



**Dry-Matic**

DELIVERING DRY HEALTHY HOMES

# Dry-Matic

## DM01B & DM07B with Attic Controller



*Attic controller*

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# Dry-Matic User Operation

## System Benefits

Congratulations on purchasing a Dry-Matic. Your Dry-Matic is designed to provide whole home ventilation 24hrs per day 7 days per week. This provides the benefits of:

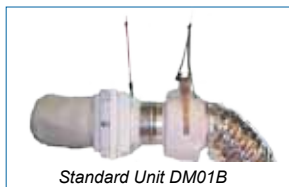
- Virtually eliminating condensation on windows and cold surfaces by forcing out moist stale air and replacing with relatively dry air.
- Reducing airborne concentrations of irritants, asthma causing allergens and smells by forcing out stale air and replacing it with fresh air.
- Heat recovery, recycles space heating energy lost to the roof space.
- Heat recovery, takes advantage of solar gain to the roof space on those sunny winters' days.



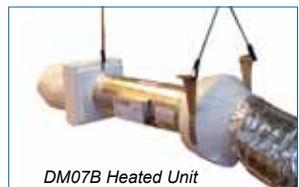
*Set and leave Summer Off thermostat at 27°C*

*Set and leave Hi/Lo (for DM01B) or Heater (for DM07B) thermostat at 15°C*

*Attic controller*



*Standard Unit DM01B*



*DM07B Heated Unit*

## Cleaning the filters

Although the Dry-Matic is designed to run continuously for years, the filters do need cleaning every 8 months or so for optimal performance (clean at least yearly).

When the hall controller display starts flashing - this indicates it is time to clean the filters.

The white filter bag can be machine washed on gentle cycle or hand washed - vacuum first to remove excess dust. Alternatively replace with a new one.

The carbon filter inside the filter box should be checked - if it is showing signs of dust and dirt, it can be vacuumed clean or replaced. It is recommended to clean or replace every second year.

You may prefer to get a professional to climb into the attic space to access the filters.



DMFS  
Filter Bag  
(air intake in attic)



DMFB  
Filter Box



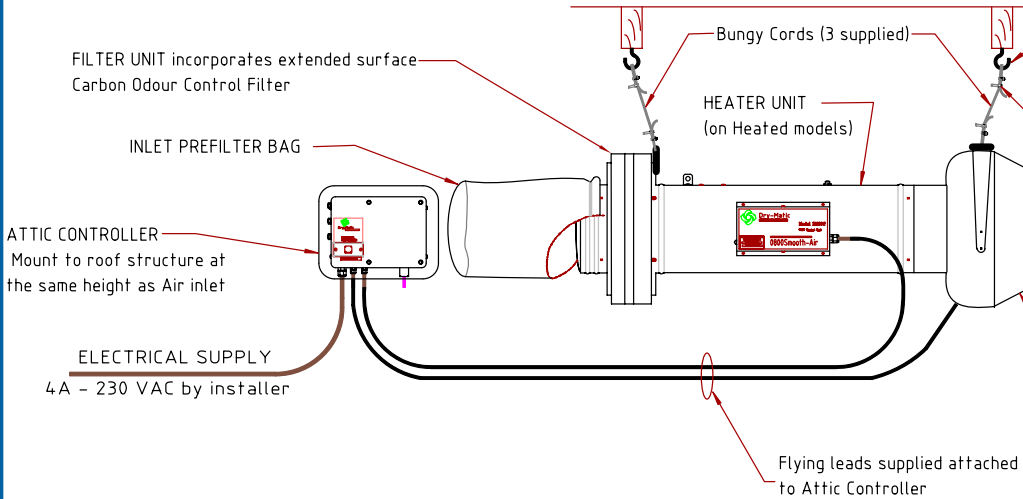
DMFC Carbon Filter  
(inside DMFB)

## Optional Heater

The DM07B units have been fitted with a thermostatically controlled duct heater that tempers the incoming air when it is cold in the attic.

Your Dry-Matic is essentially fully automatic in operation once commissioned to suit your home.

