Instrument Shelters

METSPEC
SPECIALIST METEOROLOGICAL EQUIPMENT

Introducing our range of meteorological Screens, designed for use at inland and coastal Met Stations, and 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 larger equipment

Instrument Screens/Shelters

MetSpec Instrument Shelters are an established industry standard and are sold to 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 aluminium frame

METSPEC

W21-W25 Nottingham Business Centre
Lenton Boulevard | Nottingham | NG7 2BY | UK
Phone: +44 (0)115 970 5308
E-mail: sales@metspec.net

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Accuracy

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

For our standard range of Screens, in conditions of high solar radiation and wind speeds less than 1 m/s the readings were compared 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 louvred high impact thermoplastic louvres
- White external layer, with UV stabiliser for long-term weather resistance
- Extra black internal layer
- Aluminium frame with durable white powder coating
- A4 grade (316), stainless steel bolts used throughout
- High impact UV stable rooves and floors
- Easy mounting onto metal structures
- Padlockable doors at the front and rear, which hinge downwards

Dimensions and weights

MET 01:
Internal: width 491mm
depth 314mm
height 421mm

External (roof not included):
width 568mm
depth 390mm
height 559mm

Weight: 25.5kg

MET 02:
Internal: width 354mm
depth 231mm
height 421mm

External (roof not included):
width 430mm
depth 307mm
height 559mm

Weight: 18kg

MET 03:
Internal: width 231mm
depth 231mm
height 421mm

External (roof not included):
width 307mm
depth 307mm
height 559mm

Weight: 13kg

MET 04:
Internal: width 231mm
depth 231mm
height 354mm

External (roof not included):
width 307mm
depth 307mm
height 492mm

Weight: 11.5kg

MET 05:
Internal: width 491mm
depth 451mm
height 421mm

External (roof not included):
width 568mm
depth 527mm
height 559mm

Weight: 29kg

MET 06:
Internal: width 491mm
depth 231mm
height 421mm

External (roof not included):
width 568mm
depth 303mm
height 559mm

Weight: 22kg

MET 07:
Internal: width 354mm
depth 314mm
height 421mm

External (roof not included):
width 430mm
depth 390mm
height 559mm

Weight: 19kg

MET 12 Excel:
Internal: width 396mm
depth 219mm
height 418mm

External (roof not included):
width 472mm
depth 295mm
height 612mm

Weight: 17kg