TA5741</b> |
| 89mm - 3,50"          | 92mm - 3,63"          | 194mm | 305mm | 447mm | 76mm  | 900  | 25496 | <b>107TA1979</b> |
| 102mm - 4,00"         | 105mm - 4,13"         | 216mm | 371mm | 538mm | 86mm  | 1180 | 33427 | <b>122TA7587</b> |
| 127mm - 5,00"         | 130mm - 5,13"         | 244mm | 406mm | 310mm | 102mm | 1840 | 52123 | <b>122TA7588</b> |
| 152mm - 6,00"         | 156mm - 6,13"         | 308mm | 559mm | 686mm | 51mm  | 2650 | 75069 | <b>122TA7589</b> |

## SPARK ARRESTORS



| REF              | Engine power |       | Dimensions (mm) |     |    |     |
|------------------|--------------|-------|-----------------|-----|----|-----|
|                  | PK           | KW    | A               | B   | C  | D   |
| <b>107TA1974</b> | 25-65        | 18-48 | 70              | 335 | 70 | 188 |
| <b>107TA1975</b> | 50-125       | 37-92 | 70              | 401 | 70 | 188 |

**For further information, please contact us.**



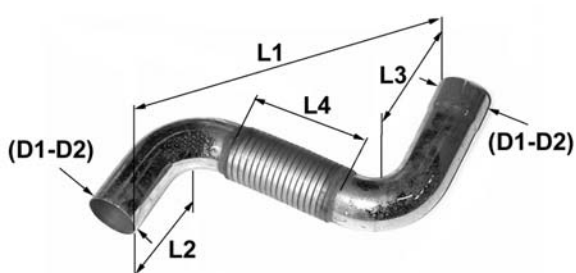


## TECHNICAL DETAIL: EXHAUST TUBES

### EXAMPLE



### MEASUREMENTS:

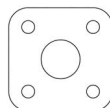


### FLANGE TYPE:

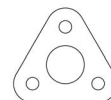
A) Oval



C) Square or rectangular



B) Triangular



D) Special flange  
(none of the previous)

E) No flange

- 1 L1: ..... Minimum distance between two ends (if flexible, please stretch out to ..... the full length). Remark: if 3 tubes, take the minimum distance between the ..... tubes with the largest diameters.
- 2 AT-BO: ..... Number of bends: if flexible, this does not count as a bend, unless it is ..... explicitly seen as a bend.
- 3 TY-FL ..... Type of flange (see diagrams). If 2 different flanges are present, ..... please note order as mentioned in the list: e.g. AC and not CA.
- 4 D1: ..... Outer diameter of smallest tube.
- 5 D2: ..... Outer diameter of largest tube.
- 6 L2: ..... Smallest distance to centre of first bend (see drawing).
- 7 L3: ..... Largest distance to centre of first bend (see drawing).
- 8 L4: ..... Length of flexible, completely stretched out (if present)
- 9 GA: ..... Heat-resistant protection present yes/no
- 10 SUP: ..... Sum of fixing points; hooks, levers, thread, etc...

### IMPORTANT

- The diameters are measured on the outside of the tip of the tube.
- If 3 tubes, take the 2 largest diameters.

## USED FOR: CATERPILLAR



| REF   | 105TA7062 |
|-------|-----------|
| L1    | 390       |
| AT-BO | 1         |
| TY-FL | A         |
| D1    | 47        |
| D2    | 47        |
| L2    | 95        |
| L3    | 360       |
| L4    | 275       |
| GA    | NO        |

*This is only a selection of pages in our catalogue. For all other exhaust tubes ask for our complete catalogue now!*  
REF 6282465

## USED FOR: HYSTER



| REF   | 106TA6315 |
|-------|-----------|
| L1    | 252       |
| AT-BO | 0         |
| TY-FL | E         |
| D1    | 53        |
| D2    | 53        |
| L2    | 0         |
| L3    | 0         |
| L4    | 200       |
| GA    | NO        |

