



DIRECT DIFFUSE® STEAM TRAP

Optimize Efficiency and Safety with Reliable Condensate Management

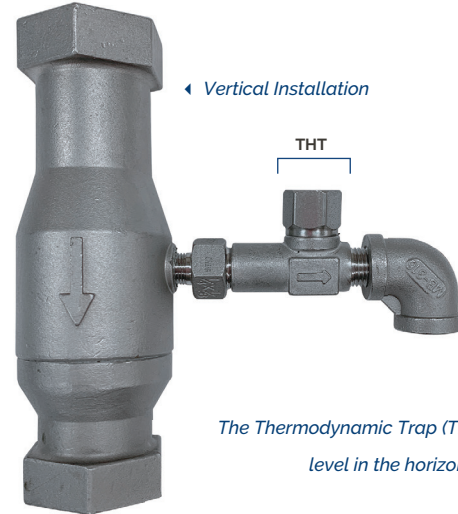
Failed steam traps are inefficient, and the absence of steam traps is operationally unsafe. Both scenarios waste fuel and energy, increase production costs, and degrade steam system performance.

Traditional steam systems often require multiple trap designs to manage varying loads. Many traps use mechanical valves to release condensate, but fluctuating condensate loads can hinder performance. Without effective condensate control, high-speed condensate can severely damage pipe fittings and valves. Additionally, thermodynamic traps (THTs) must be installed level and in the horizontal plane to function correctly.

KEY FEATURES & BENEFITS

- No moving parts to wear out
- Compact, durable design
- Installs horizontally or vertically
- Reduces condensate in steam lines
- Enhances steam system efficiency
- Cost-effective compared to traditional traps
- Backed by a 1-year limited warranty

Our patented Direct Diffuse® Steam Trap offers a superior solution. Unlike traditional systems, our design mounts directly in the flow pipe—no trunk line required. With no moving parts, our trap provides reliable, maintenance-free performance, resulting in longer service life and improved system efficiency.



Vertical Installation

The Thermodynamic Trap (THT) must be installed level in the horizontal plane.



Horizontal Installation

PATENT NO.

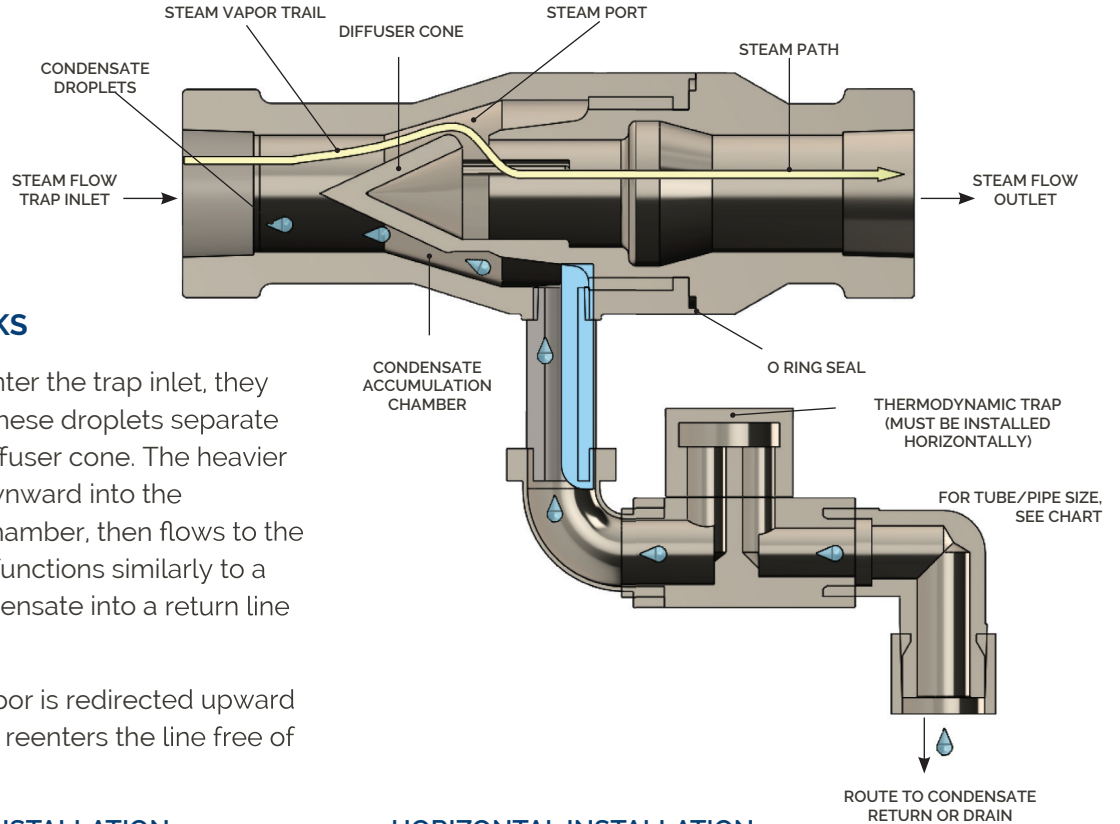
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► The Direct Diffuse® Steam Trap mounts in-line to quickly and effectively discharge condensate from your steam line. The unit can be installed in either a horizontal or vertical orientation, offering flexibility for various applications. Direct Diffuse® Steam Trap shown here is installed vertically on a Strahman M-5000TG Mixing Unit.



