

BXS / TDA Room Terminals

Installation, Operation and Maintenance Manual

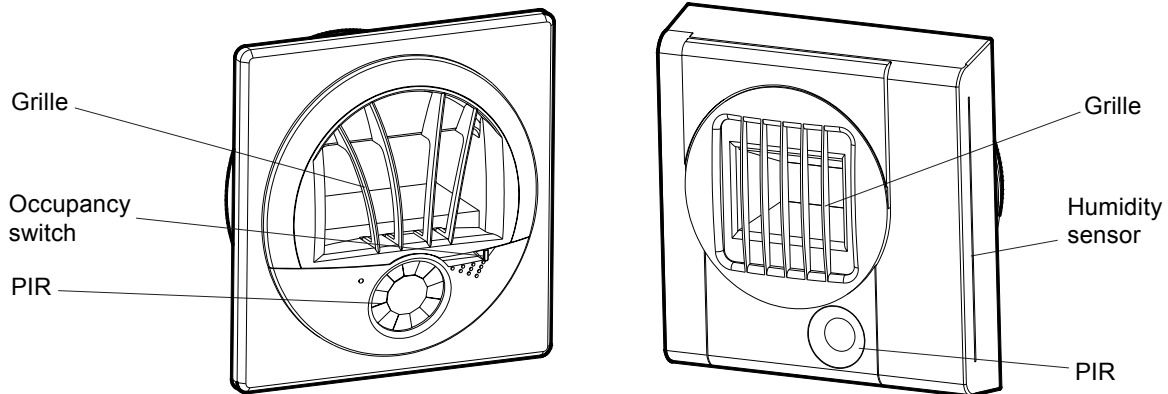


Fig. 1
Room Terminals

TDA Room Terminal

BXS Room Terminal

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1 Introduction

The VES TDA and BXS series of room terminals are sensor-driven extract units for constant pressure applications. The TDA unit is activated by PIR sensor and can be manually adjusted to suit the occupancy of the room. Maximum airflow 100m³/h. The BXS model is also PIR sensor driven but has the additional feature of an integral humidity sensor for superior environmental control. Maximum airflow 70m³/h.

For further technical details contact VES on **08702 404340** quoting the sales order (SO) number and the unit type as found on the unit nameplate, or visit www.ves.co.uk.

2 Installation

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 manufacturer's recommendations, with due regard to the current HEALTH AND SAFETY AT WORK ACT and conforms to all relevant statutory regulations.

Where a unit is installed so that a failure of components could result in injury to personnel, precautions should be taken to prevent such an injury.

Immediately upon receipt of goods, check for possible damage in transit. Also check to ensure that any ancillary items are included.

In the event of any damage having occurred or if any item found to be missing, it is essential to inform VES Andover Ltd. within **3 working days** of delivery quoting sales order (SO) number and the unit type as found on the unit nameplate. After this period we will be unable to accept any claim for damaged or missing goods.

The terminals are suitable for internal applications only, for wall or ceiling mounting, and bathroom settings. They are supplied complete with spigot, sized to fit directly into a Ø125mm duct, the airtightness ensured by a lip joint. The TDA unit requires no additional fixing.

Where additional fixing may be required for the BXS unit, removal of the front cover will reveal top and bottom fixing holes, which can be used as a fixing template; use appropriate plugs and fixings so as to suit the fixing surface construction.

Consideration should be given when selecting a position for the terminal so that if an additional hole is required in the mounting surface to enable connection to an electrical supply, this hole is adjacent to the terminal cable tail and also the hole is fully concealed by the backplate of the room terminal.

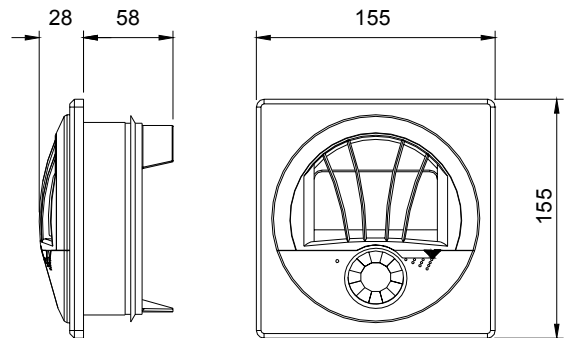


Fig. 2
TDA Terminal Dimensions
Weight: 270g approx.

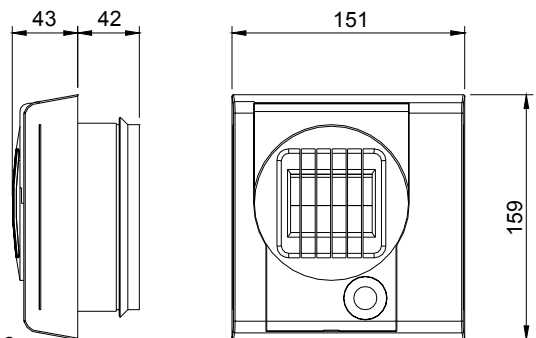


Fig. 3
BXS Terminal Dimensions
Weight: 380g approx.
(Dims in mm)

For further information on constant pressure system commissioning see document VES Ref: ID 629

BXS / TDA Room Terminals

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2 Installation continued

Care should be taken to ensure that when ceiling mounted, the units are positioned so that the PIR sensor is directed into the room space see *fig. 4*.

