

# UEE SERIES

X-AIR VORTEX TUBE

# UEE SERIES



Vortex tubes are devices capable of generating small volumes of cold or hot air, and are traditionally used in the process industry to cool or heat small objects or surfaces. An incoming compressed air flow is divided into two parts, exiting from two orifices, thus generating hot and cold air.

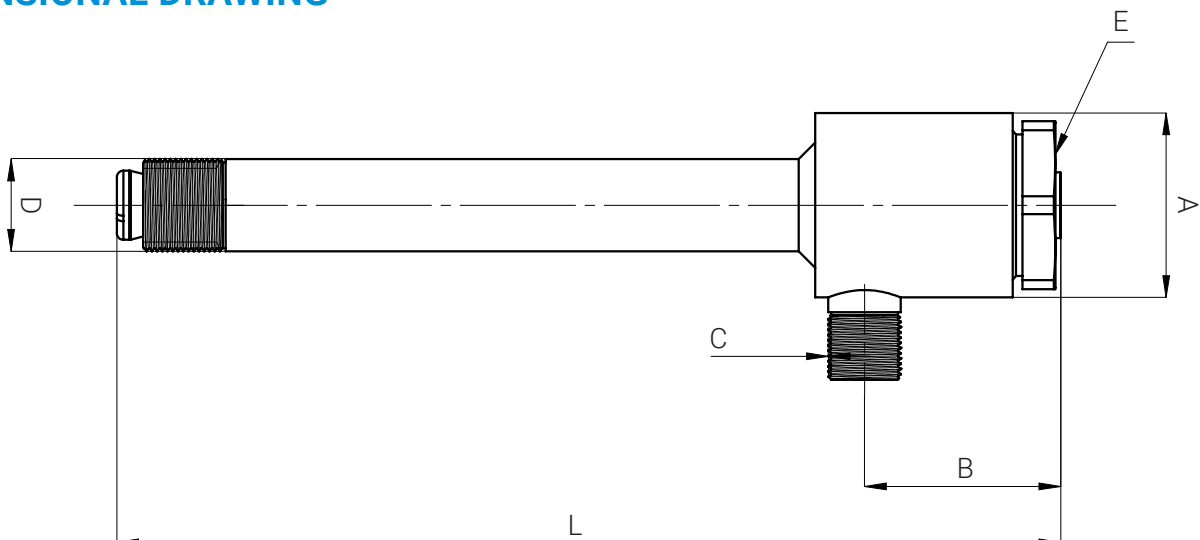
The advantages of this product lie in the type of power it requires: simply operating with compressed air, you can avoid the problems related to electricity use. In addition, having no moving parts, they do not require any maintenance and do not show wear even after years of use.

X-AIR vortex tubes from PNR Italia are manufactured in quality stainless steel and tested in our laboratories to provide optimal performance.



CODE	STANDARD LITER/MIN [SLPM]	POWER [Watt]	COLD AIR OUTLET A [mm]	B [mm]	AIR COMPRESSED INLET CONNECTION C	HOT AIR OUTLET D	COLD AIR OUTLET E	L [mm]
UEE A001 B31X	113	85	33	25	1/8"NPT - BSPT	1/4"NPT - BSPT	1/4"NPT - BSP	150
UEE B007 B31X	708	527	38	32	1/4" NPT - BSPT	1/4" NPT - BSPT	1/4"NPT - BSP	173
UEE D027 B31X	2700	2081	56	60	1/2" NPT - BSPT	3/4"NPT -BSPT	1" NPT - BSP	290

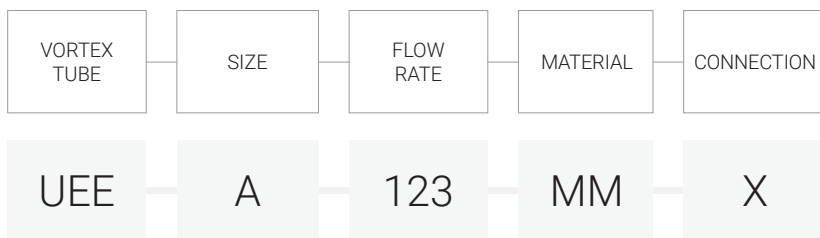
## DIMENSIONAL DRAWING



## TECHNICAL DATA

<b>FLOW RATE</b>	113-708-2700 slpm @ 7bar
<b>TEMPERATURE OUTLET AIR</b>	- 46°C   + 27°C
<b>MATERIAL</b>	Body: AISI 316L stainless steel Valve: Brass Seals: Viton
<b>TEMPERATURE</b>	Max. working temperature: 127°C Max. ambient temperature: 150°C
<b>CONNECTION</b>	Inlet compressed air: 1/8"-1/4"-1/2" NPT/BSPT Cold air outlet: 1/4"-1" NPT/BSP Hot air outlet: 1/4"-3/4" NPT/BSPT
<b>PRESSURE</b>	Compressed air pressure: 7 bar (MAX 8 bar)

## HOW TO MAKE UP THE VORTEX CODE



### SIZE OF THE INLET COMPRESSED AIR THREAD

A = 1/8"  
B = 1/4"  
D = 1/2"

### FLOW RATE

001 – 113 slpm  
007 – 708 slpm  
027 – 2700 slpm

### MATERIAL

Body material B31 = AISI 316L

### CONNECTION

B = BSPT  
N = NPT



**PNR ITALIA SRL**

Via Gandini, 2 27058 Voghera (PV) Italy  
Phone +39 0383 344 611 Fax +39 0383 212 489  
Email [info@pnr.it](mailto:info@pnr.it) For more info, visit our website [www.pnr.eu](http://www.pnr.eu)