Installation Guide

smart boxer

SBEX Extract Unit

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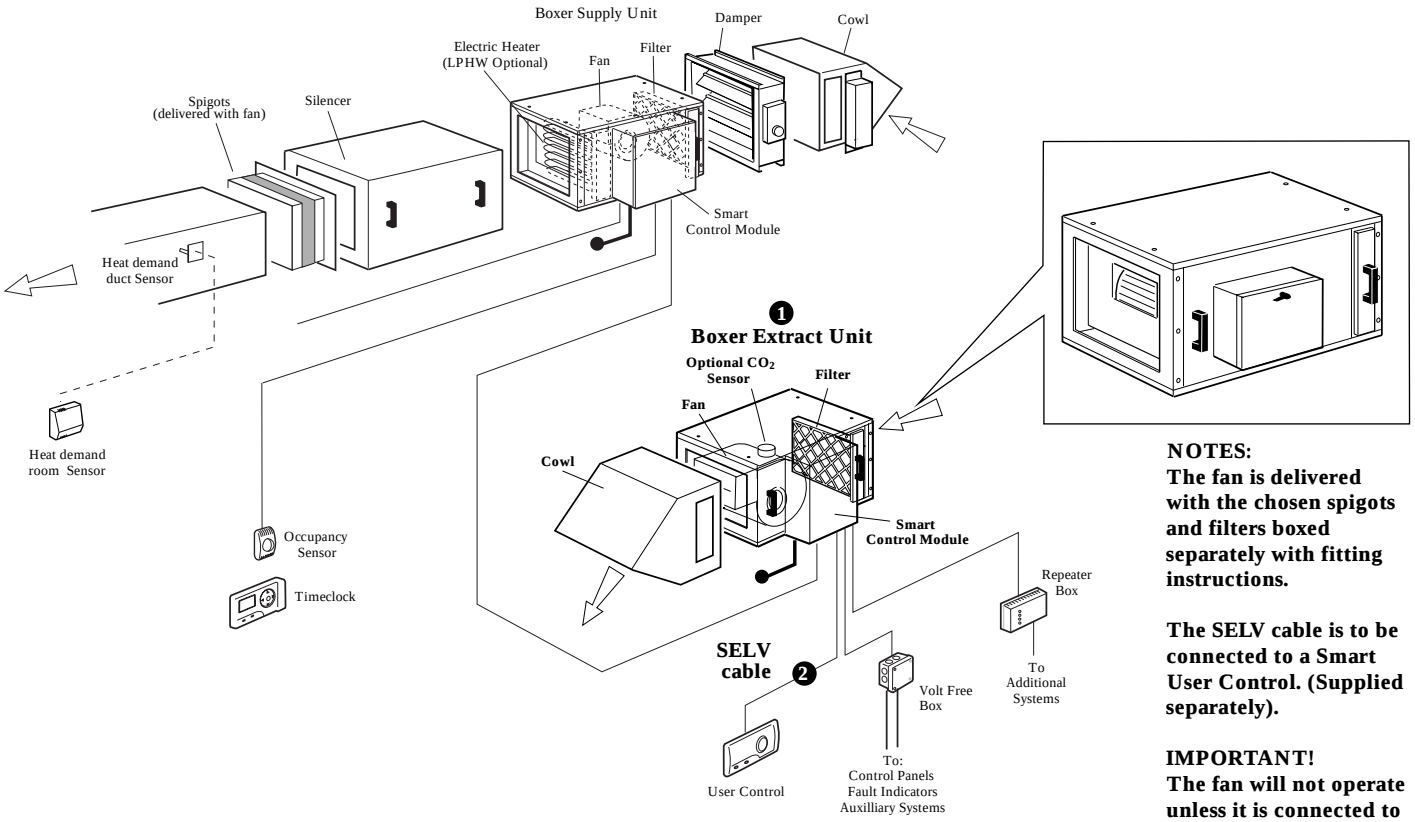


Fig. 1 Typical System, (SBEX Extract unit highlighted).

NOTES:
The fan is delivered with the chosen spigots and filters boxed separately with fitting instructions.

The SELV cable is to be connected to a Smart User Control. (Supplied separately).

IMPORTANT!
The fan will not operate unless it is connected to a Smart User control. (Supplied separately).

Contents

Part 1.

Parts check list

1. **SBEX Smart Boxer Extract Fan Unit**
2. **1 off, 10 metre length of plugged SELV cable**

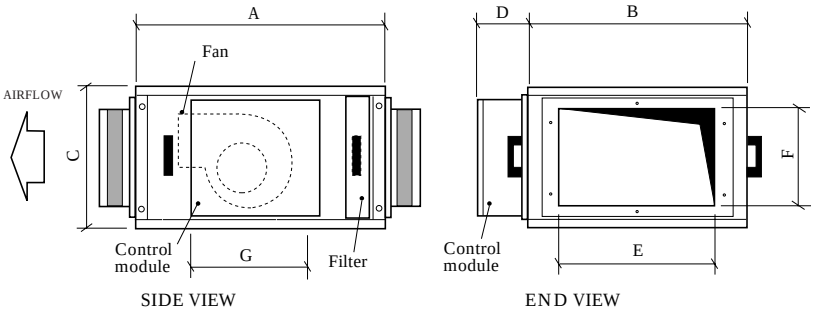
NOTE:
FAN WILL NOT OPERATE UNLESS IT IS CONNECTED TO A SMART USER CONTROL (Supplied separately).

Extract Unit
(Code SBEX1, SBEX2, SBEX1-CO2, SBEX2-CO2)
This is a combined fan and filter* unit and can be used alone or as part of a supply / extract system. Operation of the fan(s) is achieved via a Smart user Control (On CO2 units, a User Control with 'Auto Selection' e.g. SSB-MASTER-A should be employed and is supplied separately).

*Note:
The filter is designed to protect the CO2 sensing units. The filter element can, and should be dispensed with on the basic extract models as on these units it is not required. Furthermore, if not serviced, it may become blocked and impair the fan performance.

