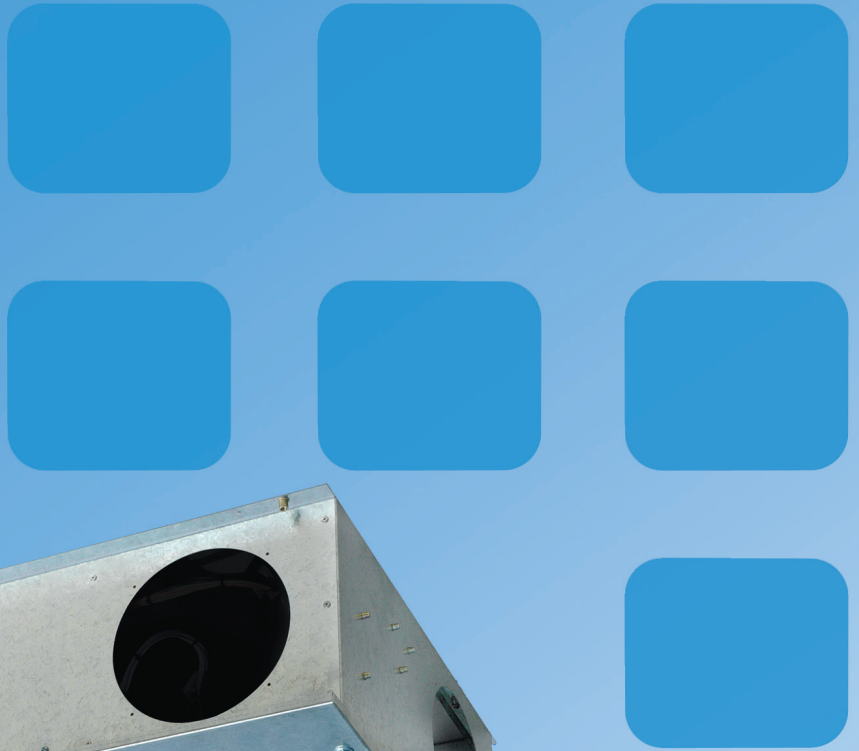


Vapac

Humidification and Steam Generation Specialists



VapaVoid

Horizontal Concealed Humidification System

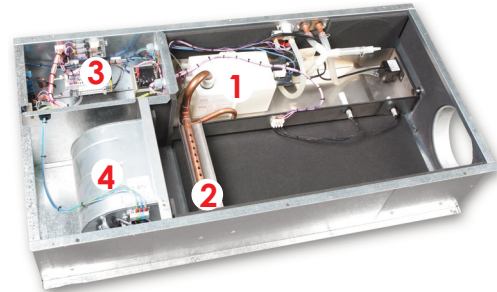
The Company

For over 40 years, Vapac products have been designed, manufactured and recognized as high quality solutions for indoor air humidification needs. Today, Vapac's reliable, efficient and high quality humidification technologies are used by customers in over 45 countries. Our factory team offers its expertise in the application of a wide range of long lasting electrode, resistance and gas-fired steam humidifiers. Our commitment to innovation is enhanced with the introduction of the first horizontal packaged humidification system designed for drop ceiling installation.

VapaVoid Principle

The VapaVoid produces clean, hygienic steam humidification for better air quality. It's the first fully packaged system with a horizontal low profile design to fit standard drop ceiling heights. The VapaVoid cabinet includes all standard components of a typical humidification system such as:

- 1 An electrode steam generator
- 2 A short absorption steam distributor with Vapac patented integral nozzle technology
- 3 A modulating controller with all safety controls
- 4 A low sound fan assembly



