



# Virtuoso VE

Electro Boiler  
Humidification

Distributor:

**HUMIDITY**  
SOLUTIONS

Get in touch for more information

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**Vapac**

# Virtuoso VE

## Electro Boiler Humidification

VIRTUOSO VE incorporates an intelligent combination of feeding, boiling and draining to operate efficiently, minimising wastage of water and energy. The unique Pulsed Energy control provides infinitely variable steam output from 8% up to 100% of full capacity.

The unit features a touch screen display panel which is designed with user interaction in mind. It is easy for the user or engineer to gain instant information about the performance of the humidifier.

### Room Distribution Unit (RDU)

An optional room distribution unit is available for models up to 9 Kg/hr (VE05-1P, VE09-1P and VE09-3P); being ideal for applications where air handling units or ducts are unavailable. The RDU can be either directly fixed to the humidifier or remote mounted within the room.



# Virtuoso VE

## Electro Humidification

### FEATURES

<b>7 Capacities</b>	5 - 90 Kg/hr steam generation	<b>Drain Pump</b>	Positive removal of scale from cylinder reducing maintenance frequency
<b>Close Control + Comfort Control from one version</b>	Pulsed Energy control (8 - 100%)	<b>Steam Accessories</b>	Steam hose Steam distribution pipes Condense separators
<b>Electrical Supply Options</b>	400v 3 phase (VE09 to VE90) 230v 1 phase (VE05 and VE09 only)	<b>Optional Accessories</b>	Range of disposable and cleanable steam cylinders to suit all types of mains water qualities Range of different length steam distribution pipes Controlling room and duct sensors High limit humidistats and pressure differential switches for safety interlock Room distribution units for direct air applications
<b>User Display</b>	User friendly touch screen giving operational status and access to service, engineers and commissioning modes		
<b>Control Features</b>	Can be controlled directly from a duct or room mounted humidity sensor (by others) or an external demand signal (e.g. from a BMS)		
<b>Control Network</b>	Can be connected to BMS systems (BACnet and Modbus compatible)		
<b>Run and Alarm Interface</b>	Volt free contact (VFC) interfaces		

A full range of compatible accessories is available on request

### STEAM OUTPUT+ELECTRICAL REQUIREMENTS

Model	Max Steam Output (kg/hr)	Number of cylinders and steam outlets	Dia of Steam Outlets (mm)	Voltage (V)	Electrical Supply	Max Power Rating (kW)	FLC Range per Cylinder (A)	Max Fuse Rating Range (A)
VE05-1P	5	1	35	230	1 phase	3.78	19.5	32
VE09-1P	9	1	35	230	1 phase	6.76	35.5	63
VE09-3P	9	1	35	400	3 phase	6.79	20.5	32
VE18-3P	18	1	35	400	3 phase	13.48	23.5	32
VE30-3P	30	1	54	400	3 phase	22.38	39.0	50
VE45-3P	45	1	54	400	3 phase	33.85	59.0	80
VE60-3P	60	2	54	400	2 x 3 phase	2 x 44.81	2 x 36.5	2 x 50
VE90-3P	90	2	54	400	2 x 3 phase	2 x 67.50	2 x 55.0	2 x 80

It is possible for the units to be operated at differing voltages to those stated above; if required, this should be set by the service engineer at the time of commissioning. Full details are given in the separate service engineers manual.

All 3 phase measured at 400V

### TECHNICAL DATA

Operating Limits	Water Supply	Water and Drain Connections
Ambient Air Temperature 5°C to 35°C Supply Water Temperature 1°C to 30°C Duct Pressure: +2000 to -600 Pa	Conductivity: 100 to 1000µs/cm   pH: 7.3 to 8.0 Supply Pressure: 1.5 to 8.0 bar Hardness: 50 to 500 ppm	Supply Water: ¾" BSP Drain Outlet: 35mm OD

### DIMENSIONS+WEIGHTS

Model	Cabinet Size	Dimensions			Dry Weight (kg) (*2)	Wet Weight (kg) (*3)	Connections	
		Height (mm)	Width (mm)	Depth (mm)			Water (BSP OD)	Drain (mm OD)
VE05-1P	A	730 (*1)	505	335	27.1	32.6	¾"	35
VE09-1P/-3P	A	730 (*1)	505	335	27.1	34.1	¾"	35
VE18-3P	A	730	505	335	27.1	38.6	¾"	35
VE30-3P	B	815	595	430	34.8	62.8	¾"	35
VE45-3P	B	815	595	430	34.8	62.8	¾"	35
VE60-3P	C	815	1050	430	56.1	112.1	2 x ¾"	35
VE90-3P	C	815	1050	430	56.1	112.1	2 x ¾"	35

(\*1) Unit height for VE05/09 with optional RDU fitted is 950mm

(\*2) Dry weight is the weight of the unit as delivered

(\*3) Wet weight is the weight of the unit in operation (i.e. filled with water)

# Virtuoso VE

Electrode **Boiler**  
Humidification

GBA/VAPAC/VIRTUOSO VE/001/0324



**Vapac**

MADE IN BRITAIN

Manufactured by

**NGH**  
NORTEK GLOBAL HVAC™