



# Dryflow A25 & A80 Series

## Installation, Commissioning & Servicing Instructions

ZZ1141/1  
March 2002

**IT IS RECOMMENDED THAT YOU READ THE FOLLOWING INSTRUCTIONS BEFORE USING THE PRODUCT. THE MANUFACTURER ACCEPTS NO RESPONSIBILITY AND DECLINES ANY AND ALL LIABILITY FOR DAMAGE CAUSED TO PERSONS OR PROPERTY DUE TO IMPROPER USE WITH REFERENCE TO THE PRECAUTIONS OUTLINED IN THIS MANUAL.**

### DESCRIPTION AND USE

A25 and A80 are axial fans range for exhausting directly to the outside or in a short length of ducting, suitable for wall, panel and ceiling installation. Window kit for window installation is also available. For the electrical features, refer to the technical data label stuck on the fan body.

### GENERAL PRECAUTIONS

- The manual explains how to install correctly, use and perform maintenance on the product. Following these instructions will ensure that the product will be electrically and mechanically reliable and will extend its service life.
- Do not use this product for any purpose other than that for which it was designed and as illustrated herein.
- After removing the product from the packing, make sure that it has not been damaged. If doubts arise, immediately contact professionally qualified personnel.
- Do not leave packing parts within the reach of children or unskilled people. Do not dump any hazardous parts into the environment (polystyrene, plastic, polypropylene, etc.).
- If the product is dropped or badly knocked, immediately contact qualified personnel (authorised dealer or manufacturer) to check that the product operates correctly.
- The use of any electrical device requires compliance with some basic rules which are listed below:
  - do not touch the device with moist or wet parts of the body (hands, feet).
  - do not allow the product to be operated by children or unskilled people.
- Connect the product to the mains electricity supply or electrical outlet only if:
  - your electrical voltage and frequency corresponds to those shown on the rating plate.
  - the capacity of your electricity supply is sufficiently powerful to operate the product at its maximum power.If not, contact professionally qualified personnel.
- Before carrying out any maintenance or cleaning, switch off the product and disconnect it from the mains electricity supply.
- If a fault, malfunction or anomaly of any type occurs, make the device inoperative (by turning off the switch and by disconnecting it from the mains electricity supply) and immediately contact qualified personnel.  
Always request original spare parts to effect any repairs.
- If the product needs to be removed, turn off the main network circuit-breaker and then disconnect the device from that network.  
Place the device in a safe location far from children and/or unskilled people.
- The electricity system to which the product is connected must comply with the current standards regarding electrical systems (IEE WIRING REGULATIONS BS 7671) for the parts concerning the application of our devices.

### SPECIAL PRECAUTIONS

- The product is professionally manufactured and complies with the current standards regarding electrical equipment.
- The product conforms with the EEC directive EMC 89/336 concerning the suppression of radio interference and electromagnetic compatibility.
- Do not use the product at an ambient temperature greater than 40 °C (104 °F).
- Do not allow the product to be exposed to atmospheric agents (rain, sun, snow, etc.).
- Possible product installations are indicated in the attached illustrations.
- Do not place the device or relative parts in water or liquids, except where indicated in the cleaning and maintenance section.
- When cleaning or performing routine maintenance, check the condition of the device.
- To avoid the risk of fire, do not use the product in the presence of inflammable substances or vapours such as alcohol, insecticides, petroleum spirit etc.
- The air or fumes being extracted must be clean and free from greasy particles, soot, chemical and corrosive agents, inflammable or explosive mixes (If these substances are treated, contact an authorised dealer to consult the specific range of explosion-proof products).
- **The device must be installed by professionally qualified personnel.**
- The product must be connected to the electricity supply by means of a double-pole switch with a minimum contact opening distance higher than 3 mm or by means of a plug.
- To ensure optimum operation, do not block the air intake and delivery vents.
- For devices operating in ducts, make sure that the duct is not blocked.
- For optimum operation, ensure that the product is installed at a minimum height of 2.30 m above the ground.
- The room where the device is located must be adequately ventilated to ensure correct operation.
- If the device is sited in a room containing a fuel burning appliance, the installer must ensure that air replacement is adequate both for the device and the fuel burning appliance (BS5440 pt2).
- The device should not be used as an activator for water heaters, stoves, etc.
- The device must not exhaust into ducts designed to evacuate fumes coming from the combustion in stoves or other combustion-powered devices.
- The device must exhaust directly to the outside or have a single duct (for its exclusive use).

