

**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 Materials and Equipment Acceptance (MEA) Division.

**Patricia J. Lancaster, F.A.I.A., Commissioner
MEA165-04-E
Report of Material and Equipment Acceptance
Division**

**Manufacturer - Oakwood Air Limited, 34 Menolia Road, Etobicoke, Ontario
Toronto M9W 4Z7.**

Trade Name - Heatwave.

Product - Heat pump units.

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

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

Laboratory - Entela Inc.

Test Report(s) - No. FC38081-2, dated January 17, 2002.

Description - Packaged, self contained heat pump units designed for outdoor installation. R-22 is the refrigerant used for the system. Units consist of compressor, air cooled condensing coil and fan, evaporator coil and blower, capillary tubing, heating-cooling reversing valve, pressure limiting device and pertinent safety controls. Units, with model numbers, cooling and heating capacities are listed below in the table.

Water Cooled Horizontal Heat Pumps

EXISTING/CANAD	NEW/USA	MTS	RATINGS	AMPERAGE	HZ	Tons
WHC12-1HP	WHZP0121	LHA12NSU2HP	208-230/1	8	60	1.0
WHC18-1HP	WHZP0181	LHA18NSU2HP	208-230/1	12	60	1.5
WHC24-1HP	WHZP0241	LHA24NSU2HP	208-230/1	13	60	2.0
WHC24-3HP	WHZP0243	LHA24TSU2HP	208-230/3	8.5	60	2.0
WHC24-4HP	WHZP0244	LHA30NSU2HP	460/3	3	60	2.0
WHC30-1HP	WHZP0301	1 HA30TSU2HP	208-230/1	17.5	60	2.5
WHC30-3HP	WHZP0303	LHA30YSU2HP	208-2 3 0/3	12.5	60	2.5
WHC30-4HP	WHZP0304	LHA30ZSU2HP	4(30/3)	3.5	60	2.5
WHC36-1HP	WHZP0361	LHA36NSU2HP	208-230/1	20	60	3.0
WHC36-3UP	WHZP0363	LHA36TSU2HP	208-230/3	14	60	3.0
WHC36-4HP	WHZP0364	LHA36YSU2HP	4(30/3)	9	60	3.0
WHC36-5HP	WHZP0365	LHA36ZSU2HP	575/3	8	60	3.0
WHC44-1HP	WHZP0441	LHA44NSU2HP	208-230/1	23	60	3.5
WHC44-3HP	WHZP0443	LHA44TSU2HP	208-230/3	16	60	3.5
WHC44-4HP	WHZP0444	LHA44YSU2HP	460/3	10	60	3.5
WHC44-5HP	WHZP0445	LKA44ZSU2HP	575/3	9	60	3.5
WHC48-1HP	WHZP0481	LHA48NSU2HP	208-230/1	26	60	4.0
WHC48-3HP	WHZP0483	LHA48TSU2HP	208-230/3	20	60	4.0
WHC48-4HP	WHZP0484	LHA48YSU2HP	460/3	13	60	4.0
WHC48-5HP	WHZP0485	LHA48ZSU2HP	575/3	10	60	4.0

WHC60-1HP	WHZP0601	LHA60NSU2HP	208-230/1	35	60	5.0
W/HC60-3HP	WHZP0603	LHA60TSU2HP	208-230/3	23	60	5.0
WHC60-4HP	WHZP0604	LHA60YSU2HP	460/3	15	60	5.0
WHC60-5HP	WHZP0605	LHA60ZSU2HP	575/3	10	60	5.0
WHC90-3HP	WHZP0963	LHA90TSU2HP	208-230/3	33	60	7.5
WHC90-4HP	WHZP0964	LHA90YSU2HP	460/3	16	60	7.5
WHC90-5HP	WHZP0965	LHA90ZSU2HP	575/3	14	60	7.5
WHC120-3HP	WHZP1203	LHA120TSU2HP	208-230/3	42	60	10.0
WHC120-4HP	WHZP1204	LHA120YSU2HP	460/3	21	60	10.0
WHC120-5HP	WKZP120S	LHA120ZSU2HP	575/3	17	60	10.0