- **Anti Condensation Mode** - when the attic temperature is cooler than the house temperature, the Fan operates at trickle speed to provide background ventilation 24/7.
- **Auto Summer Shutdown** - when house is hot and attic is very hot  $>27^{\circ}\text{C}$ , the system shuts down until the attic temp decreases again.
- **Heater Mode** (*heated models only*) - if the attic is cold,  $<15^{\circ}\text{C}$ , the heater can operate to temper the incoming fresh air.



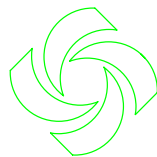
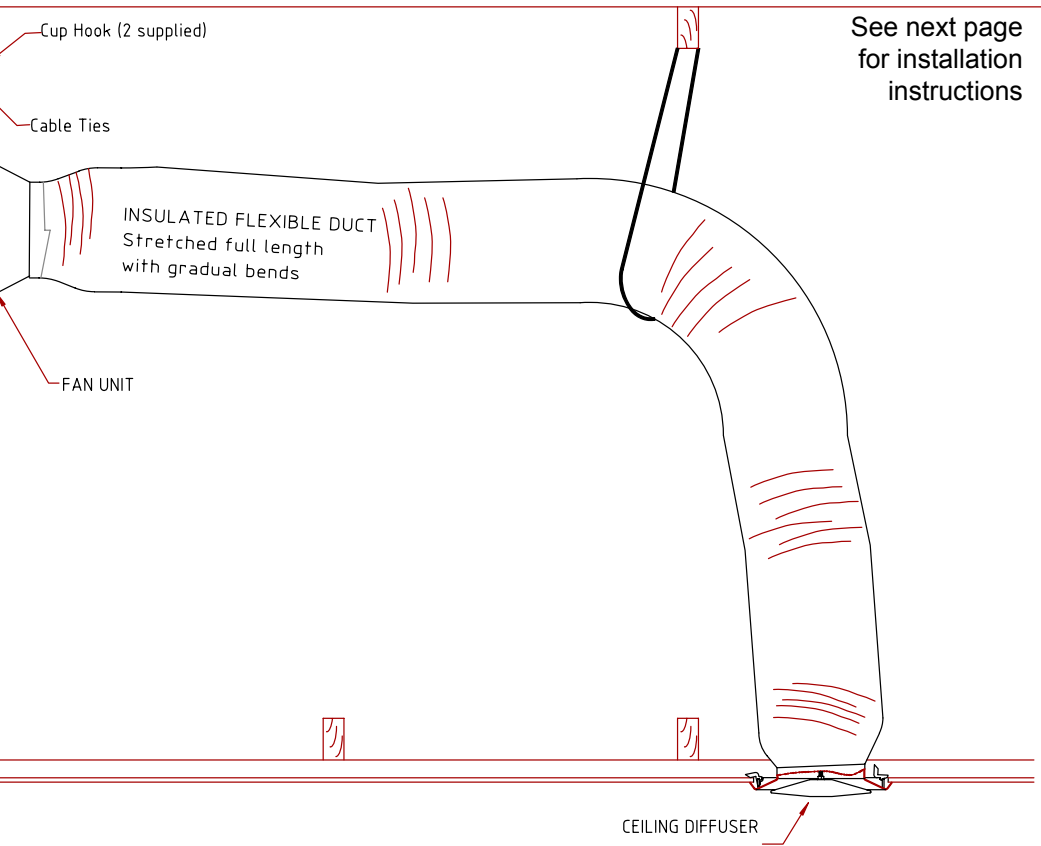
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SCHEM

# Installation Schematic



Dry-Matic

DELIVERING DRY HEALTHY HOMES

0800Smooth-Air

DRY-MATIC LAYOUT / INSTALLATION INSTRUCTIONS

June 2009

# Dry-Matic Installation Instructions

It is recommended these units are installed by a preferred installer, please contact us for a list in your area. Installation instructions are a guide only. All electrical connections are subject to NZ law.

## Pre-Installation checks

Before starting the installation, check the site & establish the best position/s of the following components:

**Diffuser** For most small to medium sized homes a single diffuser is usually all that is necessary. It is recommended this be installed into a hallway that is common to most rooms in the home. Installation of the main diffuser into the living / dining area is not recommended.

