



Stack Impactors

Multistage Impactor for PM10 and PM2.5 mod. MSSI

MAIN CHARACTERISTICS

- ⊙ Multistage cascade impactor, realized according to ISO23210-2009 norm for the nozzle dimensioning.
- ⊙ 3 particulate cut size during the same sampling:
 - Standard version**
 - > Fraction > 10 micron.
 - > Fraction from 2,5 to 10 micron.
 - > Fraction below 2,5 micron PM4 impactor version.
 - > Fraction > 10 micron.
 - > Fraction from 4 to 10 micron.
 - > Fraction below 4 micron.
- ⊙ Available in Titanium or in stainless steel AISI 316.



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



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

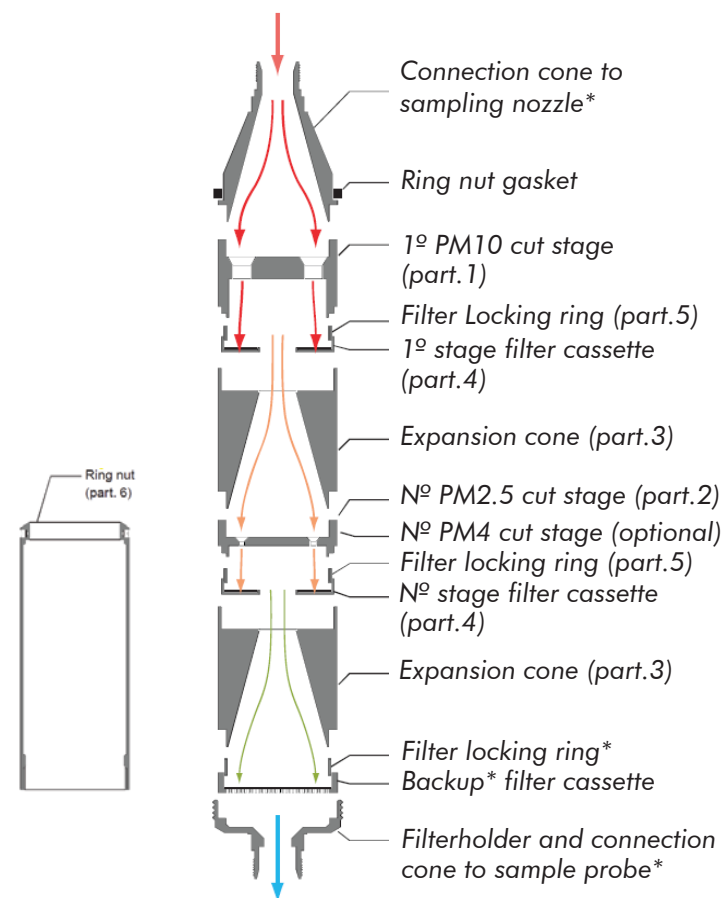
MSSI impactor is realized according to ISO23210 norm for the nozzle dimensioning. The impactor allows the simultaneous determination of total dust, PM10 and PM2.5 fractions (PM4 stage also available).

The impactor can be supplied with two different inlet cones to allow the vertical and horizontal sampling, depending on the stream direction into duct (fig. 1 and 2).

The impactor is designed for a high sampling flowrate, about 2 m³/h, depending on emission characteristics, to reduce sampling time.

The device is supplied with a dedicated software, which allows to calculate sampling flowrate, nozzle and others factors to optimize the quality of the measurement.

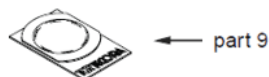
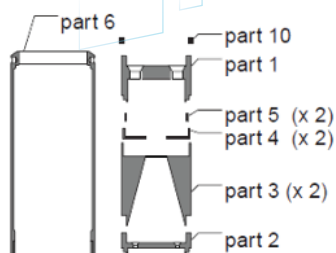
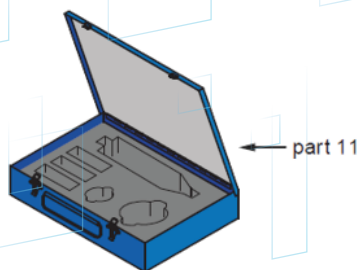
The Titanium impactor allows to determine the gravimetric fraction and to perform the chemical analysis (i. e. heavy metals determination) on the filters as well.





KIT MSSI PM10/2.5/4 MULTISTAGE STACK IMPACTOR

The MSSI PM10-2.5 impactor is provided with a metal carrying case with compartment, containing the following items:



Part	Num	Description
1	1	I° PM10 cut stage
2	1	II° PM2.5 cut stage
3	2	Expansion cone
4	2	I° and II° stage filter cassette
5	2	I° and II° stage filter locking ring
6	1	Ring nut
7	1	Cutter device for filter diam. 47mm
8	1	Assembling base impactor
9	6	Petri dish for filter diam. 47mm
10	1	Spare gaskets set
11	1	Carrying case

MSSI Titanium Kit : P/N AC99-107-0000KP
 MSSI AISI 316 steel Kit : P/N AC99-107-0010KP
 MSSI PM4 impactor : P/N AC99-107-9902SP

SPARE PARTS

Part	Description	Cod. Titanium	Cod. Inox
4/5	I°-II° stage filterholder case	AC99-107-9900SP	AC99-107-9901SP
-	Back-up filterholder case	AC99-105-0002SP	AC99-106-0002SP
9	100 Petri dish for filter		BA99-001-0047CR
10	Spare Gasket set		AC99-107-9911KP

SAMPLING KIT

In order to allow the widest interchangeability with other 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. MSSI is supplied with a filter cutter device to make a hole in the 1st and 2nd stage in order to use flat filter diam 47mm made of quartz fiber or other support available 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 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 PM10-PM2,5.

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