Part 2. Dimensions

Extract Unit



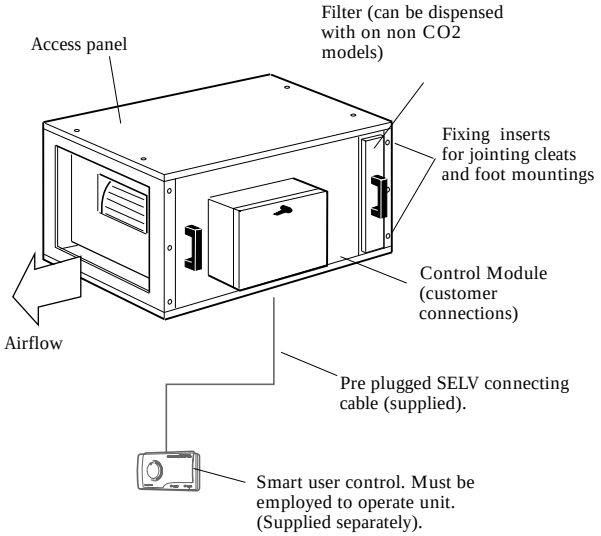
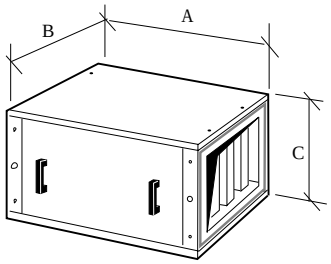


Fig. 2 Smart Boxer (SBEX1 Extract unit illustrated).

Dimensions (mm)-Maximum Shown

Unit Code	A	B	C	D	E	F	G	Weight (kg-Max)
SBEX1	700	684	480	200	500	300	300	64
SBEX2	1000	684	620	200	457	457	400	97
SBEX1-CO2 (CO2 version)	700	684	480	200	500	300	300	64
SBEX2-CO2 (CO2 version)	1000	684	620	200	457	457	400	97

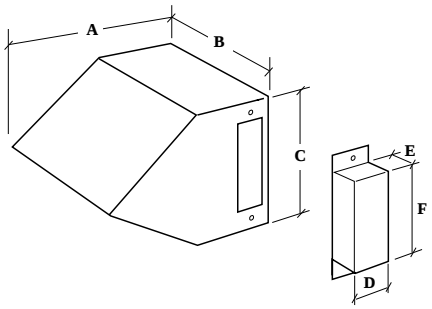
Dimensions (ancillaries)



Silencer Unit only

Dimensions (mm)

Unit Code	A	B	C	Weight(Kg)
SBSIL1-S	700	684	480	36
SBSIL2-S	700	684	620	44
SBSIL1-L	1400	684	480	72
SBSIL2-L	1400	684	620	88



Cowl (supply or Extract)

Matching weathering cowl for inlet or outlet use.
Manufactured from recyclable “Solissime” coated galvanised steel for excellent corrosion resistance.

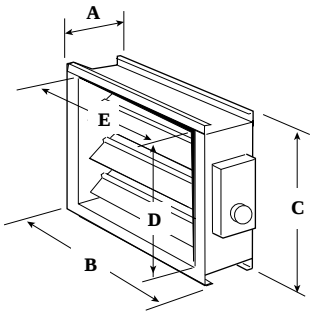
Dimensions (mm)

Unit Code	A	B	C	D	E	F	Weight(Kg)
SBRT 1	570	684	435	100	150	300	11
SBRT2	610	684	575	100	150	430	12

Damper Unit only

Dimensions (mm)

Unit Code	A	B	C	D	E	Weight(Kg)
SD1	160	620	415	365	540	14
SD2	160	620	560	510	540	17



Part 3. Handling

Lifting, moving and storage of equipment

When moving the units follow the procedure as shown in the diagrams. Do not attach lifting devices other than those shown. When using slings ensure that spreaders are employed to prevent damage to the unit casings (see fig.3).
Equipment should be stored in a dry location and protected from the accumulation of building dust and debris.
Do not stack the equipment during storage. Ensure that no impact loads are applied to the equipment
The handles fitted to the side panels of the units are for panel removal only. DO NOT attempt to move the unit using the handles.
Note: Avoid the panel handles when lifting. Consider the centre of gravity of the unit- this is not always central to the unit.

Part 4. Installation

Installation Options

The Smart Boxer can be installed using a number of different methods. This provides flexibility to cater for particular on site conditions. Note that for units delivered as individual modules; the spigot plates (packed separately and delivered with the fan unit) should be fitted to the outer modules e.g. silencers, at each end of the assembly.

Assembly of the modules

The module to module assembly is similar for all the unit sizes. Each module is constructed from six panels. End panels are designed to attach to the corresponding panel in the adjacent module and provide mounting points for the assembly.

The modules are assembled together using cleats, mounting feet or, for certain modules, closure plates.
All fixings necessary are provided. The fixings are vibration proof.
Clamping cleats are manufactured in heavy gauge mild steel and are designed to draw the end panels together into the correct position for gasket compression. For fitting, slacken the relevant vibration-proof bolts to show approximately 4mm of exposed thread and slide the cleat into position. A sharp blow to the folded edge will then engage the cleat. (See fig.4).
Mounting Feet, pressed in mild steel, provide for both attachment and mounting of the assembly. Note that AV mountings are available and selection and fitting details are detailed in these pages.
Closure Plates, are supplied with the Bend Modules and also the Heat Exchanger Modules.
NOTE: In all cases when positioning adjacent modules, ensure that the gasket material is not displaced.

Unit Mounting floor or roof (fig. 5 & 6)

On a smooth and level surface, capable of supporting the assembled weight of the units, no assembly frame is required. This has the advantage of minimising the overall height of the unit.
An uneven mounting surface will impose undue strain upon the assembly. In extreme cases this may cause leakage and component failure. A simple builders work upstand may be used to raise the equipment from the floor level. (See fig. 6).
Note: this will be necessary where cooling coils and heat exchangers are specified in order to allow fitting of the appropriate condensate drainage trap.

Construct the upstand to support the base periphery of the assembly. Position the modules in the correct order and assemble using clamping cleats. Mounting feet should be used, at least at every other joint, secured to the mounting surface. It is normal practice to fit a resilient matting between the unit and the mounting surface. See 'Using A.V. Mountings (page 4).

Where supplied with a base frame the module assembly needs only to be positioned and secured to the floor. Again, the surface should be level and additional height may be required for drainage traps.
Assemblies are supplied in maximum lengths of 2.4metres. Longer assemblies must be joined on site (fixings supplied).

