

Camfil Authorized Distributor

Rep/Dist/RSM :	Camfil Ltd
Street address :	Knowsley Road
City :	Haslingden
State :	Lancashire
Zip Code :	BB4 4EG
Phone :	+44 1706 238000
Mobile :	
Fax :	+44 1706 226736
Email :	Anna.Bartnik@camfil.com

Customer site information


Report date :	2015-Feb-26
Company :	
Contact :	
Contact email :	
Building :	

Air

Air Flow,[m ³ /h] :	180.0
Temperature,[°C] :	23.0
Atm.Pressure,[hPa] :	1,013
Relative humidity,[%] :	50
Contamination :	Nitrogen Dioxide [NO ₂]
Concentration,[ppb] :	33.2 [0.063 mg/m ³]

Nitrogen Dioxide

Chemical formula :	NO ₂
Molecular weight, [g/mol] :	46
Boiling point,[°C] :	21.2
Vapour pressure,[kPa] :	96 [720 mm hg]
CAS No :	10102-44-2

Solution				
Filter Group :	Panel		Efficiency,[%]	Lifetime,[Hours]
Filter Type :	Camsure Panel		94.36	73.94
Media :	CEX003A6		89.13	14,788.36
Filter size :			81.81	41,078.79
(Height x Length x Depth), [mm]	305 x 305 x 48		76.1	65,726.06
No of filters per stage :	1 (Total Filters : 1)		69.86	96,945.94
Total Filter Stage :	1		58.84	164,315.15
Eff. media weight,[kg] :	2.5 [±10%]		49.08	239,900.11
Front Velocity,[m/s] :	0.54		40.03	328,630.29
Pressure Drop,[Pa] :	127 [±15%]		31.44	437,078.29
Contact time,[sec] :	0.09	23.13	578,389.31	

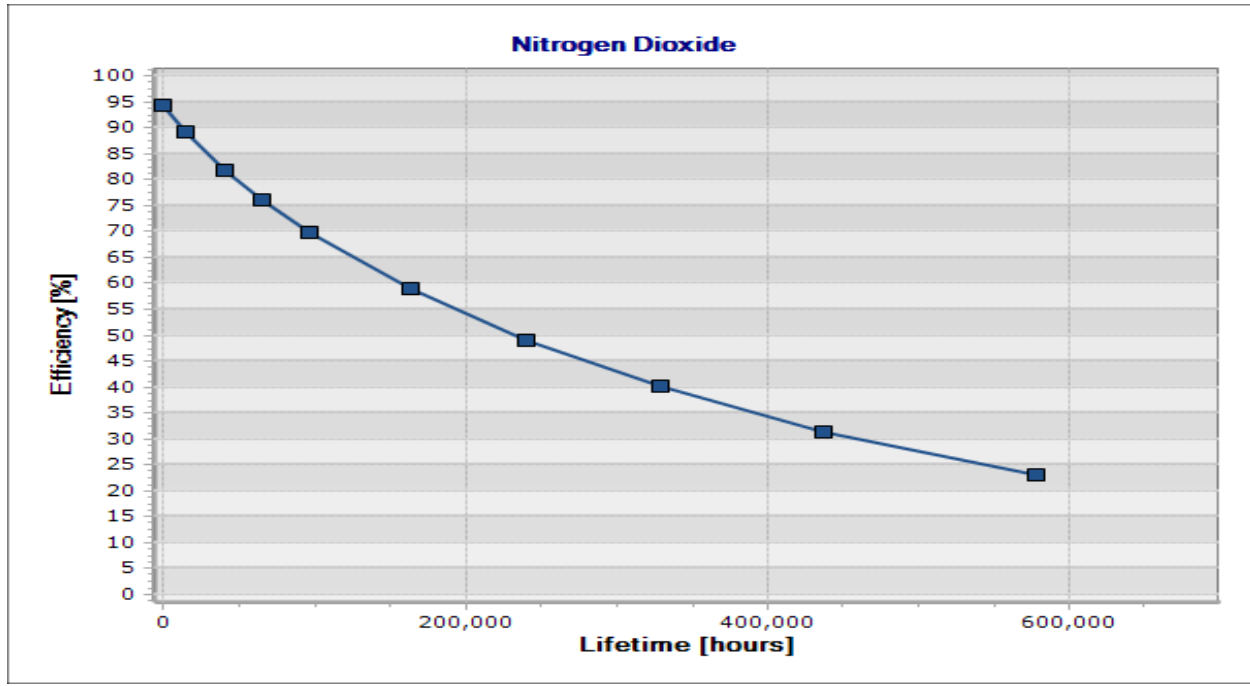
Lifetime Estimation - Graph

Solution 1: Panel

Camsure Panel : CEX003A6

Total Stage:1

No of filters per stage:1 (Total Filters:1)



Molecular Filtration Life Time Software:

The purpose of this software is to provide "best estimates" of the performance of Camfil molecular filtration products under selectable conditions that approximate real applications. Predicting the performance of molecular filters in the real world is a complex issue. This software takes account of the key factors that affect the performance of molecular filters; the gas/vapour to be controlled, concentration, type of adsorbent, amount of adsorbent (contact time), and temperature. For simplicity, an assumption is made regarding relative humidity which is pre-set at 50%. The software takes no account of the presence of any other contaminants considered to be non-problematic. The software takes no account of changes in the selected conditions during filter use.

The software is based upon many years application knowledge and the results of extensive product testing in Camfil's unique molecular filtration test rig.

The information generated by the software is provided in good faith and no guarantee concerning product performance is implied or offered by the use of this software.

This software may be revised by Camfil at any time without notice. :