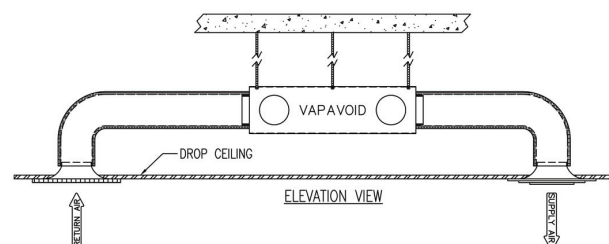
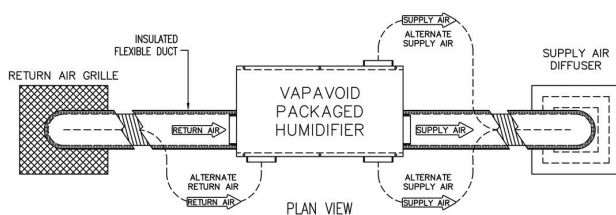
VapaVoid Advantage

The VapaVoid is commonly used in applications where room aesthetics is important and also when:

- no location is available for the installation of a vertical steam generator
- no ductwork is available to install the steam distributor
- the ductwork type, design or location will not allow the installation of a steam distributor
- the humidification system must be totally independent from the HVAC system

And in many more applications, the VapaVoid is the right solution as it can be hidden above the drop ceiling. With its low noise fan, no one will ever suspect the presence of a humidifier in operation.

VapaVoid Typical Installation



VapaVoid Benefits

Horizontal Packaged Humidifier

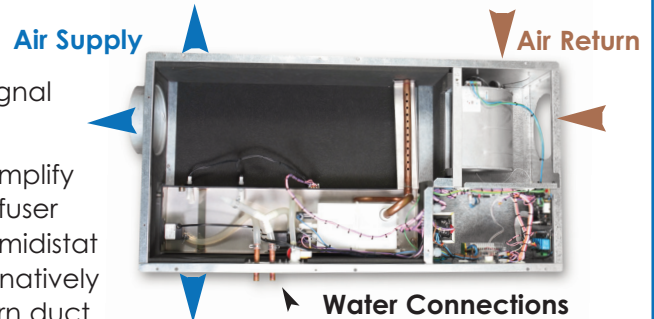
The VapaVoid low profile horizontal cabinet can be installed above most drop ceilings. All of the components of a standard humidification system are included in a single cabinet which means you will never have to install any steam line or steam distributor...**it's packaged!**

Easy Installation

Installed level on ceiling hung steel rods, the VapaVoid requires all typical connections of a steam generator:

- Plumbing: Water supply and drain connections
- Airside: Supply and return duct connections
- Electrical: Power supply connections and control signal from the humidistat

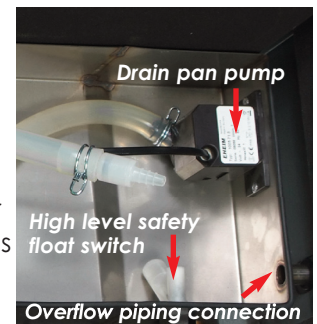
The multiple air return (2) and supply (3) connections simplify the installation of a flexible duct to a nearby supply diffuser and return grille. The only control to be installed is a humidistat which controls the humidity level within the room. Alternatively you may choose to install a duct humidistat in the return duct.



Safe Operation

The VapaVoid is designed with safety as a priority, for a piece of mind operation. The cabinet includes the Vapac standard drain pump which is part of all Vapac steam generators. In addition, a drain pan pump is installed within the stainless steel drain pan to prevent any water spillage.

The drain pan is also fitted with two integral float controls to first energize the pump and then shut-off the operation of the humidifier in case of a high water level in the pan. The drain pan also has an overflow connection to drain excess water by gravity, in case of a drain pan pump or safety float switch failure.



System Control

The VapaVoid control system has the ability to communicate with any Building Management System using the LON™ open protocol. A front mounted LED indicator display clearly shows the operational status of the humidifier. A Remote Indication Panel with alpha-numeric display is also available to monitor the operation of the humidifier.

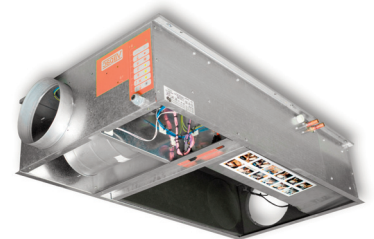


Low Sound Fan Operation

The two speed fan motor assembly helps prevent noise from being an issue with the VapaVoid. At a 35 dbA sound level, the operation of the humidifier installed within the drop ceiling is unnoticeable.

