

**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.

Richard C. Visconti, R.A., Acting Commissioner  
MEA 184-00-E

Report of Material and Equipment Acceptance Division

Manufacturer– Modine Manufacturing Company, 1500 Dekoven Avenue, Racine, Wisconsin 53403.

Trade Name – Modine.

Product – Gas fired duct furnaces/separated combustion.

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

Prescribed Tests– RS 14-6(ANSI Z83.8).

Laboratory – CSA International Laboratories.

Test Report(s) – CSA File No. 168694-1004684 dated March 1, 2000.

Description – Self-contained power exhausted gas fired indoor separated combustion duct furnace/make up air unit designed to indirectly heat air via sheet metal heat exchanger. Typically applied to HVAC systems for comfort heating and suitable for use in commercial or light industrial buildings. Available in 11 model sizes with input ranges from 75,000 to 400,000 (Btu/Hr) and operates on natural gas. Modine separated combustion duct furnace uses outdoor air for combustion. Units are comprised of the following: aluminized steel heat exchanger, aluminized steel burner with separator strip, power exhauster assembly, combination gas valve, intermittent pilot ignition system, temperature limit control and concentric vent kit. Units, with model numbers and input heating ratings are listed below:

Model No.	Max.	Min.	No. of tubes and burners
DFS75	75,000	30,000	5
DFS100	100,000	40,000	6
DFS125	125,000	50,000	6
DFS150	150,000	60,000	8
DFS175	175,000	70,000	8
DFS200	200,000	80,000	8
DFS225	225,000	90,000	8
DFS250	250,000	100,000	10
DFS300	300,000	120,000	10
DFS350	350,000	140,000	14
DFS400	400,000	160,000	14

Notes: 1. Model numbers may have prefixes DBS or DCS.

## 2. INSTALLATION CLEARANCES

Top - 3"  
Top Service Clearance - 10"

Front - 2"  
Front Service Clearance - DFS75 - 18"; DFS100-125 - 20"; DFS150-175 - 25"; DFS200-225 - 27"; DFS250-300 - 30"; DFS350-400 - 41".

Rear - 0"  
Rear Service Clearance - 6"

Floor - 1"  
Vent - 3"

For installation on combustible flooring.  
may be installed downstream from a refrigeration system.

## 3. VENT/AIR INTAKE SYSTEM

Appliance Model No.	Component Mfr.	Part/Model No.	Material Type	Dia.	Length		Cap to outside wall (in.) Air/Vent
					Max.	Min.	
DFS75	Gary Steel Essick Air Boss Air	1092 Briedert Type L	Galvanized	4"	48'	5'	12/24
DFS100 DFS175	Gary Steel Essick Air Boss Air	1092 Briedert Type L	Galvanized	4"	55'	5'	12/24
DFS200 DFS225 DFS350 DFS400	Gary Steel Essick Air Boss Air	1092 Briedert Type L	Galvanized	6"	70'	5'	12/24
DFS250 DFS300	Gary Steel Essick Air Boss Air	1092 Briedert Type L	Galvanized	6"	63'	5'	12/24

## SEALANT FOR JOINTS FOR VENT/AIR INTAKE SYSTEM

Manufacturer	Type
All (for vent)	Metallic Tape or Silastic for temperature up to 400°F

Recommendation - That the above described gas fired power vented duct furnaces designed for indoor installation, be accepted for use with natural gas only, 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. If furnace is installed in combination with cooling system then heating/cooling system shall be MEA accepted.
3. This acceptance does not include any vent damper device, which may be added to the installation.
4. Provision for combustion air and ventilation air shall be made in accordance with Section 27-807 and other applicable Code requirements.
5. 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 those tested and accepted for use, as provided for in Section 27-131 of the Building Code.
6. Approval of all electrical equipment, apparatus, materials and devices shall be obtained from the Bureau of Electrical Control before installation.

Final Acceptance JUN 28 2000

Examined By S Deekhdam