

# LT-100 Lint Trap Box

## Installation • Operation • Maintenance Manual

### 1. Product Overview

The S&P USA LT-100 is a secondary lint trap designed for use in 4-inch residential dryer exhaust duct systems. It reduces lint accumulation in extended duct runs and helps protect Dryer Exhaust Duct Power Ventilators (DEDPVs).

The LT-100 is intended for flush in-wall installation. The metal housing is secured within the wall cavity prior to drywall installation, and the finished faceplate sits cleanly against the completed wall surface.

The LT-100 must only be installed in 4-inch rigid metal dryer duct systems.



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## 2. Safety Information

### General Requirements

- Read and understand all instructions before installation or service.
- Installation must comply with all applicable local and national building and mechanical codes.
- The LT-100 must be used only in conjunction with a duct booster fan when required by duct length.
- The LT-100 must be installed upstream of any duct booster fan and within the first 6 feet of the dryer outlet whenever possible.
- Maintain straight, unobstructed duct alignment into and out of the LT-100. Seal all duct joints using aluminum foil HVAC tape only.
- Clean the lint screen regularly (every 2–4 weeks or as needed).
- Do not operate the dryer without the lint filter and access door properly installed.

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### ⚠ Warnings

#### FIRE HAZARD

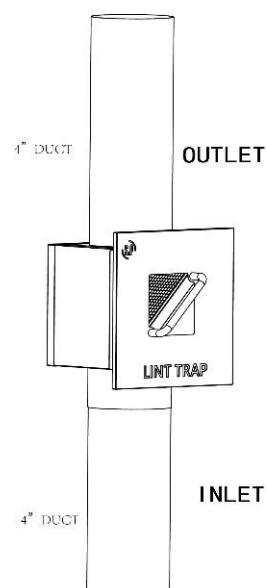
Failure to clean the LT-100 regularly can result in lint buildup and restricted airflow, increasing the risk of fire.

#### PERSONAL INJURY

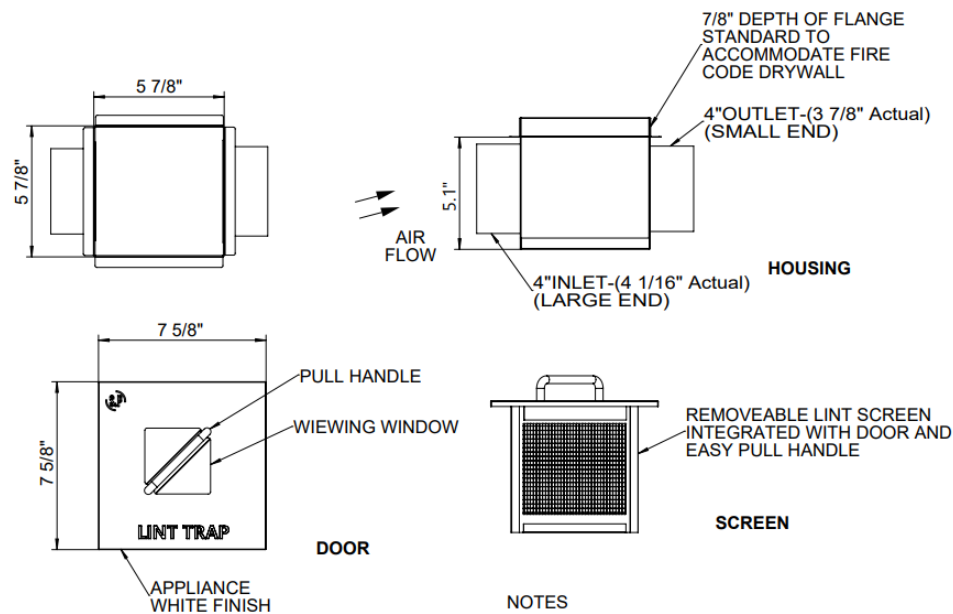
Never operate the dryer with the lint filter removed.