Both terminals are factory set to maintain airflow for 25 minutes after occupancy has finished. This is non-adjustable.

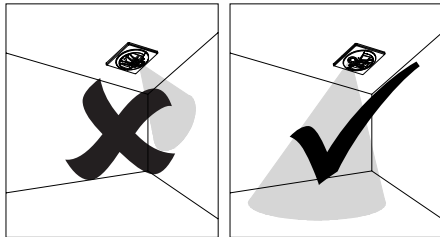


Fig. 4
Correct positioning for ceiling mounted PIR

3 Wiring & Set-up

IMPORTANT Before attempting to carry out any maintenance work, investigative or repair work on our units, the unit **MUST BE COMPLETELY ISOLATED** from its electrical supply.

TDA Terminal

The TDA room terminal operates via a 12VAC supply or by means of a 12/230V transformer (optional). Make the electrical connection using the leads at the back of the terminal, making sure that the connection / transformer is accessible for maintenance, and isolate as appropriate.

The selection switch on the terminal (see *fig. 5*) allows a manual adjustment to the typical occupancy rate of the room. *Fig. 6* shows the typical characteristics of the unit at the different settings. Slide the switch to the relevant indicator on the unit to select the setting.

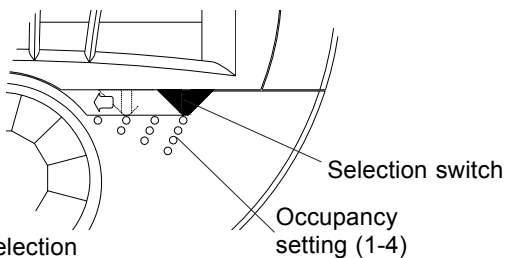


Fig. 5
Occupancy Selection

BXS Terminal

The BXS room terminal operates by means of either a 9V battery (PP3/1604, not supplied) or to a 12VAC supply via an adaptor (and transformer if required). The battery compartment and connector can be located at the top of the terminal behind the removable front grille cover.

With 9v units simply fit the battery to the connector in the usual manner, insert the battery into the compartment and replace the front grille cover.

For 12VAC units fit the BXS-PSU rectifier as you would a battery, insert into the battery compartment and replace the front grille cover, ensuring that the cable tail is fed out through the back of the unit. Install to a 12VAC transformer

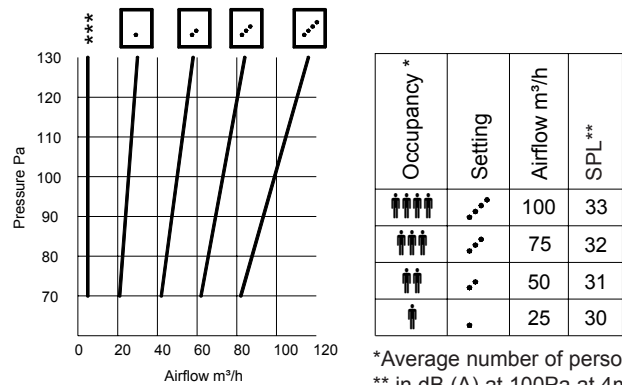


Fig. 6
Airflow & setting details

*Average number of persons
** in dB (A) at 100Pa at 4m
***'Trickle' vent

as with the TDA unit if required.

The BXS unit is fully automated - no further adjustment is required.

Both units feature a test facility to ensure proper flap activation, the contacts to which are located beneath the front grille. Using a small insulated flat-bladed screwdriver, bridge the contacts as shown in *fig. 7* to activate the flap solenoid. Note: this connection must ultimately be made twice to ensure that the terminal is returned to the default position.

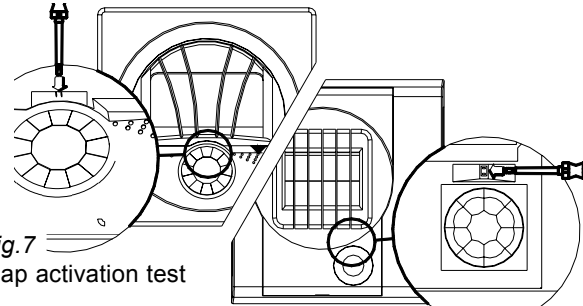


Fig. 7
Flap activation test

4 Maintenance

Both units require little maintenance. The front grille can be removed and cleaned in mild soapy water if required, however under normal usage a wipe over with a clean cloth will suffice.

There are no recommended spares available for these units. In the event of unit failure a full replacement will be required.

For service issues contact VES Customer Services Department, quoting the sales order (SO) number and unit type as found on the unit nameplate.

Telephone 08702 40 43 40
Fax 08702 40 45 50



PLEASE ENSURE THAT THIS DOCUMENT IS PASSED ON TO THE END USER.

We reserve the right to alter the specification without notice