## USED FOR: HYSTER



| REF   | 105TA6922 |
|-------|-----------|
| L1    | 640       |
| AT-BO | 4         |
| TY-FL | A         |
| D1    | 32        |
| D2    | 32        |
| L2    | 80        |
| L3    | 125       |
| L4    | 0         |
| GA    | NO        |

## USED FOR: KOMATSU



| REF   | 106TA6313 |
|-------|-----------|
| L1    | 328       |
| AT-BO | 1         |
| TY-FL | A         |
| D1    | 42,5      |
| D2    | 42,5      |
| L2    | 75        |
| L3    | 255       |
| L4    | 140       |
| GA    | NO        |

## USED FOR: KOMATSU



| REF   | 105TA7068 |
|-------|-----------|
| L1    | 575       |
| AT-BO | 4         |
| TY-FL | A         |
| D1    | 34        |
| D2    | 43        |
| L2    | 15        |
| L3    | 105       |
| L4    | 155       |
| GA    | NO        |

## USED FOR: KOMATSU



| REF   | 105TA6884 |
|-------|-----------|
| L1    | 630       |
| AT-BO | 6         |
| TY-FL | A         |
| D1    | 34        |
| D2    | 34        |
| L2    | 70        |
| L3    | 275       |
| L4    | 105       |
| GA    | NO        |

## USED FOR: MITSUBISHI



| REF   | 105TA7014 |
|-------|-----------|
| L1    | 370       |
| AT-BO | 3         |
| TY-FL | E         |
| D1    | 38        |
| D2    | 39        |
| L2    | 50        |
| L3    | 100       |
| L4    | 0         |
| GA    | NO        |

## USED FOR: TOYOTA



| REF   | 106TA6312 |
|-------|-----------|
| L1    | 510       |
| AT-BO | 4         |
| TY-FL | A         |
| D1    | 42,5      |
| D2    | 42,5      |
| L2    | 35        |
| L3    | 220       |
| L4    | 0         |
| GA    | YES       |

## USED FOR: TOYOTA



| REF   | 106TA6316 |
|-------|-----------|
| L1    | 295       |
| AT-BO | 3         |
| TY-FL | A         |
| D1    | 43        |
| D2    | 43        |
| L2    | 60        |
| L3    | 85        |
| L4    | 0         |
| GA    | YES       |

## USED FOR KOMATSU



| REF   | 106TA6250 |
|-------|-----------|
| L1    | 565       |
| AT-BO | 3         |
| TY-FL | C         |
| D1    | 37        |
| D2    | 40        |
| L2    | 37        |
| L3    | 75        |
| L4    | 0         |
| GA    | YES       |

## USED FOR CLARK



| REF   | 106TA6314 |
|-------|-----------|
| L1    | 325       |
| AT-BO | 2         |
| TY-FL | B         |
| D1    | 48        |
| D2    | 48        |
| L2    | 55        |
| L3    | 65        |
| L4    | 0         |
| GA    | NO        |

## USED FOR MITSUBISHI



| REF   | 106TA7390 |
|-------|-----------|
| L1    | 390       |
| AT-BO | 1         |
| TY-FL | A         |
| D1    | 38        |
| D2    | 43        |
| L2    | 170       |
| L3    | 230       |
| L4    | 0         |
| GA    | NO        |

## USED FOR KOMATSU



| REF   | 106TA7391 |
|-------|-----------|
| L1    | 440       |
| AT-BO | 3         |
| TY-FL | E         |
| D1    | 42        |
| D2    | 47        |
| L2    | 45        |
| L3    | 95        |
| L4    | 175       |
| GA    | NO        |

## USED FOR CLARK



| REF   | 105TA7149 |
|-------|-----------|
| L1    | 450       |
| AT-BO | 3         |
| TY-FL | B         |
| D1    | 48        |
| D2    | 49        |
| L2    | 45        |
| L3    | 95        |
| L4    | 0         |
| GA    | NO        |

