

F2 SMOKE BLOWER

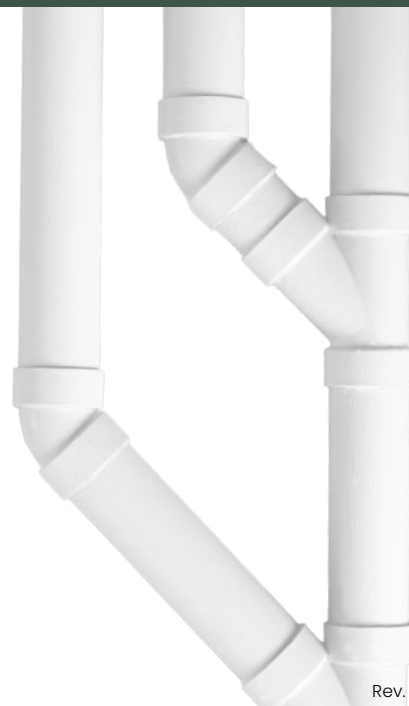
Owner's Manual & Operating Guide



[Smoke Test Training
Video Available Here](#)

IMPORTANT NOTICE

This document is provided for general informational purposes only. Smoke testing must be performed only by trained professionals using equipment designed specifically for plumbing smoke testing. Blowfish Smoke Test Solutions assumes no responsibility for improper use of equipment, failure to follow applicable codes, or damages resulting from deviation from manufacturer instructions or local regulations. This document does not replace professional judgment or site-specific safety planning.



info@blowfishsmoke.com



www.BlowfishSmoke.com

Rev. 1.0

Thank you for purchasing the Blowfish F2 Plumbing Smoke Blower. We're a family-owned, U.S.-based manufacturer, and we truly appreciate your support. Our mission is simple: build dependable tools that make plumbers' jobs easier, faster and more profitable. Thanks again for choosing Blowfish. We're proud to have our equipment working alongside you.

-Blowfish Smoke Test Solutions

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1. Product Overview

The Blowfish F2 is a professional-grade plumbing smoke blower designed to introduce calibrated airflow and visible smoke into DWV plumbing systems and sewer systems. It is used to help locate leaks, breaks, improper connections, and other defects in the system. The F2 is designed for both residential and commercial building plumbing and is intended for use by trained plumbing professionals.

What the Blowfish F2 Is Not:

- Not a consumer or homeowner product
- Not a ventilation fan
- Not an air mover for occupied spaces
- Not designed for hazardous or explosive environments

Using the blower for any purpose other than plumbing smoke testing can damage the equipment and create serious safety risks.

2. Legal Notice & Terms of Use

Blowfish Smoke Test Solutions LLC (the “Company” or “Blowfish”)

The Blowfish F2 Plumbing Smoke Blower is professional equipment intended for use by trained plumbing professionals only. It is not a consumer or homeowner product. Using this equipment requires proper training, experience, and good judgment.

Smoke testing involves inherent risks. By using this equipment, you accept all risks related to its use and the jobsite environment.

This manual does not replace professional training or knowledge of plumbing systems. Users are responsible for following all local, state, and federal codes, regulations, and jobsite safety rules. Blowfish makes no guarantee that use of this product will meet every local code requirement.

Use only Blowfish-approved accessories and smoke fluid. Do not modify the blower or use unapproved parts or consumables. Improper use, misuse, lack of maintenance, or unauthorized modification can create safety hazards and will void any warranty.

To the fullest extent allowed by law, Blowfish is not responsible for injury, property damage, lost profits, or other indirect or consequential damages related to use or misuse of this product. Blowfish’s liability, if any, is limited to repair or replacement of Blowfish manufactured equipment.

By using this equipment, you agree to hold harmless and indemnify Blowfish from claims or losses resulting from improper use or failure to follow instructions.

If you do not agree with these terms, do not use the equipment.

3. Safety Information

Read and follow these warnings before operating the Blowfish F2 Smoke Blower. Failure to do so can result in injury, equipment damage, fire, or electrical shock.

