

9. Dust Sensor - Shinyei Kaisha, Type PP3NS, rated 5 V dc. Assembled on printed wiring board, R/C, ZPMV2, rated min V-0, 105°C, CTI: 2, 58 mm by 48 mm by min 1.5 mm thick, suitable for direct support of live parts. Secured to Bottom Main Case by a screw. All live parts are enclosed with 0.4 mm thick stainless steel barrier secured to this PWB by soldering.
10. Gas Sensor - FIS Inc., Type SP3S, rated 5 V dc. Assembled on printed wiring board, R/C, ZPMV2, rated V-0, 105°C, CTI: 2, 48 mm by 25 mm by min 1.5 mm thick, suitable for direct support of live parts. Secured to Bottom Main Case by a 1.5 mm steel support and two screws.
11. LED Module Housing - R/C, QMFZ2, GE Plastics Korea Ltd., PPHOX designated "Noryl", Type PX9406, rated 5VA, 105°C. Min 2.5 mm thick, overall 106 mm by 40 mm by 13.7 mm high.
12. NTC Thermistor - Type KT2C14AU-A, manufactured by Korea sensor Ind. Co., Ltd, rated 10 K ohm. Secured to Bottom Main Body.
13. UV Lamp - Two provided. Type CCFL4.0/172UVC, manufactured by Jangwon, rated 400 V, 5 mA, wave length: 253.7 nm. 4 mm dia by 172 mm long. Each secured to Bottom Main Body by two UV Lamp Brackets.
15. UV Lamp Holder - Four provided. R/C, QMFZ2, LG Chemical Ltd, Type, AF345, rated V-0, 60°C. Min 1.5 mm thick, overall 210 mm by 14 mm by 15 mm high. Each secured by one screw.
16. UV Lamp Holder Cover - Two provided for each UV Lamp Holder.
17. UV Interlock Boards - Two provided, Secured to Bottom Main Body by 2 bosses/screws.

Constructed as follows:

- A. Printed Wiring Board - R/C, ZPMV2, rated min V-0, 105°C, CTI: 2. Suitable for direct support of live parts. Min 1.5 mm thick, overall 40 mm by 20 mm.
 - B. Interlock Switches - R/C WOYR2/CN, Salecom Electronics Co Ltd, Cat. No. T80-P870, rated 125 V, 60 Hz, 1A.
 - C. Capacitor - Two provided, 0.1 mF, 50 V.
18. UV Ballast - Unlisted Component(FKVS3/9), Model DC12-04170-2, Refer to Vol.4, Sec.1.

Manufacturer's

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Issued: 2006-03-18
Revised: 2007-11-12

DESCRIPTION

PRODUCT COVERED:

USL, CNL - Ion Generator/Air Cleaner, Model ENVIROTECT Clean Air 704EC.

ELECTRICAL RATINGS:

Designation No.	V	Hz	W
ENVIROTECT Clean Air 704EC	120	60	800

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

*The product covered by this Report is of a cord-connected portable type for indoor, household use. The units are intended to remove dust and other particles suspended in airflow by precipitation on a mechanical filter media. The unit incorporates an ionizer for emitting ions into the air along with filtered air, which are continuously operated for the unit's power-on and can not be stopped by the user, a blower motor and electronic circuitries, such as a dust sensor and gas sensor, for a feedback network which sense a degree of air pollution and adjust the fan speed accordingly. The unit also incorporates an UV lighting function with UV lamps for sterilizing of filtered air and an interlock system that de-energizes the unit when the filter case is removed for user's maintenance. The system of unit do not allow automatically restart. The interlock system was subjected 100,000 c endurance test. The unit also provides PTC heater assemblies for delivering warm heated air, the temperature of which is set by the user. The unit allows the fan speed to be automatically adjusted in accordance with a degree of air pollution in an automatic mode, and to be manually selected with buttons. All live parts are housed within polymeric enclosures and there is no exposed dead metal parts. The units can be manually operated with buttons on the control plate or remotely operated with an infrared control.

The unit is provided with an interlock system that de-energizes the unit when the front cover is removed for filter replacement.

The units are not intended for use in hazardous locations or to clean atmospheres defined as hazardous by the National Electrical Code, ANSI/NFPA 70.

The units are not intended to remove particles other than dust and other particles normally found in heating and ventilation systems.

The physiological effects of this product have not been investigated by Underwriters Laboratories Inc.

USL - Indicates investigation to UL 867, Fourth Edition, Electrostatic Air Cleaners.

CNL - Indicates investigation to CSA C22.2 No. 187-M1986, Electrostatic Air Cleaners.