## USED FOR TOYOTA



| REF   | 106TA7392 |
|-------|-----------|
| L1    | 745       |
| AT-BO | 5         |
| TY-FL | A         |
| D1    | 43        |
| D2    | 43        |
| L2    | 90        |
| L3    | 130       |
| L4    | 140       |
| GA    | NO        |

## USED FOR KOMATSU



| REF   | 105TA7285 |
|-------|-----------|
| L1    | 475       |
| AT-BO | 2         |
| TY-FL | E         |
| D1    | 43        |
| D2    | 47        |
| L2    | 100       |
| L3    | 155       |
| L4    | 175       |
| GA    | NO        |

## USED FOR CATERPILLAR



| REF   | 105TA7035 |
|-------|-----------|
| L1    | 795       |
| AT-BO | 2         |
| TY-FL | E         |
| D1    | 50        |
| D2    | 55        |
| L2    | 130       |
| L3    | 195       |
| L4    | 0         |
| GA    | NO        |

## USED FOR KOMATSU



| REF   | 105TA7068 |
|-------|-----------|
| L1    | 575       |
| AT-BO | 4         |
| TY-FL | A         |
| D1    | 34        |
| D2    | 43        |
| L2    | 15        |
| L3    | 105       |
| L4    | 155       |
| GA    | NO        |

## USED FOR MITSUBISHI



| REF   | 105TA6921 |
|-------|-----------|
| L1    | 370       |
| AT-BO | 1         |
| TY-FL | A         |
| D1    | 38        |
| D2    | 42        |
| L2    | 80        |
| L3    | 315       |
| L4    | 180       |
| GA    | NO        |

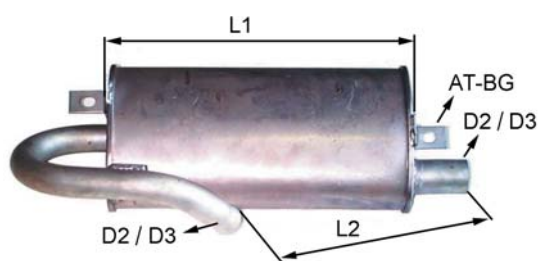


## TECHNICAL DETAIL: SILENCERS

## EXAMPLE



## MEASUREMENTS:



1 TY: ..... 3 main types - see diagrams

R= round

O= oval

V= square or rectangular

Ex. OLZ: oval exhaust with a tube in the body and the side

Remark: To determine the position of the tube, always start with the body and then check the side

2 L1: ..... Length of the silencer body, see diagram (mm)

3 L2: ..... Minimum distance between the 2 tubes (mm)

Remark: if 3 tubes, take the minimum distance between the tubes with the largest diameters.

4 D1: ..... Diameter, see diagrams (mm)

5 L3: ..... Length, see diagrams (mm)

6 L4: ..... Length, see diagrams (mm)

7 D2: ..... Smallest diameter tube

8 D3: ..... Largest diameter tube

9 AT-BG: ..... Number of mounting points

Company: .....

Customer code: .....

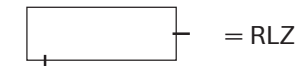
Name: .....

Fax number: .....

Truck make: .....

Truck type: ..... Serial nr.: .....

## MAIN TYPES:

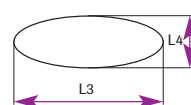


## MAIN TYPES:

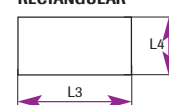
ROUND



OVAL



SQUARE OR RECTANGULAR



## IMPORTANT

- The diameters are measured on the outside of the tip of the tube.
- If 3 tubes, take the 2 largest diameters.