Equipment Safety

DANGER

- The F2 Smoke Blower operates on 120V AC voltage ONLY. Incorrect voltage can cause electrical shock, burns, or fire.
- Plug the blower into properly grounded, protected circuits ONLY. Never bypass grounding.

WARNING

- Operate the blower on a flat, stable, surface, with adequate ventilation and clear space around the unit.
- Keep the blower away from flammable gases, vapors, or materials.
- Do not disassemble, modify, or repair the blower. There are no user-serviceable parts inside.
- Operate only by trained professionals. Keep children away at all times.
- Do not leave the blower running unattended.
- Do not operate the unit upside down or at extreme angles.
- Store smoke fluid in a cool, ventilated area, out of direct sunlight and out of reach of children.

CAUTION

- Keep the blower dry at all times.
- Fill the smoke fluid tank before operation. Do not run the blower dry, as this can damage internal components.
- Drain the fluid tank before transporting the unit.
- Operate only in areas with stable voltage.
- If abnormal noise, vibration, or malfunction occurs, shut off power immediately and unplug the unit.
- Use only Blowfish F Series Smoke Fluid and Blowfish accessories with the F2 Smoke Blower. Using other fluids or additives can damage the blower and building plumbing. Improper consumables can also create a safety hazard.
- Turn power off and unplug the blower when not in use or before cleaning or servicing.
- Inspect the blower, hose, and connections before each use. Do not operate the blower if any part is damaged, loose, or missing.

General Safety

- Use this equipment only for plumbing smoke testing.
- Do not use the blower if you are tired, impaired, or unfamiliar with the equipment.
- Keep bystanders, occupants, and pets away from the test area during a smoke test
- Read and understand the DWV Smoke Testing Procedures section of this manual before performing a smoke test
- Never enter a confined space without proper training and precautions.
- Never use the blower in explosive or hazardous environments.
- Never aim smoke output toward people or animals.

Smoke & Air Quality

- Smoke is for leak detection only, not breathing.
- Avoid inhaling smoke and avoid prolonged exposure.
- Stop the test immediately if smoke accumulates excessively indoors.
- Do not enter an interior space with excessive smoke accumulation.
- Ventilate any residual indoor smoke before allowing reoccupation of the building.

Indoor & Occupied Space Use

- Notify the owner and occupants of the building being tested. Ensure no disabled persons or confined pets are on-site who cannot actively avoid smoke. Building should be vacated during smoke testing, except for inspection personnel.
- Protect sensitive materials, finishes, and inventories.
- Monitor smoke movement at all times to prevent unnecessary exposure or damage.

