

## Warranty:

This Panfan system is guaranteed against faulty material and/or workmanship for 12 months from the date of purchase. The obligation of the manufacturer under this agreement is limited to replacing defective parts once received by Panfan Manufacturing Ltd or its distributor with proof of purchase. This agreement is void if installation was not in accordance with instructions or if the unit has been tampered with or damaged by accident, short circuit, loaded beyond rating or otherwise damaged by improper operation. This warranty does not cover the filter.

## Disclaimer:

Neither Panfan Manufacturing Ltd nor Panfan Marketing Ltd will be liable for any loss or damage whatsoever to persons or property during installation or as a result of faulty workmanship.

## Warranty Claim:

In the event of a warranty claim, we apologise for any inconvenience caused and be assured that your request will be taken seriously and as quickly as possible.

Please provide:

- 1) proof of purchase and a small description of the fault and
- 2) return the complete product to your local agent office:

## Trouble Shooting Guide

Using this guide and referring to the instructions should help you solve most problems you may encounter

PROBLEM	POSSIBLE CAUSE	SOLUTION
Smell still apparent (kitchen film test. Film across pan should concave when fan is on)	No vacuum in toilet pan – tank air cavity may not be adequately sealed. Fan running in reverse.	Check the fan runs continuously while toilet is occupied. Ensure tank is suitably sealed, particularly around any holes in rear of tank (for pipe entry) Panfan only extracts odors from within the pan. Therefore some user habits may create odor from outside the pan, which will not be extracted.
Fan not running at all	Power is not connected. Fan can not turn	Check power is on Check cable connections Foreign object causing failure. If fan has been installed horizontally it may be flooded.
Gurgling Sound	Water has been trapped in the odor vent pipe or fan causing impaired airflow	Check that the odor pipe has entered the tank above the overflow pipe height of the tank.  Fan and all pipe work must be installed so as not to trap moisture. Pipes must fall to the tank or to the outlet.
Fan appears noisy	Fan has sucked fine sanding dust  Fan incorrectly fitted	A dusty environment if unfiltered will damage the fan. At time of construction, intake pipe entry, should be sealed.  Fan should not be in contact with pipe or timber framing etc.

Worldwide Patents Granted and Pending

Panfan is a Registered Trademark of Panfan Manufacturing Ltd

Panfan reserves the right to alter or amend specifications and designs without notice.

For safety, products should be installed by a competent person, in accordance with current regulations and the manufacturer's instructions.

Complies with: CE, UL Listed, C Tick, FC, G1 Hygiene, G4 Ventilation, G9 Electricity, P2.4.5 Ventilation and F4 Light and Ventilation (NZ)

For further info on our range of models including filtered options:

[www.panfan.co.nz](http://www.panfan.co.nz)

Product is made in New Zealand since 1994

November 2021

model – PFV

panfan  
a breath of fresh air

## Installation Instructions model – PFV

This model fits Any & Every toilet!  
Including - In-wall, and Ceramic Tanks.

**ODORS DO NOT ENTER THE ROOM – EVER!**

*Branz cert no. 358 states that no other ventilation is required where there is no other source of moisture or contaminant – no ceiling fan required.*

To ensure that your installation proceeds smoothly, please ensure you read and understand all instructions before commencement.

The installer is responsible for any damage resulting from incorrect installation.

This product must be installed by a suitably qualified tradesperson before warranty will apply.

## Product Technical Information

**THE FAN UNIT:** model - PFF103  
Size: 75mm diameter (reduce to 50mm) 200mm length  
Motor: 6 v dc (17.5v dc max)  
Current Loading: 1.2A dc (max)

**POWER ADAPTOR:** model - PFT301  
Input power: 230 – 240V 50Hz  
Maximum current Loading: 1.2A (max)  
Output: 6.0v dc



## FAN INSTALLATION

### OVERVIEW

This system does not interfere with toilet function or aesthetics.

The fan must run continuously while the toilet is in use only. Once the toilet has been flushed, there is no longer any need for the fan to run.

The fan gently draws air from the room, through the toilet via the overflow pipe, to the outlet taking the odor with it and expelled outside using up to 20 meters of 40mm pipe.

This process creates a negative pressure within the air space of the tank.

These instructions have been written for use by trade persons only. The trade person must exercise their skills and knowledge of the toilet system to achieve the product objectives as each installation may differ.

Therefore the following are NOT step by step instructions, but are guidelines only.

### PRE- LINE PIPING

Pipe work is to be 40mm and up to 20meters in length.

Caution : Fine dust should be stopped from entering pipe during construction as it could damage fan motor when powered up.

#### IN WALL TANK

- Drill a hole in the top of the tank.
- Fit 40mm valve socket and connect pipe work

PLEASE NOTE : The tank air cavity must be suitably sealed with silicon or duct tape so as to reduce vacuum loss. eg. spare water inlet hole, open joints between tank proper and top cover.