#### AIRFLOW RESTRICTION

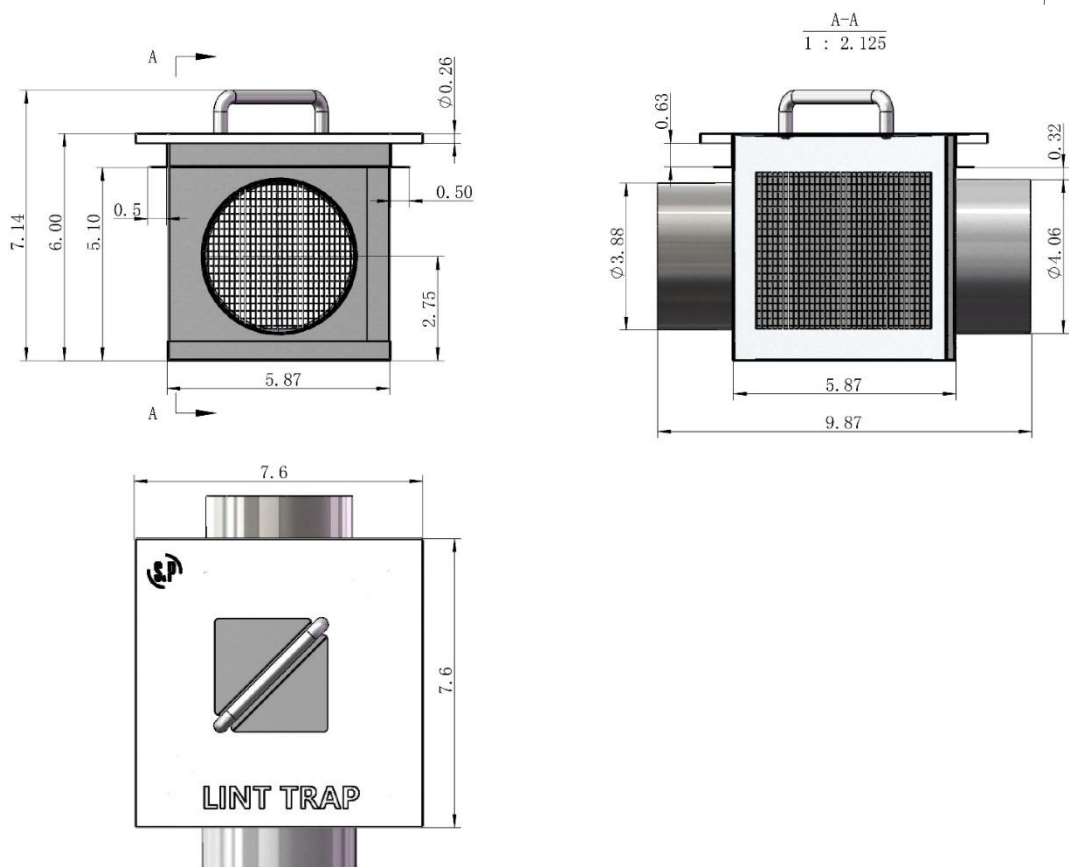
Improper installation or use of fasteners inside the duct can trap lint and reduce exhaust performance. The **IRC M1502.4.2 – Duct Installation states** “Ducts shall be mechanically fastened and sealed. Joints shall not be fastened with screws or similar fasteners that protrude into the inside of the duct.”



3. Product Dimensions



NOTES  
1.DRAWING IS NOT TO SCALE  
2.ALL DIMENSIONS IN INCHES(NOMINAL)



### **Major Dimensions:**

- Faceplate: 7.63 in × 7.63 in
  - Body Width: 5.874 in
  - Depth Behind Drywall: Approximately 5-1/10 in
  - Duct Connections: 4-inch galvanized round inlet and outlet
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## **4. Installation**

The LT-100 is installed within the wall cavity before drywall is applied. The unit is secured directly to wall studs or to wood blocking installed between studs. The finished drywall opening is cut during final wall finishing. The LT-100 must be installed vertically.

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### **IMPORTANT INSTALLATION NOTES**

- Install the dryer exhaust duct, Lint Trap, and duct booster fan before drywall installation.
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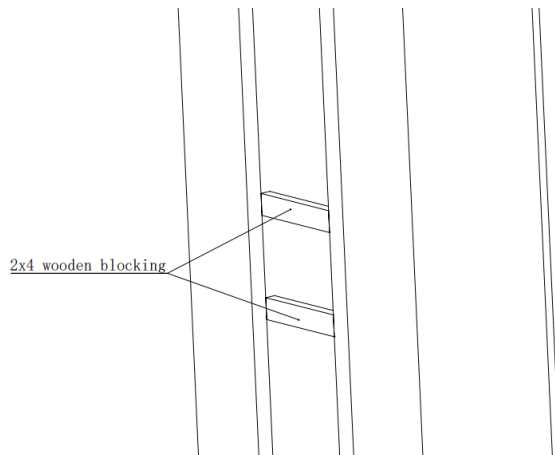
#### **STEP 1 — Determine Location and Prepare Framing**