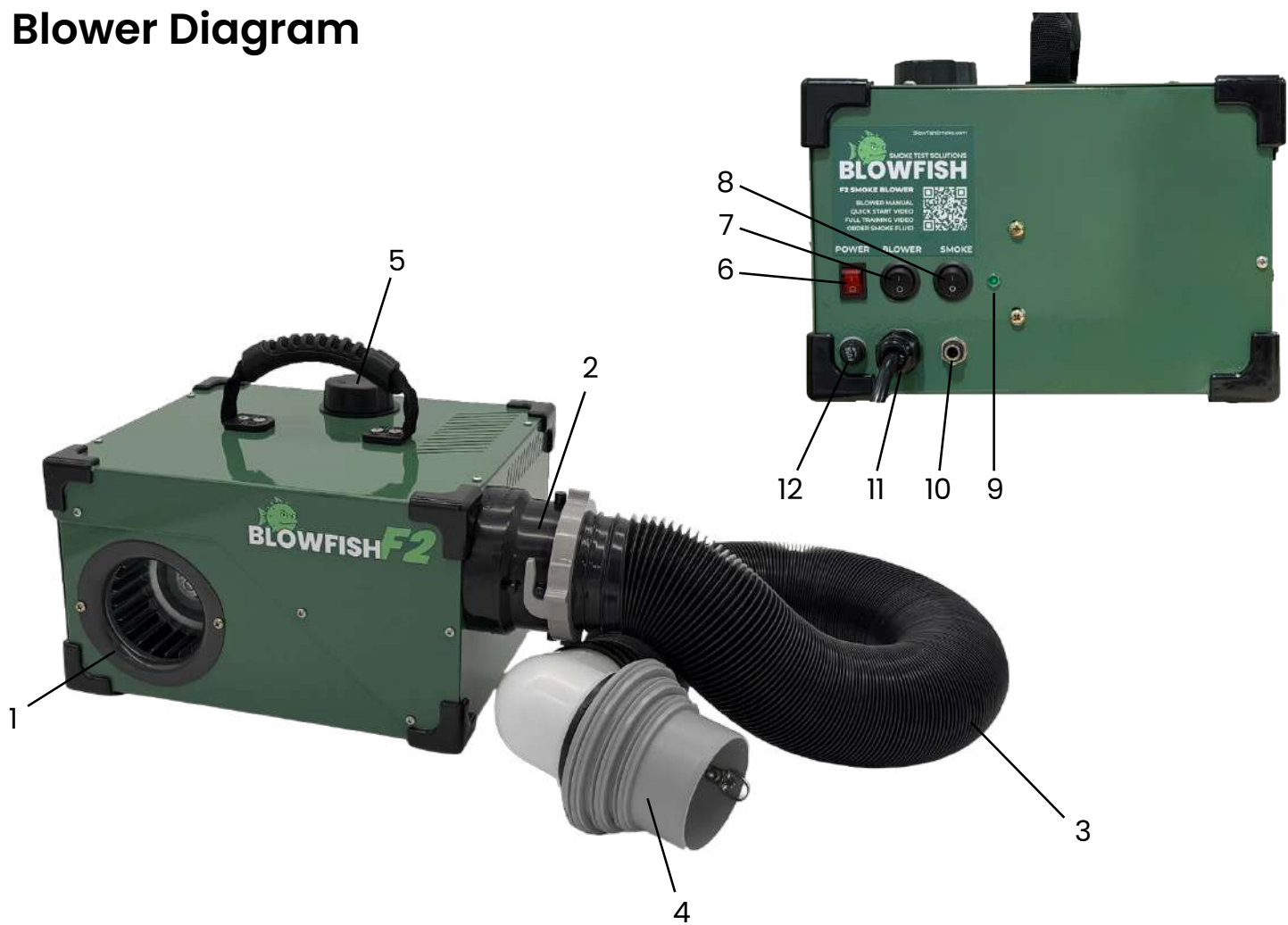
Emergency Situations

- Stop the blower immediately if unsafe conditions develop.
- Shut down the equipment if unusual noise, vibration, or overheating occurs.
- Seek medical attention if smoke exposure causes irritation or distress.

Smoke testing can be hazardous if not performed correctly. Read and understand the DWV Smoke Testing Procedures section of this manual before performing a smoke test.

If you're unsure about any aspect of safety, do not proceed. Review this manual or contact Blowfish support (info@blowfishsmoke.com) before continuing.

4. Blower Diagram



1	Blower Intake
2	Hose Coupler
3	Blower Hose
4	4-in-1 Cleanout Adapter
5	Fluid Bottle
6	Master Power Switch
7	Blower Switch
8	Smoke Switch
9	Blower Status Indicator Light
10	Remote/Receiver Jack
11	Power Cord
12	Fuse

5. Quick Start Operating Instructions

These operating instructions serve as a quick start guide to help you set up the blower and understand basic operation. They do not cover all steps required for a safe and proper smoke test. After reading this section, read and understand the **DWV Smoke Testing Procedures** section of this manual before performing a smoke test.

Setup

1. Place blower on a level surface and attach hose to the blower.
2. Fill fluid reservoir at least halfway with **Blowfish F Series Smoke Fluid ONLY**. It is recommended to leave at least a 1" air gap to the top of the fluid reservoir.
3. Detach Cleanout Adapter from hose elbow and screw it into the plumbing access point. Teflon tape can be used to ensure a leak free connection.
4. Attach hose elbow to Cleanout Adapter.
5. Make sure all switches are off and plug in blower.