Water Cooled Vertical Heat Pumps

EXISTING/CANADA	NEW/USA	MODEL	RATINGS	AMPERAGE	HZ	Tons
WPC12-1HP	WVTP0121	LVA12NSU2HP	208-230/1	8	60	1.0
WPC13-1HP	WVTP0181	LVA18NSU2HP	208-230/1	12	60	1.5
WPC24-1HP	WVTP0241	LVA24NSU2HP	208-230/1	13	60	2.0
WPC24-3HP	WVTP0243	LVA24TSU2HP	208-230/3	8.5	60	2.0
WPC30-1HP	WVTP0301	LVA30TSU2HP	208-230/1	3	60	2.5
WPC30-3HP	WVTP0303	LVA30YSU2HP	208-230/3	12.5	60	2.5
WPC30-4HP	WVTP0304	LVA30ZSU2HP	460/3	3.5	60	2.5
WPC36-1HP	WVTP0361	LVA36NSU2HP	208-230/1	20	60	3.0
WPC36-3HP	WVTP0363	LVA36TSU2HP	208-230/3	14	60	3.0
WPC36-4HP	WVTP0364	LVA36YSU2HP	460/3	9	60	3.0
WPC36-5HP	WVTP0365	LVA36ZSU2HP	575/3	8	60	3.0
WPC44-1HP	WVTP0441	LVA44NSU2HP	208-230/1	23	60	3.5
WPC44-3HP	WVTP0443	LVA44TSU2HP	208-230/3	16	60	3.5
WPC44-4HP	WVTP0444	LVA44YSU2HP	460/3	10	60	3.5
WPC44-5HP	WVTP0445	LVA44ZSU2HP	575/3	9	60	3.5
WPC48-1HP	WVTP0481	LVA48NSU2HP	208-230/1	26	60	4.0
WPC48-3HP	WVTP0483	LVA48TSU2HP	208-230/3	20	60	4.0
WPC48-4HP	WVTP0484	LVA48YSU2HP	460/3	13	60	4.0
WPC48-5HP	WVTP0485	LVA48ZSU2HP	575/3	10	60	4.0
WPC60-1HP	WVTP0601	LVA60NSU2HP	208-230/1	35	60	5.0
WPC60-3HP	WVTP0603	LVA60TSU2HP	208-230/3	23	60	5.0
WPC60-4HP	WVTP0604	LVA60YSU2HP	460/3	15	60	5.0
WPC60-5HP	WVTP0605	LVA60ZSU2HP	575/3	10	60	5.0
WPC90-3HP	WVTP0963	LVA90TSU2HP	208-230/3	33	60	7.5
WPC90-4HP	WVTP0964	LVA90YSU2HP	460/3	16	60	7.5
WPC90-5HP	WVTP0965	LVA90ZSU2HP	575/3	14	60	7.5
WPC120-3HP	WVTP1203	LVA120TSU2HP	208-230/3	42	60	10.0
WPC120-4HP	WVTP1204	LVA120YSU2HP	460/3	21	60	10.0
WPC120-5HP	WVTP1205	LVA120ZSU2HP	575/3	17	60	10.0
WPC180-3HP	WVTP1803	LVA180TSU2HP	208-230/3	53.5	60	15.0
WPC180-4HP	WVTP1804	LVA180YSU2HP	460/3	26.77	60	15.0
WPC180-5HP	WVTP1805	LVA180ZSU2HP	575/3	23	60	15.0
WPC240-3HP	WVTP2403	LVA240TSU2HP	208-230/3	80	60	20.0
WPC240-4HP	WVTP2404	LVA240YSU2HP	460/3	39.5	60	20.0
WPC240-5HP	WVTP2405	LVA240ZSU2HP	575/3	30.5	60	20.0
WPC300-3HP	WVTP3003	LVA300TSU2HP	208-230/3	103.5	60	25.0
WPC300-4HP	WVTP3004	LVA300YSU2HP	460/3	51	60	25.0
WPC300-5HP	WVTP3005	LVA300ZSU2HP	575/3	41	60	25.0

Recommendation - That the above described packaged heat pump units be accepted for outdoor installation only, when utilizing Refrigerant R-22, 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. All equipment shall be furnished with a permanently affixed metal tag stating that if installed in New York City within 100 feet of any dwelling unit window, there shall be provisions with all provisions of Section 27-770, as to maximum sound levels permitted for exterior mechanical equipment.**
- 4. Approval of electrical equipment, apparatus, materials and devices shall be obtained from the Bureau of Electrical Control before installation.**

Final Acceptance

9/22/04

Examined By.

Stephen M. [Signature]