



# ES-ISC-WP

## Weather Enclosure For Ecosmart Speed Controls Installation Manual



### 1.0 SAFETY INFORMATION

- This appliance should not be used by children or persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instruction concerning the safe use of the appliance by a person responsible for their safety. Children shall not play with the appliance. Cleaning and user maintenance shall not be carried out by children.

#### 1.1 Symbols



##### GENERAL WARNING

Signifies a general warning regarding hazard specified by supplementary information.



##### REFER TO INSTRUCTION MANUAL

Read and understand the installation and maintenance manual before installing, operating or maintaining this product.

#### 1.2 Important Information

This manual contains important information on the safe and appropriate assembly, transport, commissioning, operation, maintenance, disassembly and simple troubleshooting of the product.

While the product has been manufactured according to the accepted rules of current technology, there is still a danger of personal injury or damage to equipment if the following general safety instructions and the warnings contained in these instructions are not complied with.

- **Read these instructions completely and thoroughly before working with the product.**
- **Keep these instructions in a location where they are accessible to all users at all times.**
- **Always include the operating instructions when you pass the product on to third parties.**

#### 1.3 Personal Protective Equipment

The following minimum Personal Protective Equipment (PPE) is recommended when interacting with Nuaire product:

- **Protective Steel Toed Shoes** - when handling heavy objects.
- **Full Finger Gloves (Marigold PU800 or equivalent)** - when handling sheet metal components.
- **Semi Fingerless Gloves (Marigold PU3000 3DO or equivalent)** - when conducting light work on the unit requiring tactile dexterity.
- **Safety Glasses** - when conducting any cleaning/cutting operation or exchanging filters.
- **Reusable Half Mask Respirators** - when replacing filters which have been in contact with normal room or environmental air.

Nuaire would always recommend a site specific risk assessment by a competent person to determine if any additional PPE is required.

## 2.0 INTRODUCTION

The ES-ISC-WP range is designed to protect the Ecosmart speed control unit from adverse weather conditions. The product is suitable for wall mounting, can be retrofit on site and is available in the sizes shown below.

### 2.1 Dimensions (mm) & Weights (kg)

Unit Code	Suitable for use with	Height (mm)	Width (mm)	Depth (mm)	Weight (Kg)
ES-ISC-WPA	ES-ISC1.2A - ES-ISC4.1A	626	477	285	10
ES-ISC-WPB	ES-ISC5.6A - ES-ISC23.1A	687	560	341	14
ES-ISC-WPC	ES-ISC26.0A - ES-ISC38.0A	1070	415	692	27
ES-ISCT-WP	ES-ISCT1.2A - ES-ISCT23.1A	758	560	344	14

## 3.0 DELIVERY & HANDLING

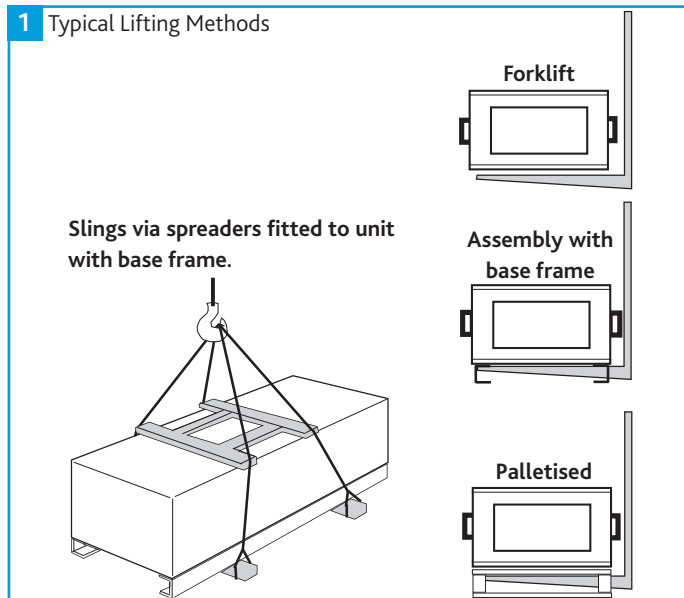
All equipment is inspected prior to despatch and leaves the factory in good condition. Upon receipt of the equipment an inspection should be made and any damage indicated on the delivery note.

