

## Desiccant Fine Removal

Air Filtration Systems, Bulk supply of Industrial Gases, China

<b>Customer/Project:</b>	A world leader in the supply of industrial gases
<b>Industry Sector:</b>	Chemical Process
<b>Application:</b>	Desiccant fine removal
<b>Products:</b>	Giant 3 metre filter elements
<b>Primary Motive:</b>	System improvement
<b>Location:</b>	China
<b>Project Date:</b>	April 2020
<b>Division:</b>	New Milton



### Customer Overview:

A world-leading supplier of industrial gases who provide various gases and related equipment into many industries, including Healthcare, refining, chemical, metals, electronics, manufacturing, and food and beverage.

### Customer's Problem:

The customer required a bespoke design of filter element for installation in their new radial flow air separator units being constructed at a brand new MEG (Mono-Ethylene Glycol) facility located in Inner Mongolia, China.

### Porvair Solution:

Porvair has a long history of supplying specially designed filtration equipment, for the removal of desiccant fines from molecular sieves and the subsequent protection of key downstream equipment, as used the production and processing of industrial gases.

### Project Overview:

Based on our considerable experience of supplying of around 300 similar installations worldwide, we were able to put together a new proposal incorporating the key parts of previous designs, but on a much larger scale for this project.

Our engineering team produced a bespoke design, for the manufacture of giant 3 metre long filters. These are stainless steel throughout, and incorporate a pleated sintered metal fibre filtration media; combining the properties of excellent dirt holding capacity and a low pressure drop, with a filtration rating optimised for this particular application. The robust, fully-welded construction will also guarantee a long in-service life.

### Product and System Information:

Each of these tailor made filters has an effective filtration area of over 47m<sup>2</sup>, and measures well over 3m in length, making them the largest individual metallic filter elements ever fabricated by the company, at its New Milton Division in Hampshire.

### Other Opportunities:

- Chemical processing
- General industrial
- Air filtration

