

On the occasion of the 1st Anniversary of our newsletter, 'in the air', Team Spectrum thanks all customers for their constant support. Your reviews & comments have helped us to publish subjects of relevance to you.

Visit of technical manager from Filtrair bv* Netherlands



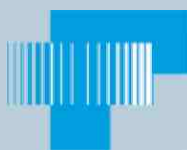
Mr. Gerrit Wijbenga

During his recent visit to India Mr. Gerrit Wijbenga "Technical Manager" & in charge of Filtrair Laboratory visited Spectrum's key TFM (Total Filter Management) customers. Mr. Wijbenga shared his invaluable experience in air quality management with Spectrum's technical and sales team. He also conducted detailed survey of a few Spectrum / Filtrair filter installations and put forward his observation / recommendations on them. Technical presentation on air quality management in paint shops were also made at several customer locations. Mr. Wijbenga spoke extensively on the latest developments in Air Filtration products, filter testing standards and on-site validation procedures and advantages of Synthetic Air Filter media.

An extensive training session was also conducted for Spectrum's TFM team. We wish to thank Mr. Wijbenga for his invaluable support.

* Filtrair bv is now part of "Filtration Group" USA

Spectrum displays Filtration Group products at Comfex-2005 Ahmedabad



Spectrum displayed products from Filtration Group's high purity products at COMFEX 2005- January 7-8-9

"High Flow" HEPA Filters, Ceiling modules for clean rooms, Mini pleat Filters, High Temperature HEPA filters and Activated Carbon Filters generated a lot of interest from visitors.

This exhibition was a launching pad for our recently opened Ahmedabad sales office and provided an ideal meeting place for our existing and prospective customers.



Are you really looking for cost-effective + Leak free Installation of your System ?

Then upgrade your existing filter holding frame to Spectrum's "Universal Holding Frame"



'Spectra Universal' Holding Frame

- Spectrum Universal Filter Holding Frames are designed for simple and cost-effective construction of filter banks. Its unique modular design is ideal for quick and hassle free installation at site.
- Each frame is provided with self adhesive polyurethane gaskets. This provides a positive seal between the filter and holding frame and ensures zero air-bypass. Pre-punched holes / slots on the sides of the frame make filter bank construction easy and trouble-free.
- A choice of holding clips is available to accommodate different types of filters. These clips are designed to hold almost all types of Pre / Fine filters within the Universal holding frames. Filter installation with these clips is easy and eliminates the use of time consuming nuts & bolts. Filter change time is reduced by more than 75% in most cases.

The Spectrum Universal Filter Holding Frame is the ultimate design for a modern and leak proof filter-bank.

Call our engineers for a quote today

Pad Holding Frames

- Rugged galvanized construction
- Hinged gate makes filter change-out quick and easy
- Wire backing is spot welded to frame for added support
- Cost effective system
- Filter media can be tailored to specific needs
- Buy permanent frame only once



Pad Holding Frames from Filtration Group USA

APPLICATIONS

Pad and frame systems will fit into your present filtration system without modification of existing hardware. They are widely used to replace most conventional permanent or disposable type air filters. In most applications, there is no need to remove the holding frame from the channel or grid system to change the filter pad. We offer a wide range and variety of filter medias to meet your application needs.

ADVANTAGE OF THE PAD HOLDING FRAME

Design ensures safe installation and handling of filter frame. Once the low initial cost of the permanent frame is absorbed, the buyer purchases only the filter pads the heart of any filter system making the system extremely economical and cost effective.

Frame design will accommodate all grades and types of fiberglass and synthetic medias.

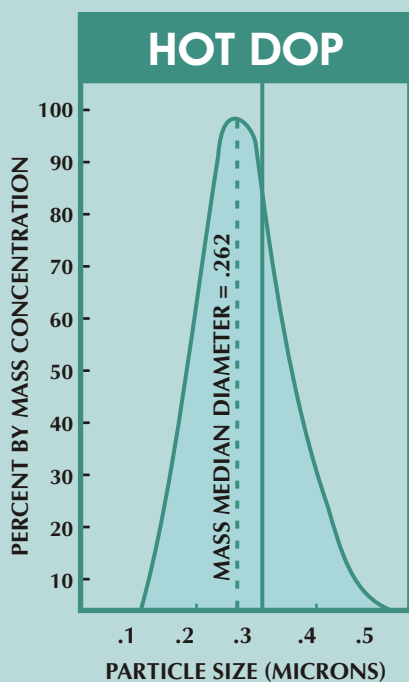


How to choose between **HOT DOP / COLD DOP** for Factory Leak Test of HEPA Filters



DOP Testing:

Mil-Std-282 is recognized as the standard for DOP efficiency testing and is required for compliance with most HEPA filter specifications. It is also the only recognized standard for testing with "monodisperse 0.3 micron particles" as referenced in EPA and OSHA definitions for HEPA filters.



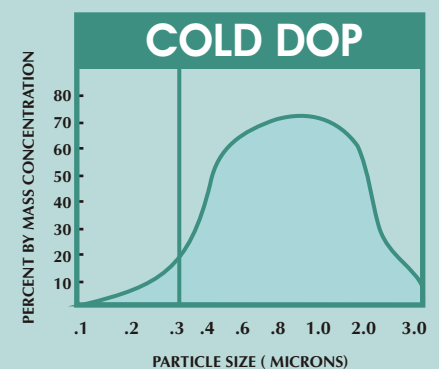
The DOP aerosol used to challenge HEPA filters to test for efficiency is known as "hot" or "thermally generated" DOP because it is derived from heated dioctylphthalate oil. Sophisticated equipment is used for carefully controlling oil and air temperatures, air flow rates and mixing conditions. This "hot" DOP aerosol has a very narrow particle size distribution (monodisperse). Because the only way to determine the efficiency of a filter on a specific particle size (fractional efficiency) is to test with particles of that size, DOP is used to produce a high concentration of 0.3 micron particles - that which theory indicates and has historically been considered to be the most penetrating of filter media.

