

**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 88-02-E
Report of Material and Equipment Acceptance Division**

Manufacturer - Yazaki Resources Co., Ltd., Japan for Yazaki Energy Systems, Inc., 13740 Omega Road, Dallas, Tx 75244.

Trade Name - Aroace.

Product – Gas fired absorption chiller/heater units.

Pertinent Code Section(s) - 27-770, 27-777, 27-800.

Prescribed Tests - RS 13-6 (ANSI B.9.1), RS 13-11 (UL 1995), RS.14-6 (UL 795, Z21.17).

Laboratory - Underwriters Laboratories Inc.

Test Report(s) – UL File SA6368, dated March 25, 2002.

Description – Gas fired, double effect absorption chiller, heater assemblies, model CH-K, intended for chilling or heating water used for commercial or industrial equipment. Water is used as the refrigerant media and lithium bromide is the absorbent media. All refrigerant vessels used in the units, normally operate under vacuum conditions. Units are provided with water cooled condenser, evaporator, heat exchanger and power type gas burner of the manufacturer's own design to heat the refrigerant. Units are designed for low/high firing operation in the heating mode. Units, with model numbers and input heating rating for gas burners for heating and cooling mode, are listed below.

Absorption Chiller-Heater Model	Heating High Fire Firing Rate, Btu/h	Cooling High Fire Firing Rate, Btu/h	Cooling Low Fire Firing Rate, Btu/h
CH-K30	353,000	353,000	247,000
CH-K40	471,000	471,000	330,000
CH-K50	588,000	588,000	412,000
CH-K60	706,000	706,000	494,000
CH-K80	941,000	941,000	659,000
CH-K100	1,176,000	1,176,000	823,000

Note: Minimum installed clearances from combustibile construction shall be in accordance with RS 14-15 of the New York City Building Code.

Recommendation - That the above gas fired absorption chiller/heaters in conjunction with compatible heat rejection equipment such as cooling tower (not part of this application) be accepted using natural gas and lithium bromide with the minimum clearances to combustible construction as described above, when connected with compatible gas vent in accordance with Article 15 of the Building Code, under the following conditions:

1. Cooling tower or other compatible outdoor heat rejection equipment if installed within 100 feet of any dwelling unit window, complies with all provisions of Section 27-770, as to maximum sound levels permitted for exterior mechanical equipment.
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 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 4/15/02

Examined by Sybil M. Grace