

# HACE

Heating & Air Conditioning Ent.



## **Air Handling Units GD Series**

*Tailor Your Atmosphere*

## About Us

Heating & Air Conditioning Enterprises have recently grouped the names of its divisions (HACE – Royal Temp – Golden Star) into (HACE), while preserving the company's good reputation and expertise acquired in the past 30 years for providing high quality HVAC products, supplies and services.

HACE took the advantage of the strongly increasing demand on its high quality products and launched numerous expansion plans to increase the production capacity by double, increase the working staff by 30%, provide totally new products with wider range of choice, release new HVAC products series with new specifications and develop the existing products and services. HACE is based on a production facility of 30'000 m<sup>2</sup> along with a storage area of 5'750 m<sup>2</sup>. HACE team consists of more than 500 highly skillful technical and senior engineers.

In 1976 HACE started the manufacturing of HVAC products and supplies in the Kingdom of Saudi Arabia. In 1980, the primary manufacturing plant was built in the Second Industrial City in Riyadh and from that point, HACE started the manufacture of air conditioning equipment, air devices, heavy duty centrifugal blowers, and pre-insulated pipes under the trade name "Goldenstar". In 2004, the company trade name was changed to "Royal Temp" and to be used for all products. In 2012, the name HACE was chosen to replace the old trade names and declare a new milestone in the company's history.

In continuation of its growth pursuit, HACE is eagerly following the recent HVAC technologies and developments by providing its employees with the best training sessions coupled with its wide knowledge of HVAC sciences and products. HACE high quality equipment has acquired various international certifications like AHRI, ETL, UL, CE, and ISO 9001 along with many vendor approvals from the governmental sector, semi-governmental and leading private companies.

Today, HACE is producing a huge variety of HVAC products, supplies and services that will grant all of its customer's air comfort requirements to the least detail, "Tailor Your Atmosphere".

### Our Vision

Become customer's first choice regionally and be recognized globally for providing high quality air comfort solutions.

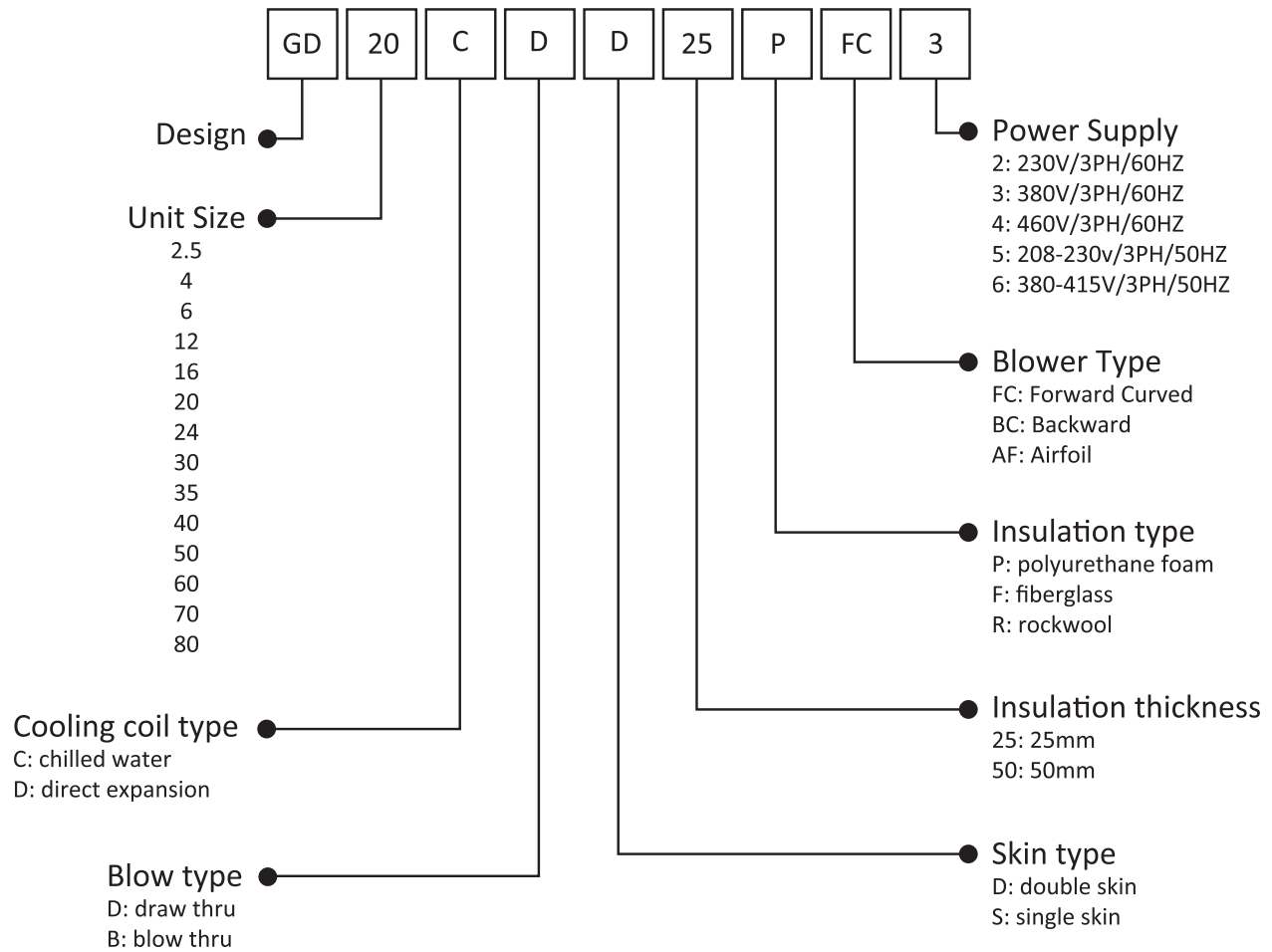
### Our Mission

Ensure total customer satisfaction for Air Comfort requirements by providing high quality, tailored, affordable, energy efficient and eco-friendly products and services.

# Contents

|                                                  |    |
|--------------------------------------------------|----|
| NOMENCLATURE .....                               | 2  |
| FEATURES & BENEFITS .....                        | 2  |
| UNIT FEATURES .....                              | 3  |
| QUICK SELECTION CHART .....                      | 10 |
| PERFORMANCE TABLES .....                         | 11 |
| FAN PERFORMANCE .....                            | 17 |
| FAN SIZES .....                                  | 19 |
| ELECTRIC HEATER .....                            | 20 |
| COIL PRESSURE DROP .....                         | 21 |
| INTERNAL COMPONENTS PRESSURE DROP (FILTER) ..... | 22 |
| INTERNAL COMPONENTS PRESSURE DROP .....          | 23 |
| ELECTRICAL DATA .....                            | 24 |
| STANDARD AHU ARRANGEMENT .....                   | 25 |
| AHU ARRANGEMENTS .....                           | 29 |
| DIMENSIONAL DATA .....                           | 32 |
| INTERNAL COMPONENT WEIGHT .....                  | 45 |

## NOMENCLATURE



## FEATURES & BENEFITS

- Double wall casing with injected polyurethane insulation
- Modular assembly
- Rigid frame sections of adequate strength
- Low leakage casing
- Structural steel fan and motor baseframe
- Equipment service panels
- AHRI Certified water cooling coils
- Choice of aerofoil type, backward, or inclined type fans
- Custom tailored to site requirement is possible



**THERMAL AND SOUND RELIABILITY**  
**DOUBLE WALL CASING WITH INJECTED POLYURETHANE INSULATION**

Units are constructed with double wall panels having injected CFC free polyurethane foam encapsulated inside panel cavity that offers excellent thermal properties and sound reduction through the unit casing. Frames are also insulated with the same insulation material.

Heat transfer coefficient are as follows:

0.021 W/m<sup>2</sup>-K (25mm panel)

0.010 W/m<sup>2</sup>-K (50mm panel)

Wall noise attenuation is given below for the complete frequency spectrum.

| Octave band frequency, HZ | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|---------------------------|----|-----|-----|-----|----|----|----|----|
| 25mm panel                | 12 | 21  | 25  | 39  | 38 | 49 | 44 | 47 |
| 50mm panel                | 17 | 21  | 29  | 39  | 38 | 49 | 47 | 55 |

Outmigration of insulating material is virtually impossible due to sealed panel system.

Probability of moisture migration into the panel interior is eliminated.