## USED FOR: NISSAN



| REF   | 104TA5795 |
|-------|-----------|
| TY    | OZZ       |
| L1    | 400       |
| L2    | 590       |
| D1    | 0         |
| L3    | 210       |
| L4    | 110       |
| D2    | 38        |
| D3    | 47        |
| AT-BG | 2         |

*This is only a selection of pages in our catalogue. For all other silencers ask for our complete catalogue now!*  
**REF 6282465**

## USED FOR: LINDE



| REF   | 105TA6851 |
|-------|-----------|
| TY    | RZZ       |
| L1    | 800       |
| L2    | 1200      |
| D1    | 100       |
| L3    | 0         |
| L4    | 0         |
| D2    | 43        |
| D3    | 57,2      |
| AT-BG | 1         |

## USED FOR: LINDE



| REF   | 104TA5886 |
|-------|-----------|
| TY    | RZZ       |
| L1    | 750       |
| L2    | 970       |
| D1    | 90        |
| L3    | 0         |
| L4    | 0         |
| D2    | 56        |
| D3    | 70        |
| AT-BG | 1         |

## USED FOR: MITSUBISHI



| REF   | 105TA6766 |
|-------|-----------|
| TY    | RZZ       |
| L1    | 285       |
| L2    | 515       |
| D1    | 190       |
| L3    | 0         |
| L4    | 0         |
| D2    | 43        |
| D3    | 43        |
| AT-BG | 2         |

## USED FOR: TOYOTA



| REF   | 105TA6715 |
|-------|-----------|
| TY    | RZZ       |
| L1    | 330       |
| L2    | 200       |
| D1    | 190       |
| L3    | 0         |
| L4    | 0         |
| D2    | 38        |
| D3    | 42        |
| AT-BG | 2         |

## USED FOR: TOYOTA



| REF   | 106TA4994 |
|-------|-----------|
| TY    | RZZ       |
| L1    | 340       |
| L2    | 250       |
| D1    | 190       |
| L3    | 0         |
| L4    | 0         |
| D2    | 38        |
| D3    | 42        |
| AT-BG | 3         |

## USED FOR: TOYOTA



| REF   | 105TA6760 |
|-------|-----------|
| TY    | RLZ       |
| L1    | 350       |
| L2    | 290       |
| D1    | 170       |
| L3    | 0         |
| L4    | 0         |
| D2    | 38        |
| D3    | 46        |
| AT-BG | 2         |

## USED FOR: TOYOTA



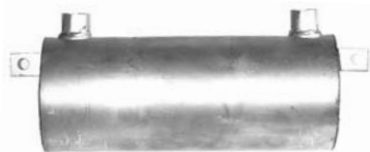
| REF   | 105TA6785 |
|-------|-----------|
| TY    | RLZ       |
| L1    | 328       |
| L2    | 335       |
| D1    | 164       |
| L3    | 0         |
| L4    | 0         |
| D2    | 38        |
| D3    | 47        |
| AT-BG | 2         |

## USED FOR: YALE



| REF   | 106TA6309 |
|-------|-----------|
| TY    | RZZ       |
| L1    | 1073      |
| L2    | 1110      |
| D1    | 90        |
| L3    | 0         |
| L4    | 0         |
| D2    | 43        |
| D3    | 49        |
| AT-BG | 1         |

## USED FOR HYSTER



| REF   | 104TA5868 |
|-------|-----------|
| TY    | RLL       |
| L1    | 380       |
| L2    | 270       |
| D1    | 150       |
| L3    | 0         |
| L4    | 0         |
| D2    | 36        |
| D3    | 36        |
| AT-BG | 2         |

## USED FOR CLARK



| REF   | 104TA5965 |
|-------|-----------|
| TY    | RLL       |
| L1    | 305       |
| L2    | 200       |
| D1    | 150       |
| L3    | 0         |
| L4    | 0         |
| D2    | 41        |
| D3    | 48        |
| AT-BG | 1         |

## USED FOR SAXBY



| REF   | 104TA5735 |
|-------|-----------|
| TY    | RLL       |
| L1    | 440       |
| L2    | 310       |
| D1    | 90        |
| L3    | 0         |
| L4    | 0         |
| D2    | 35        |
| D3    | 42        |
| AT-BG | 1         |

## USED FOR YALE



| REF   | 106TA5005 |
|-------|-----------|
| TY    | RZZ       |
| L1    | 288       |
| L2    | 390       |
| D1    | 157       |
| L3    | 0         |
| L4    | 0         |
| D2    | 35        |
| D3    | 38        |
| AT-BG | 2         |

