



## COMMISSIONING PRESSURISED CABINS WITH BREATHE-SAFE INPRESS UNITS FITTED

The below instructions give a general guide to cabin sealing, testing and commissioning Breathe-Safe variable speed pressurisation units (Clean cabin with HEPA vacuum).

1. Inspect the cabin and ensure all cover panels are in place and any holes are sealed with grommets, sealer, fit new door seals for used equipment, etc.
2. Sitting inside the cabin with the door open, turn on the ignition to power up the unit.
3. The pressuriser fan should power up to full speed, and the monitor should indicate 0 pressure (Allow  $\pm 2$  pascals wind gusts).
4. With the ignition on, close all doors and windows. If the cabin is adequately sealed, the monitor should indicate the set pressure of approximately 50 Pa (Pascals) or whichever preset has been chosen.
5. Once a pressure of approximately 50 Pa is confirmed, hold the down arrow button for approximately 10 seconds to run the fan speed at max speed. The display will indicate "MAX FAN SPEED" before showing the maximum cabin pressure.
6. INPRESS TL with Auto Pressure Control (5400 RPM) the cabin pressure should be above 250 Pa (The minimum is 250 pascals tested with a new TLF700EN HEPA filter). A result of 500 pascals is ideal.
7. If the above pressure is not achieved, leave the unit on full speed and investigate for external leaks outside the cabin: e.g., A/C outlets, drains, window & door seals, locks & hinges, etc.
8. If necessary, with the ignition on, controller on 'MAX FAN SPEED', A/C blower OFF and all doors and windows closed, set off a smoke emitter inside the cabin (SWP attached).
9. Locate any air leaks around the cabin and re-test. If silicone sealant or similar is used, allow it to dry before retesting, as even slamming the door could push the seal back out.
10. Continue the sealing and testing procedure as above until a satisfactory outcome is achieved.

Fill out the record below and attach photo evidence of maximum pressure result and NANOZEN Real-time Dust Monitoring result to register for warranty.

### PRESSURISER INSTALLATION RECORD

MACHINE TYPE:	<input type="text"/>		
MODEL NUMBER:	<input type="text"/>		
SERIAL NUMBER:	<input type="text"/>		
DEALER / AGENT:	<input type="text"/>	Ref:	<input type="text"/>
Fresh Air Filter:	TLF700EN / <input type="text"/>	Return Air Filter:	<input type="text"/>
Activated Carbon:	<input type="text"/>		
OEM fresh air filter: (Discarded filter)	<input type="text"/>	OEM recirculation filter: (Discarded filter)	<input type="text"/>
Max Pressure Result:	<input type="text"/> Pascals	Pressure Set Point:	<input type="text"/> Pascals
Actual Cabin Pressure:	<input type="text"/> Pascals	Motor Capacity: (TLUCMPTL)	<input type="text"/> % At Installation
Fresh Air Disconnected :	TICK YES: <input type="checkbox"/>	TICK NO:	<input type="checkbox"/>
NANOZEN Real-time cabin test result: (Test any HVAC vent to audit HEPA H14 pressuriser system)	<input type="text"/> ug/m3	NANOZEN Real-time cabin test result: (Five-minute Breathing Zone test within an empty cabin - closed door & window/s).	<input type="text"/> ug/m3
Installer:	<input type="text"/>	Date:	<input type="text"/>
Notes	<input type="text"/>		

## Installation images required to develop INPRESS TL manual.



ID plate / Serial Number.



INPRESS TL location.



HEPA return air filter location  
Option: TLI air scrubber.



DISPLAY location  
Including the cabin's MAX pressure result.



Final - INPRESS TL installation  
(Entire machine with a preference  
for images without objects such as ladders,  
tools, etc.).

## Audit guidance images - NANOZEN DustCount monitor



### Audit INPRESS pressuriser

The pressuriser system is working.

Turn on DustCount, which is then placed at HVAC vent to test HEPA H13 pressuriser system.

The test result must be zero for mass concentration.  
(MC: 0.000ug/m3)

Any higher above 1.000 ug/m3 concentration may indicate a broken seal or damaged filter.



### Empty Cabin Audit.

Place DustCount monitor for sampling the breathing zone of the operator.

Place the DustCount monitor as per the image on the left. The monitor should be placed with a good view from outside of the cabin to record and take a photo of mass concentration after 5 minutes.



The test result must be zero mass concentration (MC)

Any higher concentration may indicate a broken seal or damaged pressuriser filter.

\*Please note the DustCount preference is to register readings in ug/m3.



## CABIN SEALING TEST PROCEDURE

- 1- Start Engine - Pressuriser must be ON.
- 2- Ensure all windows & doors are CLOSED Correctly.
- 3- Hold down button on INPRESS controller down button for 10 seconds as per image below.  
\*This will force the blower motor onto MAXIMUM speed & still display the cabin Pressure.
- 4- Photograph maximum cabin pressure and add result in the attached pressuriser installation record.



\*\* To exit Service Test Mode press the Mute button for 2 seconds

Note: For a new cabin with effective seals you may need to open window slightly before closing the door to bleed the static cabin air pressure outwards.

Once door is fully closed then close windows to begin testing.

**DO NOT** use this test unless you have read and understood below  
in its safe use and operation and have been given authorization

## Smoke Emitter Cabin Pressure Leak Test:

1. The pressuriser system is switched on (TEST MODE)
2. Hold the smoke emitter angled down
3. Heat the top of the emitter with a cigarette lighter for a few seconds
4. When the product ignites remove lighter
5. If the product flames up blow out the flame
6. Place the emitter in a non-flammable container and place it inside the cabin and close door/windows
7. Observe smoke leaks to indicate worn-out or broken seal locations
8. Do not come into contact with or inhale smoke haze
9. Wait until smoke haze completely disperses before re-entering the cabin

## PERSONAL PROTECTIVE EQUIPMENT



Safety glasses must be worn at all times.



Respiratory protection devices may be required.



Gloves may be worn.



Sturdy footwear with rubber soles must be worn.

## PRE-OPERATIONAL SAFETY CHECKS

- ✓ Locate and ensure you are familiar with all machine operations and controls.
- ✓ Check work area and walkways to ensure no slip/trip hazards are present.
- ✓ Ensure the work area is clean and clear of any flammable material.

## OPERATIONAL SAFETY CHECKS

- ✓ Ensure machine is correctly isolated / immobilized.
- ✓ Ensure other persons do not inhale smoke haze.
- ✓ Take care and do not place a lit emitter close to a flammable surface.

## ENDING OPERATIONS AND CLEANING UP

- ✓ Leave the work area in a safe, clean and tidy state.

## POTENTIAL HAZARDS

- ⓘ Falls
- ⓘ Fumes.

## DON'T

- ✗ Do not use if an open flame is forbidden.
- ✗ Never leave the emitter [cabin test] unattended.

This SWP does not necessarily cover all possible hazards associated with this equipment and should be used in conjunction with other references. It is designed as a guide to be used to complement training and as a reminder to users prior to equipment use.