

CITY OF NEW YORK
DEPARTMENT OF BUILDINGS

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use in accordance with the Report of the Material and Equipment Acceptance (MEA) Division.

Patricia J. Lancaster, A.I.A., Commissioner
MEA 195-03-E

Report of Materials and Equipment Acceptance Division

Manufacturer – Concepts & Designs, Inc., 2100 Park Drive, Owatonna, MN 55060.

Trade Name – Concepts & Designs.

Product – Dehumidifiers/HVAC to condition and move air.

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

Prescribed Tests – RS 13-6 (ANSI B9.1), RS 13-11 (CSA C22.2 No. 236; UL 1995).

Laboratory - Intertek Testing Services, NA Inc.

Test Report – No. J20030213-002 dated April 27, 2001.

Description – Dehumidification unit consisting of an air handling unit with two separate air streams. Reactivation air is drawn through the desiccant wheel by a centrifugal type fan. Reactivation of the desiccant is accomplished with the use of either direct fired gas, steam, hot water, or electric heat. Supply air is drawn through the units by fans of various designs. Filters of the appropriate type may be used in the conditioned air stream. Unit with model numbers and their ratings are listed below:

Model Number	Maximum Input (BTU)	Supply Air (CFM)		Reactivation Air (CFM)	
		Min	Max	Min	Max
DH-122	118,000	594	1,500	198	500
DH-130	235,443	1,104	3,000	368	1,000
DH-138	372,784	1,772	4,750	591	1,583
DH-142	431,645	2,165	5,500	722	1,833
DH-148	569,000	2,827	7,250	942	2,417
DH-160	941,771	4,418	12,000	1,473	4,000
DH-168	1,098,000	5,675	14,000	1,891	4,667
DH-176	1,334,175	7,088	17,000	2,363	5,667
DH-185	1,888,541	8,866	24,000	2,955	8,000
DH-196	2,354,426	11,310	30,000	3,770	10,000
DH-1108	2,943,033	14,314	37,500	4,771	12,500
DH-1114	2,943,033	15,949	37,500	5,316	12,500
DH-1120	3,531,640	17,672	45,000	5,890	15,000
MDH-148	569,000	5,600	7,250	1,867	2,417
MDH-160	941,000	7,300	12,000	2,433	4,000
MDH-168	1,098,732	5,675	14,000	1,891	4,668
MDH-176	1,333,000	14,100	17,000	4,700	5,667
MDH-185	1,882,000	8,866	24,000	2,955	8,000
MDH-196	2,354,426	11,310	30,000	3,770	10,000
MDH-1108	2,943,033	14,314	37,500	4,771	12,500
MDH-1114	2,943,033	15,949	37,500	5,316	12,500
MDH-1120	3,531,640	17,672	45,000	5,890	15,000

Clearances - Units may be installed on combustible flooring. Minimum installed clearances from combustible construction shall be as follows: top, sides, ends - 6 inches; bottom - acceptable from combustible flooring.

Recommendation - That the above described dehumidification unit, in conjunction with compatible heat rejection equipment such as a cooling tower or outdoor air cooled condenser, be accepted under the following conditions:

1. All outdoor equipment shall be furnished with permanently affixed metal tags stating that if installed in New York City within 100 feet of any dwelling unit window, there shall be compliance with provisions Section 27-770, as to maximum sound levels permitted for exterior mechanical equipment.
2. All shipments and deliveries of such equipment shall be accompanied by a certificate or label certifying that the equipment shipped or delivered is equivalent to that tested and acceptable for use, as provided for in Section 27-131 of the Building Code.
3. Approval of all electrical equipment, apparatus, materials and devices shall be obtained from the Bureau of Electrical Control before installation.

Final Acceptance 7/21/03

Examined by Raymond J. Jervis