

## QDT

### ATLAS COPCO QUALITY AIR SOLUTIONS

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#### General Description

In applications such as pharmaceutical, food and beverage and electronics, where air purity is critical, there is often a requirement to remove residual oil vapors and odors from the compressed air supply. Atlas Copco has developed a filter which can provide this level of clean air, known as the QDT. This activated carbon filter is able to remove both vapors and odors down to 0.003 ppm, which is class 1 clean air according to ISO 8573-1.

Unlike other carbon based filters, the QDT is sized for real life. There are many look alike products which have a similar performance rating but for inlet temperatures of just 68°F. The QDT is designed and sized for an inlet temperatures of 95°F, meaning it will actually deliver the performance expected continuously all year round.



#### Working Principle

Using two kinds of activated carbon the QDT removes oil vapor and odors through a process of adsorption. Unlike coalescing filters, which do not collect vapors, the QDT maintains a steady pressure drop of 5psi or less throughout its lifetime.

#### Scope of Supply

- Filter Cartridge
- Frame

## **Features & Benefits**

### **Energy Savings**

- Low pressure drop
  - Stable pressure drop of only 0.35bar/ 5psi through its lifetime

### **Reliable operation**

- Proven durable design
  - Ensures oil carry over down to 0.003 ppm
  - Long service life of elements, from 4000-6000 hours

### **Easy set-up and use**

- Operational ease
  - Can be fitted with maintenance indicator that ensures the consumables are changed before they become saturated and the downstream process contaminated.