**Unit** The Unit comprises of the Fan, Heater (for DM07B) and Filter box. It is important to install the Unit so that it is as high as possible in the roof space, this is to maximize the benefit of any thermal gain. It also keeps the fan inlet air above dust which may come from the roof insulation. **IMPORTANT:** The unit must be installed in a perfectly horizontal position to ensure correct heater operation.

**Attic Controller** Is to be installed at the same level as the inlet to the fan, so as to best measure the inlet air condition (temperature) of the unit. The attic controller should be installed vertically, with the pack glands downwards. The attic controller can be fixed to the timber framing in the roof space.

**Ducting** Installation of ducting should allow for a full stretch and a smooth sweep onto the rear of the diffuser. This will have a marked effect on the effective operation of the unit air flow & attenuation of fan noise.

## Installation Procedure

Based on the above criteria:

- 1. Fit Diffuser** Before cutting hole for diffuser, check that it will clear ceiling joists and roof structure. Use circle template to cut correct sized hole in the ceiling. Attach duct to grille, taping the centre duct sleeve to the grille spigot then separately taping the insulation/outer to the spigot. Feed ducting through the hole and clip diffuser in place using the spring clips. Ensure grille has a minimum gap of 16mm between inner disk and outer collar.
- 2. Assembly of Unit** It is suggested that this is done in a clear space on the floor.
  - FAN: Mount fan brackets / hanging lugs to side of fan.
  - HEATER (on heated models): Fit to inlet of fan using 4 screws provided (note airflow direction for fan is shown by an arrow on the terminal cover). Ensure airflow direction arrow on heater is the same as direction on fan, ensure heater is mounted so marked top is installed upright.
  - FILTER BOX: Fit to heater (on heated models), or fit to the fan using the supplied collar, so that the hanging bracket is on the heater/fan inlet side. Ensure airflow direction arrow on filter is same as fan.
  - PRE FILTER: Fit white pre filter bag to inlet of filter box.
- 3. Pre Wiring** Using supplied flying leads, connect attic control unit to fan and heater (on heated models). Check wiring diagrams on components carefully. For 3 speed fans, wire to the high speed (black) wire as indicated on the fan junction box.
- 4. Installing in Attic** Lift assembled unit into attic space. Fit supplied cup hooks (x2) to roof structure. Clip supplied bungies (x3) to the three mounting points on assembled unit. Lift unit into position and hook other end of bungee cords over cup hooks. Attach duct to fan outlet, taping core and insulation/outer as before. Adjust length of bungies so unit is level and tighten cable ties to lock unit into position.
- 5. Mount & Set Attic Controller** Mount vertically, can be fixed to the timber framing. For DM01B & DM07B models, set the top "Summer Off" thermostat to 27°C, and the lower "Hi/Lo" (for DM01B) or "Heater" (for DM07B) thermostat to 15°C.
- 6. Power Supply** Connect a power supply to attic controller isolating switch (by registered electrician).
- 7. Check Operation** check the unit is operating correctly.

# Conditional Guarantee

## Dry-Matic Warranty Period

3 years from date of first retail purchase (see warranty)

## Guarantee Period

1 year money back conditional guarantee

The goods carry a one year money back conditional guarantee, effective from the installation date. The purchaser agrees to trial the unit for a minimum of 90 days during colder weather prior to activating the money back guarantee.

The vendor agrees to remove the goods (if guarantee is applicable) under the money back guarantee offer, if requested by the purchaser within the guarantee period. Removal means the Vendor will remove the goods at no charge for the removal work, and refund the cost of the goods, (as details above). Any vent or duct filling a hole or cavity in the ceiling that was installed as part of the installation of the goods will be left in place. The money back guarantee does not cover separate installation costs or the repair of the hole used by the unit. The cost for the repair of ceiling holes or other ventilation holes (if required) is either deductible from the refund or an additional cost payable by the Purchaser.

## WARRANTY RETURN

Please send to: Smooth-Air, PO Box 8358, Christchurch

Purchaser: \_\_\_\_\_

Address: \_\_\_\_\_

Description: Dry-Matic DM.... B \_\_\_\_\_

Date of installation: \_\_\_\_\_

Purchased from: \_\_\_\_\_

Installed by: \_\_\_\_\_