Operation

1. Turn master power switch ON – Within a few seconds the green indicator light will start to flash. This indicates the blower is warming up (approx. 2 minutes). Light will turn solid green when warm up is complete and blower is ready for use.
2. Turn "Blower" Switch ON – verify there is unrestricted airflow.
3. With the "Master Power" and "Blower" switches already ON: turn the "Smoke" switch ON.
4. After smoke test, tip blower forward to pour any condensation out of the blower barrel that may have accumulated during the test.
5. Wipe down housing and barrel after use. Store blower and consumables cool and dry.

6. Pipe Plug System Instructions



The Pipe Plug System provides greater control over smoke flow direction during a smoke test. Use pipe plugs as needed to prevent downstream smoke loss, isolate sections of plumbing, or otherwise direct the flow of smoke.

1. Use deflation chuck to deflate plug.
2. Detach cleanout adapter from blower hose elbow.
3. Attach plug tether to the cleanout adapter anchor point.
4. Attach air extension hose to plug
5. Place plug into target pipe
6. Attach air pump to air extension hose and inflate plug until it is snug in the pipe. DO NOT over-inflate (15 PSI MAX).
7. Detach air pump from air extension hose.
8. Detach air extension hose from plug if accessible. It is okay to leave the air extension hose attached if inaccessible.
9. Fold excess air extension hose and tether into the piping.
10. Screw cleanout adapter into cleanout and attach hose elbow to cleanout adapter.
11. Perform smoke test.
12. After test, deflate plug with deflation chuck.
13. Extract plug with tether.

7. DWV Smoke Testing Procedures

Site Prep

1. Notify the owner and occupants of the building being tested. Ensure no disabled persons or confined pets are on-site who cannot actively avoid smoke. Building should be vacated during smoke testing, except for inspection personnel.
2. Ensure no wastewater will flow through the plumbing system during the smoke test.
3. Locate the best attachment point. (Figure 1)

The objective is for smoke to travel from the blower, past the defect, and exit through the roof vent. To achieve this, position the blower downstream of the plumbing section being tested. Exterior or basement cleanouts are preferred attachment points. Other interior cleanouts and toilet flanges may also be used. As a last resort, the roof vent itself may serve as the attachment point, with smoke exiting into the sewer or through an exterior cap. Use extreme caution when accessing a roof.

4. If necessary, use pipe plug(s) to isolate the smoke test to a specific area or to prevent smoke from traveling downstream or in unintended directions.
5. Review venting layout. If attempting to test a system with multiple vents and smoke is not emitting from one or more vents, you may need to:
 - a. Relocate your blower attachment point.
 - b. Use pipe plug(s) to segment the plumbing and run multiple tests.
 - c. Partially restrict vents that are emitting smoke, to direct more smoke to other vents.

Never fully block roof vents – this may prevent smoke from flowing throughout the entire plumbing system and create smoke “blow back” at the blower. The goal of a smoke test is NOT to create high pressure, but to allow smoke to flow freely throughout the system. Smoke will naturally escape through defects even under very low pressure. During smoke testing, the total area of smoke egress should be at least equal to the area of ingress.

6. Disable central station fire alarms to avoid false alarms.



Figure 1

Basement or exterior cleanouts downstream of the test area are ideal attachment points. It is sometimes beneficial to use a pipe plug to ensure all the smoke travels up through the building plumbing and not downstream.

Equipment Setup

1. Place the smoke blower on a stable, level surface and attach the hose to the blower.

Fill blower fluid reservoir with Blowfish F Series Smoke Fluid ONLY. It is recommended to leave at least a 1" air gap to the top of the fluid reservoir.

