

High Temperature Vortex Cooler, HT



This high temperature Vortex cooler, HT, with a IP 66 protection degree, 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 in environments up to 93°C, for example in a steel mill.

INDUSTRY STANDARDS

CE

FEATURES

Description: Compact and reliable way to cool 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 at approximately 45%, no moisture condenses inside the enclosure (the enclosure must be sealed). Suitable even for ambient temperatures up to 93 °C, the internal components can withstand these high temperatures, and includes 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 TYPE 4X in stainless steel.

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

Pack quantity: Vortex cooler with mounting accessories.

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High temperature vortex cooler, with no moving parts and a high IP 66 protection degree

The vortex cooler provides a maintenance free cooling solution which also reduces the relative humidity within the enclosure

The vortex cooler can be installed on the enclosure easily, in environments of up to 93°C, reducing the required installation time

The maintenance free cooling solution prevents unnecessary downtime

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

The vortex cooler will be a good thermal management solution for high temperature environments such as a steel mill
it is recommended to install a thermostat, BPT, as well as an air distribution kit, BPA

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

Silencer included: Yes; Low pressure relief valve: Yes; Instalation cut-out diam. (mm): 48

SPECIFICATIONS

Table 1/1

Catalog Number	Height	Width	Depth	Material	Nominal Capacity Watts	Finish
HT4630	184mm	63mm	63mm	Aluminum	586W	Mill
HT4630SS	184mm	63mm	63mm	Stainless Steel 304	586W	Brushed
HT4640	184mm	63mm	63mm	Aluminum	820W	Mill
HT4615	184mm	63mm	63mm	Aluminum	293W	Mill
HT4615SS	184mm	63mm	63mm	Stainless Steel 304	293W	Brushed
HT4640SS	184mm	63mm	63mm	Stainless Steel 304	820W	Brushed

ADDITIONAL PRODUCT DETAILS

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

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 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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