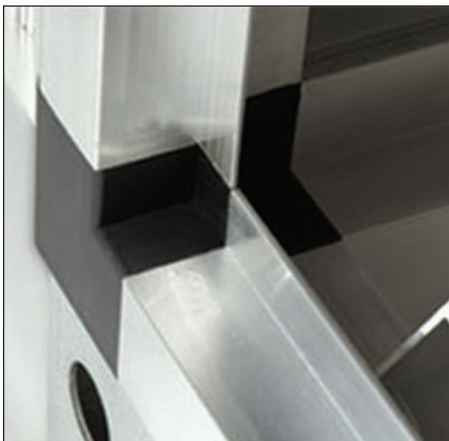
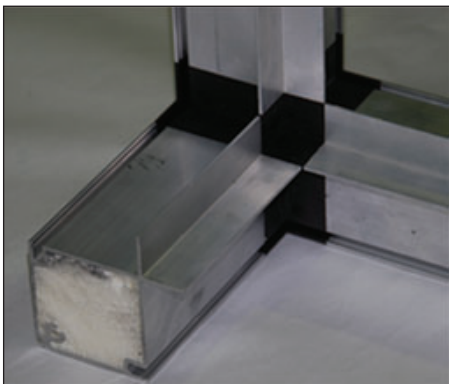
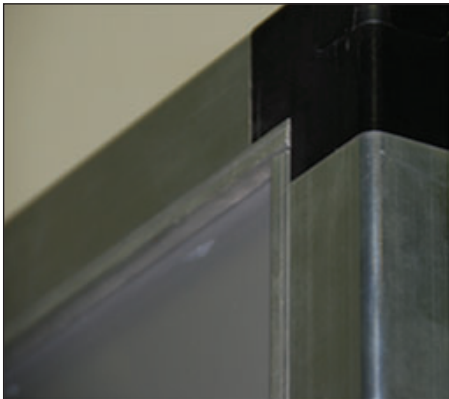
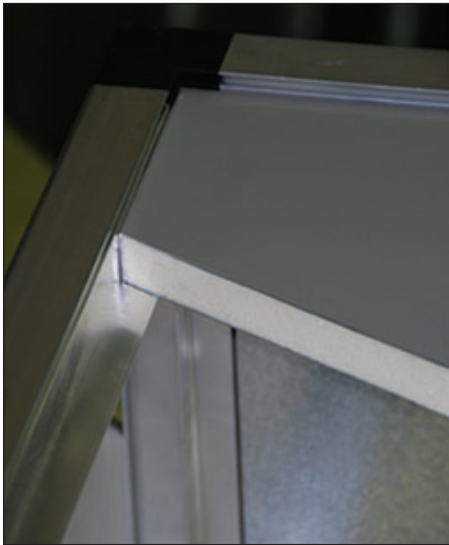
Casing are held firmly in place onto the framework by means of self-locking wedge profile which exerts pressure evenly on the panel and sealing gasket.

**ROBUST DESIGN**  
**RIGID SECTION FRAMEWORK OF ADEQUATE STRENGTH**

Units are constructed with extruded aluminum framework insulated with injected CFC free polyurethane foam offering excellent strength and thermal properties.

The unit framework is assembled in three dimensional moulded Nylon corner pieces providing an extremely rigid structure.

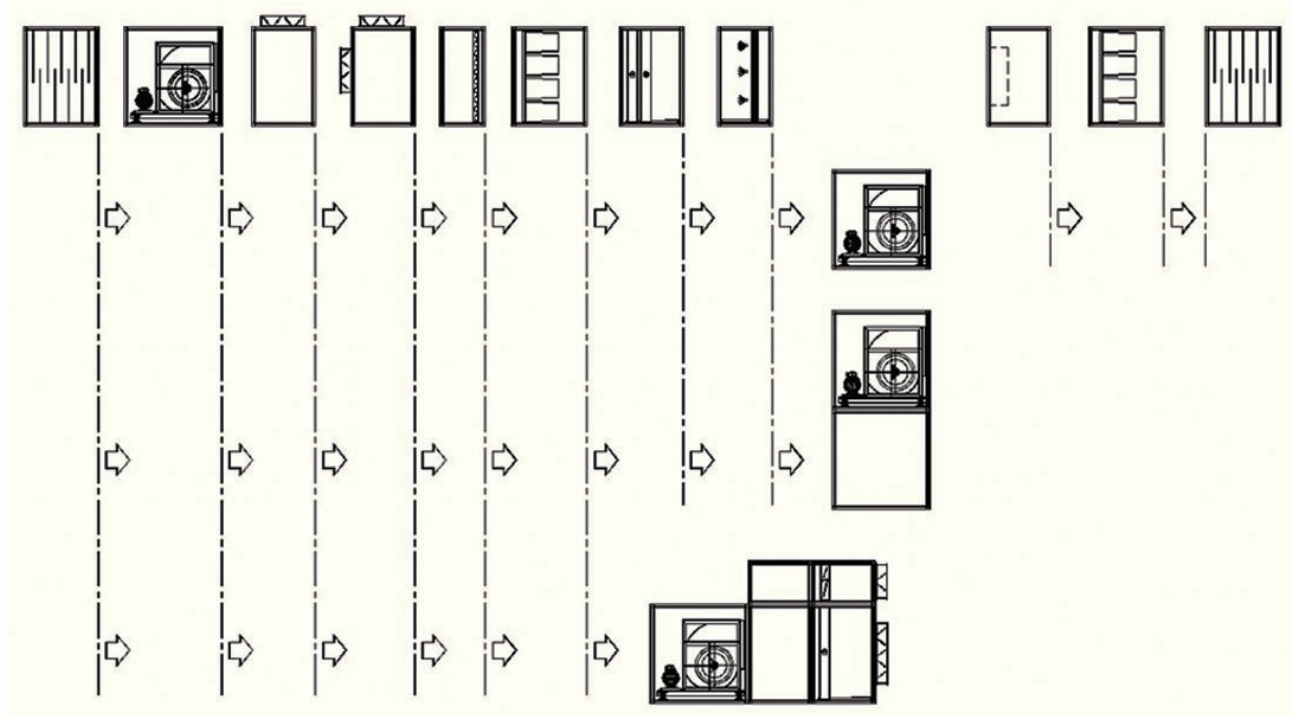
The framework offers the possibility of complete disassembly in case of difficult access and ease of assembly on site.



### FLEXIBILITY AND ADAPTABILITY

HACE air handling units are manufactured in sections of infinite variety of dimensions that make all kinds of combinations possible (blow and draw through, multizone, dual duct, return and supply fan section, etc...), thus providing ease of mobilization for installing the unit.

Also, panel and frame construction offers the possibility of disassembling the parts in case of difficult access. This features offers flexibility however maintaining the mechanical strength and aesthetic appearance of the unit.



### INNOVATIVE DESIGN

Part of the innovative design to ensure proper sealing, access doors are equipped with 3-way locking system and unit connections are provided with self-aligning 3D clamp that will align unit sections in X, Y, and Z axis as the through-bolt is tightened.

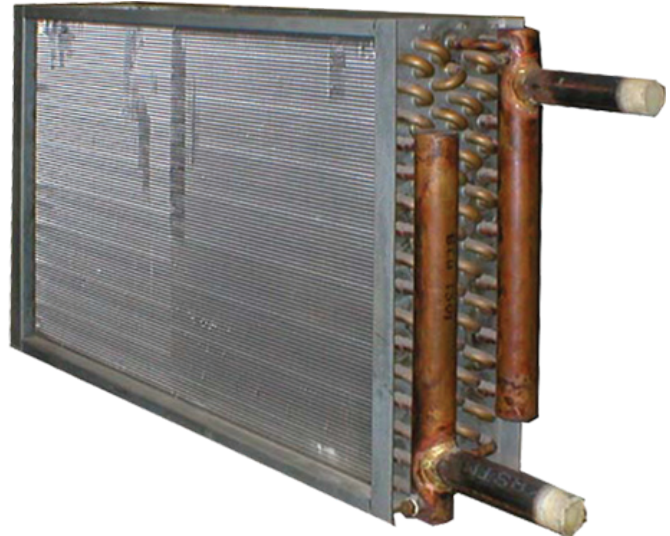


## GUARANTEED COOLING AND HEATING PERFORMANCE AHRI CERTIFIED WATER COILS

HACE air handling units are equipped with AHRI certified cooling coils.

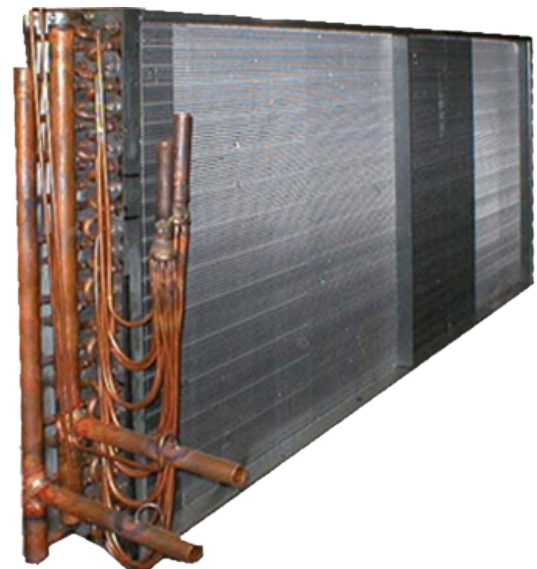
Water heating and cooling coils are furnished with 5/8" copper tubes mechanically bonded to aluminum fins. Water cooling coils are available in 3, 4, 5, 6, 8, 10, & 12 rows deep and water heating coils are from 1 to 4 rows deep.