2. Connect the hose to the plumbing (Figure 2):
 - a. Cleanouts: Detach the 4-in-1 Cleanout Adapter from the hose elbow. Screw the adapter into the cleanout (Teflon tape can be used to prevent leaks). Connect hose elbow to adapter.
 - b. For other connections, a rag or even tape can be used as needed to achieve a good seal.
3. Verify the blower is turned OFF and plug in blower

Turn master power switch ON – Within a few seconds the green indicator light will start to flash. This indicates the blower is warming up (approx. 2 minutes). Light will turn solid green when warm up is complete and blower is ready for use.

4. (optional) Position assistant(s) inside the building.
5. **Important! - Verify unrestricted airflow:** Ensure the "Smoke" switch is OFF and turn only the "Blower" switch ON. Verify that air is flowing freely. You should be able to feel the air being drawn into the blower intake. If the system is not flowing air, there is a restriction in the system which must be cleared before doing a smoke test. Smoke testing a restricted system will be ineffective and will create heavy smoke blow-back at the blower. Note that a restriction in the plumbing may itself be the defect you are attempting to locate.



Figure 2



Correct Setup

Performing the Smoke Test

Note: A good rule of thumb is to use the least amount of smoke necessary to accomplish the task. While F Series blowers can be run indefinitely, there is rarely a reason to run it for more than a few minutes. "Over smoking" a system can result in excessive smoke accumulation in unintended areas. Smoke is used only as a visual indicator of plumbing defects and is not intended for inhalation. Brief incidental exposure is acceptable, but do not enter a space with excessive smoke accumulation.

1. Initiate Smoke

With the "Master Power" and "Blower" switches already ON; turn the "Smoke" switch ON.

2. Observe roof vents. Within a few seconds, smoke should be emitting from all roof vents– this indicates a proper test. Lack of smoke may indicate a blockage or smoke flowing in an unintended direction.
3. Inspect the building plumbing. The presence of visible smoke confirms a defect. Once defect is located, turn the smoke blower OFF.
4. Ventilate the building as needed before reoccupation. Smoke used for plumbing smoke testing is non-toxic when used as directed.
5. Stow Equipment

After the test, detach the hose from the blower and tilt the blower forward to pour out condensation that may have accumulated in the barrel. Wipe barrel dry before storage.

Wipe down blower housing before storage. Store blower and consumables cool and dry.

8. Maintenance & Storage

Maintenance

- Keep the blower clean.
- Wipe off condensation inside the barrel after each use.
- Run the blower (with smoke) at least once every 2 months to maintain best performance.
- Smoke Fluid has a 2 year shelf life (1 year after opening) when stored properly.

Storage

- Be sure blower has fully cooled and is free of moisture before storing.
- Store Blower with a small amount of smoke fluid in the tank – do not run dry.
- Store Blower at room temperature. Do not allow to freeze.
- Store Smoke Fluid at room temperature out of direct sunlight. Do not allow to freeze.

Deep Clean Procedure

This procedure is recommended once every 3 years, or if smoke output is noticeably diminished.

1. Fully drain fluid bottle
2. Fill with a mixture of 50% distilled water, 50% vinegar, run for 5 minutes.
3. Drain fluid bottle, fill with 100% distilled water, run for 2 minutes.
4. Drain fluid bottle, fill with Blowfish F Series Smoke Fluid, run for 10 seconds.
5. Do not store blower without running Smoke Fluid through it last.

9. Troubleshooting

Symptom	Cause	Action
Indicator Light Continuous Slow Blink	Blower Warming Up	None – normal operation
Indicator Light Constant On	Warm Up Complete	None – normal operation
Indicator Light Blinks Twice Every 3 Seconds with Simultaneous Beep	Circuitry Error	Send in for service
Indicator Light Blinks 3 Times Every 3 Seconds with Simultaneous Beep	Circuitry Error	Send in for service
Indicator Light Blinks 4 Times Every 3 Seconds	Heater Error	Send in for service
Indicator Light Continuous Fast Blink	Overheat	Send in for service
No Indicator Light with Continuous Beep	Wrong Voltage	Use proper voltage (120 VAC)
Master power switch will not turn on / illuminate	Blown Fuse	Replace fuse (7 amp)
Smoke leaking from blower housing during test	Restriction in the Plumbing System	Clear Restriction from plumbing before smoke testing. Verify airflow/suction at blower intake before initiating smoke.
Reduced Smoke Output	Improper Smoke Fluid	Use only Blowfish F Series Smoke Fluid
	Old Smoke Fluid	Discard old fluid and replace with new. Smoke Fluid has a 2-year shelf life (1-year after opening) when stored correctly
	Clogged Internals	Perform Deep Clean Procedure. If ineffective, send in for service