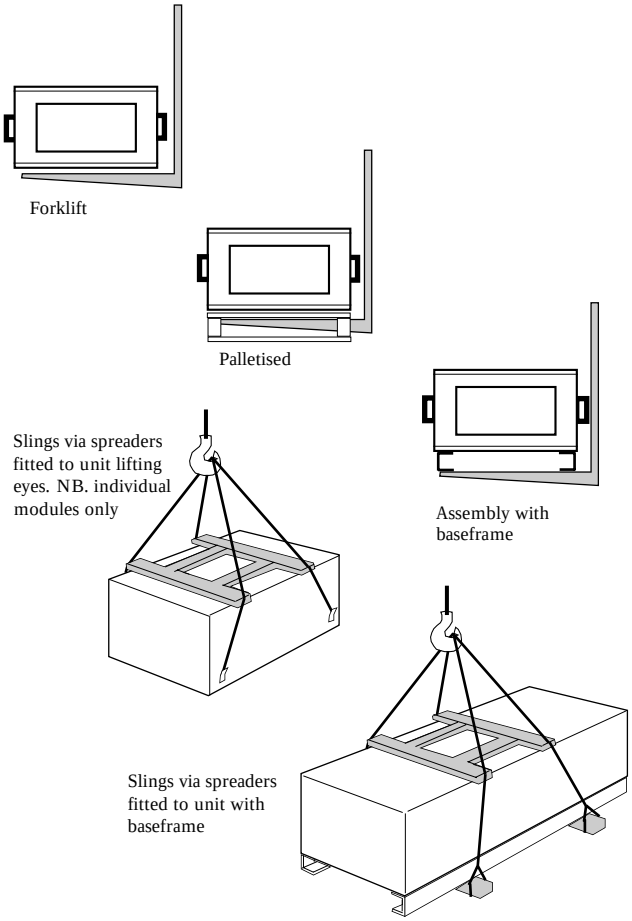


Fig. 3 Lifting and moving the unit.

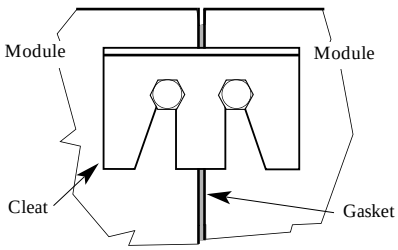


Fig. 4 Fitting a cleat

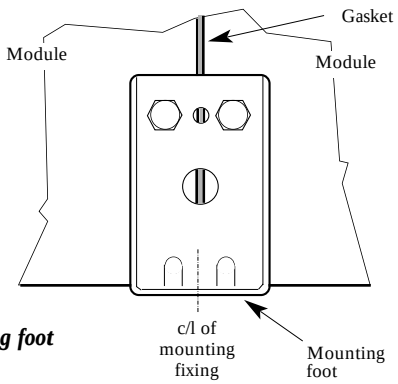


Fig. 5 The mounting foot

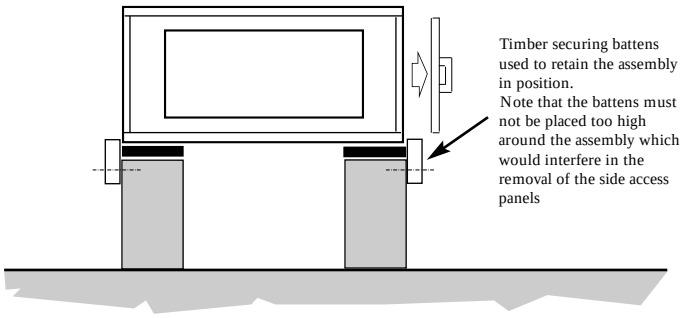


Fig. 6 Simple builders upstand mounting assembly.

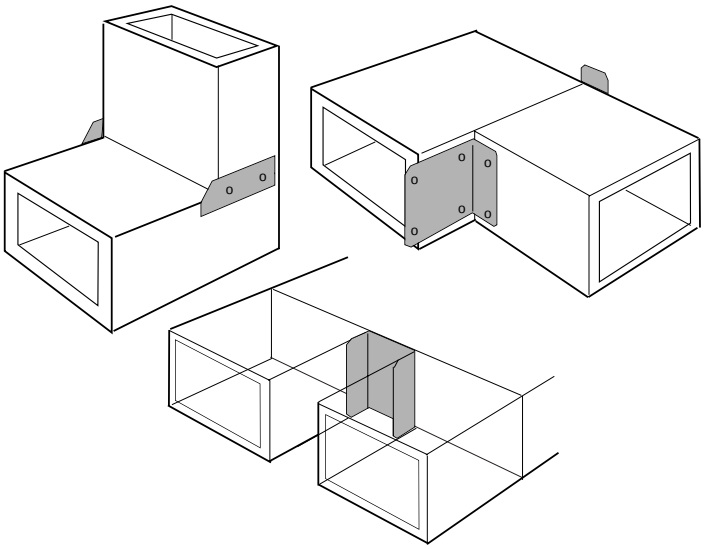
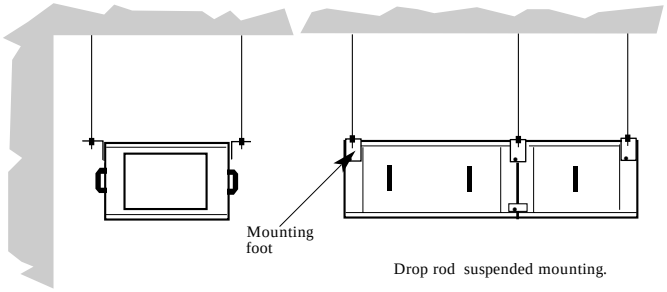


Fig. 7 Closure Plates used on Bend and Heat Exchanger modules.



Note: Spacing of supports coincides with module length

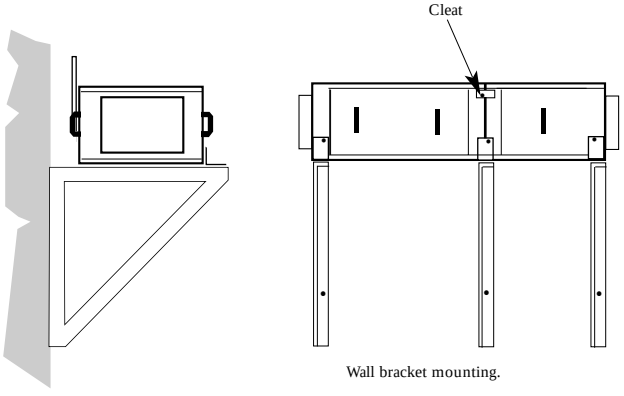


Fig.8 Suspended and wall mounting typical arrangements.

