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Virtuoso VE

Electrode 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.



Energy Efficient - fully automatic water concentration and foam control software minimise water consumption whilst maintaining consistent performance throughout the cylinder's life

Simple Integration - via touchscreen display including connection via Modbus.

Precise Steam Production - built in Proportional + Integral controller as standard.

Advanced Foaming Control - the unit detects and manages foam, optimising water level control.



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.

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FEATURES

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

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

		Dimensions				M-1 M-1-1-1-	Connections	
Model	Cabinet Size	Height (mm)	Width (mm)	Depth (mm)	Dry Weight (kg) (*2)	Wet Weight (kg) (*3)	Water (BSP OD)	Drain (mm OD)
VE05-1P	А	730 (*1)	505	335	27.1	32.6	3/4"	35
VE09-1P/-3P	А	730 (*1)	505	335	27.1	34.1	3/4"	35
VE18-3P	А	730	505	335	27.1	38.6	3/4"	35
VE30-3P	В	815	595	430	34.8	62.8	3/4"	35
VE45-3P	В	815	595	430	34.8	62.8	3/4"	35
VE60-3P	С	815	1050	430	56.1	112.1	2 x ³ / ₄ "	35
VE90-3P	С	815	1050	430	56.1	112.1	2 x ³ / ₄ "	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)

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