- Identify the exact location of the LT-100 based on the dryer outlet position.
  - The unit should be installed within 0–6 feet of the dryer outlet.
  - Ensure proper vertical alignment of the 4-inch duct path.
  - Determine whether the LT-100 will mount:
    - Directly to an existing stud, OR
    - Between studs using installed wood blocking.
  - Confirm wall cavity depth is sufficient (minimum 5-1/10 in).
  - Confirm vertical orientation of the unit.
  - Drywall should not yet be installed at this stage.
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#### **STEP 2 — Install Wood Blocking (If required)**

If stud spacing does not align with the desired lint trap location:

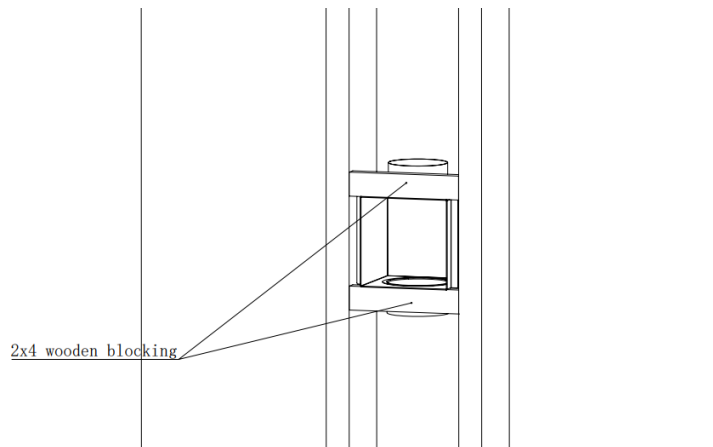
- Install horizontal 2×4 wood blocking between studs.
- Position blocking above and below the intended LT-100 location.
- Ensure blocking is level, flush, and securely fastened.
- The LT-100 mounting flange must rest firmly against the stud or blocking.



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### STEP 3 — Install the LT-100 Housing

- Remove the outer access lid.
- Position the LT-100 metal housing inside the wall cavity.
- Align the inlet and outlet with the planned 4-inch duct path.
- Ensure the unit is vertical and centered within framing.
- Push the housing inward until the internal mounting flange contacts the stud or blocking.



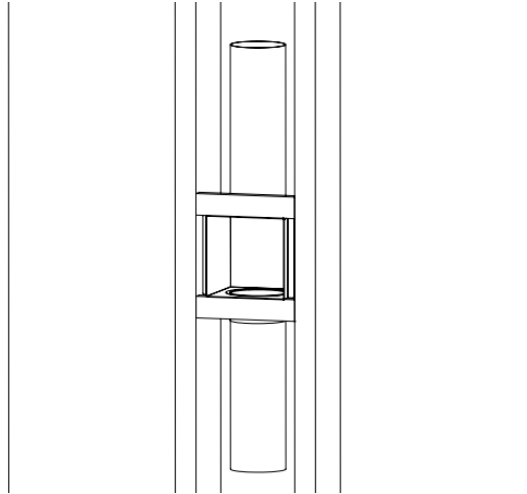
### STEP 4 — Secure the Housing

- With the lid removed, the internal steel mounting flange will be exposed.
  - Drill pilot holes as needed.
  - Secure the flange to studs or blocking using appropriate screws.
  - Do NOT install screws inside the air path.
  - Do NOT fasten through the exterior faceplate surface.
  - Confirm the housing is level and securely mounted.
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## STEP 5 — Connect the Ductwork (Before Drywall)

### Dryer to LT-100 (Upstream Connection)

- Connect dryer exhaust to the LT-100 inlet using 4-inch rigid metal duct.
- Maintain the straightest and shortest path possible.
- Seal all joints using aluminum foil HVAC tape.
- Do NOT use sheet metal screws inside the duct.



### LT-100 to Duct Booster Fan (Downstream Connection)

- Connect the LT-100 outlet to the duct booster fan (such as S&P USA PV-DEDPV) using rigid 4-inch duct.
- Ensure duct alignment is straight and unobstructed.
- Confirm any backdraft damper operates freely.
- Seal all joints with aluminum foil HVAC tape.