High level mounting (fig. 8)

For suspended mounting the installer must consider safe working access for construction and also subsequent maintenance, with particular regard to removal of access panels.

For baseframe mounted assemblies, the installer must provide a series of level supports for attachment of the baseframe. Supports of cantilever or drop rod design must be adequately sized and securely fixed.
Supports should be evenly distributed along the length of the assembly with a recommended maximum span between supports of 1.5metres. Not more than 150mm of baseframe should overhang the outermost supports.
Note that the baseframe / module assembly as supplied has a maximum length of 2.4 metres. For longer assemblies, both the modules and the baseframe will need to be joined on site (fixings are supplied).

Installation procedure

a) Fit the first two supports at one end of the assembly.
b) Fit mounting feet to the unit. Lift the unit onto the supports and secure with fixings.
c) Install the third support.
d) Lift the second module into place and attach it to the mounting feet. Attach the free end to the third support.
e) Fit cleats to the first joint.
f) Continue the procedure until all modules are in position checking each joint is properly aligned.
g) Check the tightness of all bolts and that the fixings to the supports are secure.

Ensure that the supports do not impose any undue loads on the component due to misalignment.
Note that when installing a module near to a wall, sufficient clearance must be allowed for fitting of the mounting feet and access to the fixing bolts.

Connecting the ductwork.

Assuming the assembly of the modules is complete, the spigot plates delivered with the fan, may now be fitted to the outer modules. All fixings are supplied.
The units are supplied with rectangular flexible spigots as standard. (Circular spigots available). The unit can be used 'stand alone' in ductwork, or the spigot(s) can be removed and the fan unit butt jointed to other Boxer Modules using the clamp plates and mounting feet supplied. Make spigot connections to ductwork using circlips, jubilee clips or riveting. The weight of the ductwork should be separately supported. The ductwork should also be properly aligned with the connecting spigots. Flexible spigots should be extended so that they do not impede the airflow but flexibles must not be stretched as this could allow the transmission of vibration.

To achieve the rated airflow performance there should be at least 1 metre of straight ducting at both ends of the module assembly and any bends or restrictions should be positioned as far away from the unit as is possible.

Module requirements

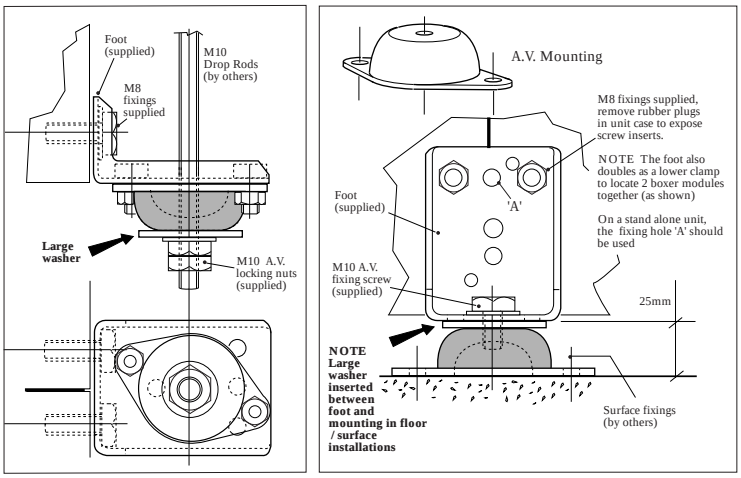
General

All access panels are secured by M6 x 50 screws which are retained in the panel. During routine maintenance only one access panel at any time should be removed from the unit. When a panel is removed, the condition of the sealing gasket tape should be checked and replaced if necessary.
Before attempting any maintenance on any component in the system, **THE ENTIRE SYSTEM MUST BE ELECTRICALLY ISOLATED** using lockable isolators.

Using A.V. Mountings

The Smart Boxer units are also supplied as standard with four mounting feet. Anti-vibration mountings are available to order and carry an AV code which matches with the unit size. Various hardnesses are designed to be fitted in particular positions denoted by a colour coding. The A.V. mountings should be selected and located as shown in the drawing and table.

When using AV mounts in suspended applications the mounts are located under the feet. The drop rods are passed through the feet and and the A.V.'s are threaded up the drop rods. With the unit level the A.V.'s are fixed to the underside of the feet. The large washers supplied MUST be placed underneath before fixing the M10 nuts and lock nuts.
NOTE: A.V. mountings are only used in compression. The mounts must NEVER be used in tension.

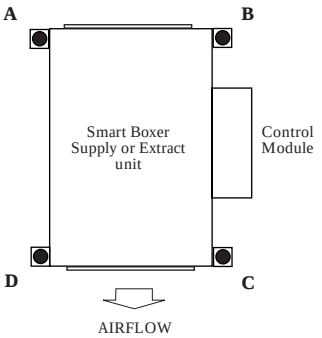


A.V Used in suspended application. Note washer position

A. V. Used in a floor / surface mounted application

Fig.9 Typical AV applications, surface & suspended

The various hardnesses of the A.V. mounts are denoted by a colour coding and their application is detailed below.



