

# Vortex Cooler

## VC1 & VC2



### FEATURES

- » Cost effective
- » Easy for installation
- » Less maintenance
- » No electricity required
- » Ingress Protection IP65 approved

### ADVANTAGES

- » Less space for installation
- » Provide cold air to stop industrial Panel overheating
- » No moving parts
- » Suitable for harsh condition

### DESCRIPTION

Axis Vortex Cooler - VC1 & VC2 are designed to deliver continuous cold air to industrial panel to avoid overheating the system.

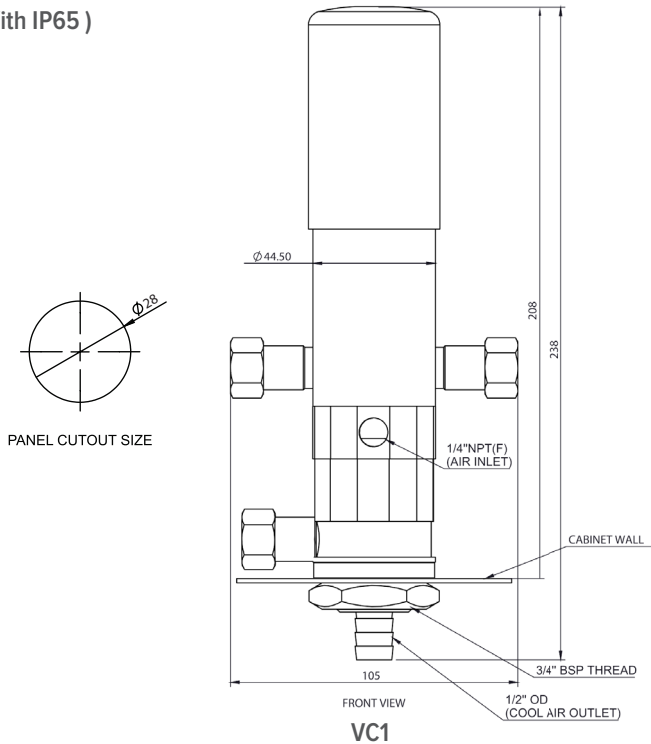
It is mainly used where electricity resources is a challenge. It is fully mechanical device hence very less maintenance is required. Used in Oil and Gas refinery, power, chemical, pharmaceutical industries, product chilling machine, industrial PC cooling as well as machine control panel.

Many features of the VC1 & VC2 make it ideal for wide range of applications for air cooling. It has main advantage is that it prevents dust and ingress protection of cabinet / panel / Machine hence eliminates down time of the system or machine.

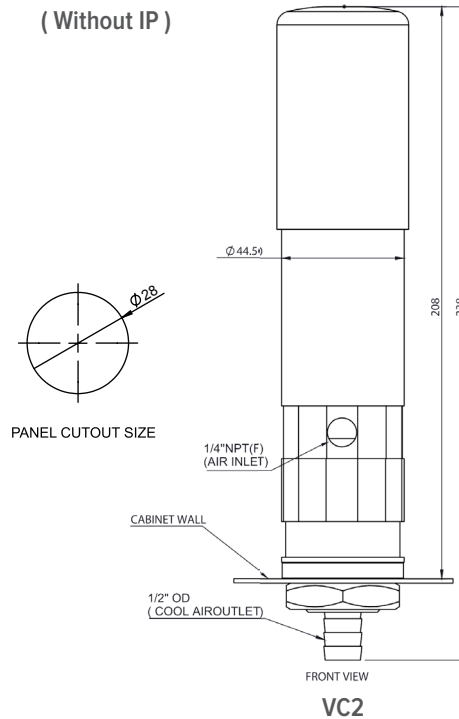
Basically it works on vortex tube principle , the hot air produced by the hot end the vortex tube and cold air released at opposite end and enters where cooling is required. hot air released to the atmosphere via vent entry of VC1 & VC2.

## DIMENSION DETAILS

( With IP65 )



( Without IP )



All Dimension are in MM

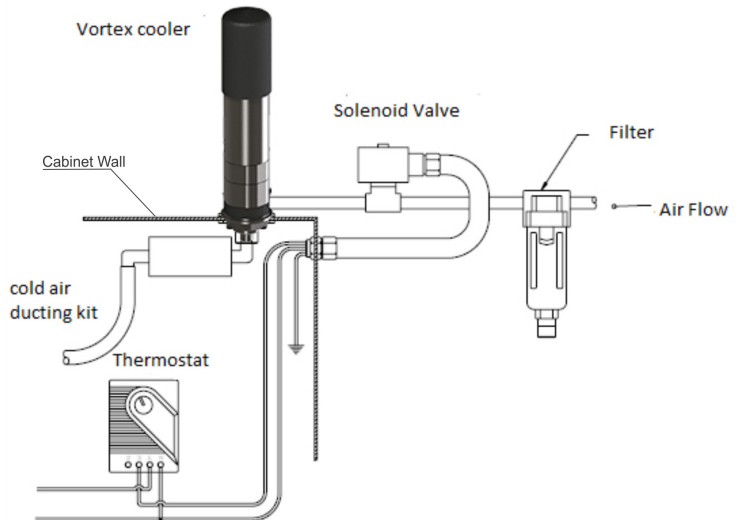
## TECHNICAL SPECIFICATIONS

Mounting	Panel
Cooling Media	Air
Body Material	SS 304 / SS 316
Dimension	Refer Dimension Detail
Connection	1/4" NPT (F) for air inlet and 1/2" OD for cooling air outlet
Cooling Capacity	Max. 695 W ( 2370 Btu/Hr. )
Air consumption	Max. 34 CFM and 985 LPM

Air Pressure (Bar)	Hot Outlet Air Temperature	Cold Outlet Air temperature
1	+10	-1
2	+10	-5
3	+10	-8
4	+13	-11
5	+15	-15
6	+20	-15
7	+20	-17
8	+20	-18

For Example if the cabinet cooler inlet temperature is 30°C and Air Pressure is 8 Bar then hot side outlet temperature is 50°C, which means +20°C temperature difference and cold side outlet temperature 12°C, which means -18°C temperature difference. this is to guide on max. temperature achievable however calculation for heatload. cooling load requirement is essential.

## INSTALLATION TYPICAL



## SPARE / ACCESSORIES

Description	Part No.	Quantity
Vortex Cap	ASPL7070	1 No.
Drained Hose pipe with clamp	ASPL9049	1 No.
Solenoid Valve**		1 No.
Air Filter Regulation**		1 No.
Thermostat**		1 No.
O-Ring Set (VC-01)	ASPL10874	1 SET.
O-Ring Set (VC-02)	ASPL10875	1 SET.

(\*\* As per Installation. )