

**Commercial & Industrial
Applied Product Line**

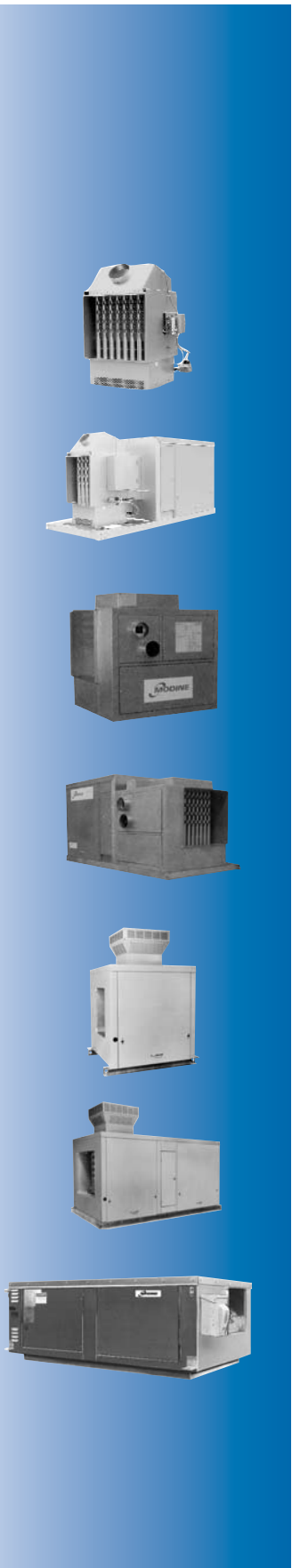


**Heating
Ventilating
Cooling
Make-Up Air**



Modine has always been the industry standard in the commercial and industrial comfort-heating market. With the Modine product line, you can solve your application needs with duct furnaces and direct-fired or indirect-fired make-up air systems, with heating capacities up to 7,862,000 Btu/hr. Available in indoor and outdoor configurations, air-handling capacities are as high as 60,000 CFM.

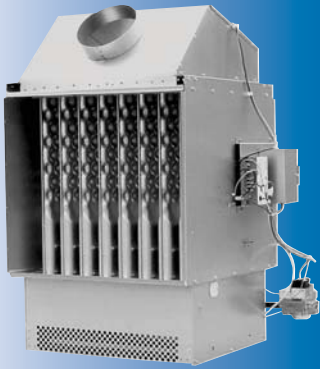
Modine sales representatives are experienced specialists in the engineering, selection and application of Modine commercial and industrial heating and ventilating equipment. Located near you, these representatives can help you satisfy your comfort needs and indoor air-quality requirements. Contact your Modine product source for assistance in providing top-quality, high-efficiency Indoor Air Solutions.



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INDOOR GAS-FIRED GRAVITY VENTED DUCT FURNACE HEATING AND/OR MAKE-UP AIR UNITS

- Low Initial Cost • Applications Cover Heating and/or Make-Up Air • 75,000 to 400,000 Btu/Hr Input Capacity
- Low Maintenance • Easy to Service



MODEL DFG

The Modine indoor gravity vented duct furnace was designed for use with a building's heating, heating/cooling and make-up air systems. Modine gravity vented duct furnaces are specifically designed for lost cost installations. Available in 11 model sizes, the unit covers a wide variety of applications. They have input ranges from 75,000 to 400,000 Btu/Hr and can operate on either natural or propane gas. The airflow direction can be specified when ordering the unit. The duct furnace is certified for location either upstream or downstream from cooling coils and has a drain pan that allows connection to a condensate drain line.

Standard Features:

- C.S.A. certification – bearing C.S.A. logos
- ETL certification
- All units a minimum of 80% thermally efficient
- 20 gauge aluminized steel cabinet
- Certified to 3.0" W.C. external static pressure

Optional Features:

- 409 stainless steel heat exchanger and burner
- 409 stainless steel drip pan
- Two-stage, mechanical modulation, and electronic modulation controls for either natural or propane gas
- Building management compatible gas controls for modulation control using 0 - 10 Vdc or 4 - 20 mA input
- High and/or low gas pressure switches

