



NYC Department of Buildings
280 Broadway, New York, NY 10007
Patricia Lancaster, FAIA, Commissioner
(212) 566-5000, TTY: (212) 566-4769

Report of Materials and Equipment Acceptance Division

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use subject to the terms and conditions contained herein.

MEA 16-06-E

Manufacturer: Quiet-Air Manufacturing Inc. 2367 Arson Drive
Mississauga, Ontario L3T 2N8

Trade Name(s): Ecology Air Purification

Product: APU (Air Purification Unit) air filtration system for the removal and/or abatement of grease, smoke and odor for commercial cooking operations. This system shall exhaust to grease ducts as required as per RS-13.

Pertinent Code Section(s): Reference standard RS-13 and 27-137 Alternate or equivalent equipment.

Prescribed Test(s): NFPA 96, UL 705

Laboratory: Underwriters Laboratories

Test Report(s): No. MH30136, Dated 12/5/05

Description: The environAir APU consists of a filter section utilizing a three-stage impingement filtration process that is designed to progressively remove the exhaust grease, lint, dust, and particulate smoke from commercial cooking operations. The exhausted air from the cooking operation passes through the kitchen hood(s) and is ducted to the APU for the removal of the remaining particulate grease and smoke. The unit may also consist of an odor removal section utilizing either a chemical spray or media tray for the abatement of cooking odors, and a blower/fan section. Inter-grated or stand-alone modules are available for the filter, odor, and blower/fan sections of the system. The system is UL/ULC listed and meets the NFPA 96.

APU Model No.	CFM Range
01	500-1100
02	1100-2000
03	2100-3000
04	3100-4000
05	4100-5000
06	5100-6000
08	6100-8000
09	8100-9000
10	9100-10000
12	10100-12000
14	12100-14000
15	14100-15000
16	15100-16000
18	16100-18000
20	18100-20000
24	20100-24000
28	24100-28000
32	28100-32000
36	32100-36000
40	36100-40000

Pursuant to “Promulgation of the Rules relating to Materials and Equipment Application Procedures” dated November 5, 1992, the Bureau of Prevention has no objections letter dated April 23, 2002, F.P Index NO.0203024 and letter dated April 13, 2006 F.P Index #.0602004.

Terms and Conditions: That the above referenced air purification units are for use in grease ducts of commercial range hood installations. The exhaust air from commercial cooking operations passes through the air purification unit to remove particles of grease and smoke. The unit consists of a filter section and optional fire damper, optional odor removal section and optional fan section with the fan motor located within the air stream.

RS13-3 prohibits the use of dampers in commercial cooking exhaust duct systems. In addition, pursuant to NFPA 96 of 1994 in-line exhaust fans must be designed with the motor pulley located outside the air stream. Accordingly, this department disapproves the application for these optional equipment related to exhaust hoods with dampers and inline exhaust fans with motor and pulley in the air stream and on further condition that:

1. The exhaust system shall be connected to heavy gauge grease ducts and meeting RS-13 as required by New York City Building Code and not AC exhaust system as indicated in the manufacturer’s literature.
2. The UL listed air purification filter units that are provided without dampers and without the optional fan for use in grease ducts are subject to the following

conditions:

- A)** Installation, maintenance cleaning procedures and use shall comply with RS 13-3 of the Building Code and all applicable New York City Codes, rules, regulations, and maintenance requirements.
- B)** Approved automatic fire extinguishing system shall be provided for the component filter sections and the ductwork down stream of the equipment.
- C)** Filter housing equipment surfaces clearances shall not be less than 18 inches from interior surfaces clearances of combustible construction and shall not be less than 6 inches clearance from the interior surfaces of noncombustible construction.
- D)** Air from filter units shall exhaust to outside the building in accordance with requirements of RS13-3.
- E)** Duct from the outlet of the air purification filter to outside the building shall be constructed in accordance with the requirements RS13-3.
- F)** Underwriters Laboratories Inc.'s listing requirements and limitations shall be complied with.
- G)** Manufacturer's installation, maintenance procedures and limitations shall be complied with.
- H)** Only optional fan section that has the motor and pulley located outside the air stream for use in grease ducts that comply with all insulating, installation and other requirements of RS13-3 of the Building Code may be used.

All shipments and deliveries of such equipment shall be provided with a metal tag, suitably placed, certifying that the equipment shipped or delivered is equivalent to those tested and accepted for use, as provided for in Section 27-131 of the Building Code.

Final Acceptance

5/1/06

Examined by

Sryan M. Masai