

# Vortex Cooler, BP



This Vortex cooler, BP is easy to install, has no moving parts, and is maintenance free. In addition to cooling, it also reduces the relative humidity within the enclosure it is mounted on. This Vortex cooler is an ideal solution to prevent overheating within the enclosure.

## FEATURES

**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 especially suitable to be installed even when the enclosures are already in the field. 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). 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 IP66 | TYPE 4X.

**Pack quantity:** Vortex cooler with mounting accessories.

This reliable solution reduces the customer's labour cost due to the ease of installation

It is recommended to install a thermostat, BPT, as well as an air distribution kit, BPA

**Pack quantity:** Vortex cooler with mounting accessories

## SPECIFICATIONS

**Finish:** Brushed

Table 1/1

| Catalog Number | Height | Width | Depth | Material        | Nominal Capacity Watts | Protection Rating  |
|----------------|--------|-------|-------|-----------------|------------------------|--------------------|
| BP4615SS       | 185mm  | 63mm  | 63mm  | Stainless Steel | 293W                   | IP66, NEMA Type 4X |
| BP4030         | 203mm  | 38mm  | 52mm  | Stainless Steel | 586W                   | IP54, NEMA Type 12 |
| BP4040         | 203mm  | 38mm  | 52mm  | Stainless Steel | 820W                   | IP54, NEMA Type 12 |
| BP4015         | 203mm  | 38mm  | 52mm  | Stainless Steel | 293W                   | IP54, NEMA Type 12 |
| BP4615         | 185mm  | 63mm  | 63mm  | Stainless Steel | 293W                   | IP66, NEMA Type 4  |
| BP4630         | 185mm  | 44mm  | 44mm  | Stainless Steel | 586W                   | IP66, NEMA Type 4  |
| BP4630SS       | 185mm  | 63mm  | 63mm  | Stainless Steel | 586W                   | IP66, NEMA Type 4X |
| BP4640SS       | 185mm  | 63mm  | 63mm  | Stainless Steel | 820W                   | IP66, NEMA Type 4X |
| BP4640         | 185mm  | 63mm  | 63mm  | Stainless Steel | 820W                   | IP66, NEMA Type 4  |
| BP4608         | 126mm  | 44mm  | 44mm  | Stainless Steel | 162W                   | IP66, NEMA Type 4  |
| BP4608SS       | 126mm  | 63mm  | 63mm  | Stainless Steel | 162W                   | IP66, NEMA Type 4X |
| BP4008         | 131mm  | 32mm  | 38mm  | Stainless Steel | 162W                   | IP54, NEMA Type 12 |

## ADDITIONAL PRODUCT DETAILS

Cooling capacity is calculated with pressured air being 20 °C and having 7-bar pressure.

Silencer is not included with items BP4008, BP4015, BP4030, BP4040 BP4608, BP4608SS.

Low pressure relief valve is not included with item BP4008, BP4015, BP4030, BP4040.

## WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at [www.nvent.com](http://www.nvent.com) and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.



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