



Stack Impactors

Multistage Impactor for PM10 and PM2.5 mod. MSSI

Main characteristics:

- Emission multistage cascade impactor
- According to VDI 2066 Part. 10 and EN 13284-1
- 3 particulate cut size on the same sample:
 - PM 10 > 10 micron
 - PM 2,5 from 2,5 to 10 micron
 - Total below 2,5 micron
- Material in contact with the sample in Titanium (stainless steel version AISI 316 not available at the moment)



fig.1 Assembled Impactor with nozzle and cone for sampling in vertical position

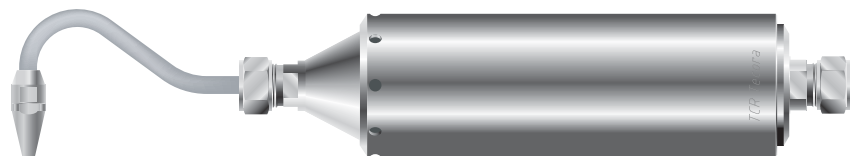
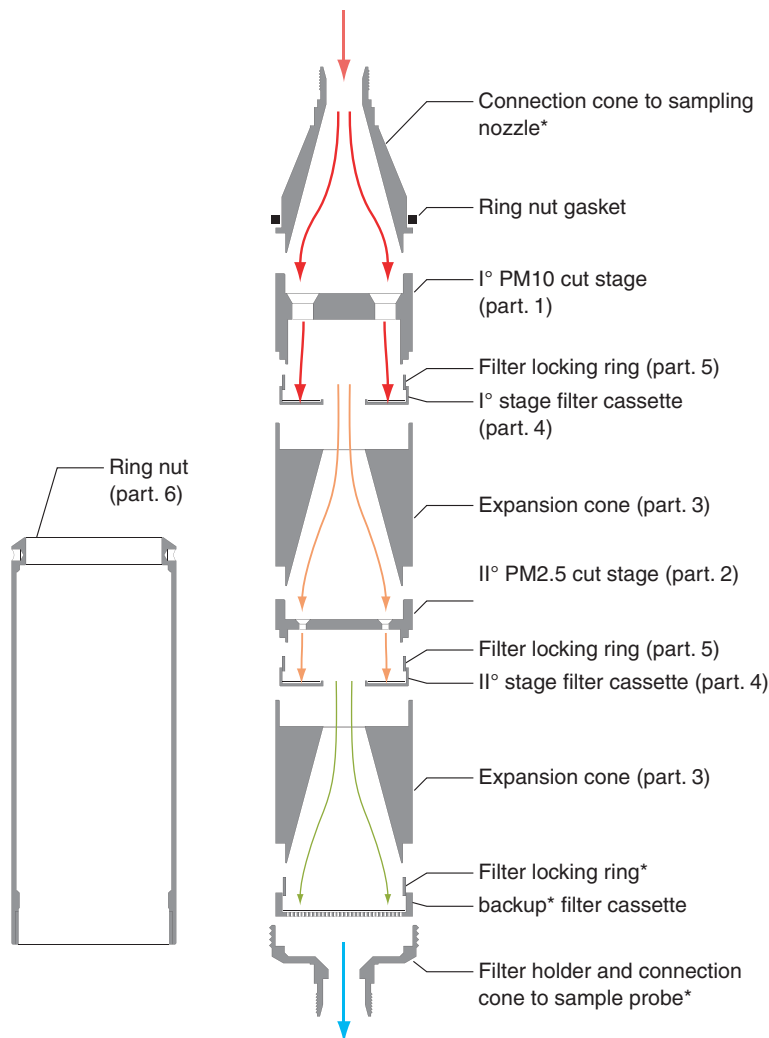


fig.2 Assembled Impactor with nozzle for sampling in horizontal position



* Parts not included in MSSI impactor

To meet the increasing requirements toward the fine particulate determination and progressive reduction of emission dust concentration, TCR Tecora added, to the already stated cyclone series realised according to USEPA design, the new multistage cascade impactor mod. MSSI.

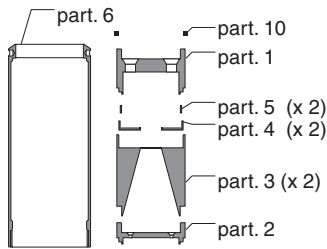
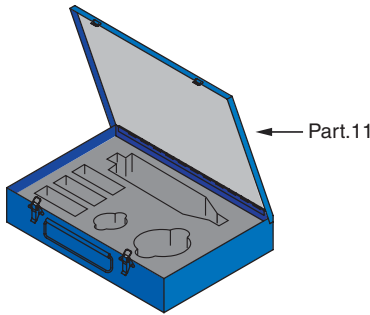
The MSSI impactor is realised according to the drawing indicated in the VDI 2066 Part. 10 method and in the norm EN 13284-1 to reduce the dust deposit on walls.

Using filter cassette avoids the on field filter manipulation.

The impactor can be supplied with two different inlet cones to allow the vertical and horizontal positioning in respect the stream direction in the duct (fig. 1 and 2).

The impactor is designed for a high sampling flowrate, about 3m³/h, depending on emission characteristics to reduce sampling time.

It comes complete with the software to calculate the sampling flowrate, nozzle and others factors to optimise the quality measure.



MSSI PM10-2.5 equipment case

The MSSI PM10-2.5 impactor is provided with a metal carrying case with compartment.

In the case the following items are placed:

Part. num	Description	P/N number
1	1 I° PM10 cut stage	999TI175
2	1 II° PM 2.5 cut stage	999TI174
3	2 Expansion cone	999TI173
4	2 I° and II° stage filter cassette	999TI170
5	2 I° and II° stage filter locking ring	999TI171
6	1 Ring nut	999TI172
7	1 Cutter device for filter diam. 47mm	999BB365
8	1 Assembling base impactor	-
9	6 Petri dish for filter diam. 47mm	BA99-001-0047CR
10	1 Spare gaskets set	AC99-107-9911KP
11	1 Carrying case	-

Case with titanium impactor P/N. AC99-107-0000KP

Sampling kit

In order to allow the widest interchangeability with other TCR Tecora accessories, avoiding expensive duplicate, the MSSI impactor can be used with filter holder diam 47mm, curves and nozzles used for total particulate isokinetic sampling.

It is supplied with a filter cutter device to make a hole in the 1°

and 2° stage in order to use flat filter diam 47mm made of quartz fiber or other support usually on the market.

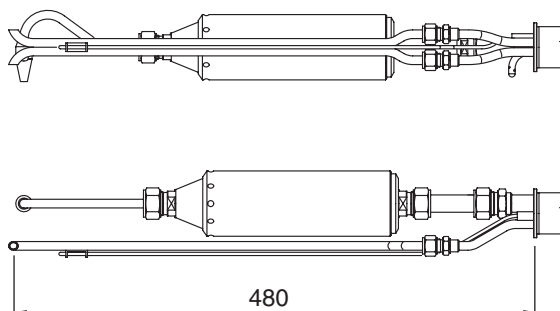
It is also supplied with a base to support the impactor during its assembling.

The unified connections allow the use of the MSSI impactor with the one block probes and heated

probes manufactured by TCR Tecora.

For further information regarding compatible kit please see Product Data Emission Line 1.104.01

PM10-2.5 MSSI impactor assembling size on isokinetic probe with XL Pitot terminal



Impactor and gooseneck curve size for horizontal positioning allow the use of the Pitot tube XL used with cyclones PM 10-PM 2,5.

Pitot XL terminal:
P/N. AC99-099-0064SP