Where initial cost is requested to be low, coils can be furnished with 3/8" and 1/2" copper tubes but water pressure drop will be on the high side and can affect operational cost.



These coils are manufactured locally by HACE and are certified to comply with the requirements of AHRI Standard 410 - Forced Circulation Air Cooling and Heating Coils.

Direct expansion coils are furnished with 1/2" or 3/8" tubes mechanically bonded to aluminum fins as a standard. These coils are furnished with brass sweat type distributor and suction connection made of copper. These coils are locally manufactured by HACE.



Optional corrosion protection are available upon request as follows;

1. Copper tube - copper fins construction
2. Copper tube - copper fins electrotined after fabrication (this is more suitable for stringernt and in same line in upper or lower sentence)
3. Copper tube - aluminum fins with Phenolic coating

### HEAVY DUTY FANS AND MOTORS

HACE air handling units are provided with double inlet double width centrifugal type fan as a standard and is belt driven using electric motor equipped with sheave. The impellers are statically and dynamically balanced. The fan assembly is heavy duty made from well known fan manufacturer.

Forward and backward curved fans are provided with sealed, single row, self-aligning pillow block ball bearing with grease nipple. Aerofoil type fans are provided with self-aligning pillow block ball or roller bearing with grease nipple and larger size fan are provided with split pillow block bearing to facilitate wheel removal.

The fan and motor are installed on a sturdy structural baseframe as an assembly. The assembly is mounted onto vibration spring isolator and fan discharge is provided with flexible connector thereby eliminating vibration from unit casing.

Motors are totally enclosed with class F insulation conforming to NEMA standard or IP 55 class F insulation conforming to IEC standard. The motor is mounted on heavy duty steel construction adjustable base to adjust belt tension during installation.

Sheaves are precision turned, statically and dynamically balanced and selected with a minimum service factor of 1.3. Motors up to 20 HP are provided with adjustable pitch sheave and motors 25 HP and above are provided with fixed pitch sheave.



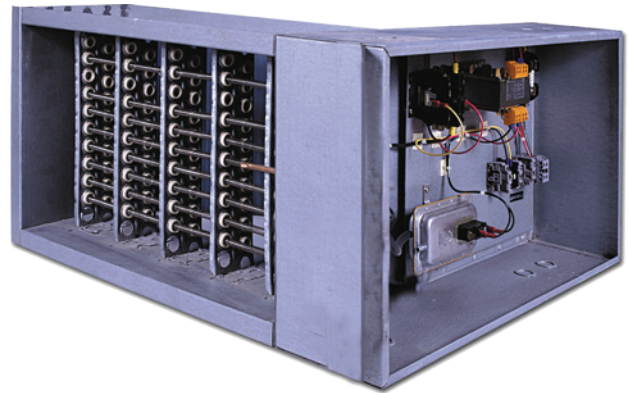


## ELECTRIC HEATER BATTERY

Electric heater batteries are manufactured by HACE with two options of heater element to choose. One option is the open type heater element (HF series) and the other is the sheath type element (CHMS series).

HF series electric heaters are tested and ETL listed complying with UL 1996 Standard.

CHMS series electric heaters are equipped with UL listed tubular heating elements and components.



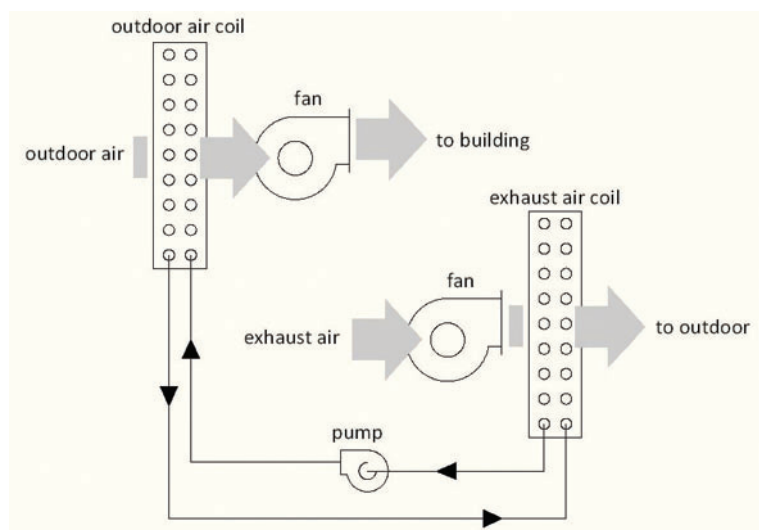
## STEAM HUMIDIFIER

Electrode type steam generator in various capacities, factory installed complete with fill tank, stainless steel steam distribution tube, hose, and electronic controller. Controller is available for modulating type or ON/OFF type.

## RUN AROUND COILS

A type of energy recovery heat exchanger positioned in the supply and exhaust air stream. A typical run around coil system comprises of coils connected to each other by a pumped pipework circuit.

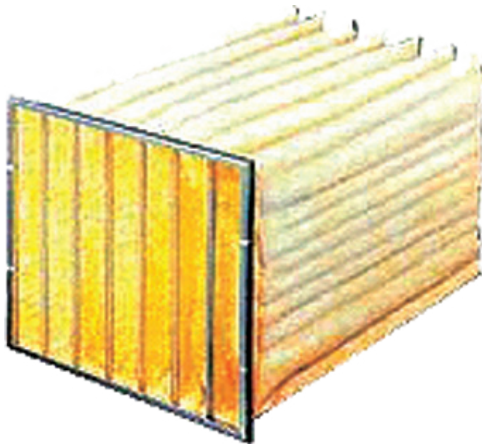
Coils are furnished with 5/8" copper tubes mechanically bonded to aluminum fins. These coils are available in 3, 4, 5, 6, 8, 10, & 12 rows deep.



### PRE-FILTERS

Aluminum washable filter - low resistance, permanent metal filter which can be cleaned with warm water and detergent. These filters can be used for cleanliness requiring a synthetic dust weight arrestance averaging from minimum of 57% to a maximum of 81%.

Disposable panel filter - higher cleaning efficiency giving more protection to the conditioned space. These filters can be used for cleanliness requiring dust spot efficiency of 30-35% (MERV 8). Filter media are available in synthetic fiber pleated media consisting of continuous filament glass fiber of progressive density.

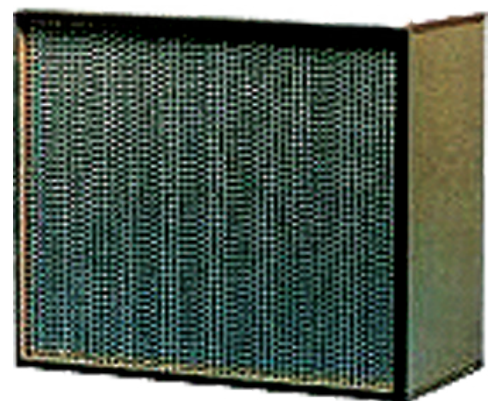


### BAG FILTERS

Extended surface pocket filters or simply bag filters are used when high performance air filtration and high dust holding capacity is required. These filters are called final filters in air handling units and are available in dust spot efficiency of 40-45% (MERV 8), 60-65% (MERV 12), 80-85% (MERV 14), and 90-95% (MERV 15).

### HEPA FILTERS

Hepa filters are used to remove airborne biological contaminants in hospital critical area. These filters are also used in pharmaceutical processing industries to meet exact requirements of the laboratories, precision manufacturing and micro electronic industries. It comes with efficiency of 99.99%.

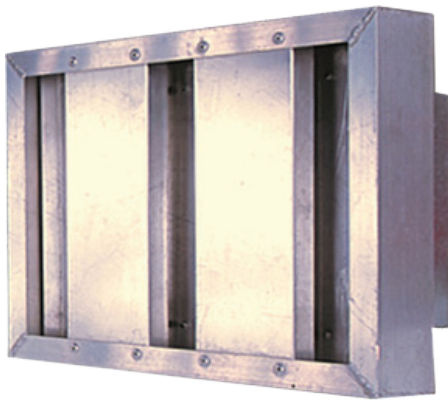
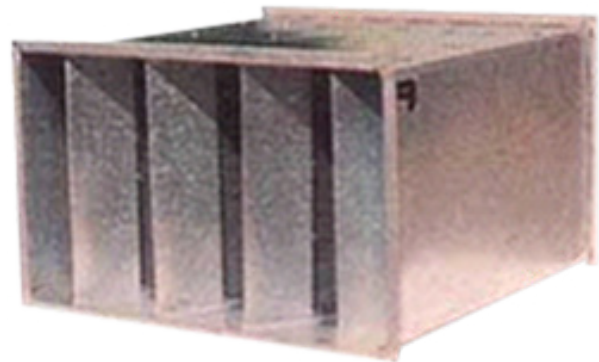


Other type of filters available as per requirements are:

1. Cartridge type filters
2. Carbon filters
3. Roll filters

## SOUND ATTENUATOR

Design to minimize air pressure drop and maximize air handling capacity, HACE made sound attenuators are constructed from galvanized steel with layered fiberglass air cushion. They can be provided in the supply air and return air side depending on the requirement of sound level.



