

**OMRON mains-operated Nebulizer CompAir (NE-C801-series)**

Applicable models: Refer to” EMC product reference table Nebulizer”

**Information for accompanying documents in the scope of EN60601-1-2:2015**

**Important information regarding Electro Magnetic Compatibility (EMC)**

This device manufactured by OMRON HEALTHCARE Co., Ltd. conforms to EN60601-1-2:2015 Electro Magnetic 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.
- 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.
- Portable RF communications device (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the device, including cables specified by OMRON. Otherwise, degradation of the performance of the device could result.
- Refer to further guidance below regarding the EMC environment in which the device should be used.

Table 1 - EMISSION Limits and Compliance

| Phenomenon                          | EMISSION Limits   | Compliance      |
|-------------------------------------|-------------------|-----------------|
| Conducted and radiated RF EMISSIONS | CISPR 11          | Group1, Class B |
| Harmonic distortion                 | See IEC 61000-3-2 | Class A         |
| 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<br>±2 kV,±4 kV,±8 kV,±15 kV air                                                                       |
| Radiated RF electromagnetic fields                                            | IEC 61000-4-3      | 10 V/m<br>80 MHz to 2.7 GHz<br>80 % AM at 1 kHz                                                                     |
| Proximity fields from RF wireless communications equipment                    | IEC 61000-4-3      | See table 3                                                                                                         |
| Electrical fast transients / bursts                                           | IEC 61000-4-4      | ±2 kV for Input power port<br>±1 kV for Signal input/output parts port<br>100 kHz repetition frequency              |
| Surges<br>Line-to-line                                                        | IEC 61000-4-5      | ±1 kV                                                                                                               |
| Surges<br>Line-to-ground                                                      | IEC 61000-4-5      | ±2 kV                                                                                                               |
| Conducted disturbances induced by RF fields                                   | IEC 61000-4-6      | 3 Vrms<br>150 kHz to 80 MHz<br>6 Vrms in ISM and amateur radio bands between 150 kHz and 80 MHz<br>80 % AM at 1 kHz |
| Rated power frequency magnetic fields                                         | IEC 61000-4-8      | 30 A/m<br>50 Hz or 60 Hz                                                                                            |
| Voltage dips                                                                  | IEC 61000-4-11     | 0 % $U_T$ ; 0.5 cycle<br>At 0°,45°,90°,135°,180°,225°,270°and 315°                                                  |
|                                                                               |                    | 0 % $U_T$ ; 1 cycle<br>and<br>70 % $U_T$ ; 25/30 cycles<br>single phase: at 0°                                      |
| Voltage interruptions                                                         | IEC 61000-4-11     | 0 % $U_T$ ; 250/300 cycle                                                                                           |
| 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

| Test frequency (MHz) | Band (MHz)   | Service                                                                        | Modulation                            | Maximum power (W) | Distance (m) | IMMUNITY TEST LEVEL (V/m) |
|----------------------|--------------|--------------------------------------------------------------------------------|---------------------------------------|-------------------|--------------|---------------------------|
| 385                  | 380 to 390   | TETRA 400                                                                      | Pulse modulation<br>18 Hz             | 1.8               | 0.3          | 27                        |
| 450                  | 430 to 470   | GMRS 460,<br>FRS 460                                                           | FM<br>± 5 kHz deviation<br>1 kHz sine | 2                 | 0.3          | 28                        |
| 710                  | 704 to 787   | LTE Band 13, 17                                                                | Pulse modulation<br>217 Hz            | 0.2               | 0.3          | 9                         |
| 745                  |              |                                                                                |                                       |                   |              |                           |
| 780                  |              |                                                                                |                                       |                   |              |                           |
| 810                  | 800 to 960   | GSM 800/900,<br>TETRA 800,<br>iDEN 820,<br>CDMA 850,<br>LTE Band 5             | Pulse modulation<br>18 Hz             | 2                 | 0.3          | 28                        |
| 870                  |              |                                                                                |                                       |                   |              |                           |
| 930                  |              |                                                                                |                                       |                   |              |                           |
| 1720                 | 1700 to 1990 | GSM 1800;<br>CDMA 1900;<br>GSM 1900;<br>DECT;<br>LTE Band 1, 3,<br>4, 25; UMTS | Pulse modulation<br>217 Hz            | 2                 | 0.3          | 28                        |
| 1845                 |              |                                                                                |                                       |                   |              |                           |
| 1970                 |              |                                                                                |                                       |                   |              |                           |
| 2450                 | 2400 to 2570 | Bluetooth,<br>WLAN,<br>802.11 b/g/n ,<br>RFID 2450,<br>LTE Band 7              | Pulse modulation<br>217 Hz            | 2                 | 0.3          | 28                        |
| 5240                 | 5100 to 5800 | WLAN 802.11<br>a/n                                                             | Pulse modulation<br>217 Hz            | 0.2               | 0.3          | 9                         |
| 5500                 |              |                                                                                |                                       |                   |              |                           |
| 5785                 |              |                                                                                |                                       |                   |              |                           |

EMC tests have included the AC-adaptor as included with the product.