Performance Data ① ②

| Model No. | Btu/Hr | | Low Temperature | | High Temperature | |
|-----------|---------|---------|-----------------------------|----------------|-----------------------------|----------------|
| | Input | Output | Temperature Rise Range (°F) | CFM Range | Temperature Rise Range (°F) | CFM Range |
| DFG 75 | 75,000 | 60,000 | 20 - 60 | 926 - 2,778 | 20 - 100 | 556 - 2,778 |
| DFG100 | 100,000 | 80,000 | 20 - 60 | 1,235 - 3,704 | 20 - 100 | 741 - 3,704 |
| DFG125 | 125,000 | 100,000 | 20 - 60 | 1,543 - 4,630 | 20 - 100 | 926 - 4,630 |
| DFG150 | 150,000 | 120,000 | 20 - 60 | 1,852 - 5,556 | 20 - 100 | 1,111 - 5,556 |
| DFG175 | 175,000 | 140,000 | 20 - 60 | 2,160 - 6,481 | 20 - 100 | 1,296 - 6,481 |
| DFG200 | 200,000 | 160,000 | 20 - 60 | 2,469 - 7,407 | 20 - 100 | 1,481 - 7,407 |
| DFG225 | 225,000 | 180,000 | 20 - 60 | 2,778 - 8,333 | 20 - 100 | 1,667 - 8,333 |
| DFG250 | 250,000 | 200,000 | 20 - 60 | 3,086 - 9,259 | 20 - 100 | 1,852 - 9,259 |
| DFG300 | 300,000 | 240,000 | 20 - 60 | 3,704 - 11,111 | 20 - 100 | 2,222 - 11,111 |
| DFG350 | 350,000 | 280,000 | 20 - 60 | 4,321 - 12,963 | 23 - 100 | 2,593 - 11,111 |
| DFG400 | 400,000 | 320,000 | 20 - 60 | 4,938 - 14,815 | 27 - 100 | 2,963 - 11,111 |

① Ratings are shown for elevations up to 2,000 feet.

② Units approved for use in California by CEC.

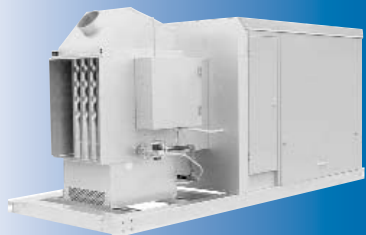


DO NOT LOCATE ANY GAS-FIRED UNIT IN AREAS WITH CHLORINATED, HALOGENATED OR ACIDIC VAPORS IN ATMOSPHERE.

Request Catalog 5-173 For Complete Technical Information and Specifications.

INDOOR GAS-FIRED GRAVITY VENTED SYSTEM UNITS HEATING, COOLING, VENTILATING, AND MAKE-UP AIR UNITS

- Applications Cover Heating-Only, Heating/Ventilating, Cooling, and/or Make-Up Air • 75,000 to 1,200,000 Btu/Hr Input Capacity • Large Selection of Blower Fan/Drive and Motor Combination Available • Easy to Service



MODEL DBG

The Modine indoor gravity vented duct furnace with blower and/or cooling sections was designed for use with a building's heating, heating/ventilating/cooling and make-up air systems. Modine gravity vented duct furnaces are specifically designed for low cost installations. Available in 17 model sizes, the unit covers a wide variety of applications. They have input ranges from 75,000 to 1,200,000 Btu/Hr and can operate on either natural or propane gas. The airflow ranges from 556 to 14,500 CFM and the airflow direction can be specified when ordering the unit. The unit can be provided with a cooling coil section with either a factory installed DX or chilled water cooling coil or the coil can be provided by others.

Standard Features:

- ETL certification of the entire system unit
- 18 gauge insulated aluminized steel blower cabinet with a baked-on polyester powder paint finish on exterior casing parts
- Blower performance up to 3.0" W.C. external static pressure

Optional Features:

- DX or chilled water section with factory installed cooling coil
- Double wall construction for blower and/or cooling cabinet
- Dead-front disconnect switches
- Two position, modulating, building pressure sensing, three position, building management (0 - 10 Vdc or 4 - 20 mA input) damper actuators
- Blower and motor vibration isolation

Performance Data

| Model No. | Btu/Hr Input ① | Btu/Hr Output ① | Temperature Rise Range (°F) | CFM Range | Total Static Pressure Range (Inches w.c.) |
|------------|----------------|-----------------|-----------------------------|----------------|-------------------------------------------|
| DBG/DCG75 | 75,000 | 60,000 | 20 - 100 | 556 - 2,778 | 0 - 3.0 |
| DBG/DCG100 | 100,000 | 80,000 | 20 - 100 | 741 - 3,704 | 0 - 3.0 |
| DBG/DCG125 | 125,000 | 100,000 | 20 - 100 | 926 - 4,630 | 0 - 3.0 |
| DBG/DCG150 | 150,000 | 120,000 | 20 - 100 | 1,111 - 5,556 | 0 - 3.0 |
| DBG/DCG175 | 175,000 | 140,000 | 23 - 100 | 1,296 - 5,556 | 0 - 3.0 |
| DBG/DCG200 | 200,000 | 160,000 | 23 - 100 | 1,481 - 6,500 | 0 - 3.0 |
| DBG/DCG225 | 225,000 | 180,000 | 26 - 100 | 1,667 - 6,500 | 0 - 3.0 |
| DBG/DCG250 | 250,000 | 200,000 | 20 - 100 | 1,852 - 9,259 | 0 - 3.0 |
| DBG/DCG300 | 300,000 | 240,000 | 20 - 100 | 2,222 - 11,111 | 0 - 3.0 |
| DBG/DCG350 | 350,000 | 280,000 | 22 - 100 | 2,593 - 12,000 | 0 - 3.0 |
| DBG/DCG400 | 400,000 | 320,000 | 25 - 100 | 2,963 - 12,000 | 0 - 3.0 |
| DBG/DCG500 | 500,000 | 400,000 | 40 - 120 | 3,086 - 9,259 | 0 - 3.0 |
| DBG/DCG600 | 600,000 | 480,000 | 40 - 120 | 3,704 - 11,111 | 0 - 3.0 |
| DBG/DCG700 | 700,000 | 560,000 | 40 - 120 | 4,321 - 12,963 | 0 - 3.0 |
| DBG/DCG800 | 800,000 | 640,000 | 41 - 120 | 4,938 - 14,500 | 0 - 3.0 |
| DBG/DCG840 | 1,050,000 | 840,000 | 60 - 120 | 6,481 - 12,963 | 0 - 3.0 |
| DBG/DCG900 | 1,200,000 | 960,000 | 63 - 120 | 7,407 - 14,500 | 0 - 3.0 |