## SAND TRAP LOUVER

Sand trap louver allows the flow of air while separating and trapping the sand from air. HACE sand trap louver are made from galvanized steel sheets and are painted. It has self emptying holes at the bottom to drain the trapped sand.

## DAMPERS

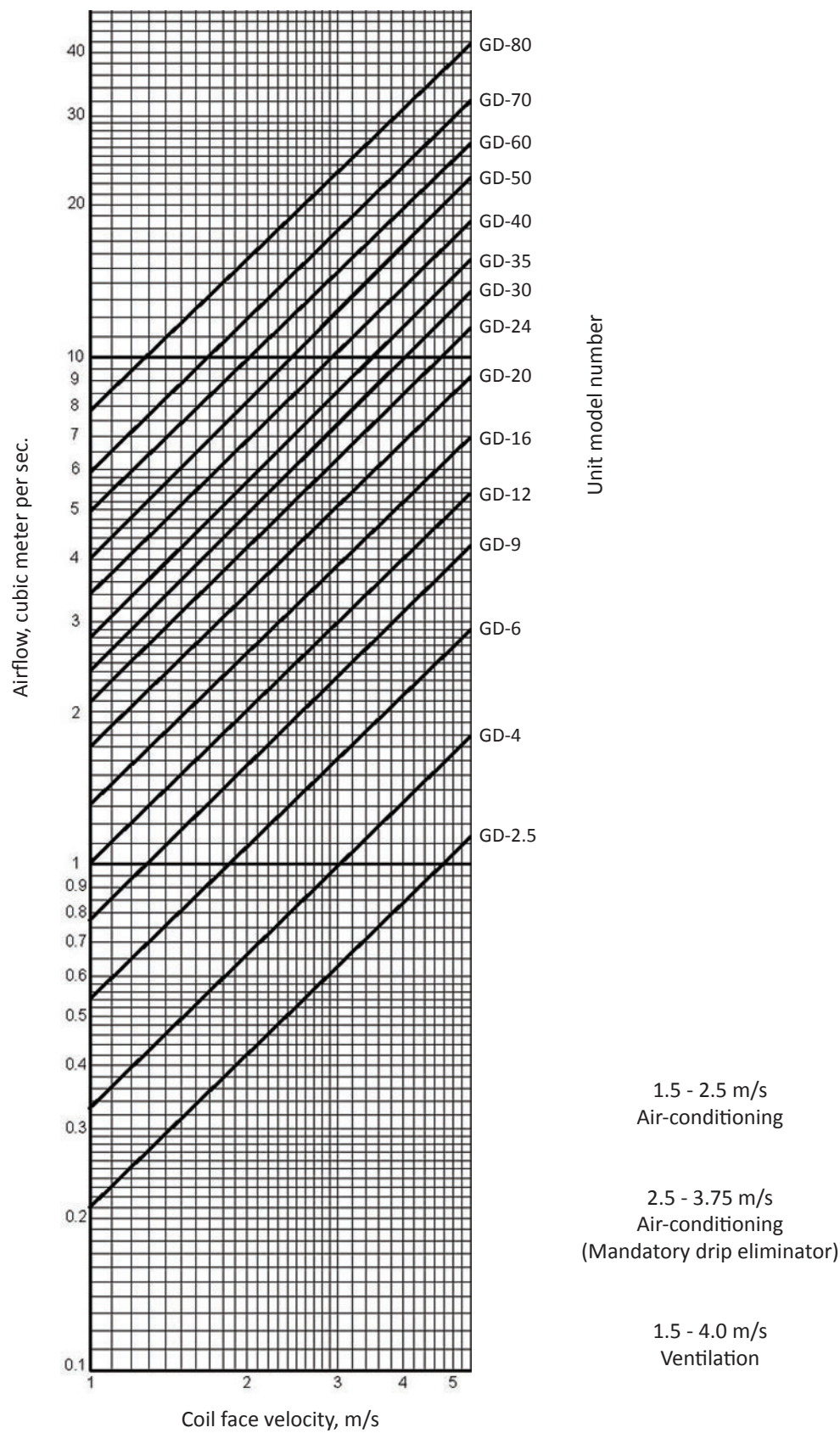
Frames and blades are constructed from galvanized steel sheet. Dampers are provided with opposed triple-V type blade as a standard. Parallel type blades are also available as an option. Blades are carried on round steel axles and are linked together.

Airfoil shaped extruded aluminum or roll formed steel blades are available as an option for low leakage application.





