

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 196-03-E

Report Materials and Equipment Acceptance Division

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

Trade Name – Concepts & Designs.

Product – Indirect fired unit heaters.

Pertinent Code Section(s) – 27-800, 27-826, RS 14-2 (ANSI Z223.1).

Prescribed Tests – RS 14-6 (UL 795).

Laboratory – ETL Testing Laboratories Inc.

Test Report – No. 532732, dated September 30, 1993.

Description – Indirect fired make-up air heater, designed for industrial or commercial use. These units incorporate a heater section, all gas controls, a fan, and may include a filter section. A sheet metal enclosure covers all components. The unit may be installed either indoors or outdoors, and is intended for permanent connection to the power supply.

The model number table includes IDF, IDFB and IDFP model numbers. IDF signifies indirect fired, IDFB signifies indirect fired with a blower and IDFP signifies indirect fired with a propeller fan. These units can be used with optional filter sections, DX, steam, hot water or chilled water coils, humidifiers, and is offered with either low pressure propeller fans, medium pressure forward curved blowers or higher pressure backward inclined or airfoil blowers.

Model Number				Maximum CFM	Max. Temp. Rise #2 Oil	Max. Input (BTU/HR) #2 Oil
IDF	IDFP	IDFB	112-200	4500	120	200000
IDF	IDFP	IDFB	112-250	4500	120	250000
IDF	IDFP	IDFB	112-350	4500	120	350000
IDF	IDFP	IDFB	212-400	9000	120	400000
IDF	IDFP	IDFB	212-500	9000	120	500000
IDF	IDFP	IDFB	212-550	9000	120	550000
IDF	IDFP	IDFB	215-550	21000	120	550000
IDF	IDFP	IDFB	215-650	21000	120	650000
IDF	IDFP	IDFB	215-750	21000	120	750000
IDF	IDFP	IDFB	218-750	21000	120	750000

Model Number				Maximum CFM	Max. Temp. Rise #2 Oil	Max. Input (BTU/HR) #2 Oil
IDF	IDFP	IDFB	218-850	21000	120	850000
IDF	IDFP	IDFB	218-1000	25000	120	1000000
IDF	IDFP	IDFB	318-1000	25000	120	1000000
IDF	IDFP	IDFB	318-1250	25000	120	1250000
IDF	IDFP	IDFB	318-1500	25000	120	1500000
IDF	IDFP	IDFB	318-1750	30000	120	1750000
IDF	IDFP	IDFB	318-2000	30000	120	2000000
IDF	IDFP	IDFB	318-2500	30000	120	2500000
IDF	IDFP	IDFB	320-2750	45000	120	2750000
IDF	IDFP	IDFB	320-3000	45000	120	3000000
IDF	IDFP	IDFB	320-3500	45000	120	3500000
IDF	IDFP	IDFB	325-3500	75000	120	3500000
IDF	IDFP	IDFB	325-4000	75000	120	4000000
IDF	IDFP	IDFB	325-4500	75000	120	4500000
IDF	IDFP	IDFB	330-4500	96000	120	4500000
IDF	IDFP	IDFB	330-5000	96000	120	5000000
IDF	IDFP	IDFB	300-6000	96000	120	6000000
IDF	IDFP	IDFB	224-400	15000	65	400000
IDF	IDFP	IDFB	224-500	15000	65	500000
IDF	IDFP	IDFB	224-550	15000	65	550000
IDF	IDFP	IDFB	230-550	27000	65	550000
IDF	IDFP	IDFB	230-650	27000	65	650000
IDF	IDFP	IDFB	230-750	27000	65	750000
IDF	IDFP	IDFB	230-7000	27000	65	1000000
IDF	IDFP	IDFB	242-550	30000	65	550000
IDF	IDFP	IDFB	242-650	30000	65	650000
IDF	IDFP	IDFB	242-1750	30000	65	750000
IDF	IDFP	IDFB	242-1000	30000	65	1000000
IDF	IDFP	IDFB	248-650	51000	65	650000
IDF	IDFP	IDFB	248-750	51000	65	750000
IDF	IDFP	IDFB	248-1000	51000	65	1000000
IDF	IDFP	IDFB	248-1250	51000	65	1250000
IDF	IDFP	IDFB	248-1500	51000	65	1500000
IDF	IDFP	IDFB	248-1750	51000	65	2000000
IDF	IDFP	IDFB	254-100	62000	65	1000000
IDF	IDFP	IDFB	254-1250	62000	65	1250000
IDF	IDFP	IDFB	254-1500	62000	65	1500000
IDF	IDFP	IDFB	254-1750	62000	65	1750000
IDF	IDFP	IDFB	254-2000	62000	65	2000000
IDF	IDFP	IDFB	254-2500	62000	65	2500000
IDF	IDFP	IDFB	254-2750	62000	65	2750000

Model Number				Maximum CFM	Max. Temp. Rise #2 Oil	Max. Input (BTU/HR) #2 Oil
IDF	IDFP	IDFB	254-3000	62000	65	3000000
IDF	IDFP	IDFB	260-1500	100000	65	1500000
IDF	IDFP	IDFB	260-1750	100000	65	1750000
IDF	IDFP	IDFB	260-2000	100000	65	2000000
IDF	IDFP	IDFB	260-2500	100000	65	2500000
IDF	IDFP	IDFB	260-2750	100000	65	2750000
IDF	IDFP	IDFB	260-3000	100000	65	3000000
IDF	IDFP	IDFB	260-3500	100000	65	3500000
IDF	IDFP	IDFB	260-4000	100000	65	4000000
IDF	IDFP	IDFB	360-2500	150000	65	2500000
IDF	IDFP	IDFB	360-2750	150000	65	2750000
IDF	IDFP	IDFB	360-3000	150000	65	3000000
IDF	IDFP	IDFB	360-3500	150000	65	3500000
IDF	IDFP	IDFB	360-4000	150000	65	4000000
IDF	IDFP	IDFB	360-5000	150000	65	5000000
IDF	IDFP	IDFB	360-6000	150000	65	6000000

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 described direct fired gas make-up air heater be accepted for operation on natural gas only, under the following conditions:

1. Heaters shall not be operated until installation is approved for such operation by the Gas Company.
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 7/21/03

Examined by Shyam M. Ghoshal