## USED FOR LINDE



| REF   | 106TA7389 |
|-------|-----------|
| TY    | RZZ       |
| L1    | 1565      |
| L2    | 495       |
| D1    | 0         |
| L3    | 0         |
| L4    | 0         |
| D2    | 60        |
| D3    | 66,2      |
| AT-BG | 1         |

## USED FOR CLARK



| REF   | 104TA5849 |
|-------|-----------|
| TY    | OLZ       |
| L1    | 450       |
| L2    | 440       |
| D1    | 0         |
| L3    | 190       |
| L4    | 130       |
| D2    | 48        |
| D3    | 53        |
| AT-BG | 2         |

## USED FOR FIAT



| REF   | 104TA5880 |
|-------|-----------|
| TY    | RZZ       |
| L1    | 505       |
| L2    | 610       |
| D1    | 130       |
| L3    | 0         |
| L4    | 0         |
| D2    | 46        |
| D3    | 49        |
| AT-BG | 2         |

## USED FOR TCM



| REF   | 104TA5887 |
|-------|-----------|
| TY    | OZZ       |
| L1    | 400       |
| L2    | 230       |
| D1    | 0         |
| L3    | 200       |
| L4    | 115       |
| D2    | 39        |
| D3    | 48        |
| AT-BG | 2         |

## USED FOR CLARK



| REF   | 104TA5790 |
|-------|-----------|
| TY    | OLL       |
| L1    | 250       |
| L2    | 150       |
| D1    | 0         |
| L3    | 230       |
| L4    | 160       |
| D2    | 48        |
| D3    | 53        |
| AT-BG | 1         |

## USED FOR YALE



| REF   | 106TA7788 |
|-------|-----------|
| TY    | RZZ       |
| L1    | 740       |
| L2    | 1042      |
| D1    | 100       |
| L3    | 0         |
| L4    | 0         |
| D2    | 38        |
| D3    | 54        |
| AT-BG | 1         |



## ANALYZERS 4-5 GAZ



## REF 122TA7541

Analyzer 4 gas (CO, HC, CO<sub>2</sub>, O<sub>2</sub>), OIML Class 1 certified

- Shockproof, identification IMPCO
- Trapdoor for water and filter (5 filters included)
- Charger 12 VAC
- Escape borer
- Interface multi language GB, D, F, SP and NL
- Transport suitcase and instruction leaflet
- PC link cable and infrared printer available separately

## REF 122TA7542

Analyzer 4 gas (CO, HC, CO<sub>2</sub>, O<sub>2</sub>), not OIML Class 1 certified

- Shockproof, identification IMPCO
- Trapdoor for water and filter (5 filters included)
- Charger 12 VAC
- Escape borer
- Interface multi language GB, D, F, SP and NL
- Transport suitcase and instruction leaflet
- PC link cable and infrared printer available separately

## REF 122TA7543

Analyzer 5 gas (CO, HC, CO<sub>2</sub>, O<sub>2</sub>) identical to model 122TA7541 with Nox module and certificate OIML Class 1

- PC link cable and infrared printer available separately

## REF 122TA7544

Analyzer 5 gas (CO, HC, CO<sub>2</sub>, O<sub>2</sub>) identical to model 122TA7541 with Nox module and certificate OIML Class 1

- specific transport suitcase
- feeding cable
- portable infrared printer
- oil temperature and RPM borers
- PC link cable and infrared printer **included**

## REF 122TA7545

Analyzer 5 gas (CO, HC, CO<sub>2</sub>, O<sub>2</sub>) identical to model 122TA7541 with Nox module but without certificate OIML Class 1

- PC link cable and infrared printer available separately

**How do you check the emissions of your lift trucks?**

The IMPCO portable gas analyser allows you to establish new criteria for use, user-friendliness and interpretation of measurements.

Weight: 1.1 kg, can be held in one hand and has an autonomy of several hours thanks to its built-in battery. The internal memory stores up to 150 measurements of exhaust fumes, performed by controlled applications.