QUICK SELECTION CHART





## PERFORMANCE TABLE (COOLING)

5/8" tube, 4 Rows

| MODEL (GD) | ON COIL |    | AFR   | 4ROWS   |        |        |       |      |         |         |        |       |      |         |         |        |       |      |
|------------|---------|----|-------|---------|--------|--------|-------|------|---------|---------|--------|-------|------|---------|---------|--------|-------|------|
|            | DB      | WB |       | 10FPI   |        |        |       |      | 12FPI   |         |        |       |      | 14FPI   |         |        |       |      |
|            | °F      | °F |       | TC      | SC     | WFR    | WPD   | VEL  | TC      | SC      | WFR    | WPD   | VEL  | TC      | SC      | WFR    | WPD   | VEL  |
|            |         |    | SCFM  | MBH     | MBH    | GPM    | FT    | FPS  | MBH     | MBH     | GPM    | FT    | FPS  | MBH     | MBH     | GPM    | FT    | FPS  |
| 2.5        | 76      | 63 | 1125  | 19.55   | 17.51  | 3.89   | 2.80  | 1.57 | 22.65   | 19.85   | 4.51   | 3.68  | 1.81 | 25.69   | 21.93   | 5.12   | 4.65  | 2.06 |
|            | 78      | 65 |       | 22.23   | 19.04  | 4.43   | 3.56  | 1.78 | 26.22   | 21.64   | 5.22   | 4.84  | 2.10 | 29.84   | 23.74   | 5.94   | 3.50  | 2.39 |
|            | 80      | 67 |       | 25.28   | 20.50  | 5.03   | 4.52  | 2.02 | 29.96   | 23.09   | 5.97   | 3.53  | 2.40 | 34.36   | 25.35   | 6.84   | 4.54  | 2.75 |
|            | 85      | 70 |       | 31.49   | 24.36  | 6.27   | 3.87  | 2.52 | 37.26   | 27.32   | 7.42   | 5.27  | 2.98 | 42.82   | 29.92   | 8.53   | 6.81  | 3.43 |
| 4          | 76      | 63 | 1750  | 31.96   | 28.47  | 6.36   | 2.81  | 1.92 | 37.24   | 32.33   | 7.42   | 3.73  | 2.24 | 42.12   | 35.56   | 8.39   | 4.69  | 2.53 |
|            | 78      | 65 |       | 36.50   | 30.94  | 7.27   | 3.60  | 2.19 | 42.64   | 34.80   | 8.49   | 4.79  | 2.56 | 48.65   | 38.14   | 9.69   | 4.22  | 2.92 |
|            | 80      | 67 |       | 41.35   | 33.00  | 8.23   | 4.53  | 2.48 | 48.76   | 37.01   | 9.71   | 4.24  | 2.93 | 56.02   | 40.67   | 11.16  | 5.46  | 3.36 |
|            | 85      | 70 |       | 50.81   | 38.88  | 10.12  | 4.57  | 3.05 | 60.19   | 43.57   | 11.99  | 6.23  | 3.62 | 69.27   | 47.77   | 13.79  | 8.06  | 4.16 |
| 6          | 76      | 63 | 2915  | 42.59   | 38.77  | 8.48   | 2.79  | 1.02 | 50.44   | 45.20   | 10.04  | 1.25  | 1.21 | 57.67   | 50.68   | 11.48  | 1.60  | 1.39 |
|            | 78      | 65 |       | 49.91   | 43.81  | 9.94   | 1.22  | 1.20 | 59.09   | 50.36   | 11.77  | 1.68  | 1.42 | 68.10   | 56.17   | 13.56  | 2.19  | 1.64 |
|            | 80      | 67 |       | 58.04   | 48.38  | 11.56  | 1.62  | 1.39 | 69.06   | 55.07   | 13.75  | 2.25  | 1.66 | 79.84   | 60.96   | 15.90  | 1.90  | 1.92 |
|            | 85      | 70 |       | 74.25   | 59.16  | 14.79  | 2.57  | 1.78 | 89.23   | 67.26   | 17.77  | 2.33  | 2.14 | 102.47  | 73.66   | 20.40  | 3.02  | 2.46 |
| 9          | 76      | 63 | 4105  | 73.78   | 65.92  | 14.69  | 2.82  | 1.77 | 85.79   | 74.77   | 17.08  | 2.54  | 2.06 | 98.07   | 82.91   | 19.53  | 3.26  | 2.36 |
|            | 78      | 65 |       | 84.19   | 71.59  | 16.76  | 2.45  | 2.02 | 99.37   | 81.23   | 19.79  | 3.34  | 2.39 | 113.26  | 89.00   | 22.55  | 4.25  | 2.72 |
|            | 80      | 67 |       | 96.54   | 77.16  | 19.22  | 3.16  | 2.32 | 113.67  | 86.47   | 22.63  | 4.28  | 2.73 | 130.53  | 94.99   | 25.99  | 5.53  | 3.14 |
|            | 85      | 70 |       | 118.84  | 91.02  | 23.66  | 4.64  | 2.86 | 140.61  | 101.93  | 28.00  | 5.17  | 3.38 | 161.73  | 111.70  | 32.21  | 6.69  | 3.89 |
| 12         | 76      | 63 | 5415  | 96.75   | 86.51  | 19.27  | 2.50  | 1.79 | 113.71  | 99.04   | 22.64  | 3.38  | 2.10 | 128.62  | 108.87  | 25.61  | 4.24  | 2.38 |
|            | 78      | 65 |       | 110.34  | 93.94  | 21.97  | 3.19  | 2.04 | 130.23  | 106.63  | 25.93  | 4.34  | 2.41 | 148.45  | 116.89  | 29.56  | 4.08  | 2.74 |
|            | 80      | 67 |       | 126.41  | 101.26 | 25.17  | 4.11  | 2.34 | 148.90  | 113.53  | 29.65  | 4.11  | 2.75 | 170.97  | 124.73  | 34.04  | 5.30  | 3.16 |
|            | 85      | 70 |       | 155.61  | 119.42 | 30.98  | 4.46  | 2.88 | 184.23  | 133.85  | 36.69  | 4.81  | 3.40 | 211.94  | 146.70  | 42.20  | 6.21  | 3.92 |
| 16         | 76      | 63 | 7040  | 136.61  | 120.44 | 27.20  | 4.04  | 2.52 | 158.14  | 135.53  | 31.49  | 5.29  | 2.92 | 179.37  | 148.94  | 35.72  | 6.67  | 3.31 |
|            | 78      | 65 |       | 154.07  | 129.30 | 30.68  | 5.04  | 2.85 | 180.58  | 145.29  | 35.96  | 6.75  | 3.34 | 206.41  | 159.20  | 41.10  | 7.04  | 3.81 |
|            | 80      | 67 |       | 174.69  | 137.44 | 34.79  | 6.35  | 3.23 | 206.49  | 154.20  | 41.12  | 7.05  | 3.82 | 237.44  | 169.21  | 47.28  | 9.10  | 4.39 |
|            | 85      | 70 |       | 213.19  | 161.25 | 42.45  | 7.47  | 3.94 | 253.05  | 180.56  | 50.39  | 10.22 | 4.68 | 291.47  | 198.12  | 58.04  | 13.23 | 5.39 |
| 20         | 76      | 63 | 9205  | 178.62  | 157.47 | 35.57  | 4.96  | 2.52 | 206.77  | 177.20  | 41.17  | 4.70  | 2.92 | 234.55  | 194.76  | 46.70  | 5.93  | 3.31 |
|            | 78      | 65 |       | 201.49  | 169.08 | 40.12  | 4.49  | 2.85 | 236.12  | 189.97  | 47.02  | 6.00  | 3.34 | 269.90  | 208.16  | 53.74  | 7.66  | 3.81 |
|            | 80      | 67 |       | 228.43  | 179.71 | 45.49  | 5.65  | 3.23 | 270.02  | 201.63  | 53.77  | 7.67  | 3.82 | 310.45  | 221.25  | 61.82  | 8.81  | 4.39 |
|            | 85      | 70 |       | 278.80  | 210.87 | 55.52  | 8.13  | 3.94 | 330.90  | 236.10  | 65.89  | 9.90  | 4.68 | 381.09  | 259.05  | 75.89  | 12.81 | 5.39 |
| 24         | 76      | 63 | 11330 | 228.42  | 200.15 | 45.48  | 6.48  | 3.23 | 265.20  | 225.19  | 52.81  | 8.51  | 3.75 | 301.58  | 247.43  | 60.05  | 10.77 | 4.26 |
|            | 78      | 65 |       | 258.12  | 214.28 | 51.40  | 8.10  | 3.65 | 303.09  | 240.50  | 60.35  | 10.87 | 4.28 | 347.04  | 263.66  | 69.10  | 12.56 | 4.90 |
|            | 80      | 67 |       | 291.89  | 227.27 | 58.12  | 10.14 | 4.12 | 345.80  | 255.14  | 68.86  | 12.48 | 4.89 | 397.80  | 279.74  | 79.21  | 16.11 | 5.62 |
|            | 85      | 70 |       | 355.49  | 265.65 | 70.79  | 13.13 | 5.02 | 422.30  | 297.32  | 84.09  | 17.96 | 5.97 | 486.34  | 326.57  | 96.84  | 22.36 | 6.87 |
| 30         | 76      | 63 | 13330 | 268.73  | 235.47 | 53.51  | 7.49  | 3.23 | 311.99  | 264.92  | 62.13  | 8.43  | 3.75 | 354.78  | 291.08  | 70.64  | 10.67 | 4.26 |
|            | 78      | 65 |       | 303.63  | 252.07 | 60.46  | 8.02  | 3.65 | 356.59  | 282.95  | 71.01  | 10.77 | 4.28 | 408.24  | 310.18  | 81.29  | 12.38 | 4.90 |
|            | 80      | 67 |       | 343.38  | 267.36 | 68.37  | 10.05 | 4.12 | 406.77  | 300.14  | 81.00  | 12.30 | 4.89 | 467.98  | 329.10  | 93.19  | 15.88 | 5.62 |
|            | 85      | 70 |       | 418.22  | 312.53 | 83.28  | 12.94 | 5.02 | 496.84  | 349.80  | 98.93  | 17.71 | 5.97 | 572.17  | 384.21  | 113.93 | 22.90 | 6.87 |
| 35         | 76      | 63 | 15415 | 317.71  | 277.47 | 63.26  | 9.66  | 3.82 | 369.44  | 312.12  | 73.56  | 11.56 | 4.44 | 420.83  | 342.97  | 83.80  | 14.64 | 5.05 |
|            | 78      | 65 |       | 359.39  | 296.57 | 71.56  | 12.09 | 4.32 | 422.51  | 332.71  | 84.13  | 14.75 | 5.08 | 484.20  | 364.83  | 96.42  | 18.90 | 5.82 |
|            | 80      | 67 |       | 405.99  | 314.17 | 80.84  | 13.72 | 4.88 | 481.87  | 352.76  | 95.95  | 18.73 | 5.79 | 554.14  | 386.67  | 110.34 | 24.15 | 6.66 |
|            | 85      | 70 |       | 493.78  | 366.38 | 98.32  | 19.58 | 5.93 | 586.79  | 410.06  | 116.85 | 26.80 | 7.05 | 675.58  | 450.31  | 134.52 | 33.56 | 8.12 |
| 40         | 76      | 63 | 18500 | 363.58  | 319.87 | 72.40  | 5.23  | 2.73 | 421.38  | 359.97  | 83.91  | 5.27  | 3.16 | 478.30  | 395.54  | 95.24  | 6.65  | 3.59 |
|            | 78      | 65 |       | 410.39  | 343.13 | 81.72  | 5.03  | 3.08 | 481.29  | 385.39  | 95.84  | 6.73  | 3.61 | 550.42  | 422.35  | 109.60 | 8.60  | 4.13 |
|            | 80      | 67 |       | 464.84  | 364.42 | 92.56  | 6.31  | 3.49 | 549.87  | 408.94  | 109.49 | 8.59  | 4.13 | 632.37  | 448.62  | 125.92 | 10.09 | 4.75 |
|            | 85      | 70 |       | 566.74  | 427.05 | 112.85 | 9.08  | 4.25 | 673.06  | 478.08  | 134.02 | 11.31 | 5.05 | 775.01  | 524.78  | 154.32 | 14.63 | 5.82 |
| 50         | 76      | 63 | 22500 | 457.43  | 400.31 | 91.09  | 7.06  | 3.43 | 531.47  | 450.39  | 105.83 | 9.29  | 3.99 | 604.69  | 494.84  | 120.41 | 11.76 | 4.54 |
|            | 78      | 65 |       | 517.11  | 428.29 | 102.97 | 8.83  | 3.88 | 607.46  | 480.61  | 120.96 | 10.93 | 4.56 | 695.83  | 526.97  | 138.56 | 14.00 | 5.22 |
|            | 80      | 67 |       | 584.47  | 454.06 | 116.38 | 11.05 | 4.39 | 692.70  | 509.79  | 137.93 | 13.88 | 5.20 | 796.97  | 558.86  | 158.70 | 17.92 | 5.98 |
|            | 85      | 70 |       | 711.51  | 530.26 | 141.68 | 14.58 | 5.34 | 845.40  | 593.50  | 168.34 | 19.95 | 6.35 | 973.49  | 651.86  | 193.85 | 25.01 | 7.31 |
| 60         | 76      | 63 | 26250 | 493.31  | 437.25 | 98.23  | 2.81  | 2.12 | 569.54  | 492.11  | 113.41 | 3.67  | 2.44 | 644.53  | 540.97  | 128.34 | 3.53  | 2.77 |
|            | 78      | 65 |       | 556.47  | 470.37 | 110.81 | 3.52  | 2.39 | 651.05  | 529.06  | 129.64 | 3.59  | 2.79 | 743.17  | 579.48  | 147.98 | 4.58  | 3.19 |
|            | 80      | 67 |       | 631.07  | 501.07 | 125.66 | 3.39  | 2.71 | 744.69  | 562.00  | 148.29 | 4.60  | 3.19 | 855.79  | 617.16  | 170.41 | 5.94  | 3.67 |
|            | 85      | 70 |       | 773.63  | 589.51 | 154.05 | 4.94  | 3.32 | 916.87  | 660.44  | 182.57 | 6.02  | 3.93 | 1055.60 | 724.18  | 210.20 | 7.79  | 4.53 |
| 70         | 76      | 63 | 32000 | 628.60  | 553.06 | 125.17 | 3.87  | 2.70 | 728.29  | 622.27  | 145.02 | 5.07  | 3.12 | 826.63  | 683.76  | 164.60 | 6.40  | 3.55 |
|            | 78      | 65 |       | 709.48  | 593.28 | 141.27 | 4.83  | 3.04 | 831.90  | 666.30  | 165.65 | 6.47  | 3.57 | 951.32  | 730.18  | 189.43 | 7.50  | 4.08 |
|            | 80      | 67 |       | 803.72  | 630.17 | 160.04 | 6.08  | 3.45 | 950.64  | 707.11  | 189.30 | 7.49  | 4.08 | 1093.13 | 775.66  | 217.67 | 9.67  | 4.69 |
|            | 85      | 70 |       | 980.19  | 738.63 | 195.18 | 7.92  | 4.21 | 1163.83 | 826.78  | 231.75 | 10.84 | 4.99 | 1339.95 | 907.46  | 266.82 | 13.12 | 5.75 |
| 80         | 76      | 63 | 41500 | 842.28  | 737.29 | 167.72 | 6.86  | 3.37 | 978.42  | 829.49  | 194.83 | 8.19  | 3.92 | 1113.05 | 911.35  | 221.64 | 10.36 | 4.46 |
|            | 78      | 65 |       | 952.21  | 789.00 | 189.61 | 7.79  | 3.81 | 1118.37 | 885.34  | 222.70 | 10.45 | 4.48 | 1280.85 | 970.66  | 255.05 | 13.39 | 5.13 |
|            | 80      | 67 |       | 1076.34 | 836.53 | 214.33 | 9.75  | 4.31 | 1275.46 | 939.15  | 253.98 | 13.29 | 5.11 | 1467.35 | 1029.54 | 292.19 | 16.06 | 5.88 |
|            | 85      | 70 |       | 1310.49 | 977.13 | 260.95 | 13.96 | 5.25 | 1556.91 | 1093.61 | 310.02 | 17.89 | 6.23 | 1792.81 | 1201.15 | 356.99 | 23.13 | 7.18 |