① Ratings are shown for elevations up to 2000 feet.

Cooling Coil Performance Data

| Model No. | Cooling Coil | | |
|-----------|--------------|---------------------|----------------------|
| | Maximum CFM | Max. Cooling Tons ② | |
| | | DX Coil ③ | Chilled Water Coil ③ |
| 75 | 1,891 | 9.38 | 10.56 |
| 100/125 | 2,206 | 11.43 | 12.62 |
| 150/175 | 2,521 | 13.42 | 14.77 |
| 200/225 | 3,352 | 18.12 | 19.28 |
| 250/300 | 3,724 | 20.24 | 21.33 |
| 350/400 | 5,214 | 27.26 | 29.25 |

② 1 Ton = 12,000 Btu/Hr

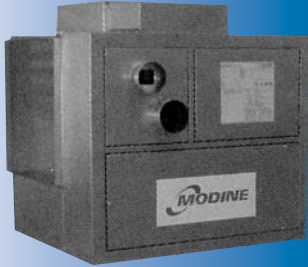
③ Based on 95°F entering dry bulb, 75°F entering wet bulb



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INDOOR GAS-FIRED SEPARATED COMBUSTION DUCT FURNACE HEATING AND/OR MAKE-UP AIR UNITS

- Low Initial Cost • Applications Cover Heating and/or Make-Up Air • 75,000 to 400,000 Btu/Hr Input Capacity
- Low Maintenance • Easy to Service



MODEL DFS

The Modine indoor separated combustion duct furnace was designed for use with a building's heating, heating/cooling and make-up air systems. Modine separated combustion duct furnaces are specifically designed for buildings with hostile atmospheric conditions, such as high humidity or negative pressures. Available in 11 power exhausted model sizes, the unit covers a wide variety of applications. They have input ranges from 75,000 to 400,000 Btu/Hr and can operate on either natural or propane gas. The airflow direction can be specified when ordering the unit. The duct furnace is certified for location either upstream or downstream from cooling coils and has a drain pan that allows connection to a condensate drain line.

Standard Features:

- C.S.A. certification – bearing C.S.A. logos
- ETL certification
- All units a minimum of 80% thermally efficient
- 20 gauge aluminized steel cabinet
- Certified to 3.0" W.C. external static pressure
- Separate electrical, venting, and gas control access with fully gasketed doors

Optional Features:

- 409 stainless steel heat exchanger and burner
- 409 stainless steel drip pan
- Two-stage, mechanical modulation, and electronic modulation controls for either natural or propane gas
- Building management compatible gas controls for modulation control using 0 - 10 Vdc or 4 - 20 mA input
- High and/or low gas pressure switches

Performance Data ① ②

| Model No. | Btu/Hr | | Low Temperature | | High Temperature | |
|-----------|---------|---------|-----------------------------|----------------|-----------------------------|----------------|
| | Input | Output | Temperature Rise Range (°F) | CFM Range | Temperature Rise Range (°F) | CFM Range |
| DFS 75 | 75,000 | 60,000 | 20 - 60 | 926 - 2,778 | 20 - 100 | 556 - 2,778 |
| DFS100 | 100,000 | 80,000 | 20 - 60 | 1,235 - 3,704 | 20 - 100 | 741 - 3,704 |
| DFS125 | 125,000 | 100,000 | 20 - 60 | 1,543 - 4,630 | 20 - 100 | 926 - 4,630 |
| DFS150 | 150,000 | 120,000 | 20 - 60 | 1,852 - 5,556 | 20 - 100 | 1,111 - 5,556 |
| DFS175 | 175,000 | 140,000 | 20 - 60 | 2,160 - 6,481 | 20 - 100 | 1,296 - 6,481 |
| DFS200 | 200,000 | 160,000 | 20 - 60 | 2,469 - 7,407 | 20 - 100 | 1,481 - 7,407 |
| DFS225 | 225,000 | 180,000 | 20 - 60 | 2,778 - 8,333 | 20 - 100 | 1,667 - 8,333 |
| DFS250 | 250,000 | 200,000 | 20 - 60 | 3,086 - 9,259 | 20 - 100 | 1,852 - 9,259 |
| DFS300 | 300,000 | 240,000 | 20 - 60 | 3,704 - 11,111 | 20 - 100 | 2,222 - 11,111 |
| DFS350 | 350,000 | 280,000 | 20 - 60 | 4,321 - 12,963 | 23 - 100 | 2,593 - 11,111 |
| DFS400 | 400,000 | 320,000 | 20 - 60 | 4,938 - 14,815 | 27 - 100 | 2,963 - 11,111 |