10. Warranty

LIMITED WARRANTY FOR BLOWFISH SMOKE BLOWERS

Blowfish Smoke Test Solutions ("Manufacturer") warrants to the original purchaser ("Purchaser") that each Blowfish Smoke Blower shall be free from defects in material and workmanship for a period of one (1) year from the date of purchase.

During the warranty period, Manufacturer will, at its sole option, repair or replace any Smoke Blower or component part that, upon examination at the factory, is determined to be defective in material or workmanship.

1. Warranty Coverage

This Limited Warranty applies only to Blowfish Smoke Blowers purchased new from an authorized distributor or directly from Blowfish Smoke Test Solutions.

Warranty coverage includes:

- Motor (unless otherwise noted)
- Housing and blower assembly
- Hose
- Electrical components
- Internal mechanical parts
- Factory-installed fittings and connectors

2. Exclusions — What the Warranty Does NOT Cover

This Limited Warranty does not apply to damage or failure resulting from:

- Accident, abuse, misuse, or neglect
- Improper operation or failure to follow Manufacturer's instructions
- Normal wear items and consumable components, including damage to threaded fittings or adapters caused by wear, overtightening, improper installation, or cross-threading
- Unauthorized repair, modification, or tampering
- Failure to perform routine maintenance
- Exposure to corrosive, caustic, or harmful environments
- Use with incompatible accessories or third-party components
- Use of incorrect smoke consumables
- Use of smoke consumables not manufactured or approved by Blowfish Smoke Test Solutions Consumable items such as smoke pellets and smoke fluids are not covered under this Warranty.

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3. Consumables Policy — Incorrect or Third-Party Consumables (Warranty Void)

To ensure proper performance and safety, only consumables manufactured or expressly approved by Blowfish Smoke Test Solutions may be used with Blowfish Smoke Blowers.

The Warranty is void in full if:

- The Purchaser uses smoke fluid, smoke pellets, or any other consumable not supplied or approved by Blowfish Smoke Test Solutions
- The Purchaser uses the incorrect grade or type of smoke fluid specified for their blower
- The Purchaser uses modified, altered, or repackaged consumables of any kind

Important Note:

Using the wrong type of smoke fluid or unapproved consumables can cause irreversible blower failure, including motor seizure, internal corrosion, clogging, overheating, and electrical damage. Incorrect consumables can also cause damage to the plumbing system being tested or be a safety hazard.

Such damage is not covered and will void the Warranty in its entirety.

4. Transportation & Shipping Costs

All transportation, shipping, and handling costs associated with sending units or parts to Manufacturer for warranty evaluation, repair, or replacement are the sole responsibility of the Purchaser.

The Purchaser is also responsible for all return shipping costs, including standard and expedited shipping, regardless of whether the warranty claim is approved.

Manufacturer assumes no responsibility for damage, loss, or delays incurred during shipment to or from the Manufacturer.

5. Warranty Limitations

This Limited Warranty is the exclusive warranty provided by Manufacturer.

Manufacturer expressly disclaims:

- All other warranties, express or implied
- Any implied warranty of merchantability or fitness for a particular purpose
- Any liability for incidental, consequential, or indirect damages

No agent, distributor, or third party is authorized to modify this Limited Warranty or make any representation or promise on behalf of Manufacturer.