## Legend &amp; Notes

- DB : dry bulb temperature, °F
- WB : wet bulb temperature, °F
- AFR : airflow rate
- SCFM : unit



# PERFORMANCE TABLE (COOLING)

5/8" tube, 6 Rows

| MODEL (GD) | ON COIL |    | AFR   | GROWS   |         |        |       |      |         |         |        |       |      |         |         |        |       |      |
|------------|---------|----|-------|---------|---------|--------|-------|------|---------|---------|--------|-------|------|---------|---------|--------|-------|------|
|            | DB      | WB |       | 10FPI   |         |        |       |      | 12FPI   |         |        |       |      | 14FPI   |         |        |       |      |
|            |         |    |       | TC      | SC      | WFR    | WPD   | VEL  | TC      | SC      | WFR    | WPD   | VEL  | TC      | SC      | WFR    | WPD   | VEL  |
|            | °F      | °F | SCFM  | MBH     | MBH     | GPM    | FT    | FPS  | MBH     | MBH     | GPM    | FT    | FPS  | MBH     | MBH     | GPM    | FT    | FPS  |
| 2.5        | 76      | 63 | 1125  | 29.20   | 24.12   | 5.82   | 4.53  | 2.34 | 33.33   | 26.45   | 6.64   | 5.76  | 2.67 | 37.09   | 28.41   | 7.38   | 7.01  | 2.97 |
|            | 78      | 65 |       | 33.59   | 25.74   | 6.69   | 5.85  | 2.69 | 38.61   | 28.27   | 7.69   | 7.54  | 3.09 | 42.97   | 30.36   | 8.56   | 9.18  | 3.44 |
|            | 80      | 67 |       | 38.59   | 27.35   | 7.68   | 7.54  | 3.09 | 44.39   | 30.02   | 8.84   | 9.74  | 3.55 | 49.44   | 32.32   | 9.84   | 9.90  | 3.96 |
|            | 85      | 70 |       | 47.29   | 31.98   | 9.42   | 10.93 | 3.79 | 54.28   | 35.06   | 10.81  | 11.74 | 4.35 | 60.26   | 37.71   | 12.00  | 14.19 | 4.83 |
| 4          | 76      | 63 | 1750  | 46.83   | 38.37   | 9.33   | 7.32  | 2.81 | 53.49   | 42.03   | 10.65  | 7.07  | 3.21 | 59.49   | 45.12   | 11.85  | 8.58  | 3.57 |
|            | 78      | 65 |       | 53.87   | 40.86   | 10.73  | 7.16  | 3.24 | 61.92   | 44.87   | 12.33  | 9.23  | 3.72 | 68.88   | 48.17   | 13.72  | 11.21 | 4.14 |
|            | 80      | 67 |       | 61.72   | 43.34   | 12.29  | 9.18  | 3.71 | 71.00   | 47.62   | 14.14  | 11.85 | 4.26 | 78.95   | 51.20   | 15.72  | 13.54 | 4.74 |
|            | 85      | 70 |       | 75.44   | 50.58   | 15.02  | 9.18  | 4.53 | 86.46   | 55.42   | 17.22  | 15.97 | 5.19 | 95.81   | 59.58   | 19.08  | 19.25 | 5.75 |
| 6          | 76      | 63 | 2915  | 69.71   | 58.92   | 13.88  | 9.18  | 1.67 | 80.12   | 65.18   | 15.95  | 2.46  | 1.92 | 90.15   | 70.59   | 17.95  | 3.05  | 2.17 |
|            | 78      | 65 |       | 81.24   | 63.64   | 16.18  | 9.18  | 1.95 | 94.20   | 70.34   | 18.76  | 3.31  | 2.26 | 105.12  | 75.68   | 20.93  | 4.05  | 2.53 |
|            | 80      | 67 |       | 94.54   | 68.31   | 18.83  | 9.18  | 2.27 | 108.74  | 74.90   | 21.65  | 4.31  | 2.61 | 121.33  | 80.73   | 24.16  | 5.28  | 2.91 |
|            | 85      | 70 |       | 116.73  | 80.19   | 23.24  | 9.18  | 2.80 | 134.23  | 87.99   | 26.73  | 6.37  | 3.22 | 149.25  | 94.61   | 29.72  | 6.43  | 3.59 |
| 9          | 76      | 63 | 4105  | 109.54  | 89.81   | 21.81  | 9.18  | 2.63 | 125.03  | 98.35   | 24.90  | 6.68  | 3.00 | 139.02  | 105.56  | 27.68  | 6.97  | 3.34 |
|            | 78      | 65 |       | 126.09  | 95.71   | 25.11  | 9.18  | 3.03 | 144.79  | 105.03  | 28.83  | 7.51  | 3.48 | 160.99  | 112.72  | 32.06  | 9.12  | 3.87 |
|            | 80      | 67 |       | 144.55  | 101.55  | 28.78  | 9.18  | 3.47 | 166.11  | 111.49  | 33.08  | 9.65  | 3.99 | 184.67  | 119.87  | 36.77  | 10.56 | 4.44 |
|            | 85      | 70 |       | 176.81  | 118.59  | 35.21  | 9.18  | 4.25 | 176.81  | 118.59  | 35.21  | 10.82 | 4.25 | 224.31  | 139.56  | 44.67  | 15.04 | 5.39 |
| 12         | 76      | 63 | 5415  | 143.64  | 117.95  | 28.60  | 9.18  | 2.65 | 164.07  | 129.28  | 32.67  | 6.52  | 3.03 | 182.46  | 138.77  | 36.33  | 7.92  | 3.37 |
|            | 78      | 65 |       | 165.28  | 125.72  | 32.91  | 9.18  | 3.05 | 189.94  | 138.06  | 37.82  | 7.17  | 3.51 | 211.30  | 148.20  | 42.08  | 8.71  | 3.90 |
|            | 80      | 67 |       | 189.50  | 133.40  | 37.73  | 9.18  | 3.50 | 217.92  | 146.50  | 43.39  | 9.21  | 4.03 | 242.45  | 157.60  | 48.28  | 11.19 | 4.48 |
|            | 85      | 70 |       | 231.73  | 155.76  | 46.14  | 9.18  | 4.28 | 265.71  | 170.68  | 52.91  | 13.23 | 4.91 | 294.58  | 183.51  | 58.66  | 15.96 | 5.44 |
| 16         | 76      | 63 | 7040  | 195.16  | 158.33  | 38.86  | 9.18  | 3.61 | 223.21  | 173.24  | 44.45  | 11.57 | 4.12 | 248.22  | 186.02  | 49.43  | 14.03 | 4.59 |
|            | 78      | 65 |       | 224.43  | 168.30  | 44.69  | 9.18  | 4.15 | 257.66  | 184.60  | 51.31  | 15.02 | 4.76 | 286.49  | 198.24  | 57.05  | 18.22 | 5.29 |
|            | 80      | 67 |       | 256.72  | 178.23  | 51.12  | 9.18  | 4.74 | 295.07  | 195.89  | 58.76  | 19.22 | 5.45 | 327.24  | 210.40  | 65.16  | 22.10 | 6.05 |
|            | 85      | 70 |       | 312.24  | 207.26  | 62.18  | 9.18  | 5.77 | 357.45  | 227.17  | 71.18  | 25.95 | 6.61 | 395.29  | 244.01  | 78.71  | 31.15 | 7.31 |
| 20         | 76      | 63 | 9205  | 255.22  | 207.05  | 50.82  | 9.18  | 3.61 | 291.87  | 226.52  | 58.12  | 12.29 | 4.12 | 324.56  | 243.22  | 64.63  | 13.72 | 4.59 |
|            | 78      | 65 |       | 293.47  | 220.07  | 58.44  | 9.18  | 4.15 | 336.94  | 241.38  | 67.09  | 14.68 | 4.76 | 374.61  | 259.21  | 74.59  | 17.80 | 5.29 |
|            | 80      | 67 |       | 335.70  | 233.06  | 66.85  | 9.18  | 4.74 | 379.92  | 253.46  | 75.65  | 17.77 | 5.37 | 427.89  | 275.11  | 85.20  | 22.67 | 6.05 |