Particulars of damage and/or incomplete delivery should be endorsed by the driver delivering the goods before offloading by the purchaser. No responsibility will be accepted for damage sustained during the offloading from the vehicle or on the site thereafter. All claims for damage and/or incomplete delivery must be reported to Nuair within two days of receipt of the equipment.

The weight of the unit modules and palletised items are displayed on the packaging. Some of the modules have an uneven weight distribution, and this will be indicated by labelling where appropriate.

**Offloading and positioning of the equipment is the responsibility of the purchaser. Items should only be lifted by competent personnel following appropriate risk assessment.**

Always handle with care to avoid damage and distortion, and where lifting slings are employed use spreaders to ensure slings do not come into contact with the unit case, or control pack.



## 4.0 MECHANICAL INSTALLATION

Installation must be completed by competent persons, in accordance with good industry practice and should conform to all governing and statutory bodies i.e. IEE, CIBSE, etc.

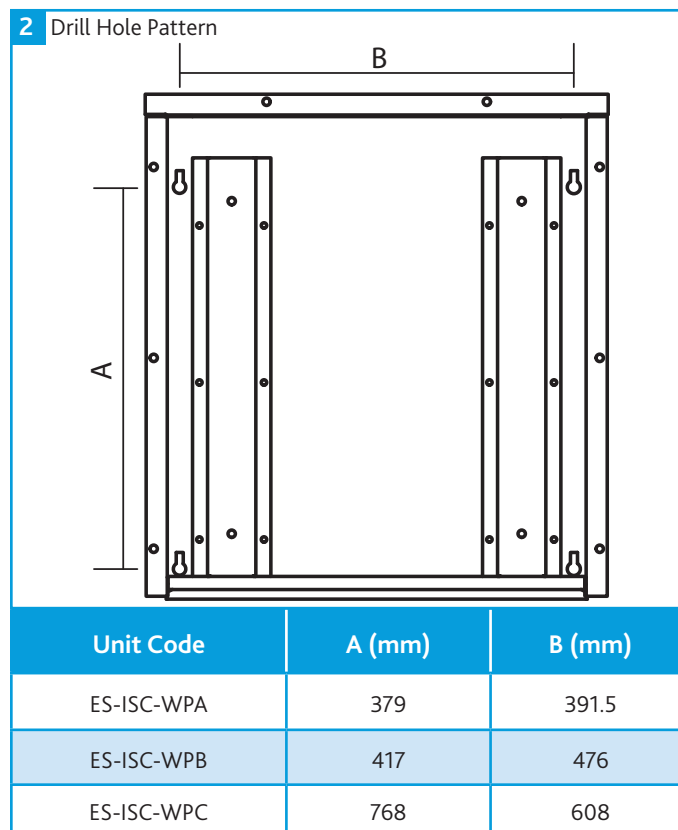
**The operating range is -10°C to 40°C, up to 85% relative humidity (non-condensing). Installation in unventilated loft is not recommended.**

Fix or mount in upright position to a secure vibration free vertical surface (Figures 1 & 2). Ensure the ventilation grilles are free of obstruction.

### 4.1 Fixings

The fixings to secure the weatherproof enclosure to the wall are not supplied and must be sourced by the customer to be specific for the individual installation.