① Ratings are shown for elevations up to 2,000 feet.
 ② Units approved for use in California by CEC.

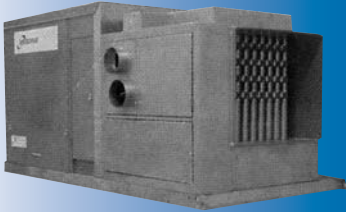


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INDOOR GAS-FIRED SEPARATED COMBUSTION SYSTEM UNITS HEATING, COOLING, VENTILATING, AND MAKE-UP AIR UNITS

- Applications Cover Heating-Only, Heating/Ventilating, Cooling, and/or Make-Up Air • 75,000 to 1,200,000 Btu/Hr Input Capacity • Large Selection of Blower Fan/Drive and Motor Combination Available • Easy to Service



MODEL DBS

The Modine indoor separated combustion duct furnace with blower and/or cooling sections was designed for use with a building's heating, heating/ventilating/cooling and make-up air systems. Modine separated combustion duct furnaces are specifically designed for buildings with hostile atmospheric conditions, such as high humidity or negative pressures. Available in 17 power exhausted model sizes, the unit covers a wide variety of applications. They have input ranges from 75,000 to 1,200,000 Btu/Hr and can operate on either natural or propane gas. The airflow ranges from 556 to 14,500 CFM and the airflow direction can be specified when ordering the unit. The unit can be provided with a cooling coil section with either a factory installed DX or chilled water cooling coil or the coil can be provided by others.

Standard Features:

- ETL certification of the entire system unit
- 18 gauge insulated aluminized steel blower cabinet with a baked-on polyester powder paint finish on exterior casing parts
- Blower performance up to 3.0" W.C. external static pressure
- Separate electrical, venting, and gas control access with fully gasketed doors

Optional Features:

- DX or chilled water section with factory installed cooling coil
- Double wall construction for blower and/or cooling cabinet
- Dead-front disconnect switches
- Two position, modulating, building pressure sensing, three position, building management (0 - 10 Vdc or 4 - 20 mA input) damper actuators
- Blower and motor vibration isolation

Performance Data

| Model No. | Btu/Hr Input ① | Btu/Hr Output ① | Temperature Rise Range (°F) | CFM Range | Total Static Pressure Range (Inches w.c.) |
|------------|----------------|-----------------|-----------------------------|----------------|-------------------------------------------|
| DBS/DCS75 | 75,000 | 60,000 | 20 - 100 | 556 - 2,778 | 0 - 3.0 |
| DBS/DCS100 | 100,000 | 80,000 | 20 - 100 | 741 - 3,704 | 0 - 3.0 |
| DBS/DCS125 | 125,000 | 100,000 | 20 - 100 | 926 - 4,630 | 0 - 3.0 |
| DBS/DCS150 | 150,000 | 120,000 | 20 - 100 | 1,111 - 5,556 | 0 - 3.0 |
| DBS/DCS175 | 175,000 | 140,000 | 23 - 100 | 1,296 - 5,556 | 0 - 3.0 |
| DBS/DCS200 | 200,000 | 160,000 | 23 - 100 | 1,481 - 6,500 | 0 - 3.0 |
| DBS/DCS225 | 225,000 | 180,000 | 26 - 100 | 1,667 - 6,500 | 0 - 3.0 |
| DBS/DCS250 | 250,000 | 200,000 | 20 - 100 | 1,852 - 9,259 | 0 - 3.0 |
| DBS/DCS300 | 300,000 | 240,000 | 20 - 100 | 2,222 - 11,111 | 0 - 3.0 |
| DBS/DCS350 | 350,000 | 280,000 | 22 - 100 | 2,593 - 12,000 | 0 - 3.0 |
| DBS/DCS400 | 400,000 | 320,000 | 25 - 100 | 2,963 - 12,000 | 0 - 3.0 |
| DBS/DCS500 | 500,000 | 400,000 | 40 - 120 | 3,086 - 9,259 | 0 - 3.0 |
| DBS/DCS600 | 600,000 | 480,000 | 40 - 120 | 3,704 - 11,111 | 0 - 3.0 |
| DBS/DCS700 | 700,000 | 560,000 | 40 - 120 | 4,321 - 12,963 | 0 - 3.0 |
| DBS/DCS800 | 800,000 | 640,000 | 41 - 120 | 4,938 - 14,500 | 0 - 3.0 |
| DBS/DCS840 | 1,050,000 | 840,000 | 60 - 120 | 6,481 - 12,963 | 0 - 3.0 |
| DBS/DCS900 | 1,200,000 | 960,000 | 63 - 120 | 7,407 - 14,500 | 0 - 3.0 |