A.V. selection

Unit	A.V. Code	Position on unit A	B	C	D
SBE1	SBAV4	BLUE	BLUE	BLUE	BLUE
SBE2	SBAV5	BLUE	YELLOW	YELLOW	YELLOW
SBE1-CO2	SBAV4	BLUE	BLUE	BLUE	BLUE
SBE2-CO2	SBAV5	BLUE	YELLOW	YELLOW	YELLOW

Part 5. Connecting the electrical supply

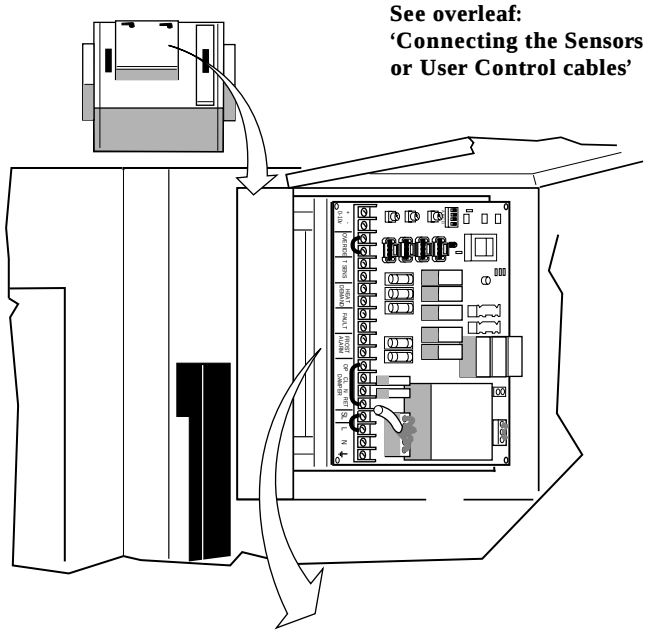
ISOLATION
BEFORE COMMENCING WORK MAKE SURE THAT THE UNIT IS ELECTRICALLY ISOLATED FROM THE MAINS SUPPLY.

Power requirements **1 Phase (230v)**

Unit Code	sc (amps)	flc (amps)
SBEX1 / SBEX1-CO2	n/a	5
SBEX2 / SBEX1-CO2	n/a	11

IMPORTANT
The fan will not operate unless it is connected to a Smart User control. (Supplied separately). See overleaf: 'Connecting the Sensors or User Control cables'

Customer wiring into fan control box



Terminal connections explained

BEMS 0-10v dc signal used to control speed of fan

OVERRIDE Voltfree connection to stop the unit from running (e.g. fire alarm systems).

T SENS 12v for connection to voltfree contacts

HEAT DEMAND When 'winter' mode is selected and fan is running, these contacts close. Rated 1 Amp 230v

FAULT 2 terminals supplied- Fused to 1Amp These are volt free. Closed when system is operating normally. When a fault occurs the contacts will open and break the circuit.

FROST ALARM In the event of frost (5°C) detected on the LPHW coil, this contact will close and shut the unit down. (L units only).

OP = OPEN: 230v ac (1 Amp rating) powered when fan is selected to run.

CL = CLOSE: 230v ac (1 Amp rating) powered when fan is selected to stop.

N = NEUTRAL: Supply for damper

RET = RETURN: 230v ac input signal - This is a feedback signal that can be connected to a limit switch. Allows the damper to be fully opened before the fan begins to run.

Damper connections

SL = SW LIVE At 0 volts ac the system is off. 3 volts to 230 volts will activate the system.

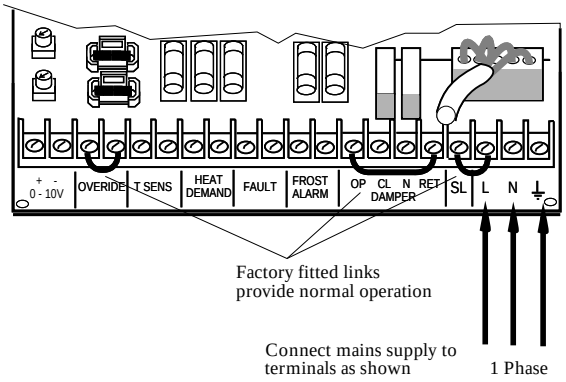
L
N MAINS
⏚

Supply 1 ph 230v 50Hz

Individual connection details are shown overleaf

Customer wiring to the Fan Control Box (continued).

Normal operation
No auxilliary devices being employed

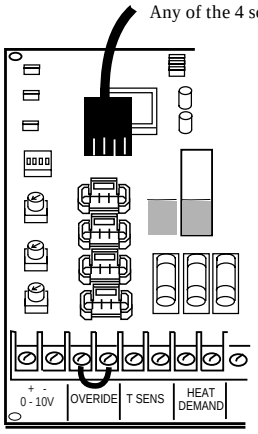


Factory fitted links provide normal operation

Connect mains supply to terminals as shown

1 Phase

Connecting the Sensors or User Control cables (supplied)
Any of the 4 sockets may be used

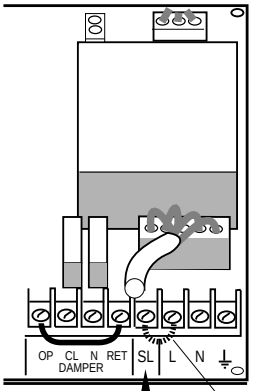


SUPPLY ONLY
Connect the other end of the cable to the user control (control supplied separately)

SUPPLY / EXTRACT
As above. Also a second cable is employed to connect the two fans together.

Switched Live Connection

When 230v a.c. is applied to the swich live terminal the fan will run.
When the 230v a.c. is removed from the switch live the fan will stop.



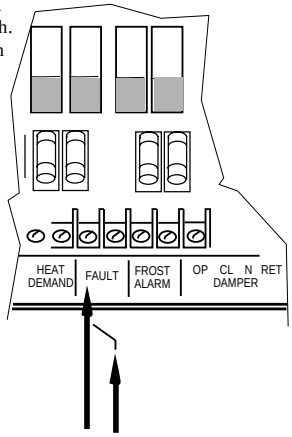
Remove this link

230v signal from other equipment eg. lightswitch, BMS etc,

Fan Fail signal connection
This connection is a volt free switch. It is rated at 1A (230v) and has been fused at 1A for protection.

NO FAULT
The volt free switch is closed (i.e. a & b are connected).

FAN FAULT
The volt free switch is open (i.e. a & b are disconnected.



a b
Voltfree connection

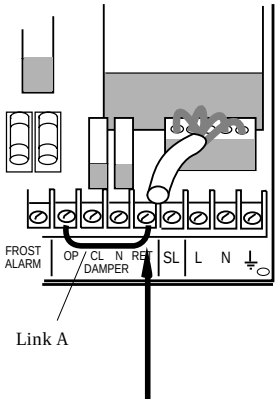
Damper Connection

POWERED OPEN
230v a.c. (1 amp) is provided on OP terminal to power open a damper. (This could also be used to switch auxilliary equipment).

POWERED CLOSE:
230v a.c. (1 amp) is provided on CL terminal to power close a damper.

LIMIT SWITCH
If using a limit switch when opening a damper:
1 Remove link (a)
2 Connect 230v a.c. to common connection point.
3 Connect N/O connection of Limit Switch to RET terminal.