#### CERAMIC or PLASTIC TANK

- Pipe work is to exit wall to enter tank just under the lid.

CAUTION : ensure that if cutting a hole in ceramic tank that care is taken to avoid damage as vitreous china is fragile.

Cutting ceramic. There are two commonly used methods used – can refer to glass cutter or tile shop

1. mark tank to match pipe
2. Angle grinder (approx 2 minutes) - cut a series of slots 5mm apart with a tile cutting disc. Break off with finger.
3. Drill (approx 10 minutes) – use diamond tip hole saw
4. Use sealant around pipe and water inlet (if it enters through back of tank)

NOTE a 30mm (minimum) entry hole into tank is required

3. All pipe work must fall to an outlet or back to the tank to drain condensation.
4. For vertical and awkward framework penetration, a 32mm quality pool hose maybe used but care MUST be taken to ensure correct fall for any moisture to drain out to avoid gurgling or cause a blockage.
5. Pipe vent can exist building through suffet, wall, wooden floor or roof but must have rain hat or bends to prevent excessive water entry.

NOTE : Check your local bylaws for odor ventilation terminations.

### FAN

6. The fan can be mounted anywhere in-line but, MUST be located so that servicing can be carried out at any time after installation. eg in cupboard, accessible ceiling space, above roof, under wooden floor, outside wall etc.
7. The fan can be installed at any angle but must NOT be installed in a horizontal position so as to hold moisture as motor failure would be inevitable.
8. DO NOT GLUE fan to pipe but leave a 5mm gap and join using foam supplied. Ensure pipe work is secured to prevent foam joint failure over time. Cable ties are to secure foam to pipe and fan.
9. To test air draw through toilet, seal the bowl with kitchen film. Let air in and watch film. Should tighten (concave) with fan running.

### ELECTRICAL

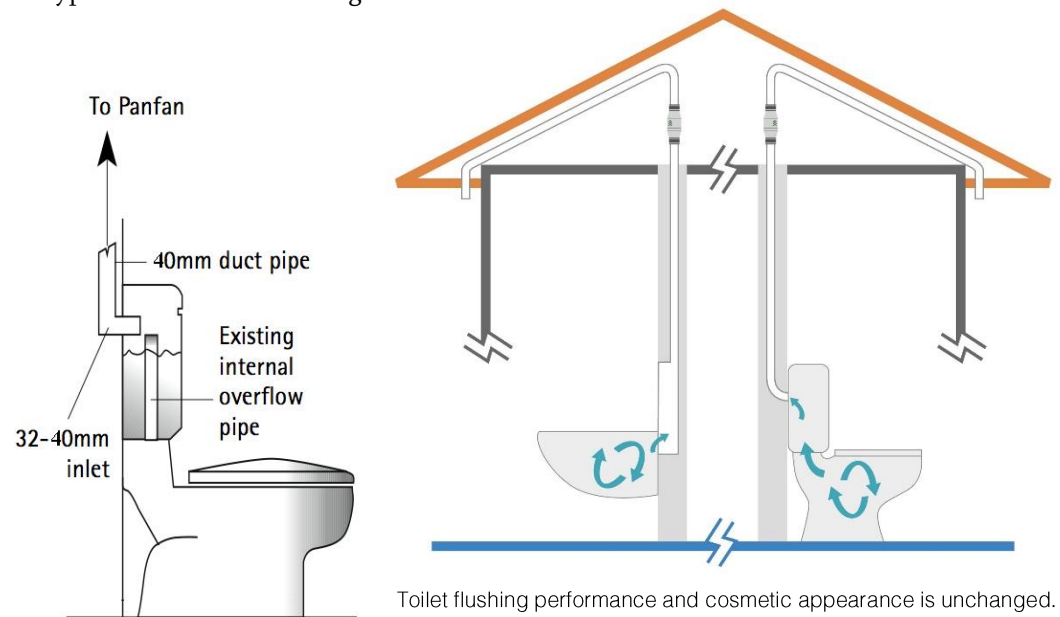
10. Connect the Power Supply (P/S) to a continuous power source and locate in suitable position for easy servicing. eg in ceiling or inside wall cavity (it is suitably sized to fit through a standard light switch hole) and place on nog.

The power supply will only supply one fan. The fan should not run for prolonged or unnecessary durations.

### SWITCHING

11.
  - Automatic Sensing control - use panfan model PFSRF wireless auto sensor
  - Push button Timer Switch - use panfan model PFSM – Run time of 2.5 minutes approx
  - Manual switching either connect P/S to light switch or locate a switch on wall beside toilet

## Typical Fan Installation Diagrams



**IMPORTANT: ALL PIPE WORK MUST FALL TO AN OUTLET TO DRAIN ANY CONDENSATION.**

