# Vortex Tube Cold Air Gun for Spot Cooling



## Product Overview

HOMIPNEU vortex tube cold air guns use compressed air to provide localized cooling for industrial processes. SC series and TC-010-B models offer different cooling capacities, body sizes, and threaded connections. Select a model according to heat load, available air supply, and required cooling area.

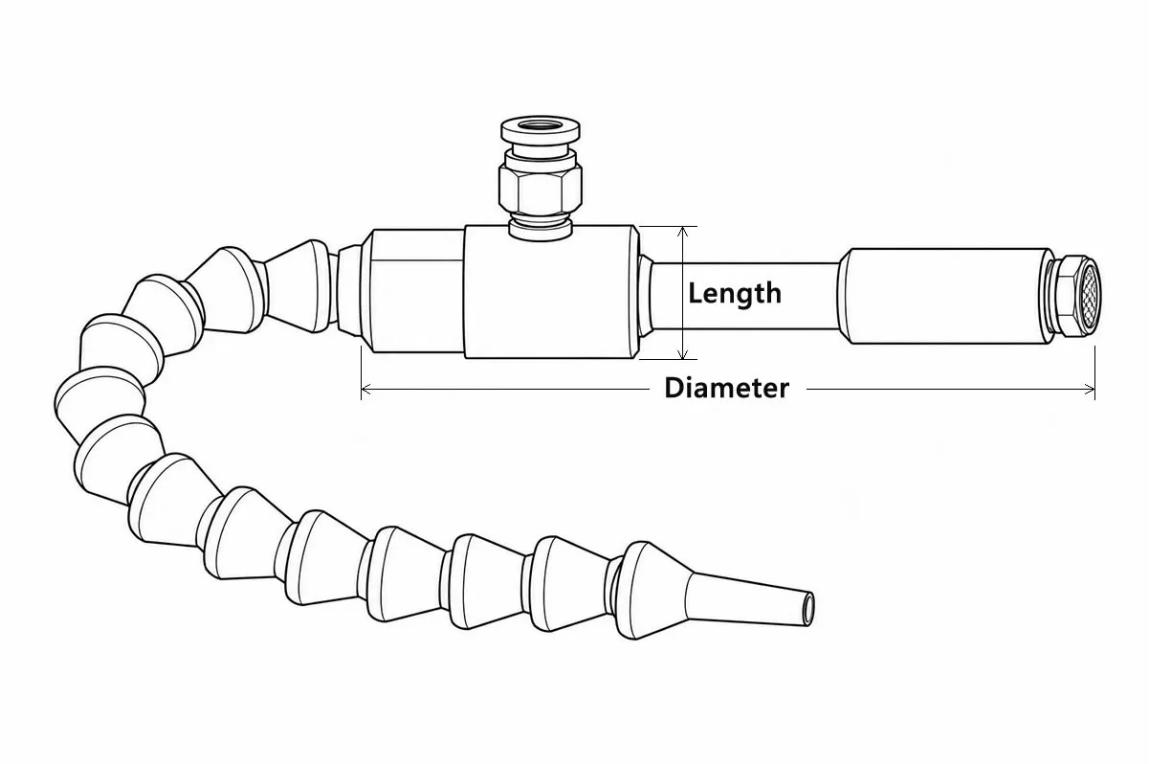
## Key Features

- Vortex tube technology separates compressed air into cold and hot streams.
- Focused spot cooling for cutting zones, workpieces, and heat-sensitive components.
- Cooling option without liquid coolant application.
- Published cooling capacity range from 530 to 2,870 Btu/h.
- SC series and TC-010-B provide multiple body sizes and connection options.
- G-thread inlet and outlet connections for defined installation interfaces.

