

SPECIFICATIONS

Type	Spot type	
Model No.	ER-VS02	
Charge removal time ($\pm 1000V \pm 100V$) (note 1)	Max. 1s (note 2)	
Ion balance	Max. $\pm 10V$ (note 2)	
Ozone generation	Max. 0.03ppm (note 3)	
Applicable fluid	Air (dried clean air) (note 4)	
Supplied air flow	Max. 500ℓ/min. (ANR) (note 5)	
Air pressure range	0.05 to 0.7MPa (note 5)	
Supply voltage	24VDC $\pm 10\%$	
Current consumption	Max. 70mA	
Discharge method	High frequency AC method	
Discharge output voltage	Approx. 2000V	
Check output	NPN open-collector transistor <ul style="list-style-type: none"> • Maximum sink current: 50mA • Applied voltage: max. 30VDC (between check output and 0V) • Residual voltage: max. 1V (at 50mA sink current) 	
	Output operation	ON when a dirt of worn etc. of the discharge needle is detected for 1.5s or more continuously, OFF when operation is normal. (Note 6)
	Short-circuit protection	Incorporated
Error output		NPN open-collector transistor <ul style="list-style-type: none"> • Maximum sink current: 50mA • Applied voltage: max. 30VDC (between error output and 0V) • Residual voltage: max. 1V (at 50mA sink current)
	Output operation	OFF when abnormal discharge is detected, ON when operation is normal
	Short-circuit protection	Incorporated
Discharge halt input	Short-circuit to 0V: Discharge halt Open: Discharge allowed (operation start)	
Reset input	When abnormal discharge is detected, discharge is halted due to an error. Reset the discharge halt by briefly shorting the power supply's 0V line.	
Accessories	Connector for wiring: 1 set [manufactured by Molex: Housing (5557-08R), Terminal (5556TL)]	

Notes:

- 1) Where measurement conditions have not been specified precisely, the conditions used were at an ambient temperature of +20°C.
- 2) A typical sample applied with a supply voltage of 24V, a distance of 100mm from the front surface of the air flow outlet and a pressure of 0.25MPa while the shower nozzle is in use. (Measured on a sample left in the atmosphere at a relative humidity of max. 65% RH for at least 24 hours).
- 3) A typical sample applied with a power voltage of 24V, a distance of 300mm from the front surface of the air flow outlet and a pressure of 0.25MPa while the shower nozzle is in use.
- 4) The dried clean air is defined for air passing through air an dryer (dew point: equivalent of -20°C) and air filter (mesh-size: equivalent of 0.01 μ m)
- 5) The applicable pressure range depends on the nozzle to be used.
- 6) To test whether the check output works properly, the ionizer needs to discharge for at least 2 seconds.