

## Product Data Sheet Metco 4AC Air Cleaner

**A reliable and efficient air cleaner unit that can be used for all atmospheric thermal spray processes, the Metco™ 4AC Air Cleaner can be used with up to six thermal spray systems simultaneously.**

The Metco 4AC Air Cleaner removes solid particles, oil, oil vapor and water from compressed air to provide the cleanest, driest compressed air commercially practical. Removal of these foreign materials improves thermal spray coating quality and bond strength.

The Metco 4AC is a heavy-duty and reliable unit. Its adsorption element cleans 85,000 m<sup>3</sup> (3,000,000 ft<sup>3</sup>) of air generated by an air compressor in good operating condition. When replacement is required, the element can be changed in a few minutes. Flow capacity is adequate for up to 6 thermal spray guns or one blast unit using a 12.5 mm (0.5 in) nozzle.

### 1 General Description

The air from shop air compressors contains lubrication oil as oil vapor and moisture. Even with after-cooler and separator equipment, the air will still retain enough oil and moisture to degrade the quality and bond strength of thermal sprayed coatings. The Metco 4AC is a proven solution that effectively and reliably removes oil and moisture.

This superior cleaning is achieved by the four-stage design of the Metco 4AC Air Cleaner:

**Stage 1:** Air cools as it travels through the pipes downstream of the compressor; moisture and oil is condensed out. A sump separates and retains this liquid along with any solid particulates.

**Stage 2:** A tubular filter inside the filter cartridge separates any water and oil vapor remaining in the air. This tube is specially treated to allow air to pass through, but not water or emulsions of water and oil.

**Stage 3:** A deep bed of activated carbon eliminates any oil vapor that has remained in the compressed air.

**Stage 4:** The outer, tubular part of the filter cartridge removes dust and solid particles which are normally present and which may have passed through the third stage carbon bed.

The simplicity of the Metco 4AC Air Cleaner keeps maintenance to a minimum. The sump is quickly drained by a conveniently located drain valve. The activated charcoal is self-contained in the single, disposal filter cartridge, which is simply and easily replaced, eliminating the need to hand-scoop carbon. Replacement cartridges are available from Oerlikon Metco.

The Metco 4AC Air Cleaner is designed to be used upstream of the Metco 6A Air Control Unit.



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## 2 Features and Benefits

### Effective:

- Removes moisture, oil, oil vapor and particulate from compressed air using a four-stage process.
- Improves quality and bond strength of thermal sprayed coatings.

### Economical:

- One easily replaced filter cartridge is change quickly and easily, when required.
- Improves quality and reliability of thermal sprayed coatings, helping to prevent rework.

### Efficient:

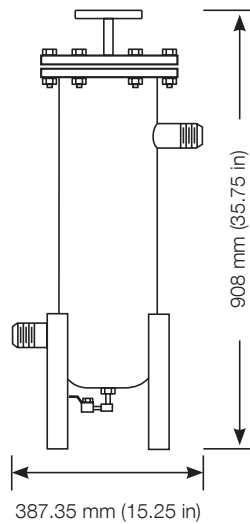
- Cleans approximately 85,000 m<sup>3</sup> (3,000,000 ft<sup>3</sup>) of air.
- Sufficient flow capacity for up to six thermal spray guns.
- Supplies air for one thermal spray gun for approximately 1500 hours.

### Environmental:

- Cleans compressed shop air and traps foreign materials for easy disposal.

## 3 Technical Data

### 3.1 Dimensions



### 3.2 Specifications

<b>Rating</b>			
Operating pressure	max.	11.55 bar	165 psig
Input air temperature	max.	66 °C	150 °F
Capacity		0.14 m <sup>3</sup> /s @ 6.9 bar & 32 °C	300 SCFM 100 psig & 90 °F
Nominal pressure drop	at max. flow	0.28 bar	4 psig
Oil capacity of carbon cartridge		1.36 kg	3 lb
<b>Weight</b>			
Approximate		79.2 kg	175 lb

Information is subject to change without prior notice.