The infrared detection system, a unique feature on devices in this range, can display up to 4 measurements at the same time, and has an optional illuminated display. (Nox optional)

A PC link cable and infrared controlled printer are available separately.

With an accuracy as good as any other quality device, the IMPCO gas analyser is perfectly adapted to the material handling, the pre-conformity test and test on engine diagnostics and tune-up.

The IMPCO analyser can even be used under changing atmospheric pressure and temperatures.

**Field of operation:**

All thermic ignition-based applications

**Advantages:**

For all Gasoline, LPG, GNV applications  
Measures: CO, HC, CO<sub>2</sub>, O<sub>2</sub>, Lambda,  
Nox *optional*  
Temperature and RPM probe  
Easy to use and to read  
Up to 150 measurements stored in memory  
Automatic calibration  
Autonomy: up to 8 hours stand-by  
Input: 12, 110, 220 volts

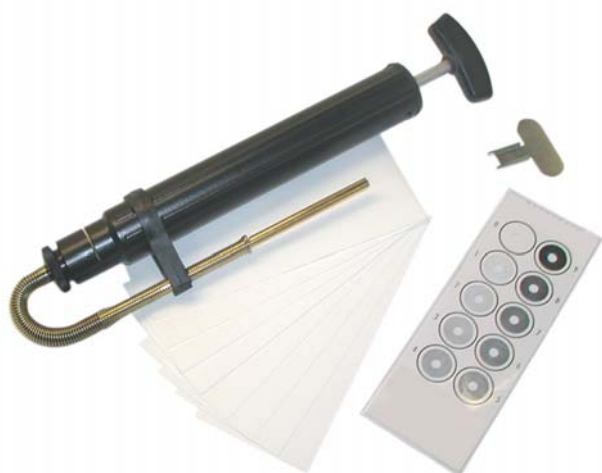


|                 | Maximum range | Normal range | Resolution |
|-----------------|---------------|--------------|------------|
| CO              | 20%           | 5%           | 0,01       |
| HC              | 10000         | 2000ppm      | 1          |
| O <sub>2</sub>  | 25%           | 21%          | 0,02       |
| CO <sub>2</sub> | 20%           | 16%          | 0,1        |
| NOX             | 0 - 5000ppm   | 5000ppm      | 1          |

|                    |  |
|--------------------|--|
| Device             | Dimensions 240 x 135 x 160 mm<br>Weight 1,1 kg |
| Range of operation | de +5°C until 40°C                             |
| Environment        | 860 - 1060 hPa                                 |
| Power supply       | 12, 110, 230 Volts                             |
| Autonomy           | 8 hours stand-by<br>4 hours operational        |
| Memory             | Up to 150 registered measurements              |

*Supplied with a rubber protection sleeve, a water reservoir and filter, a transport case, a sectorial charger/adaptor, an exhaust pipe probe, a RPM probe and an oil temperature probe.*

## SMOKE TEST SET



Determines efficient combustion and is internationally recognized as the standard method for evaluating smoke density in the flue gasses from distillate fuels. Too much smoke is one of the most common causes of excessive fuel usage and expensive service requirements.

That is precisely why the smoke test set is an indispensable part of any oil burner service job; and with the tester, an accurate smoke reading takes less than a minute. The 10 spots on the scale range in equal photometry steps from white to black to completely cover any smoke condition which may be experienced on residential or commercial oil burners.

**REF 106TA6388**

## CARBON MONOXIDE ANALYSER



The CO-analyser is a hand-held instrument designed to locate CO in ambient air as well as in stack gasses. The continuous sampling instrument quickly and accurately measures levels of CO between 0 and 2.000 ppm.

This is also available in a high range version (0-85.000 ppm) for vehicle emission testing and forklift tuning.