### INSTALLATION

- Please refer to Fig. 1 for installation instructions.
- The type of cable to be used is shown in Fig. 7.
- For window installation refer to the installation instruction of the window kit.
- The main supply cable can be inserted through the preset hole on the rear part of the fan or from the pre-set hole on the upper part of the front cover. In this case the cable grommet must be used (Fig. 1).

### OPERATION

**Standard version A25 and A80:** this fan is operated by means of a control switch (see wiring diagram Fig.4).

**Automatic version A25 and A80:** this model incorporates an automatic shutter which opens/closes a few seconds after the fan has been switched on/off (see wiring diagram Fig. 4). A red neon lamp indicates when the fan is running.

**Pull-cord version for A25 and A80:** operated by pulling the cord. Pulling the cord again turns the fan off (see wiring diagram Fig. 4).

**Timer version for A25 and A80:** please refer to Fig. 2 for adjustment of the timer. Turn the trimmer towards the "+" sign for a longer over-run period and for a shorter over-run period, turn towards the "-" sign.

These models can either be wired via a LIGHT SWITCH (Fig. 5), or via a REMOTE (ILLUMINATED) SWITCH (Fig. 6). In both instances the fans will start to operate when the light or remote switch is switched on, and will continue to run via the timer for the pre-set overrun time after the fan is switched off.

On the automatic/timer version there will be a few seconds delay before the shutter opens.

When the switch is off, also the red neon light is off and the fan continue to run via the timer.

**Version with timer and humidistat for A25HPT and A80 HPT:**

Please refer to Fig. 3 for adjusting the humidistat and/or timer (adjust the timer as described above); to adjust the sensitivity of the humidistat turn the trimmer marked "Hy%" towards the higher number to make it less sensitive to the level of humidity.

This fan incorporates an adjustable humidistat which is sensitive to the level of moisture (relative humidity) in the air. The fan operates automatically when the humidity reaches the pre-set level. The fan will continue to operate until it has removed the moisture from the air.

The fan can also be operated by the remote switch, light switch or pull cord independently of how much moisture there is in the air (Fig. 5 and 6).

When the fan is switched off, it will continue to run until either any humidity in the air has fallen beneath the pre-set level, and the timer has completed the over-run period. (Note: if you wish to run the fan **only** via the humidistat, connect terminals "L" and "N" only).

**Version with timer/humidistat, pull cord, 1 or 2 speed for A25 H2P and A80 H2P:** If you wish to run the fan **only** via the humidistat, connect terminals "L" and "N" only (Fig. 3).

The fan operates automatically when the humidity reaches the pre-set level (at the minimum speed in case of 2 speed version) and continues to run until any humidity in the air has fallen beneath the pre-set level and the timer has completed the over-run period.

The fan, when in stand-by, can be activated by pulling the cord (in case of a 2 speed version the fan is boosted to the maximum speed): the neon indicator shows when the fan is manually activated or in override mode. Pulling the cord again, the neon light is off and, after the overrun timer period, the fan reverts to the automatic operation by the humidistat to its stand-by position or, in case of a 2 speed version) at the minimum speed.

**MAINTENANCE AND CLEANING**

Before carrying out any maintenance or cleaning operations, disconnect the mains electrical supply.

**ORDINARY MAINTENANCE AND CLEANING**

Clean the front cover and the external shutters with a cloth.

**MAINTENANCE AND CLEANING CARRIED OUT BY A QUALIFIED PERSON**

- Remove the front cover (Fig. 1) and clean with a mild detergent or water.
- The motor-fan assembly should be cleaned with a dry brush or dry cloth. Ensure that it does not come into contact with any kind of liquid or solvent. If this should accidentally occur, contact a qualified technician before re-assembling the fan.
- Electrical parts cannot be cleaned.

**TROUBLE SHOOTING**

1. If the product is not working - check to see that the electrical connection has been properly made and that there is an electricity supply coming to the fan.
2. If the fan blade is not running - check to see that there is nothing blocking it.

For any other problems, please contact a qualified technician.