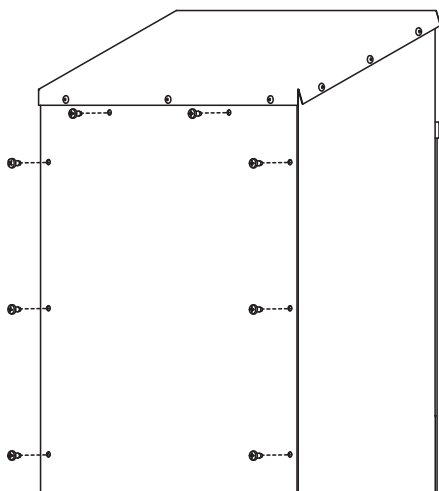
### 4.2 Drill Hole Pattern



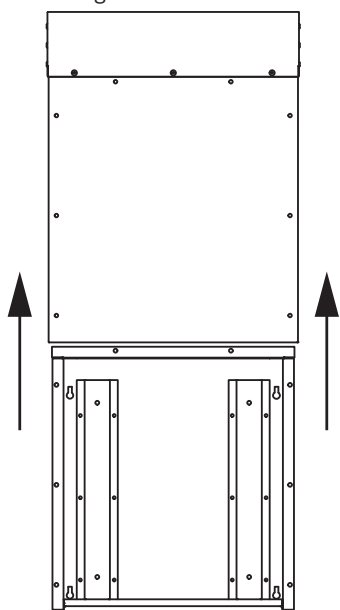
### 4.3 Installation Procedure

- Remove screws (8) from outer casing of the weatherproofing box (Figure 3). Outer casing releases from the inner housing and can now be lifted away (Figure 4).
- Offer the inner housing to the wall (or mark from the appropriate drill pattern) (Figure 2), drill and fix the inner housing to the wall using appropriate fasteners.
- Remove the front cover of the Ecosmart speed control and disconnect any cooling fans fitted.
- Making use of the brackets provided, sit the Ecosmart speed control box within the inner housing of the weatherproofing and affix to the weatherproofing inner housing using screws (4) (not provided, Nuair recommend M5 x 25 screws) (Figure 5). It may also be easier to connect the field wiring at this stage.
- Reattach speed control cover ensuring cooling fans are connected.
- Reassemble outer casing.

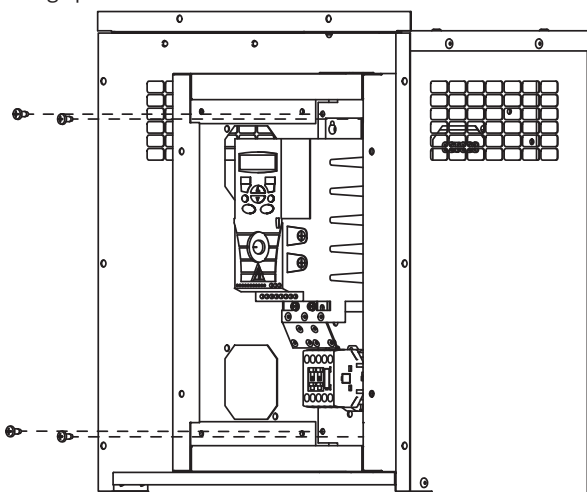
**3** Removing Outer Casing's Fixings



**4** Removing Outer Casing



**5** Fixing Speed Control To Weather Enclosure



**5.0 MAINTENANCE**

Ensure that the unit is electrically isolated from the mains supply before commencing work. When the fan is isolated, allow 5 minutes for the capacitors in the inverter to discharge before commencing any work on the unit.

It is important that maintenance checks are recorded and that the schedule is always adhered to, in all cases, the previous report should be referred to.

The first maintenance should be carried out three months after commissioning and thereafter at twelve monthly intervals. These intervals may need to be shortened if the unit is operating in adverse environmental conditions, or in heavily polluted air.

**5.1 Routine Maintenance**

- Clean and inspect the exterior of the unit.
- Remove covers and carefully clean out any dust deposits.
- Check security of all components and terminals.
- Remove fan filters and clean or replace as necessary.
- Refit covers.

**6.0 END-OF-LIFE AND RECYCLING**

Ensure that Nuairé product is made safe from any electrical / water / refrigerant supplies before dismantling commences. This work should only be undertaken by a qualified person in accordance with local authority regulations and guidelines, taking into account all site based risks.

Where possible Nuairé use components which can be largely recycled when the product reaches its end-of-life:

- Fans, motors, controls, actuators, cabling and other electrical components can be segregated into WEEE recycling streams.
- Sheet metal parts, aluminium extrusion, heating/cooling coils and other metallic items can be segregated and fully recycled.
- EPP, plastic ducting, nylon corner pieces, plastic heat exchangers, packaging material and other plastic components can be segregated into mixed plastic and widely recycled.
- Cardboard packaging, wood, used filters and other paper components can be largely recycled or fully processed in energy from waste centres.
- Remaining Items can be further segregated and processed in accordance with the zero waste hierarchy. Please call After Sales Support for further information on items not listed above.

## 7.0 AFTER SALES AND REPLACEMENT PARTS

For technical assistance or further product information, including spare parts and replacement components, please contact the After Sales Department.

If ordering spares please quote the serial number of the unit together with the part number, if the part number is not known please give a full description of the part required. The serial number will be found on the identification plate attached to the unit casing.

**Telephone 02920 858 400**  
**[aftersales@nuaire.co.uk](mailto:aftersales@nuaire.co.uk)**

Technical or commercial considerations may, from time to time, make it necessary to alter the design, performance and dimensions of equipment and the right is reserved to make such changes without prior notice.