① Ratings are shown for elevations up to 2000 feet.

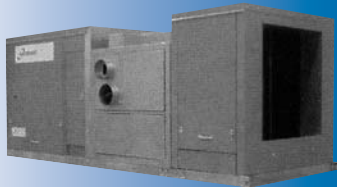
Cooling Coil Performance Data

| Model No. | Cooling Coil | | |
|-----------|--------------|---------------------|---------------------|
| | Maximum CFM | Max. Cooling Tons ② | |
| | | DX Coil③ | Chilled Water Coil③ |
| 75 | 1,891 | 9.38 | 10.56 |
| 100/125 | 2,206 | 11.43 | 12.62 |
| 150/175 | 2,521 | 13.42 | 14.77 |
| 200/225 | 3,352 | 18.12 | 19.28 |
| 250/300 | 3,724 | 20.24 | 21.33 |
| 350/400 | 5,214 | 27.26 | 29.25 |

② 1 Ton = 12,000 Btu/Hr

③ Based on 95°F entering dry bulb, 75°F entering wet bulb

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MODEL DCS



WEATHERHAWK™ WEATHERPROOF GAS-FIRED DUCT-FURNACE HEATING AND/OR MAKE-UP AIR UNITS

- Low Initial Cost • Applications Cover Heating and/or Make-Up Air • 75,000 to 400,000 Btu/Hr Input Capacity
- Low Maintenance • Easy to Service



MODEL HFG



MODEL HFP

The Modine WeatherHawk weatherproof duct furnace was designed for use with a building's heating, heating/cooling and make-up air systems. Available in 11 gravity or power vented model sizes, the unit covers a wide variety of applications. They have input ranges from 75,000 to 400,000 Btu/Hr and can operate on either natural or propane gas. The airflow direction can be specified when ordering the unit. The duct furnace is certified for location either upstream or downstream from cooling coils and has holes to drain any condensate that may form onto the roof.

Standard Features:

- C.S.A. certification – bearing C.S.A. logos
- ETL certification
- All units a minimum of 80% thermal efficient
- 18 gauge aluminized steel cabinet with a baked-on polyester powder paint finish on exterior casing parts
- Certified to 3.0" W.C. external static pressure

Optional Features:

- 409 stainless steel heat exchanger and burner
- 409 stainless steel drip pan
- Two-stage, mechanical modulation, and electronic modulation controls for either natural or propane gas.
- Building management compatible gas controls for modulation control using 0 - 10 Vdc or 4 - 20 mA input
- High and/or low gas pressure switches

Performance Data ① ②

| Model No. | Btu/Hr | | Low Temperature | | High Temperature | |
|------------|---------|---------|-----------------------------|----------------|-----------------------------|----------------|
| | Input | Output | Temperature Rise Range (°F) | CFM Range | Temperature Rise Range (°F) | CFM Range |
| HFG/HFP75 | 75,000 | 60,000 | 20 - 60 | 926 - 2,778 | 20 - 100 | 556 - 2,778 |
| HFG/HFP100 | 100,000 | 80,000 | 20 - 60 | 1,235 - 3,704 | 20 - 100 | 741 - 3,704 |
| HFG/HFP125 | 125,000 | 100,000 | 20 - 60 | 1,543 - 4,630 | 20 - 100 | 926 - 4,630 |
| HFG/HFP150 | 150,000 | 120,000 | 20 - 60 | 1,852 - 5,556 | 20 - 100 | 1,111 - 5,556 |
| HFG/HFP175 | 175,000 | 140,000 | 20 - 60 | 2,160 - 6,481 | 20 - 100 | 1,296 - 6,481 |
| HFG/HFP200 | 200,000 | 160,000 | 20 - 60 | 2,469 - 7,407 | 20 - 100 | 1,481 - 7,407 |
| HFG/HFP225 | 225,000 | 180,000 | 20 - 60 | 2,778 - 8,333 | 20 - 100 | 1,667 - 8,333 |
| HFG/HFP250 | 250,000 | 200,000 | 20 - 60 | 3,086 - 9,259 | 20 - 100 | 1,852 - 9,259 |
| HFG/HFP300 | 300,000 | 240,000 | 20 - 60 | 3,704 - 11,111 | 20 - 100 | 2,222 - 11,111 |
| HFG/HFP350 | 350,000 | 280,000 | 20 - 60 | 4,321 - 12,963 | 23 - 100 | 2,593 - 11,111 |
| HFG/HFP400 | 400,000 | 320,000 | 20 - 60 | 4,938 - 14,815 | 27 - 100 | 2,963 - 11,111 |

① Ratings are shown for elevations up to 2,000 feet.