## FEATURES

- quickly measures and displays low levels of CO 0-2.000 ppm
- measures in increments of 1 ppm
- multi-purpose strap for easy holding
- probe and hose assembly for flue gas testing
- highly visible digital display with backlight

## TYPICAL APPLICATIONS

- CO safety checks on combustion stack gas and ambient air levels
- Analysing indoor air quality and safety
- furnace and boiler servicing or replacement
- BAM verifies CO exposure

**REF 106TA6390**

## COMBUSTION GAS ANALYSER



Portable, continuous measuring flue gas analyser housed in an aluminium case for measuring air temperature, flue gas temperature, oxygen (O<sub>2</sub>), carbon monoxide (CO) and soot. Additional options are now available. You can choose 2 of the following options: NO, NO<sub>2</sub> or SO<sub>2</sub>.

Simultaneous display of the measured variables on the illuminated LCD. Integrated thermal printer and RS232 interface. Measurements printout or service printout, both include date, time and fuel type. Recalibration after use (E.G. 1 year) is possible. Ppm, mg, mg/kWh, mg (ref.O<sub>2</sub>) units are selectable. Automatic and manual CO-bypass. Memory for 220 measurements. Case and additional space for spare parts.

Standard instruments: gas sampling probe S, length 270mm, flexible hose 3.5m, soot filter paper, soot comparison table, user manual,... Alternative models are available. With standard O<sub>2</sub>, CO, NO, NO<sub>2</sub>, SO<sub>2</sub> measurements. On these models an additional option is available: HC or H<sub>2</sub>S.

**REF 111TA2809**

## PIPE CUTTER



**REF 111TA1914**  
diameter: 19-76 mm

EXHAUST ACCESSORIES

## PIPE EXPANDER



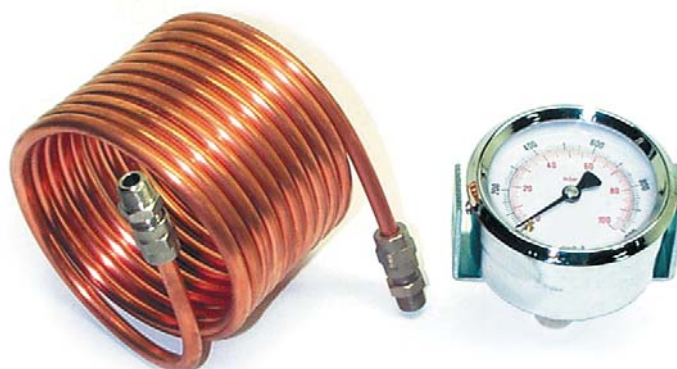
**REF 111TA1915**  
28 - 43 mm

## PIPE EXPANDER



**REF 111TA1916**  
43 - 64 mm

## PRESSURE GAUGE



**REF 107TA1980**  
To check the back pressure between  
the engine and the catalyst.



## PIPE EXHAUST SLEEVE

|      | REF       |
|------|-----------|
| Ø 40 | 107TA1981 |
| Ø 45 | 107TA1982 |
| Ø 50 | 107TA1983 |
| Ø 57 | 107TA1984 |
| Ø 76 | 107TA1985 |



SOLD  
PER METRE

## HEAT RESISTANT EXHAUST WRAPPING



### REF 111TA4010

- Heat resistant
- Length: 50 metre roll
- Width: 30 mm

## DIESEL COMBUSTION



### REF 107TA1989

Improved diesel combustion  
400 ml

## EXHAUST REPAIR PASTE



### REF 107TA1992

The quick repair for sound  
absorbers and outlet systems.

## EXHAUST MOUNTING PASTE



### REF 107TA7713

High temperature paste / 200 gr

## HEAT RESISTANT PAINT



### REF 107TA1990

Black / 400 ml

### REF 107TA1991

Silver / 400 ml

## HEAT RESISTANT GLOVES



### REF 107TA1988

heat resistant glove  
resists against heat up to 600°C (32sec.)

## HEAT RESISTANT GLOVES



### REF 107TA1987

heat resistant glove  
resists against heat up to 350°C (15sec.)

## COPPER SPRAY



### REF 107TA1986

Copper spray (400 ml)