Note:
An extra NEUTRAL terminal is provided for convenience when using a Damper



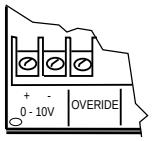
Link A

(b)

Speed Control via 0 - 10v dc signal BEMS

BMS Control Voltages

(Terminals bottom left of control panel)



NOTE: NOT FOR USE ON CO2 UNITS

SUMMER MODE		WINTER MODE	
Volts*	**Function**	**Volts***	**Function**
0 0.25	Local Control Local Panel disabled / Off	0 0.25	Local Control Local Panel disabled / Off
0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5 9.5	Speed 1 Speed 2 Speed 3 Speed 4 Speed 5 Speed 6 Speed 7 Speed 8 Speed 9 Speed 10	1 2 3 4 5 6 7 8 9 10	Speed 1 Speed 2 Speed 3 Speed 4 Speed 5 Speed 6 Speed 7 Speed 8 Speed 9 Speed 10
		Heater 'ON'	

***Tolerance ± 125mV**

Part 6.

Setting and operating the unit

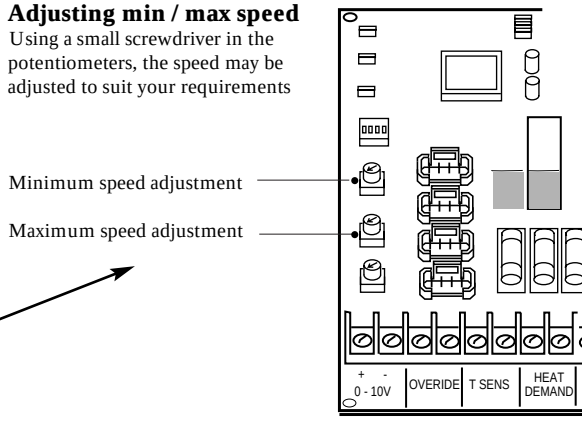
Adjustments

The installer can adjust the following features and customise the Smart Boxer system to meet his particular requirements:

Min. / Max. setting on Fans

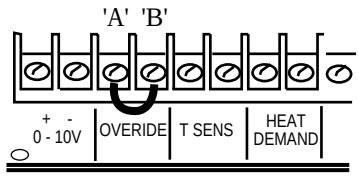
The speed of the fan can be adjusted inside the control module mounted on the side of the Smart Boxer.
The maximum speed can be reduced by rotating the relevant screw anti-clockwise.
Using this feature, the min/max extract rate can be fine-tuned to suit individual requirements.
NOTE: Turning the Min speed adjuster fully anti clockwise and the Max speed adjuster fully clockwise will set the speed to 100 %, see drawing opposite.

Adjusting min / max speed
Using a small screwdriver in the potentiometers, the speed may be adjusted to suit your requirements



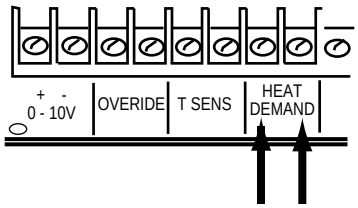
Override (Volt Free Connection)

When the factory fitted link is removed and the fan is operated via a remote switch / relay), the fan will stop running when 'A' is disconnected from 'B' See drg.



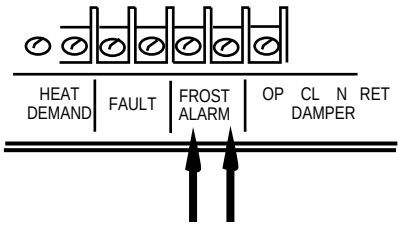
Heat Demand (Volt Free Connection)

Maximum load 230v lamp to signal external equipment that the fan is running and that 'Winter' mode is enabled.



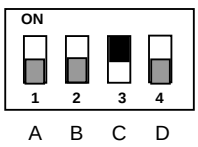
Frost Alarm (Volt Free Connection)

Maximum load 230v l Amp. When frost is detected over the coil (5°C) this contact is activated and fan shuts off, any dampers is closed and a RED led blinks to signal frost on supply unit. (Only used on SBS1L & SBS2-L supply units)



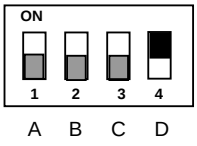
Setting the function switches

C3 'ON'
= Damper operational
No delay, fan will start immediately
C3 'OFF'
= Fan has delayed start to allow the damper to open (60 seconds)



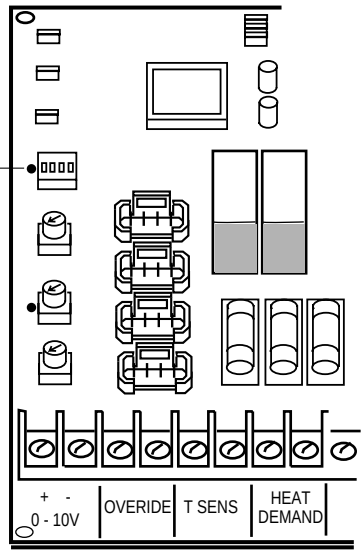
NOTE:
A1 and B2 are not used (do not touch)

D4 'ON'
= Enables trickle mode.
Fan runs at trickle even when switched off.*
D4 'OFF'
= No trickle operation



** Disconnecting Switch Live or Override will stop the fan.*

Function switches



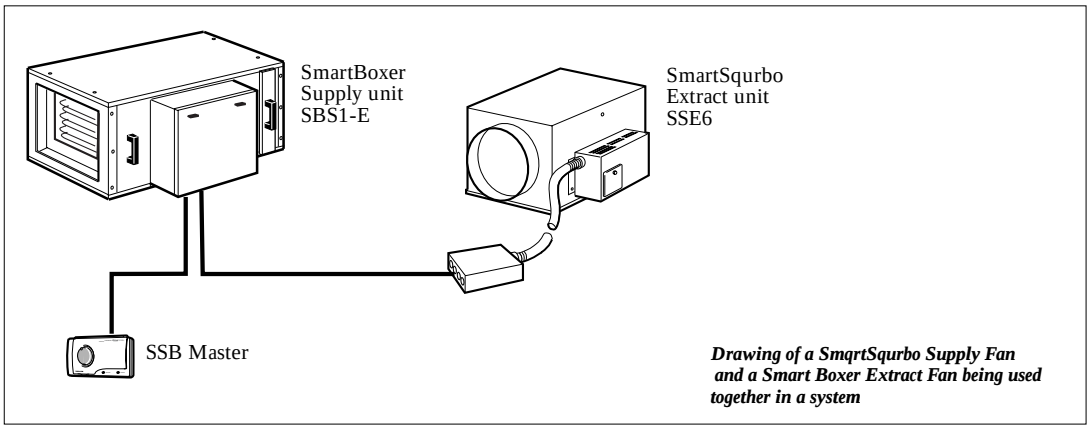
Part 7. Troubleshooting for Smart Boxer Systems