② Units approved for use in California by CEC.



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WEATHERHAWK™ WEATHERPROOF GAS-FIRED SYSTEM UNITS HEATING, COOLING, VENTILATING, AND MAKE-UP AIR UNITS

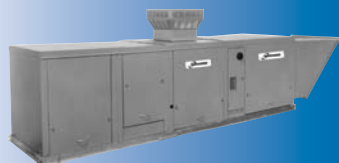
• Applications Cover Heating-Only, Heating/Ventilating, Cooling, and/or Make-Up Air • 75,000 to 1,200,000 Btu/Hr Input Capacity • Large Selection of Blower Fan/Drive and Motor Combination Available • Easy to Service



MODEL HBG



MODEL HDG



MODEL HPG



The Modine weatherproof duct furnace with blower, cooling, and/or downturn plenum sections was designed for use with a building's heating, heating/ventilating/cooling and make-up air systems. Available in 17 gravity or power vented model sizes, the unit covers a wide variety of applications. They have input ranges from 75,000 to 1,200,000 Btu/Hr and can operate on either natural or propane gas. The airflow ranges from 556 to 14,500 CFM and the airflow direction can be specified when ordering the unit. The unit can be provided with a cooling coil section with either a factory installed DX or chilled water cooling coil or the coil can be provided by others.



Standard Features:

- ETL certification of the entire system unit
- 18 gauge insulated aluminized steel cabinet with a baked-on polyester powder paint finish on exterior casing parts
- Blower performance up to 3.0" W.C. external static pressure
- Side or bottom (through a roof curb) gas and electrical connection access

Optional Features:

- DX or chilled water section with factory installed cooling coil.
- Double wall construction for blower, cooling cabinet, and/or downturn plenum sections
- Dead-front disconnect switches
- Two position, modulating, building pressure sensing, three position, building management (0 - 10 Vdc or 4 - 20 mA input) damper actuators
- Blower and motor vibration isolation

Performance Data

| Model No. ① | Btu/Hr Input ② | Btu/Hr Output ② | Temperature Rise Range (°F) | CFM Range | Total Static Pressure Range (Inches w.c.) |
|--------------------|----------------|-----------------|-----------------------------|----------------|-------------------------------------------|
| HBG/HCG/HDG/HPG75 | 75,000 | 60,000 | 20 - 100 | 556 - 2,778 | 0 - 3.0 |
| HBG/HCG/HDG/HPG100 | 100,000 | 80,000 | 20 - 100 | 741 - 3,704 | 0 - 3.0 |
| HBG/HCG/HDG/HPG125 | 125,000 | 100,000 | 20 - 100 | 926 - 4,630 | 0 - 3.0 |
| HBG/HCG/HDG/HPG150 | 150,000 | 120,000 | 20 - 100 | 1,111 - 4,630 | 0 - 3.0 |
| HBG/HCG/HDG/HPG175 | 175,000 | 140,000 | 23 - 100 | 1,296 - 5,556 | 0 - 3.0 |
| HBG/HCG/HDG/HPG200 | 200,000 | 160,000 | 23 - 100 | 1,481 - 6,500 | 0 - 3.0 |
| HBG/HCG/HDG/HPG225 | 225,000 | 180,000 | 26 - 100 | 1,667 - 6,500 | 0 - 3.0 |
| HBG/HCG/HDG/HPG250 | 250,000 | 200,000 | 20 - 100 | 1,852 - 9,259 | 0 - 3.0 |
| HBG/HCG/HDG/HPG300 | 300,000 | 240,000 | 20 - 100 | 2,222 - 11,111 | 0 - 3.0 |
| HBG/HCG/HDG/HPG350 | 350,000 | 280,000 | 22 - 100 | 2,593 - 12,000 | 0 - 3.0 |
| HBG/HCG/HDG/HPG400 | 400,000 | 320,000 | 25 - 100 | 2,963 - 12,000 | 0 - 3.0 |
| HBG/HCG/HDG/HPG500 | 500,000 | 400,000 | 40 - 120 | 3,086 - 9,259 | 0 - 3.0 |
| HBG/HCG/HDG/HPG600 | 600,000 | 480,000 | 40 - 120 | 3,704 - 11,111 | 0 - 3.0 |
| HBG/HCG/HDG/HPG700 | 700,000 | 560,000 | 40 - 120 | 4,321 - 12,963 | 0 - 3.0 |
| HBG/HCG/HDG/HPG800 | 800,000 | 640,000 | 41 - 120 | 4,938 - 14,500 | 0 - 3.0 |
| HBG/HCG/HDG/HPG840 | 1,050,000 | 840,000 | 60 - 120 | 6,481 - 12,963 | 0 - 3.0 |
| HBG/HCG/HDG/HPG960 | 1,200,000 | 960,000 | 63 - 120 | 7,401 - 14,500 | 0 - 3.0 |

① For power exhausted units, the "G" in the model number is replaced with a "P"

② Ratings are shown for elevations up to 2,000 feet.

