AIRVARO System user manual

How to set up, run and pack away a pressure test with the AIRVARO System, and record the job in the AIRVARO Passport App.

DOCUMENT	VERSION	UPDATED	OWNER
AV-MAN-001	1.2 · Approved	22 Nov 2026	Jason Potter

What the AIRVARO System does

The fan pressurises the van through a roof hatch, and the gauge shows the pressure difference between inside and outside. Soapy water sprayed on the exterior seals and joints bubbles wherever air escapes.

The test finds potential water entry points to guide repairs. It doesn't replace a moisture meter or an inspection: check for existing moisture or damage separately.

01
Drop-off
Start the job and photograph the van.

02
Set up
Fit the adapter, duct and batteries.

03
Test and record
Pressurise, find each leak and record it.

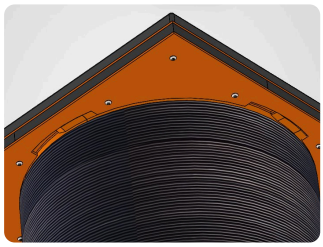
04
Report
Send the owner the findings and quote.

05
Retest
Test the repair, then pack up.

Identify the parts



Roof hatch adapter and mount
Seats on a compatible 450 × 450 mm hatch opening.



Twist-lock duct adapter
A lightweight joint that makes connecting the duct to the hatch adapter simple.



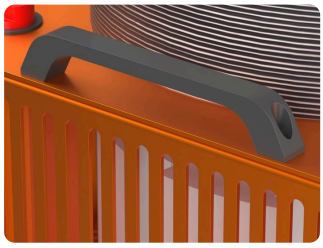
Differential pressure gauge and air lines
Measures the pressure differential: the air pressure variation between inside and outside the van.



Fan speed control
Sets the fan speed. Start at the lowest setting and raise it gradually.



Red battery isolator
Turns the battery power on and off.



Carry handles
For lifting and moving the unit between jobs.



Removable battery packs
Two 18 V battery packs power the fan without cords, in the shop or on the road.

PICTURES ARE DESIGN RENDERS.

DROP-OFF

When the van arrives

The AIRVARO Passport App leads every job one prompt at a time, from drop-off to report. Follow its prompts; this manual explains each step.

> **Before taking a booking.** Check the hatch size, profile and access with the owner. The adapter fits a 450 × 450 mm roof hatch; check any other size with AIRVARO first.

1. **Start a new leak test job**
   As soon as the van is on site, the service advisor opens a new leak test job and enters the owner's details, chassis number and rego. Photograph the chassis number and check it against the entry.

2. **Photograph the van**
   In the app, take a wide photo of the front, rear, left and right sides. The roof photo comes later, once there's safe access. The job saves as a dated, time-stamped draft for the technician.

> **Why start at drop-off.** The photos record the van's condition on arrival, in case of a later damage complaint, and the technician can start the moment a bay is free.

SET UP

Prepare and fit

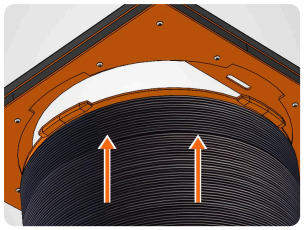
> KEEP THE AIRVARO SYSTEM DRY
> Don't test a van parked outside in the rain: water can enter the fan through the hatch and damage the electronics. If rain starts, shut down (step 17).

3. **Open the job and prepare the area**
   On your phone, find the van's draft job in the AIRVARO Passport App by customer name or chassis number, and check the photos match the van. Keep the job open: you'll record each leak in it as you go. Lay protective covering on the floor and stand the unit on a level, solid surface. Check the unit, duct, seals and gauge lines for damage, and wear the protective equipment your WHS procedures require.

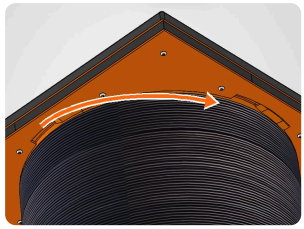
4. **Isolate the gas and cover the vents**
   With the van empty, switch off the gas appliances and isolate the gas supply. Tape cardboard over the wall and entry-door vents that the van's instructions allow you to cover.

5 Fit the hatch adapter and connect the duct

With the battery isolator off, fit the hatch adapter from inside the van and tension it with the strap. Seat the twist-lock end of the duct into the adapter and twist gently to lock it. The other end stays connected to the fan.