Problem	Solution
System power is on, power and status light on user control is green, fan lights are off and switch has been moved to summer / winter mode but fan is not running.	The SW Live connector may not have 230v AC connected to it; or similarly, when a limit switch is used with a damper, the 'DAMPER RETURN' does not have 230v AC connected to it.
Problem System power is on but no lights showing on the user control.	**Solution** Check SMARTCABLE-10/Net connections or check the 3 amp fuse labelled 'Control Supply' in the customer connection box.
Problem System power is on but user control displays a red light next to 'Supply / Extract Fan'	**Solution** Fan has failed -contact a service engineer.
Problem The user control has been switched to the OFF position but the green light stays on indicating that the fan/s are still running.	**Solution** This is a normal condition. Notice that the heater light is amber. This indicates that the system has been switched from winter mode to summer \ OFF. The fan has a built in run on timer which runs for 10 minutes. This is necessary to disperse any residual heat.
Problem The Supply unit does not heat the air.	**Solution** Check the temperature control (0-30 °C dial on the side of the fan.
Problem The user control displays an amber light next to a fan.	**Solution** Check the SMARTCABLE - Net connections. Check power / fuses to the customer connection box.

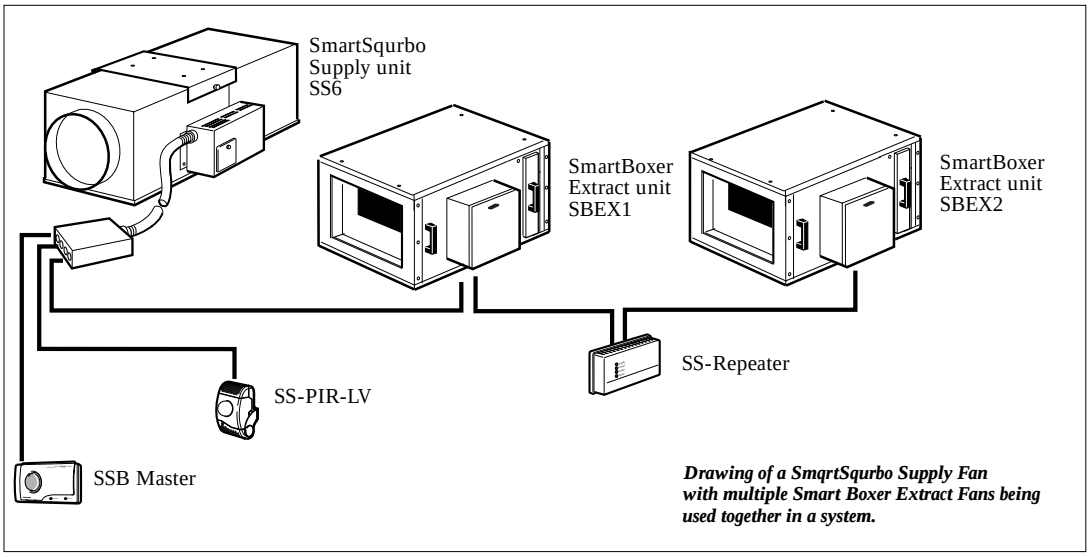
Using Smart Boxer and Smart Squrbo systems together

SmartSqurbo and SmartBoxer systems may be used together. Smart Controls including User controls, Sensors and other auxilliary devices are fully compatible with both SmartSqurbo and SmartBoxer systems.

Typical mixed applications are shown.



Drawing of a SmqrtSqurbo Supply Fan and a Smart Boxer Extract Fan being used together in a system



Drawing of a SmqrtSqurbo Supply Fan with multiple Smart Boxer Extract Fans being used together in a system.

NUAIRE

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DECLARATION OF INCORPORATION & INFORMATION FOR SAFE INSTALLATION, OPERATION & MAINTENANCE

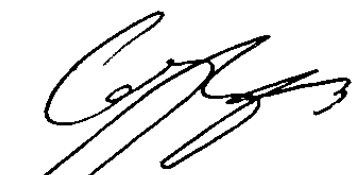
OCTOBER 1998

We declare that the machinery named below is intended to be assembled with other components to constitute a system of machinery.

The machinery shall not be put into service until the system has been declared to be in conformity with the provisions of the EC Council Machinery Directive.

Designation of machinery :-	SMART BOXER EXTRACT UNIT
Machinery Types :-	SBEX
Relevant EC Council Directives :-	98/37/EC (Machinery Directive) 93/44/EEC (Amendment to the Machinery Directive)
Applied Harmonised Standards :-	EN292-1, EN292-2, EN294, EN29001
Applied National Standards :-	BS848 Parts One, Two and Five

Signature of manufacture representatives :-

		Name:	**Position:**	**Date:**
1)		C. Biggs	Technical Director	3.1.98
2)		M. Fussell	Manufacturing Director	3.1.98

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CE DECLARATION OF CONFORMITY

OCTOBER 1998

We declare that the machine named below conforms to the requirements of EC Council Directives relating to Electromagnetic Compatibility and Safety of Electrical Equipment.

Designation of machinery :-	SMART BOXER EXTRACT UNIT
Machinery Types :-	SBEX
Relevant EC Council Directives :-	89/336/EEC, 92/31/EEC (EMC) 73/23/EEC, 93/68/EEC (Low Voltage Directive)
Applied Harmonised Standards :-	E50081-1, EN50082-1, EN60204-1 EN60335-2-80
Basis of Self Attestation :-	Quality Assurance to BS EN ISO 9001 BSI Registered Firm Certificate No. FM 149

Signature of manufacture representatives :-

		Name:	**Position:**	**Date:**
1)		C. Biggs	Technical Director	2. 4. 98
2)	Michael J Fussell	M. Fussell	Manufacturing Director	2. 4. 98

INFORMATION FOR SAFE INSTALLATION, OPERATION AND MAINTENANCE OF NUAIRE VENTILATION EQUIPMENT

To comply with EC Council Directives 89/392/EEC Machinery Directive & 93/44/EEC Amendment to the Machinery Directive.

