



## Filtration in the refrigeration technique Which filter element is suitable for which filter house

This overview shows which filter elements are suitable for which Filter house. Important is the your use Filter elements , which are not only suitable for the lubrication oil but also for the refrigerant. Not every supplier is aware of the impact on refrigerant on your filtration towards your compressor.

Basic there are 3 types to be used, which have specific benefits of downsides.

Type filter	Effect
Paper based type	Will block by high water contact – the result is easy to see the filter shape will be deformed- pre-warning for damage to bearings and shaft seals on the compressor.
Glass fiber based type	No warning – we recommend to take regular basis oil analyses – by high water content on regular basis – install/check your air purger – my personal favorite is to use a system cleaner for NH3 application ( basic you cook the NH3 out of the water and the water you drain automatically. In case of more information contact us .
Wire mesh based type	Are cleanable – do not install a wire mesh filter with a too small mesh – there is a big change you capture the needed additives in the lubrication oil

Below you find the most common filter housings used by the manufactures.  
Please indicate your filter house and type of filtration based on paper , Glass fiber of wire mesh.

On each filter housing is information , which helps to in the maintenance.  
By question contact us.



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The filter house GA120 of Parker Arlon :

This filter house you find on many compressor units with Howden XRV compressors.  
The paper filtration elements were standard installed - the T3D is our filter range followed by the indication paper- glass fiber or wire mesh



**GA230 filter house :**



This filter house you find on many compressor units with Howden XRV compressors and low stage WRV units.

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The paper filtration elements were standard installed - the T5 is our filter range followed by the indication paper- glass fiber or wire mesh .

### The Filter house MMF20 :

On the large Howden compressor units you find often the MFF-20 filter house in single or double version . Be aware on the filter direction by ordering filter elements- especially by unit before 1985. By installing a filter with an incorrect flow design , the filter can be blown –up



The filter elements are available in Paper, glass fiber and wire mesh

The filter housing MMF 20 were manufactured in two different versions :

- The early units were filtering **from the outside towards the inside** and require the filter element **T8A-F**
- The later models are filtering **from inside towards the outside and require the filter element T8A.**
- **Important: In the case you have on your compressor unit a filter house , which filters from the outside in –check if your insert filter assembly is suited flow direction returner right picture above. If that is the case you can use the filter element T8A ( which filters inside –out)**

One of the main reason for changing the filtering direction was the start-up with cold oil, this could damage the filter element by filtering form outside to the inside . especially by a damages heater. By older filter housing control if the flow direction returner is present by the use of T8A elements or use the reinforced T8F elements.



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The filter Housing BGAH-400 & BGAH- 500:



On Sabroe VMY compressors units, we find 2 types of Filter houses .

The BGAH-400 which is suited with the element T8A and The BGAH -500 which is suited with the element T8C.

All in versions paper , glass fiber and wire mesh .

All filter elements are available on order - questions contact us.



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