6. Inspection & Determination

Upon receipt, Manufacturer will:

- Inspect the blower
- Determine whether the defect is due to materials/workmanship or excluded causes
- Advise Purchaser of findings
- Perform repair or replacement at Manufacturer's option

Repairs or replacements do not extend or restart the original warranty period.

7. Warranty Start Date

Warranty coverage begins on the date of purchase shown on the original sales receipt.

Proof of purchase is required for all warranty claims.

8. Entire Agreement

This Limited Warranty constitutes the full and complete warranty offered by Manufacturer for Blowfish Smoke Blowers. No other written or oral warranties apply.

9. To submit a warranty claim for a Blowfish Blower:

1. Photograph visible defects and record blower's serial number.
2. Obtain your purchase receipt or other proof of purchase.
3. Submit warranty claim by filling out the form at [this link](#).

LIMITED WARRANTY FOR BLOWFISH SMOKE CONSUMABLES

(Smoke Pellets and Smoke Fluid)

Blowfish Smoke Test Solutions ("Manufacturer") warrants to the original purchaser ("Purchaser") that all Blowfish smoke consumables are free from defects in material and workmanship at the time of purchase.

Because consumables are used under varying conditions, this Limited Warranty covers replacement only at the time of purchase for products found to be defective prior to use.

1. Warranty Coverage

This Limited Warranty applies only to:

- Blowfish smoke pellets
- Blowfish plumbing smoke fluid

Coverage is limited to Manufacturing defects evident prior to use

Manufacturer may, at its sole option, replace the product or issue a refund of the purchase price.

Consumables do not carry a performance warranty once opened or used.

2. Exclusions — What the Warranty Does NOT Cover

This Limited Warranty does not apply to consumables that are:

- Used, partially used, or depleted
- Improperly stored, including storage in conditions that are not cool, dry, and protected from moisture, temperature extremes, or direct sunlight
- Damaged due to contamination, freezing, overheating, or chemical exposure
- Mixed with other fluids, agents, or chemicals
- Used in equipment not manufactured or approved by Blowfish Smoke Test Solutions
- Used in a blower for which they were not designed.

Warranty does not cover:

- Performance issues resulting from improper storage or use
- Any equipment damage caused by incorrect or non-approved consumables
- Any incidental, consequential, or indirect losses

3. Warranty Limitations

Manufacturer expressly disclaims:

- All other warranties, express or implied
- Any implied warranty of merchantability or fitness for a particular purpose
- Liability for incidental, consequential, or indirect damages

No agent, distributor, or representative is authorized to modify this Limited Warranty.

4. Entire Agreement

This Limited Warranty constitutes the complete and exclusive warranty applicable to Blowfish smoke consumables.

5. Consumable Warranty Claims

To submit a warranty claim for a Blowfish consumable:

1. Do not dispose of the product.
2. Photograph defective product and record lot or batch number (if applicable).
3. Obtain your purchase receipt or other proof of purchase.
4. Submit a Service Request at this link.

Do not return a consumable unless specifically requested.

11. Returns / Repair

Blowfish Smoke Test Solutions accepts returns for approved warranty claims and repair orders only. All other sales are final.

Inspection Fee: A \$50 inspection fee will be charged for evaluating blowers returned for repair (outside of warranty). If you choose to proceed with the recommended repair, the inspection fee will be credited toward the repair cost.

Before returning any Blowfish Product:

1. Review the Warranty Policy
2. Locate the serial number on the blower and obtain your purchase receipt.
3. Submit a Service Request at **this link**.
4. Upon approval, an RMA number will be assigned and a RMA form will be emailed to you.
5. Follow the shipping instructions on the RMA form.
6. Units returned without RMA authorization will be refused.

Important Safety Requirement for Returns

Any blower powered by gasoline or another combustible fuel must have all fuel and oil fully drained before shipment. Blowers that use liquid as a consumable must also be fully drained before shipment. Failure to comply will result in refusal of delivery.

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Specifications, features, and design are subject to change without notice.

This equipment is intended for professional use only. Not a consumer product.