1 Line up the lugs with the slots and push up.



2 Twist gently until it locks.

6 Check the pressure line

The pressure line is fitted at the factory. Check it's still connected to the pressure port on the adapter plate, secure and free of kinks, or the gauge won't read accurately.

7 Fit the batteries

Fit two approved packs, both fully charged. Keep them together as a matched pair: use, swap and recharge them together, and never pair a full pack with a flat one.

TEST AND RECORD

Run the test and record each leak

8 Start at the lowest speed

Set the fan speed to its lowest setting, then turn on the red battery isolator. Raise the speed gradually while watching the gauge until it reads about 70 Pa. Every van is different, so treat this as a starting point. Stay within the approved limits for the van and the AIRVARO System, and stop if the pressure is unstable.

9 Photograph the AIRVARO System running

When the app prompts, take one photo of the AIRVARO System fitted and running, and one of the gauge and fan speed display together. Enter the gauge reading in the app.

> ROOF ACCESS
> Where you can, spray the roof from the ground with a long-reach nozzle. Any ladder or roof access needs approval from the foreman or service advisor, and must follow your workshop's WHS policy.

10 Check the exterior seals

Spray soapy water on the seals and joins you can reach, keeping the spray off the fan and batteries. No bubbles where you expect a gap? Check the mix first: too little detergent stops bubbles forming. If there are still none at a spot you're sure is a leak, raise the pressure to around 100 Pa, then a little higher if needed. How far it goes depends on the size of the van and how well the vents are sealed.

11 **Record each leak the moment you find it**

Record it while the van is still under pressure: later the spot is harder to pin down, and the bubbles, your key evidence for the repair, are gone.

- Pick the fixture from the app's list (windows, hatches, doors and so on). For a leak that isn't on the list, touch the spot on the wide photo to add a custom leak point.
- Take a close photo of the fixture and a close photo of the bubbles.
- Add a short description, the repair method and your estimated hours. The app adds the hours to the quote as you go.

12 **Photograph the roof**

With safe access set up, take a wide photo of the roof in the app, or several if needed to cover the whole surface.

REPORT

Send the findings report

Send it straight after the test, with the AIRVARO System still set up.

13 **Record what you couldn't check**

Note any area you couldn't check, and why.

14 **Review, approve and send**

Check the owner's details, chassis number, photos, leaks and quote, approve the report and send it. The owner gets a dated PDF by email and an SMS, the workshop gets a copy, and the owner's approval of the quote comes back to the workshop. Once sent, the report can't be changed. If the schedule allows, call the owner to remind them to view it and approve the repair.

Online report links and booking reminders are coming soon.

RETEST

Repair, retest and pack up

15 **Repair, ideally with the AIRVARO System still set up**

Once the owner approves, leaving the equipment in place for the retest is usually the best use of the bay and the technician's time. If the sealant needs a long cure (some take 24 to 48 hours), shut down (step 17) and use the equipment on other jobs in the meantime.

16 **Retest the repaired areas**

Wait for the sealant maker's curing time, then repeat steps 8 to 11 on the resealed areas. Add the results to the original job, including anything that still needs attention. Don't start a new leak test: the retest completes the original record.

17 **Shut down and restore the van**

Turn the fan to its lowest speed, then turn off the red battery isolator. Once the fan stops, untwist the duct from the hatch adapter (leave it on the fan) and remove the adapter. Remove all cardboard and tape, and check the vents are clear before restoring the gas or handing the van back.

CARE

Troubleshooting and care

IF THIS HAPPENS	DO THIS
The mount or duct shifts	Turn off the battery isolator. Check the mount, fit and duct connection before carrying on.
The pressure is unstable	Stop the test. With the isolator off, check the mount, duct, gauge and air lines. If it keeps happening, contact AIRVARO.
Damage, water or heat	Stop if the unit is damaged, wet or unusually hot. Keep it out of service and follow your site procedure for equipment or battery faults.

Care and storage

Turn off the isolator before cleaning. Keep the housing, air openings, duct, adapter seal and gauge lines clean and dry. Charge and store batteries as their maker instructs.

Warranty and service

12-month Australian warranty covering manufacturing faults and hardware failures. For any fault that needs the enclosure opened, contact AIRVARO through airvaro.com.au.

Revision history

VERSION	DATE	BY	CHANGE
v1.2	22 Nov 2026	Jason Potter	Test pressure from about 70 Pa (Jason, 22 Nov 2026, D-147)
v1.1	20 Nov 2026	Jason Potter	Test pressure changed to 75 to 100 Pa (Jason, 20 Nov 2026)
v1.0	11 Nov 2026	Jason Potter	First issue