|            | 85      | 70 |       | 408.29  | 271.01  | 81.30  | 9.18  | 5.77 | 467.42  | 297.05  | 93.07  | 25.81 | 6.61 | 516.89  | 319.07  | 102.93 | 30.98 | 7.30 |
| 24         | 76      | 63 | 11330 | 303.04  | 248.31  | 60.34  | 9.18  | 2.80 | 346.21  | 272.07  | 68.94  | 6.14  | 3.20 | 385.10  | 292.08  | 76.68  | 7.46  | 3.56 |
|            | 78      | 65 |       | 348.74  | 264.52  | 69.44  | 9.18  | 3.22 | 400.71  | 290.42  | 79.79  | 8.02  | 3.70 | 445.71  | 311.77  | 88.75  | 9.01  | 4.12 |
|            | 80      | 67 |       | 399.61  | 280.60  | 79.57  | 9.18  | 3.69 | 459.49  | 308.18  | 91.50  | 9.52  | 4.25 | 510.98  | 331.42  | 101.75 | 11.56 | 4.72 |
|            | 85      | 70 |       | 488.22  | 327.40  | 97.22  | 9.18  | 4.51 | 559.60  | 358.71  | 111.43 | 13.64 | 5.17 | 620.06  | 385.61  | 123.47 | 16.44 | 5.73 |
| 30         | 76      | 63 | 13330 | 357.78  | 292.89  | 71.24  | 9.18  | 2.87 | 408.75  | 320.88  | 81.39  | 6.30  | 3.27 | 454.68  | 344.47  | 90.54  | 7.65  | 3.64 |
|            | 78      | 65 |       | 411.72  | 311.94  | 81.98  | 9.18  | 3.30 | 473.00  | 342.42  | 94.19  | 8.22  | 3.79 | 526.16  | 367.63  | 104.77 | 9.99  | 4.21 |
|            | 80      | 67 |       | 471.60  | 330.83  | 93.91  | 9.18  | 3.78 | 542.30  | 363.38  | 107.98 | 10.55 | 4.34 | 602.96  | 390.74  | 120.06 | 12.81 | 4.83 |
|            | 85      | 70 |       | 576.06  | 385.90  | 114.71 | 9.18  | 4.61 | 660.13  | 422.80  | 131.45 | 14.09 | 5.29 | 731.31  | 454.46  | 145.62 | 16.97 | 5.86 |
| 35         | 76      | 63 | 15415 | 423.76  | 344.74  | 84.38  | 9.18  | 3.39 | 484.63  | 377.24  | 96.50  | 9.56  | 3.88 | 538.95  | 405.05  | 107.32 | 11.60 | 4.32 |
|            | 78      | 65 |       | 487.55  | 366.53  | 97.08  | 9.18  | 3.90 | 559.88  | 402.13  | 111.49 | 12.44 | 4.48 | 622.59  | 431.82  | 123.97 | 14.18 | 4.99 |
|            | 80      | 67 |       | 557.89  | 388.35  | 111.09 | 9.18  | 4.47 | 641.28  | 426.74  | 127.69 | 14.96 | 5.14 | 711.70  | 458.46  | 141.72 | 18.08 | 5.70 |
|            | 85      | 70 |       | 679.26  | 451.90  | 135.26 | 9.18  | 5.44 | 777.87  | 495.29  | 154.89 | 21.26 | 6.23 | 860.57  | 532.10  | 171.36 | 25.54 | 6.89 |
| 40         | 76      | 63 | 18500 | 508.53  | 413.71  | 101.26 | 9.18  | 3.39 | 581.61  | 452.74  | 115.81 | 10.03 | 3.88 | 646.85  | 486.13  | 128.80 | 11.13 | 4.32 |
|            | 78      | 65 |       | 585.15  | 439.91  | 116.52 | 9.18  | 3.90 | 671.95  | 482.62  | 133.80 | 11.93 | 4.48 | 747.15  | 518.22  | 148.78 | 14.47 | 4.99 |
|            | 80      | 67 |       | 669.50  | 466.05  | 133.31 | 9.18  | 4.47 | 769.60  | 512.14  | 153.25 | 15.27 | 5.14 | 854.09  | 550.19  | 170.07 | 18.46 | 5.70 |
|            | 85      | 70 |       | 815.20  | 542.34  | 162.33 | 9.18  | 5.44 | 933.53  | 594.41  | 185.89 | 20.98 | 6.23 | 1032.82 | 638.59  | 205.66 | 25.21 | 6.89 |
| 50         | 76      | 63 | 22500 | 609.40  | 497.68  | 121.35 | 9.18  | 3.05 | 696.34  | 545.07  | 138.66 | 7.12  | 3.49 | 774.61  | 585.16  | 154.24 | 8.65  | 3.88 |
|            | 78      | 65 |       | 701.29  | 529.73  | 139.64 | 9.18  | 3.51 | 805.56  | 581.39  | 160.41 | 9.29  | 4.03 | 895.91  | 624.21  | 178.40 | 10.61 | 4.48 |
|            | 80      | 67 |       | 802.77  | 561.64  | 159.85 | 9.18  | 4.02 | 923.08  | 616.99  | 183.81 | 11.20 | 4.62 | 1025.71 | 663.17  | 204.24 | 13.57 | 5.13 |
|            | 85      | 70 |       | 979.56  | 654.47  | 195.05 | 9.18  | 4.90 | 1122.32 | 717.18  | 223.48 | 15.99 | 5.62 | 1242.69 | 770.74  | 247.45 | 19.25 | 6.22 |
| 60         | 76      | 63 | 26250 | 711.00  | 580.65  | 141.58 | 9.18  | 3.05 | 812.40  | 635.92  | 161.77 | 7.43  | 3.49 | 903.71  | 682.69  | 179.95 | 8.32  | 3.88 |
|            | 78      | 65 |       | 818.17  | 618.02  | 162.92 | 9.18  | 3.51 | 939.84  | 678.30  | 187.15 | 8.93  | 4.03 | 1045.27 | 728.26  | 208.14 | 10.84 | 4.48 |
|            | 80      | 67 |       | 936.59  | 655.26  | 186.50 | 9.18  | 4.02 | 1076.96 | 719.84  | 214.45 | 11.45 | 4.62 | 1196.72 | 773.72  | 238.30 | 13.88 | 5.13 |
|            | 85      | 70 |       | 1142.81 | 763.54  | 227.56 | 9.18  | 4.90 | 1309.38 | 836.71  | 260.73 | 16.35 | 5.62 | 1449.82 | 899.20  | 288.70 | 18.63 | 6.22 |
| 70         | 76      | 63 | 32000 | 895.69  | 724.38  | 178.35 | 9.18  | 3.84 | 1024.12 | 792.28  | 203.93 | 12.26 | 4.39 | 1138.69 | 850.71  | 226.74 | 14.87 | 4.89 |
|            | 78      | 65 |       | 1029.25 | 769.66  | 204.95 | 9.18  | 4.42 | 1181.36 | 843.97  | 235.24 | 15.90 | 5.07 | 1313.06 | 906.25  | 261.46 | 19.27 | 5.63 |
|            | 80      | 67 |       | 1177.13 | 814.76  | 234.40 | 9.18  | 5.05 | 1352.37 | 895.37  | 269.29 | 19.41 | 5.80 | 1498.74 | 961.52  | 298.44 | 23.39 | 6.43 |
|            | 85      | 70 |       | 1429.96 | 946.74  | 284.74 | 9.18  | 6.13 | 1636.39 | 1037.75 | 325.85 | 27.43 | 7.02 | 1808.49 | 1114.36 | 360.12 | 32.89 | 7.76 |
| 80         | 76      | 63 | 41500 | 1121.93 | 916.69  | 223.40 | 9.18  | 2.99 | 1281.68 | 1003.96 | 255.21 | 7.06  | 3.42 | 1425.80 | 1077.78 | 283.91 | 7.55  | 3.81 |
|            | 78      | 65 |       | 1291.09 | 975.84  | 257.09 | 9.18  | 3.45 | 1483.05 | 1071.02 | 295.31 | 8.11  | 3.96 | 1649.35 | 1149.85 | 328.43 | 9.84  | 4.40 |
|            | 80      | 67 |       | 1478.20 | 1034.74 | 294.35 | 9.18  | 3.95 | 1699.57 | 1136.60 | 338.43 | 10.40 | 4.54 | 1888.73 | 1221.74 | 376.09 | 12.60 | 5.04 |
|            | 85      | 70 |       | 1804.21 | 1206.04 | 359.26 | 9.18  | 4.82 | 2067.07 | 1321.49 | 411.61 | 14.86 | 5.52 | 2288.92 | 1420.20 | 455.78 | 17.89 | 6.11 |