Protect your system. Maximize your Steam.

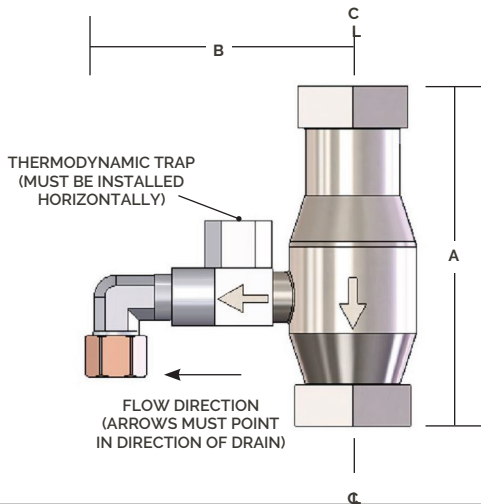


HOW THE SYSTEM WORKS

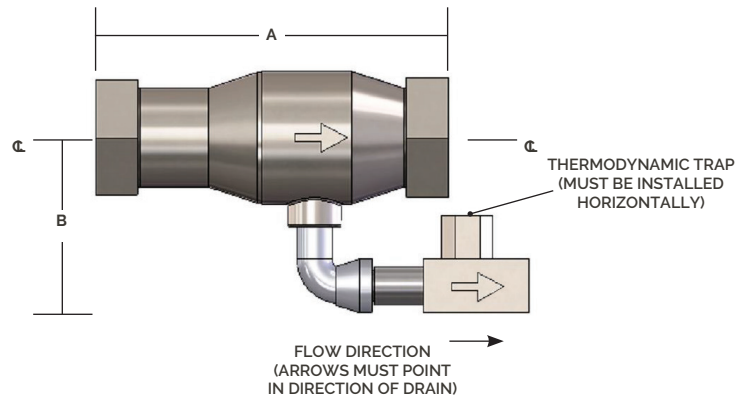
As steam and condensate enter the trap inlet, they form pressurized droplets. These droplets separate upon passing through the diffuser cone. The heavier condensate accelerates downward into the condensate accumulation chamber, then flows to the thermodynamic trap, which functions similarly to a check valve—releasing condensate into a return line or drain.

Meanwhile, lighter steam vapor is redirected upward as the chamber narrows and reenters the line free of condensate.

VERTICAL INSTALLATION



HORIZONTAL INSTALLATION



SPECIFICATIONS							
ORDER NO.	PIPE DIAMETER	A	B	CONNECTION	MAX. PSI	MAX. TEMP.	DRAIN TUBE
DDITRAP	3/4"	5 3/4"	4"	3/4" - 14 NPT	150	350°F (175°C)	1/4" TUBE
DDITRAP-RK SERVICE REPAIR KIT INCLUDES: TUBE CONNECTOR, THERMODYNAMIC TRAP BODY, AND O-RING (BRASS/SST/FKM)							

INSTALLATION INSTRUCTIONS:

1. Shut off water and steam supply.
2. Allow pipes to cool.
3. Connect NPT Pipe to the Steam Line.
4. Make sure the flow direction arrow points downstream away from source and toward the point of use.
5. Route condensate drain piping to the appropriate system.