To be read in conjunction with the relevant Product Documentation (see 2.1)

1.0 GENERAL

1.1 The equipment referred to in this **Declaration of Incorporation** is supplied by NuAire to be assembled into a ventilation system which may or may not include additional components.
The entire system must be considered for safety purposes and it is the responsibility of the installer to ensure that all of the equipment is installed in compliance with the manufacturers recommendations and with due regard to current legislation and codes of practice.

2.0 INFORMATION SUPPLIED WITH THE EQUIPMENT

2.1 Each item of equipment is supplied with a set of documentation which provides the information required for the safe installation and maintenance of the equipment. This may be in the form of a Data sheet and/or Installation and Maintenance instruction.

2.2 Each unit has a rating plate attached to its outer casing. The rating plate provides essential data relating to the equipment such as serial number, unit code and electrical data. Any further data that may be required will be found in the documentation. If any item is unclear or more information is required, please contact NuAire.

2.3 Where warning labels or notices are attached to the unit the instructions given must be adhered to.

3.0 TRANSPORTATION, HANDLING AND STORAGE

3.1 Care must be taken at all times to prevent damage to the equipment. Note in particular that shock to the unit may result in the balance of the impeller being affected.

3.2 When handling the equipment, care should be taken with corners and edges and that the weight distribution within the unit is considered. Lifting gear such as slings or ropes must be arranged so as not to bear on the casing.

3.3 Equipment stored on site prior to installation should be protected from the weather and steps taken to prevent ingress of contaminants.

4.0 OPERATIONAL LIMITS

4.1 It is important that the specified operational limits for the equipment are adhered to *e.g. operational air temperature, air borne contaminants and unit orientation.*

4.2 Where installation accessories are supplied with the specified equipment eg. wall mounting brackets. They are to be used to support the equipment only. Other system components must have separate provision for support.

4.3 Flanges and connection spigots are provided for the purpose of joining to ductwork systems. They must not be used to support the ductwork.

5.0 INSTALLATION REQUIREMENTS

In addition to the particular requirements given for the individual product, the following general requirements should be noted.

5.1 Where access to any part of equipment which **moves**, or can become **electrically live** are not prevented by the equipment panels or by fixed installation detail (eg ducting), then guarding to the appropriate standard must be fitted.

5.2 The electrical installation of the equipment must comply with the requirements of the relevant local electrical safety regulations.

6.0 COMMISSIONING REQUIREMENTS

6.1 General pre-commissioning checks relevant to safe operation consist of the following -
Ensure that no foreign bodies are present within the fan or casing
Check electrical safety. *e.g. Insulation and earthing.*
Check guarding of system.
Check operation of Isolators/Controls.
Check fastenings for security.

6.2 Other commissioning requirements are given in the relevant product documentation.

7.0 OPERATIONAL REQUIREMENTS

7.1 Equipment access panels must be in place at all times during operation of the unit, and must be secured with the original fastenings.

7.2 If failure of the equipment occurs or is suspected then it should be taken out of service until a competent person can effect repair or examination. (Note that certain ranges of equipment are designed to detect and compensate for fan failure).

8.0 MAINTENANCE REQUIREMENTS

8.1 Specific maintenance requirements are given in the relevant product documentation.

8.2 It is important that the correct tools are used for the various tasks required.

8.3 If the access panels are to be removed for any reason the electrical supply to the unit must be isolated.

8.4 A minium period of two minutes should be allowed after electrical disconnection before access panels are removed. This will allow the impeller to come to rest.
NB: *Care should still be taken however since airflow generated at some other point in the system can cause the impeller to "windmill" even when power is not present.*

8.5 Care should be taken when removing and storing access panels in windy conditions.

Part 8. Maintenance

ISOLATION
BEFORE COMMENCING WORK MAKE SURE THAT THE UNIT IS ELECTRICALLY ISOLATED FROM THE MAINS SUPPLY.

Maintenance Intervals
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.
Do not run the fan system in dust laden conditions prior to hand over as cement or plaster dust will cause premature clogging of the filters.

General Cleaning and Inspection
Access to the motor / impeller assembly can be gained by removing the main case cover
Inspect fan and motor assembly as follows; taking care not to damage, distort or disturb the balance of the impeller.

a) Lightly brush away dirt and dust, paying particular attention to any build up at the motor ventilating slots. If necessary, carefully remove with a blade or scraper.
b) Stubborn dirt at the impeller may be carefully removed with a stiff nylon brush.
c) Check all parts for security and general condition. Check that the impeller rotates freely.

Refit the assembly to the unit.

Lubrication
Motors are fitted with sealed for life bearings and therefore require no further lubrication

Filter care / replacement
The filter inside the Smart Boxer unit will require cleaning on a regular basis. The frequency of filter cleaning operations will depend on the site conditions.
Note**:** It is important to allow sufficient time for the heater battery to cool down before beginning work.
Remove the access panel and withdraw the filter. The filter then may be vacuumed.

Service

As a manufacturer NuAire provides you with factory trained Service Engineers.

Our Engineers are supported by a comprehensive range of spare parts 'off the shelf'.

If you are an industrial or commercial user, you may be interested in details of NuAire's regular maintenance Service Contracts. This is a worthwhile service that helps you get the most from our products.

Our Service Department will be happy to give you more information.

Please telephone: 02920 858254

Controls Application Service (CAS)

A team of Engineers and Technicians is available to provide pre and post order support.

We are on hand to provide help and advice from the most basic use of any NuAire equipment to the more complex applications, maximising on the versatility of our SMART and NetLink control products.

Telephone: 02920 858585

Facsimile: 01222 858586

3 YEAR WARRANTY

The three year warranty starts from the date of delivery and includes parts and labour for the first year.

The labour element is subject to full, free and safe access to the equipment as recommended by the CDM regulations.

The remaining two years covers replacement parts only.

NOTE:
Installation & Maintenance of the equipment must be as directed in the instructions provided with the unit.

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