Cooling Coil and Evaporative Cooling Performance Data

| Model No. | Cooling Coil | | | Evaporative Cooling | | |
|-----------|--------------|---------------------|---------------------|---------------------|--------|---------|
| | Maximum CFM | Max. Cooling Tons ③ | | Maximum CFM | Btu/Hr | |
| | | DX Coil④ | Chilled Water Coil④ | | Min. | Max. |
| 75 | 1,891 | 9.38 | 10.56 | 2,750 | 9,968 | 52,272 |
| 100/125 | 2,206 | 11.43 | 12.62 | 4,000 | 13,125 | 54,432 |
| 150/175 | 2,521 | 13.42 | 14.77 | 5,200 | 19,198 | 70,762 |
| 200/225 | 3,352 | 18.12 | 19.28 | 6,000 | 24,952 | 81,648 |
| 250/300 | 3,724 | 20.24 | 21.33 | 10,400 | 37,916 | 141,523 |
| 350/400 | 5,214 | 27.26 | 29.25 | 11,050 | 44,247 | 150,368 |

③ 1 Ton = 12,000 Btu/Hr

④ Based on 95°F entering dry bulb, 75°F entering wet bulb

Request Catalog 5-173 For Complete Technical Information and Specifications.

DIRECT-FIRED MAKE-UP AIR UNITS

- ETL Certified • Btu/Hr Outputs from 42,000 to 7,862,000 • CFM Ranges from 1,600 to 60,000
- 100% Make-Up Air and Recirculating Configurations • 100% Thermal Efficiency • Designed for Indoor or Outdoor Mounting • Factory-Assembled Natural or Propane Gas Manifolds



MODEL MDB/MRB

Modine has developed the best in direct-fired, make-up-air units - the MDB (Single and Two Speed 100% Make-Up Air) and MRB (Fresh and Return Air). These units are designed to provide an economical and efficient means of supplying tempered make-up air to a space or building. Available in eight airflow configurations, the units cover a wide variety of applications.

Standard Features:

- 100% thermal efficiency (92% sensible) results in lower fuel bills.
- Units are designed for indoor or outdoor mounting, providing flexibility in applications or design, as well as simplifying installation.
- Natural or propane gas manifolds are factory-assembled to provide flexible fuel options and to reduce field-installation, start-up costs and problems.
- Factory-wired electrical panel with numbered terminals significantly reduces start-up delays.
- 100% factory flame-testing eliminates the majority of field start-up problems caused by defective controls.
- Weatherproof roof with drip ledge provides protection from water being drawn into the unit from the roof.
- 18-gauge galvanized steel casing provides high corrosion protection for long life.
- Adjustable drives through 10 HP simplify air balancing and eliminates the need to change drives.
- Four access doors provide maximum access for easy adjustments and service.
- 22:1 firing rate turndown for optimum temperature control.

Optional Features:

- V-bank filter section
- Inlet hood
- Inlet damper
- Discharge damper
- Evaporative cooling
- IRI and FM manifold arrangements
- Discharge air temperature control, space temperature control, or building management (0-10 Vdc or 4-20 mA input) control
- High and low gas pressure switches
- Internal blower and motor vibration isolation
- Acrylic paint finish on exterior casing parts



Request Catalog 5-160 For Complete Technical Information and Specifications.

