

OMRON Mains-operated / AC adapter operated Nebulizer
Information for Accompanying Documents
in the Scope of IEC 60601-1-2:2014+A1:2020

Important information regarding Electromagnetic Compatibility (EMC)

This device manufactured by OMRON HEALTHCARE Co., Ltd. conforms to IEC 60601-1-2:2014+A1:2020 Electromagnetic Compatibility (EMC) standard. Nevertheless, special precautions need to be observed:

- The use of accessories and cables other than those specified or provided by OMRON could result in increased electromagnetic emission or decreased electromagnetic immunity of the device and result in improper operation.
- During operation, the use of the device adjacent to or stacked with other device should be avoided because it could result in improper operation. In case such use is necessary, the device and other device should be observed to verify that they are operating normally.
- During operation, portable RF communications device (including peripherals such as antenna cables and external antennas) should be used no closer than 12 inches (30 cm) to any part of the device, including cables specified by OMRON. Otherwise, degradation of the performance of the device could result.

Table 1 - EMISSION Limits and Compliance

Phenomenon	EMISSION Limits	Compliance
Conducted and radiated RF EMISSIONS	CISPR 11	Group1, Class B
Voltage fluctuations and flicker	See IEC 61000-3-3	Complies

Table 2 - IMMUNITY TEST LEVELS

Phenomenon	Basic EMC standard	IMMUNITY TEST LEVELS
Electrostatic discharge	IEC 61000-4-2	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air for enclosure port
Radiated RF electromagnetic fields	IEC 61000-4-3	10 V/m 80 MHz to 2.7 GHz 80 % AM at 1 kHz for enclosure port
Proximity fields from RF wireless communications equipment	IEC 61000-4-3	See table 3
Electrical fast transients / bursts	IEC 61000-4-4	±2 kV 100 kHz repetition frequency for input a.c. power port
Surges Line-to-line	IEC 61000-4-5	±0.5 kV, ±1 kV for input a.c. power port
Conducted disturbances induced by RF fields	IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz 6 Vrms in ISM between 150 kHz and 80 MHz 80 % AM at 1 kHz for input a.c. power port
Rated power frequency magnetic fields	IEC 61000-4-8	30 A/m 50 Hz and 60 Hz for enclosure port
Voltage dips	IEC 61000-4-11	0 % U_T ; 0.5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° for input a.c. power port
		0 % U_T ; 1 cycle and 70 % U_T ; 25/30 cycles single phase: at 0° for input a.c. power port
Voltage interruptions	IEC 61000-4-11	0 % U_T ; 250/300 cycle for input a.c. power port
Proximity magnetic fields	IEC 61000-4-39	See table 4

NOTE: U_T is the A.C. mains voltage prior to application of the test level.

Table 3 - Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communications device

[illegible]

Table 4 - Test specifications for ENCLOSURE PORT IMMUNITY to proximity magnetic fields

Test frequency	Service	Modulation	IMMUNITY TEST LEVEL (A/m)
30 kHz	IH (Induction Heating)	CW	8
134.2 kHz	RFID	Pulse modulation 2.1 kHz	65
13.56 MHz	WPT (Qi)	Pulse modulation 50 kHz	7.5

EMC tests have included the AC adapter.