Easy Maintenance

As with all electrode type steam generators, maintenance is as simple as changing the scale-filled canister. And with the VapaVoid removable bottom panels, maintenance personnel have access to the stainless steel drain pan where the canister can be replaced for a new one.



VapaVoid Technical Data

Voltages/ phase	115/1	208/1	240/1	277/1	347/1
Power - kW	2.1	3.8	3.7	3.8	3.8
FLA - Amps	19.0	19.0	17.0	14.5	11.5
Max. o/c protection - Amps	28.5	28.5	25.5	21.75	17.25
Fuse Rating - Amps	30	30	25	25	20
Capacity Min/Max: lbs/hr (kg/hr)	2.2/6.0 (1.0/2.7)	2.2/11(1.0/5.0)	2.2/11(1.0/5.0)	2.2/11(1.0/5.0)	2.2/11(1.0/5.0)
Fan Speed/Static Pressure Drop	Low: 0.14" H ₂ O (36 Pa) High: 0.2" H ₂ O (50 Pa)				
Sound level (dBA)	35 dBA at 3.3 ft. (1 m)				
Cabinet Dimensions	H: 10 in. (254 mm) W: 24 in. (610 mm) L: 46 in. (1168 mm)				
Weight	Dry: 75 lbs (34 kg) Wet: 84 lbs (38 kg)				
Operating Limits	Air Temperature		Water Temperature		Static Pressure
	34°F to 95°F (1°C to 35°C)		34°F to 86°F (1°C to 30°C)		0.2" W.G. (50 Pa)
Water Supply	Conductivity	pH	Supply Pressure	Silica	Hardness
	160 to 1000 µs	7.3 to 8.0	4.4 to 116 psig (0.3 to 8 bar)	≈ 0	50 to 500 ppm
Air, Water and Drain Connections	Supply Water		Drain Outlets	Airside Connections Supply/Return	
	½ in. MPT (flexible hose provided)		3 x ½ in. OD (13 mm OD)	8 in. (200 mm) Round	

Standard Features:

- On/Off/Drain switch
- POWER ON indication light
- Status indication LED: Run, Standby, Fault and Service indications
- LON Works™ compatible
- Dry contact terminals for remote fault indication
- Safety Features: Air proving switch, Low air temperature cut-off, Humidifier and distributor drain pans, High water level cut off switch and Overflow outlet.

VapaVoid Selection

*LFE - C - V - S

		Capacity (lbs/hr)					
-C-	115V	208-347V	-V-	Voltage	-S-	Control Signal	
1	1.1 (0.5)	2.2 (1)	115	115 V/1 ph	00	On/Off or Vapac HC-106/108 controller	
2	2.2 (1)	4.4 (2)	208	208 V/1 ph	05	0-5 Vdc	
3	3.3 (1.5)	6.6 (3)	240	240 V/1 ph	10	0-10 Vdc or Vapac HC-102/107 controller	
4	4.4 (2)	8.8 (4)	277	277 V/1 ph	20	4-20 mA	
5	6.6 (3)	11.0 (5)	347	347 V/1 ph			

Vapac Part No.	Controls	Vapac Part No.	Accessories
	Wall mounted controllers:	62-HH-03	Remote Keypad display:
61-HC-106	Controller, On/Off with dial setpoint		• Remote keypad display with 30 ft. (9 m) wire
61-HC-108	Controller, On/Off with alphanumeric display		• Allows master/slave configuration of up to 10 units
61-HC-102	Controller, Modulating with dial setpoint		• Status indications: Standby, Run, Fault, Demand %, Output %
61-HC-107	Controller, Modulating with alphanumeric display		Filter kit for plenum return applications
		62-FIL-0001	High temperature condensate sump pump:
		62-260-0001	• Allows condensate removal for application requiring more than 9" (230 mm) of condensate lift
			• Includes a safety switch and a 1 gallon (3,8 l) tank

*Example: **LFE-5-240-10** has 11 lbs/hr maximum capacity, operates on 240/1 and is controlled with a 0-10 Vdc signal.

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