DIRECT-FIRED MAKE-UP AIR UNITS

Performance Data

| Model No. | CFM Range SCFM ① | Maximum Output (Btu/Hr) ① | Natural Gas Maximum Temperature Rise (F) ① | Total Static Pressure Range (" W.C.) | Horsepower Range |
|------------|------------------|---------------------------|---------------------------------------------|--------------------------------------|------------------|
| MDB/MRB110 | 1,600-3,300 | 432,400 | 115 | 0-2.8" | 3/4-3 |
| MDB/MRB112 | 2,000-4,700 | 615,800 | 115 | 0-3.0" | 3/4-5 |
| MDB/MRB115 | 3,000-6,500 | 851,700 | 115 | 0-2.6" | 1-5 |
| MDB/MRB118 | 3,500-10,000 | 1,310,300 | 115 | 0-3.0" | 1 1/2-10 |
| MDB/MRB120 | 6,000-13,500 | 1,769,000 | 115 | 0-3.0" | 2-15 |
| MDB/MRB122 | 8,000-16,500 | 2,162,100 | 115 | 0-3.0" | 3-20 |
| MDB/MRB125 | 10,000-21,500 | 2,817,300 | 115 | 0-3.0" | 3-20 |
| MDB/MRB127 | 12,000-26,000 | 3,406,900 | 115 | 0-2.5" | 3-20 |
| MDB/MRB130 | 14,000-30,000 | 3,931,100 | 115 | 0-2.7" | 5-25 |
| MDB/MRB215 | 9,000-13,000 | 1,703,400 | 115 | 0-2.3" | 5-10 |
| MDB/MRB218 | 12,500-18,500 | 2,424,200 | 115 | 0-3.0" | 5-20 |
| MDB/MRB220 | 18,000-27,000 | 3,538,000 | 115 | 0-3.0" | 7 1/2-25 |
| MDB/MRB222 | 25,000-33,000 | 4,324,200 | 115 | 0-3.0" | 15-30 |
| MDB/MRB225 | 30,000-46,000 | 6,027,700 | 115 | 0-3.0" | 15-40 |
| MDB/MRB230 | 44,000-60,000 | 7,862,200 | 115 | 0-2.7" | 20-50 |

① CFM, Btu/Hr capacities & Temperature Rise vary depending on unit configuration and certification. The Maximum Temperature Rise for propane gas is 85°F.

Evaporative Cooling Option

Apparent Cooling Capacities - based on EAT of 85°F dry bulb and 65°F wet bulb ②

| Model No | CFM Range | | 12" Media Cooling ③ Capacity Range (Btu/Hr) | |
|------------|-----------|--------|---------------------------------------------|-----------|
| | Min. | Max. | Min. | Max. |
| MDB/MRB110 | 1,600 | 3,300 | 33,178 | 65,578 |
| MDB/MRB112 | 2,000 | 4,700 | 40,608 | 91,876 |
| MDB/MRB115 | 3,000 | 6,500 | 61,560 | 127,764 |
| MDB/MRB118 | 3,500 | 10,000 | 71,064 | 193,320 |
| MDB/MRB120 | 6,000 | 13,500 | 121,824 | 263,898 |
| MDB/MRB122 | 8,000 | 16,500 | 158,976 | 318,978 |
| MDB/MRB125 | 10,000 | 21,500 | 199,800 | 417,960 |
| MDB/MRB127 | 12,000 | 26,000 | 239,760 | 505,440 |
| MDB/MRB130 | 14,000 | 30,000 | 276,696 | 576,720 |
| MDB/MRB215 | 9,000 | 13,000 | 176,904 | 254,124 |
| MDB/MRB218 | 12,500 | 18,500 | 243,000 | 355,644 |
| MDB/MRB220 | 18,000 | 27,000 | 353,808 | 524,880 |
| MDB/MRB222 | 25,000 | 33,000 | 486,000 | 634,392 |
| MDB/MRB225 | 30,000 | 46,000 | 589,680 | 894,240 |
| MDB/MRB230 | 44,000 | 60,000 | 855,360 | 1,153,440 |

② The term "apparent cooling" is used because the cooling capacity will vary based on the entering air dry-bulb and wet-bulb temperatures, as well as the CFM through the unit.

③ Available with CelDek or GlasDek media



Request Catalog 5-160 For Complete Technical Information and Specifications.

The Modine brand has been the industry standard since Arthur B. Modine invented and patented the first lightweight, suspended hydronic unit heater in 1923. No other manufacturer can provide the combined application flexibility, technical expertise and fast delivery found at Modine. Consult your local Modine distributor for help in solving your indoor air problems.

INDOOR AIR SOLUTIONS

Products from Modine are designed to provide indoor air-comfort solutions for commercial, institutional and industrial applications. Whatever your heating, ventilating and cooling requirements, Modine has the product to satisfy your needs, including:

- Gas-fired unit heaters
- Gas-fired duct furnaces
- Gas-fired high-intensity infrared heaters
- Gas-fired low-intensity infrared heaters
- Steam/hot water unit heaters
- Steam/hot water cabinet unit heaters
- Steam/hot water commercial fin tube radiation
- Oil-fired unit heaters
- Electric unit heaters
- Indoor gravity vented single and multiple duct furnace make-up air units
- Indoor separated combustion single and multiple duct furnace make-up air units
- Outdoor single and multiple duct furnace make-up air units
- Direct-fired make-up air units

With burner capacities up to 7,862,000 Btu/hr and air-handling capacities as high as 60,000 CFM, Modine products are compatible with every fuel type, including:

- **Natural or Propane Gas • Steam/Hot Water • Oil • Electric**

Specific catalogs and computer-generated heat-loss calculations are available for each product. Catalogs 75-136 and 75-137 provide details on all Modine HVAC equipment.

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