

# NUAIRE

## Boxer B4-HX to B7-HX HEAT EXCHANGER UNITS

## Installation and Maintenance

### NUAIRE

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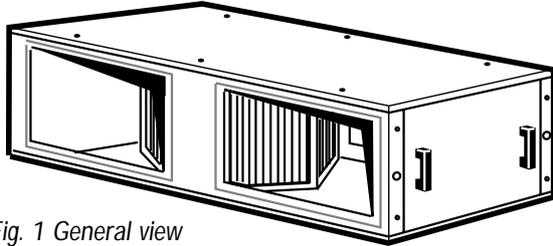


Fig. 1 General view

### Introduction

The Boxer range of Heat Exchangers provide a means of recovering heat from an extract system and transferring this heat to a complimentary air supply system.

The casing is insulated and contains a plate core assembly type heat exchanger for efficient heat transfer between supply and extract air streams.

An integral drip tray and an external 22mm drain tube connection is also provided. The tray is insulated to prevent secondary condensation.

The heat exchanger units are rectangular in section and manufactured in galvanised steel. The case is designed to match the Boxer range of air handling units.

The units are designed for horizontal mounting only.

A full sized access panel is provided on the top of the unit.

### Handling

Always handle the units carefully to avoid damage and distortion. If mechanical aids are used to lift the unit, spreaders should be employed and positioned so as to prevent the slings, webbing etc. making contact with the casing.

#### IMPORTANT

The fans must be situated in the system so that they are both pushing air through the Heat Exchanger. The fans should be located as shown.

#### HEATERS

Note that when a heater module is used in the system it must be positioned after the HX on the SUPPLY side (fig.2)  
**If the fan has an integral heater** the fan/heater must be positioned after the HX on the SUPPLY side (Fig.3)

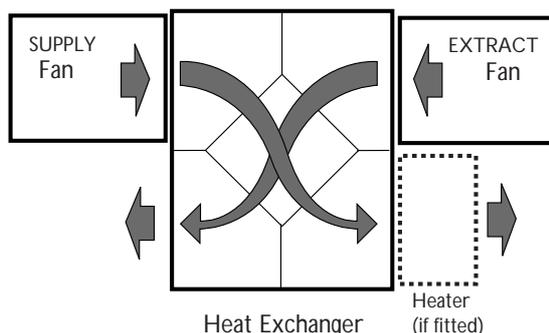


Fig. 2 System application diagram.

### Mounting

The method of mounting used is the total responsibility of the installer. The units are designed for horizontal mounting only.

### Installation

Units should always be positioned with sufficient space to allow removal of the access cover and subsequent removal of the internal assembly if required.

Note: when the unit is installed into a system, the correct orientation must be observed as indicated by direction labels on the side of the unit case (see also fig.2 & fig.3)

Fast Clamp duct connectors are available to speed installation, see overpage.

#### FANS WITH HEATERS

When using a fan with an integral heater, both the SUPPLY and EXTRACT units must be arranged to draw air through the Heat Exchanger.

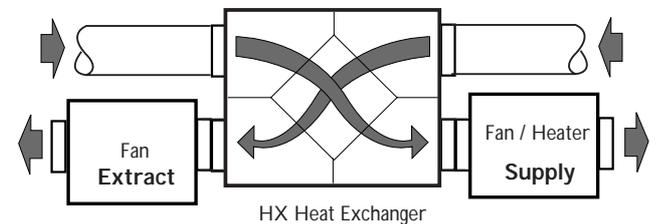


Fig. 3 Fan/heater with HX

### Maintenance

Only periodic checks are necessary. After the initial 3 monthly inspection interval, checks can be carried out every 6 months.

Unscrew and remove top access cover.

Remove dust fibres with a soft brush or with a vacuum cleaner. Take care when cleaning with pressure air that the Heat Exchanger package is not damaged. Keep at a safe distance.

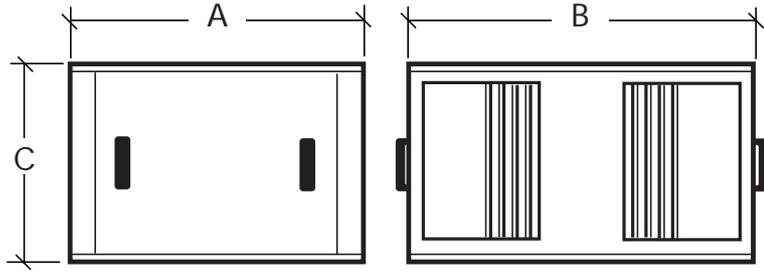
Oils, solutions etc. can be removed with hot water or grease solvents, by washing or immersing.

Ensure the drip tray is kept free of any debris.

Take care that the exchanger is not damaged, neither mechanically or chemically.

- choose harmless cleaning agents.
- clean carefully.

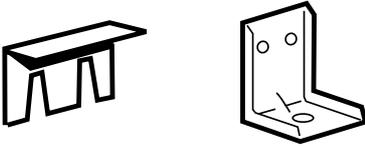
### Dimensions



### Heat Exchanger

Unit Code	A	B	C	Weight kg
B4-HX	1000	1450	476	83
B5-HX	1000	1450	620	144
B6-HX	1000	1450	620	144
B7-HX	1420	2200	750	291

### Optional installation items available from NuAire



#### Clamps and brackets

Joining clamps provide a means of module connection and optimise gasket compression.

Foot brackets (2 supplied with each module) are compatible with a range of resilient mounts.

*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.*

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