For each test, the average aerosol concentration is measured both upstream and downstream of the filter with a photometer. The inefficiency or penetration in percent can therefore be determined and recorded on the filter label. For example, a filter with a penetration of .008% would mean it was 99.992% efficient, well above the minimum of 99.97% for HEPA efficiency.

DOP aerosol can be generated in the field but the equipment used, while relatively simple and portable, cannot produce truly "hot" DOP that is monodisperse. The DOP generated by such equipment is "cold" DOP which having a broad particle size distribution is polydisperse. Such an aerosol is useful for field testing for leaks and ensuring the integrity of an installation, however, "cold" DOP does not provide the ultimate test of filter efficiency.

The penetration or efficiency of a filter is strongly affected by the particle size of the challenge aerosol. A small change in particle size can have a significant effect on penetration. The smaller the particle, the lower the efficiency until the maximum penetrating particle size is reached.

As indicated earlier, "cold" DOP has a broad particle size with larger average size than "hot" DOP. Efficiencies are, therefore, higher with "cold" DOP than with "hot" DOP. The control of temperatures and flow rates with the equipment is critical to maintaining a consistently tight particle distribution which allows for consistent and reproducible efficiency measurements.



Congratulations...

Winner of the last IAQ quiz is

Mr. Sukumar Choudhury.

Ahmedabad India



Across : 1. Summer allergies are often caused by this pollen

Down : 2. A disease that affects the lungs and is often associated with allergies.

Across : 3. This medication can make it harder to reverse a systemic reaction to allergy shots or testing, and for this reason shots are usually not given to those taking it.

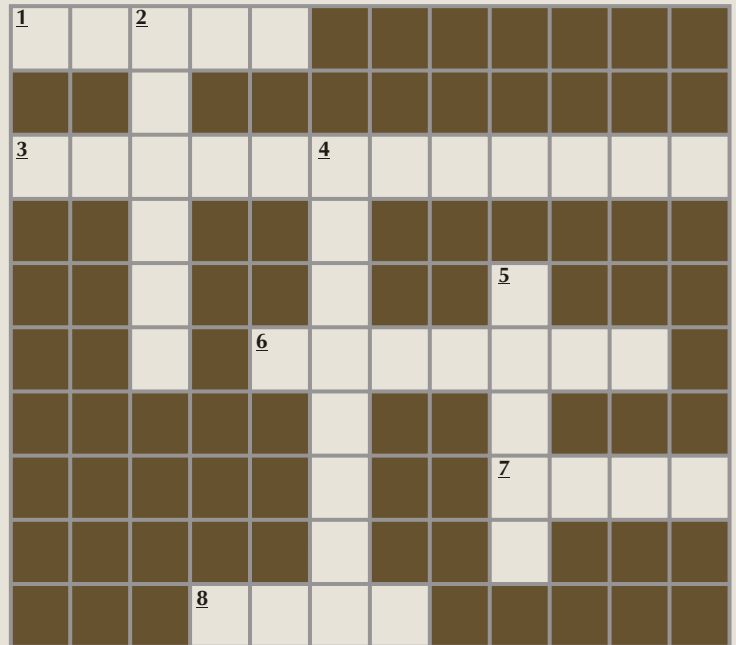
Down : 4. Some people move to a different _____ to try to avoid allergies.

Across : 6. Using this sort of vacuum cleaner is not usually recommended for allergy sufferers.

Down : 5. Sometimes meds given for allergies or asthma can cause rapid _____ beat.

Across : 7. Some people are allergic to this food that is often considered an allergy-free food.

Across : 8. This common Christmas tree is not usually associated with allergies since it's pollen is too heavy to be carried very far by the wind.



Sources: <http://www.allergynursing.com>



- 1) True
- 2) Reduce moisture in your home
- 3) All of the above
- 4) All of the above
- 5) False



Quiz Answer: We are waiting for your answers at quiz@spectrumfiltration.com. In case of more than one correct entry, a lucky draw will be made and the winner will be given a reward. The name of the winner will appear in our next issue. So, just pen down a few lines along with your complete contact details and wait for a surprise!!!!

Health Tips.

Sources: http://www.4woman.gov/faq/lung_disease.htm

What can I do to lower my risk of lung disease?

You can reduce your risk for getting lung disease. Things you can do include:

- Do not smoke cigarettes or other tobacco products and quit if you do smoke. Ask your health care provider for help with quitting smoking.
- Try to stay away from dust and irritants that can harm your lungs. If you must work near them, wear devices like masks to protect yourself.
- Have a spirometry test done as often as your health care provider suggests. This test looks at how much and how quickly you let out air after a deep breath.

MOST IMPORTANT, believe and know this:

YOU CAN DO IT

Good Reasons for Quitting

Quitting smoking is one of the most important things you will ever do.

- You will live longer and live better.
- Quitting will lower your chance of having a heart attack, stroke, or cancer.
- If you are pregnant, quitting smoking will improve your chances of having a healthy baby.
- The people you live with, especially your children, will be healthier.
- You will have extra money to spend on things other than cigarettes.



Spectrum High End Filtration Products



Spectrum Product Range Catalogue

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available on request
Call 91-33-2210 4667 or mail helpdesk@spectrumfiltration.com

Spectrum invites you to put your valued suggestions & articles you would like to cover in our next issue at info@spectrumfiltration.com.



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