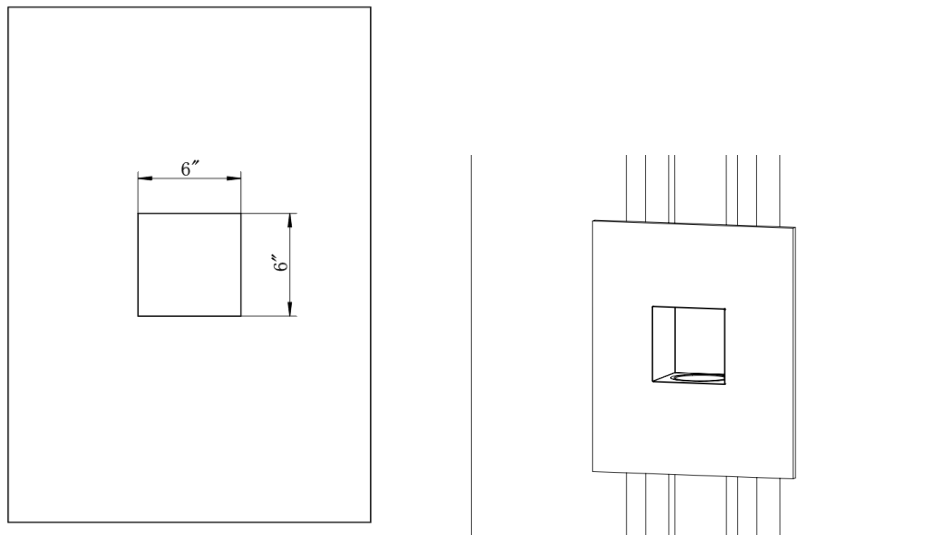
All ductworks must be completed and inspected prior to drywall installation.

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## STEP 6 — Install Drywall and Finish Opening (Final Stage)

After the LT-100 is secured and ductwork completed:

- Install drywall over the wall framing.
- Cut a square opening aligned with the LT-100 face.
- Recommended finished opening size: **7 in × 7 in**.
- The opening must be slightly smaller than the faceplate (7.63 in × 7.63 in) so the faceplate conceals drywall edges.
- Ensure edges are clean and square for proper flush installation.



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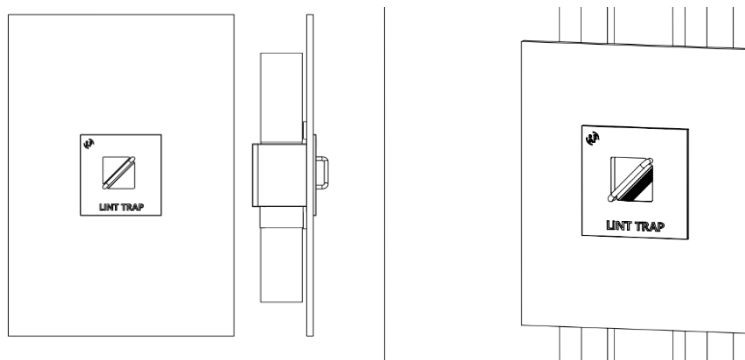
#### STEP 7 — Install Filter and Access Door

- Insert the lint filter screen fully into the frame.
  - Install the access door.
  - Confirm the faceplate sits flush against the finished drywall.
  - Verify the door closes securely with no gaps.
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#### 5. Operation

The LT-100 operates passively by trapping lint before it enters extended duct runs or booster fans.

- The viewing window allows visual inspection of lint accumulation.
- Regular cleaning is required to maintain proper airflow.
- The unit does not contain moving parts.



## 6. Maintenance

- Inspect the lint screen weekly or more frequently with heavy dryer use.
- Remove the screen and dispose of accumulated lint.
- Reinstall the filter securely.
- Verify duct connections remain sealed.
- Ensure access door closes fully after maintenance.

Failure to maintain the lint trap may cause restricted airflow and increased fire risk.

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## 7. Troubleshooting

### Reduced Airflow

- Check lint screen for blockage.
  - Inspect duct for crushed sections or obstructions.
  - Confirm access door is fully closed.
  - Inspect roof cap or wall cap for blockage.
  - Verify booster fan (if installed) is operating properly.
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## 8. Warranty Information

S&P USA Ventilation Systems LLC warrants this product against defects in material for a period of two (2) years from the date of purchase. This warranty does not cover labor costs.

The warranty is void if the product is:

- Improperly installed
  - Modified
  - Not maintained in accordance with this manual
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Note: The images, illustrations, and visual representations in this manual are for reference and representative purposes only and may not depict the exact product configuration, dimensions, or installation conditions.

Any resemblance to other products or designs is purely coincidental and unintended. S&P USA reserves the right to modify product design and dimensions at any time as required.

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## FACTORY ASSISTANCE

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