

Thermal Management

Vortex Range

Vortex cooler | BP

IP 66 | TYPE 4X

**Description:**

Compact, reliable and low cost way to cool and purge enclosures. It produces cold air from compressed air, with no moving parts. The easy mounting through a standard electrical knockout makes this solution specially suitable to be installed even when the enclosures are already in the field. Vortex coolers BP provide a 30°C temperature drop from supply air temperature when the inlet pressure is 7 bar (elevated inlet temperature will produce a rise in cold air temperature and reduction in cooling capacity, low air pressures will also reduce the cooling capacity). For a continuous Vortex operating, relative humidity inside the enclosure is maintained below 45%, no moisture condenses inside the enclosure (the enclosure must be sealed). Suitable even for ambient temperatures up to 52°C, the internal components can withstand these high temperatures. Most TYPE 4 and 4X units include a silencer to minimize the noise. The coolers must be installed vertically to maintain the protection degree.

Material:

Internal Vortex tube manufactured in stainless steel. External cover, BP TYPE 12 in plastic and aluminium, BP TYPE 4 in aluminium, and 4X in stainless steel.

Protection:

Depending on type, up to IP 66 | TYPE 4X.

Approvals:

CE, UL_listed.

Pack quantity:

Vortex cooler with mounting accessories.



IP 66 | TYPE 4X

IP 54 | TYPE 12, Aluminium

H	Cooling Capacity (W)	Air flow (l/min)	Noise (dB)	Silencer included	Low pressure relief valve	Installation cut-out diam. (mm)	Air inlet	Item no.
131	162	227	78	No	No	22	1/8"	BP4008
203	293	425	87	No	No	29	1/4"	BP4015
203	586	850	88	No	No	29	1/4"	BP4030
203	820	1133	93	No	No	29	1/4"	BP4040

IP 66 | TYPE 4, Aluminium

H	Cooling Capacity (W)	Air flow (l/min)	Noise (dB)	Silencer included	Low pressure relief valve	Installation cut-out diam. (mm)	Air inlet	Item no.
126	162	227	78	No	Yes	33	1/8"	BP4608
185	293	425	73	Yes	Yes	48	1/4"	BP4615
185	586	850	74	Yes	Yes	48	1/4"	BP4630
185	820	1133	78	Yes	Yes	48	1/4"	BP4640

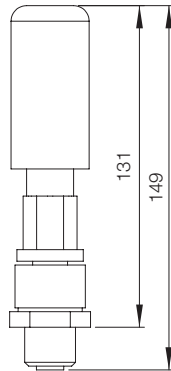
IP 66 | TYPE 4X, Stainless steel

H	Cooling Capacity (W)	Air flow (l/min)	Noise (dB)	Silencer included	Low pressure relief valve	Installation cut-out diam. (mm)	Air inlet	Item no.
126	162	227	78	No	Yes	33	1/8"	BP4608SS
185	293	425	73	Yes	Yes	48	1/4"	BP4615SS
185	586	850	74	Yes	Yes	48	1/4"	BP4630SS
185	820	1133	78	Yes	Yes	48	1/4"	BP4640SS

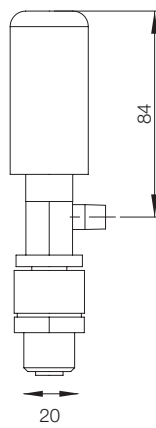
Dimensional drawing | BP

BP 4008

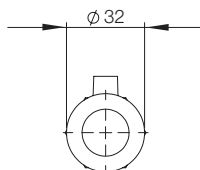
Front view



Side view

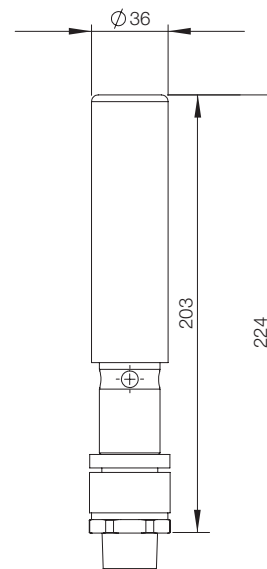


Top view

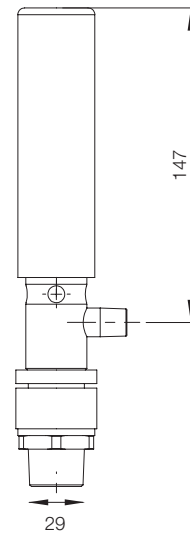


BP4015 / BP4030 / BP4040

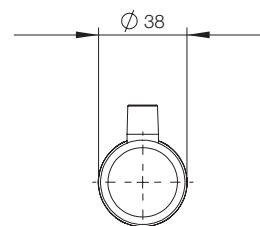
Front view



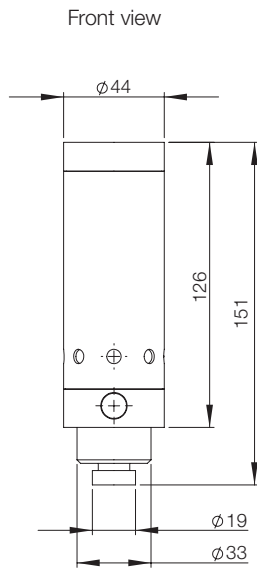
Side view



Top view



BP4608 / BP4608SS



BP4615 / BP4630 / BP4640
BP4615SS / BP4630SS / BP4640SS

