



Report of Materials and Equipment Acceptance Division

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

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 87-03-E Vol. II

Manufacturer: Concepts & Designs Inc.
P.O. Box 288
2100 Park Drive
Owatonna, MN 55060

Trade Name(s): Concepts & Designs

Product: Custom Air conditioning Units.

Pertinent Code Section(s): 27-770, 27-777.

Prescribed Test(s): RS 13-6 (ANSI B9.1), RS 13-11 (UL 1995).

Laboratory: Intertek Testing Services Inc.

Test Report(s): J97010858.006 dated August 18, 2005, and J20030213-002 dated August 9, 2005.

Description – Custom commercial/industrial packaged HVAC equipment with integral air cooled condensing unit section Series 20, RAE Corp., Series ACZ McQuay International. The products covered by this report are packaged air handlers designed for commercial use. The products consist of the appropriate overall casing and combination of active and passive components intended to condition air in the service area. The AHU units may contain an integral air cooled condensing unit section, DX, chilled water, hot water, or steam coils, humidification, indirect gas heat and direct gas heat subject to several limitations. The product is intended for permanent connection to all utilities, and may be installed indoors or outdoors.

| Model Number | Unit Width | Unit Height | Chilled Water Cooling Capacity (BTU/hr) | DX Cooling Coil Capacity (BTU/hr) | Hot Water Heating Coil Capacity (BTU/hr) | Steam Heating Coil Capacity (BTU/hr) |
|---------------------|-------------------|--------------------|--|--|---|---|
| AHU-OA | 48 | 30 | 259,520 | 259,520 | 283,500 | 253,170 |
| AHU-0B | 48 | 36 | 334,170 | 334,170 | 364,500 | 354,420 |
| AHU-0C | 48 | 40 | 371,250 | 371,250 | 405,000 | 354,420 |
| AHU-0D | 48 | 47 | 445,500 | 445,500 | 486,000 | 506,250 |
| AHU-2C | 72 | 40 | 618,750 | 618,750 | 675,000 | 590,670 |
| AHU-1 E | 60 | 54 | 742,500 | 742,500 | 810,000 | 742,500 |
| AHU-2D | 72 | 47 | 742,500 | 742,500 | 810,000 | 843,750 |
| AHU-3D | 84 | 47 | 849,750 | 849,750 | 972,000 | 1,012,500 |
| AHU-2E | 72 | 54 | 928,170 | 928,170 | 1,012,500 | 928,170 |
| AHU-3E | 84 | 54 | 1,113,750 | 1,113,750 | 1,215,000 | 1,113,750 |
| AHU-4E | 99 | 56 | 1,345,770 | 1,345,770 | 1,468,170 | 1,345,770 |
| AHU-4F | 99 | 64 | 1,525,230 | 1,525,230 | 1,663,920 | 1,172,790 |
| AHU-5F | 123 | 64 | 1,945,980 | 1,945,980 | 2,122,920 | 2,185,290 |
| AHU-4H | 99 | 81.5 | 1,973,790 | 1,973,790 | 2,153,250 | 2,079,810 |
| AHU-5G | 123 | 72 | 2,060,460 | 2,060,460 | 2,247,750 | 2,497,500 |
| AHU-4K | 99 | 100.5 | 2,512,170 | 2,512,170 | 2,740,500 | 2,691,540 |
| AHU-5H | 123 | 81.5 | 2,518,290 | 2,518,290 | 2,747,250 | 2,809,710 |
| AHU-6H | 143 | 81.5 | 2,972,070 | 2,972,070 | 3,242,250 | 3,315,960 |
| AHU-5K | 123 | 100.5 | 3,205,170 | 3,205,170 | 3,496,500 | 3,434,040 |
| AHU-6J | 143 | 92 | 3,512,430 | 3,512,430 | 3,831,750 | 3,684,420 |
| AHU-8H | 174 | 83.5 | 3,675,420 | 3,675,420 | 4,009,500 | 4,100,670 |
| AHU-6L | 143 | 122 | 4,052,790 | 4,052,790 | 4,421,250 | 4,052,790 |
| AHU-8J | 174 | 94 | 4,343,670 | 4,343,670 | 4,738,500 | 4,556,250 |
| AHU-9J | 202 | 94 | 5,094,360 | 5,094,360 | 5,557,500 | 5,343,750 |
| AHU-7N | 150 | 122 | 4,838,670 | 4,838,670 | 5,278,500 | 5,433,750 |
| AHU-8M | 174 | 112 | 5,346,000 | 5,346,000 | 5,832,000 | 5,467,500 |
| AHU-9L | 202 | 106 | 5,878,170 | 5,878,170 | 6,412,500 | 5,878,170 |
| AHU-8N | 174 | 122 | 5,680,170 | 5,680,170 | 6,196,500 | 6,378,750 |
| AHU-8P | 174 | 130 | 6,014,250 | 6,014,250 | 6,561,000 | 6,834,420 |
| AHU-8R | 174 | 140 | 6,515,460 | 6,515,460 | 7,107,750 | 7,290,000 |
| AHU-9S | 202 | 151 | 8,229,420 | 8,229,420 | 8,977,500 | 9,084,420 |

Terms and Conditions: The above described air conditioning units are accepted for indoor and outdoor installation, when utilizing Refrigerant R-22 or R-407C, under the following conditions:

1. If utilized for residence heating, the circulatory air system shall have (a) one register or grille without closable shutters and the duct leading thereto shall be without a damper or (b) dampers and shutters within the system shall be constructed or controlled so as to prevent closure beyond 80 percent of the gross duct area at all times.
2. 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 that tested and accepted for use, as provided for in Section 27-131 of the Building Code.
3. Approval of electrical equipment, apparatus, materials and devices shall be obtained from the Department before installation.

Final Acceptance October 12, 2005

Examined by Sian Derkhdam