Meteorological screens

The MET Series Instrument shelters are an established industry standard and are used by many national meteorological services and industrial customers worldwide.

They have proven to be exceptionally durable over many years and are in daily use in many countries with extreme and varied climates. Their innovative design features a durable white powder-coated frame and robust outer louvers, which are resistant to UV radiation and chemical attack.

The design of the shelters feature a white outer reflective surface, combined with an inner barrier of non-reflective, black louvers. This prevents sunlight and reflected radiation reaching the sensors or thermometers, whilst still allowing air to flow across them.

Inter-comparison trials have confirmed that errors under adverse conditions are significantly less than inside the old wooden Stevenson screens.

Key Features

- Extremely durable design
- Accuracy in trials
- Improved protection against wind-blown precipitation
- Secure installation of thermometers, with stable mounting
- Durable white reflective UV stable plastic and aluminum frame

This range of meteorological screens is designed for use at inland and coastal Met Stations, as in all climates. They can be used to house a complete range of instrumentation, whilst ensuring outstanding protection from the heating effects of solar radiation and direct exposure to rain and snow.

Benefits over traditional simple wooden screens include :

- Weatherproof construction
- Extremely durable
- Improved accuracy
- Unique double-louvered construction
- Highly durable, non-yellowing, UV stable plastic
- Secure accommodation for a complete range of thermometers, sensors and other equipment

Testing of screens has been carried out by several national meteorological services. Test reports are available upon request.

The readings of the standard range of screens were compared in conditions of high solar radiation and wind speeds less than 1 m/s, with aspirated shields and traditional wooden Stevenson screens.
The errors were less than half those recorded in wooden Stevenson and close to those in aspirated shields.

Specifications

- Double louvered high impact thermoplastic louvres
- White external layer, with UV stabilizer for long-term weather resistance
- Extra black internal layer
- Aluminum frame with durable white powder coating
- A4 grade (316), stainless steel bolts used throughout
- High impact UV stable roofs and floors
- Easy mounting onto metal structures
- Downwards hinging doors, with the possibility to be equipped with padlocks at the front and at the rear (option)

Dimensions and weights

MET 01 (1 or 2 doors)	
Internal	Height : 40 cm Width : 49 cm Depth : 31 cm
External (*)	Height : 56 cm Width : 57 cm Depth : 39 cm
Weight : 25,5 kg	

MET 02 (1 or 2 doors)	
Internal	Height : 40 cm Width : 35 cm Depth : 23 cm
External (*)	Height : 56 cm Width : 43 cm Depth : 31 cm
Weight : 18 kg	

MET 03 (1 door)	
Internal	Height : 40 cm Width : 23 cm Depth : 23 cm
External (*)	Height : 56 cm Width : 31 cm Depth : 31 cm
Weight : 13 kg	

MET 04 (1 door)	
Internal	Height : 34 cm Width : 23 cm Depth : 23 cm
External (*)	Height : 49 cm Width : 31 cm Depth : 31 cm
Weight : 11,5 kg	

MET 05 (1 or 2 doors)	
Internal	Height : 40 cm Width : 49 cm Depth : 45 cm
External (*)	Height : 56 cm Width : 57 cm Depth : 53 cm
Weight : 29 kg	

MET 06 (1 or 2 doors)	
Internal	Height : 40 cm Width : 49 cm Depth : 23 cm
External (*)	Height : 56 cm Width : 57 cm Depth : 30 cm
Weight : 22 kg	

MET 07 (1 or 2 doors)	
Internal	Height : 40 cm Width : 35 cm Depth : 31 cm
External (*)	Height : 56 cm Width : 43 cm Depth : 39 cm
Weight : 19 kg	

MET 12 Excel (1 door)	
Internal	Height : 42 cm Width : 40 cm Depth : 22 cm
External (*)	Height : 61 cm Width : 47 cm Depth : 29 cm
Weight : 17 kg	

(*) : roof not included

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