## Technical Specifications

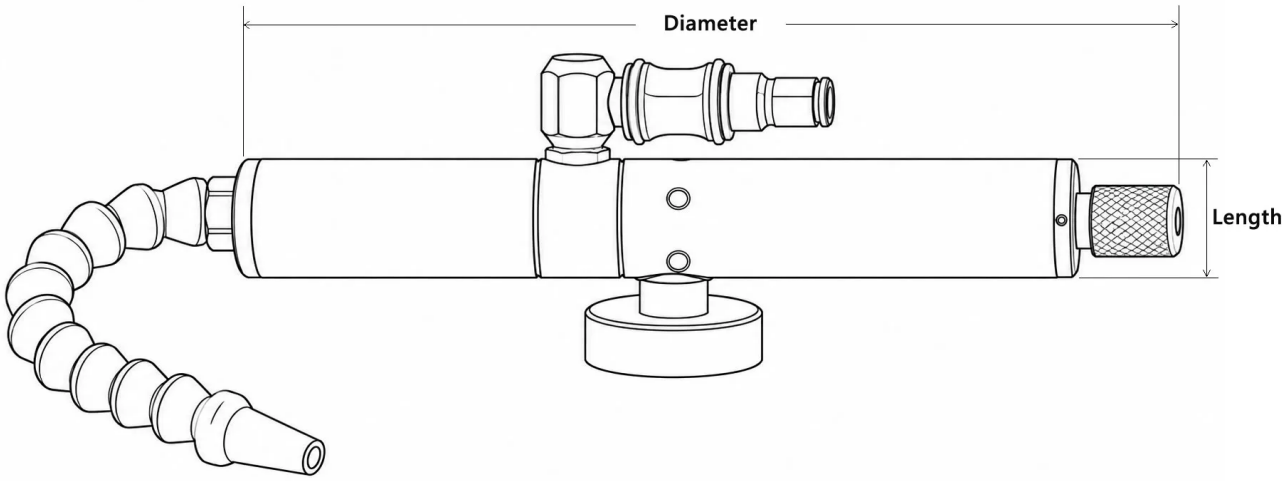
| Parameter | Specification |
|---|---|
| Product Name | Vortex Tube Cold Air Gun for Spot Cooling |
| Brand | HOMIPNEU |
| Cooling Principle | Vortex tube cooling |
| Air Supply | Compressed air |
| SC Series Models | SC-06, SC-08, SC-10, SC-12, SC-15, SC-20, SC-25, SC-30, SC-40 |
| Additional Model | TC-010-B |
| Listed Performance Pressure | 6.9 bar |
| Listed Cooling Capacity | 530 - 2,870 Btu/h, depending on model |
| Body Diameter | 28 - 45 mm, depending on model |
| Body Length | 130 - 295 mm, depending on model |
| Inlet Connection | G1/8 or G1/4 |
| Outlet Connection | G1/4, G3/8 or G1/2 |
| Intended Application | Localized industrial cooling |

Cooling performance depends on supply air conditions, airflow, and installation arrangement. Listed capacity does not specify a guaranteed outlet or workpiece temperature.




## Model Selection and Dimensions - SC Series Models

| Model | bar | cfm | L/min | Btu/h | Dia. mm | Length mm | Inlet | Outlet |
|---|---|---|---|---|---|---|---|---|
| SC-06 | 6.9 | 6 | 220 | 530 | 28 | 130 | G1/8 | G1/4 |
| SC-08 | 6.9 | 8 | 260 | 650 | 38 | 160 | G1/4 | G3/8 |
| SC-10 | 6.9 | 10 | 410 | 980 | 38 | 160 | G1/4 | G3/8 |
| SC-12 | 6.9 | 12 | 530 | 1300 | 38 | 160 | G1/4 | G3/8 |
| SC-15 | 6.9 | 15 | 660 | 1600 | 38 | 160 | G1/4 | G3/8 |
| SC-20 | 6.9 | 20 | 790 | 1950 | 38 | 160 | G1/4 | G3/8 |
| SC-25 | 6.9 | 25 | 920 | 2280 | 38 | 160 | G1/4 | G3/8 |
| SC-30 | 6.9 | 30 | 1050 | 2600 | 38 | 160 | G1/4 | G1/2 |
| SC-40 | 6.9 | 40 | 1100 | 2870 | 42 | 160 | G1/4 | G1/2 |




## Model Selection and Dimensions - TC-010-B

| Model | bar | cfm | L/min | Btu/h | Dia. mm | Length mm | Inlet | Outlet |
|---|---|---|---|---|---|---|---|---|
| TC-010-B | 6.9 | 44 | 1100 | 2830 | 45 | 295 | G1/4 | G1/2 |

## Applications

- Machining spot cooling for drilling, milling, turning, or grinding areas.
- Tool and workpiece cooling where localized airflow is suitable.
- Selected plastics processing and trimming applications.
- Assembly and testing fixtures requiring targeted cooling air.
- Industrial process points with available compressed air supply.

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