## PERFORMANCE TABLE (COOLING)

5/8" tube, 8 Rows

| MODEL (GD) | ON COIL |    | AFR   | 8ROWS   |         |        |       |      |         |         |        |       |      |         |         |        |       |      |  |
|------------|---------|----|-------|---------|---------|--------|-------|------|---------|---------|--------|-------|------|---------|---------|--------|-------|------|--|
|            |         |    |       | 10FPI   |         |        |       |      |         |         |        | 12FPI |      |         |         | 14FPI  |       |      |  |
|            | DB      | WB |       | TC      | SC      | WFR    | WPD   | VEL  | TC      | SC      | WFR    | WPD   | VEL  | TC      | SC      | WFR    | WPD   | VEL  |  |
|            | °F      | °F |       | MBH     | MBH     | GPM    | FT    | FPS  | MBH     | MBH     | GPM    | FT    | FPS  | MBH     | MBH     | GPM    | FT    | FPS  |  |
| 2.5        | 76      | 63 | 1125  | 36.95   | 28.34   | 7.36   | 8.73  | 2.96 | 41.32   | 30.55   | 8.23   | 10.70 | 3.31 | 44.87   | 32.30   | 8.93   | 12.44 | 3.59 |  |
|            | 78      | 65 |       | 42.63   | 30.20   | 8.49   | 11.33 | 3.41 | 47.65   | 32.58   | 9.49   | 13.88 | 3.82 | 51.67   | 34.49   | 10.29  | 13.96 | 4.14 |  |
|            | 80      | 67 |       | 48.86   | 32.06   | 9.73   | 12.62 | 3.91 | 54.39   | 34.58   | 10.83  | 15.32 | 4.36 | 58.82   | 36.65   | 11.71  | 17.66 | 4.71 |  |
|            | 85      | 70 |       | 59.20   | 37.23   | 11.79  | 17.87 | 4.74 | 65.65   | 40.11   | 13.07  | 21.55 | 5.26 | 70.73   | 42.47   | 14.08  | 24.68 | 5.66 |  |
| 4          | 76      | 63 | 1750  | 58.77   | 44.75   | 11.70  | 10.83 | 3.53 | 65.73   | 48.26   | 13.09  | 13.27 | 3.95 | 71.23   | 50.96   | 14.18  | 15.36 | 4.28 |  |
|            | 78      | 65 |       | 67.79   | 47.66   | 13.50  | 14.04 | 4.07 | 75.67   | 51.41   | 15.07  | 17.14 | 4.54 | 81.85   | 54.36   | 16.30  | 18.87 | 4.92 |  |
|            | 80      | 67 |       | 77.52   | 50.55   | 15.44  | 17.91 | 4.66 | 86.19   | 54.52   | 17.16  | 20.73 | 5.18 | 92.98   | 57.71   | 18.51  | 23.78 | 5.58 |  |
|            | 85      | 70 |       | 93.63   | 58.61   | 18.64  | 24.08 | 5.62 | 103.69  | 63.11   | 20.65  | 28.98 | 6.23 | 111.51  | 66.75   | 22.20  | 33.07 | 6.70 |  |
| 6          | 76      | 63 | 2915  | 95.34   | 73.22   | 18.98  | 6.78  | 2.86 | 106.63  | 78.95   | 21.23  | 8.32  | 3.20 | 115.81  | 83.49   | 23.06  | 9.67  | 3.48 |  |
|            | 78      | 65 |       | 110.07  | 78.07   | 21.92  | 8.82  | 3.31 | 123.03  | 84.20   | 24.50  | 10.80 | 3.69 | 133.44  | 89.16   | 26.57  | 12.53 | 4.01 |  |
|            | 80      | 67 |       | 126.17  | 82.88   | 25.12  | 11.31 | 3.79 | 140.50  | 89.41   | 27.98  | 12.60 | 4.22 | 151.93  | 94.74   | 30.25  | 14.52 | 4.56 |  |
|            | 85      | 70 |       | 152.93  | 96.26   | 30.45  | 14.70 | 4.59 | 169.65  | 103.72  | 33.78  | 17.75 | 5.09 | 182.82  | 109.83  | 36.40  | 20.34 | 5.49 |  |
| 9          | 76      | 63 | 4105  | 137.69  | 104.87  | 27.42  | 8.73  | 3.31 | 153.86  | 113.04  | 30.64  | 10.68 | 3.70 | 166.69  | 119.34  | 33.19  | 12.36 | 4.00 |  |
|            | 78      | 65 |       | 158.84  | 111.72  | 31.63  | 11.32 | 3.82 | 177.20  | 120.46  | 35.28  | 13.82 | 4.26 | 191.67  | 127.36  | 38.17  | 14.70 | 4.60 |  |
|            | 80      | 67 |       | 181.74  | 118.54  | 36.19  | 14.47 | 4.37 | 201.91  | 127.77  | 40.20  | 16.15 | 4.85 | 217.80  | 135.22  | 43.37  | 18.54 | 5.23 |  |
|            | 85      | 70 |       | 219.63  | 137.48  | 43.73  | 18.82 | 5.28 | 243.11  | 147.98  | 48.41  | 22.63 | 5.84 | 261.40  | 156.50  | 52.05  | 25.82 | 6.28 |  |
| 12         | 76      | 63 | 5415  | 180.69  | 137.85  | 35.98  | 9.69  | 3.34 | 202.08  | 148.67  | 40.24  | 10.37 | 3.73 | 219.07  | 157.03  | 43.62  | 12.00 | 4.05 |  |
|            | 78      | 65 |       | 208.44  | 146.86  | 41.51  | 10.97 | 3.85 | 232.76  | 158.43  | 46.35  | 13.40 | 4.30 | 251.97  | 167.59  | 50.17  | 15.48 | 4.66 |  |
|            | 80      | 67 |       | 238.53  | 155.82  | 47.50  | 14.01 | 4.41 | 265.28  | 168.05  | 52.82  | 17.00 | 4.90 | 286.37  | 177.93  | 57.02  | 19.54 | 5.29 |  |
|            | 85      | 70 |       | 288.33  | 180.74  | 57.41  | 19.78 | 5.33 | 319.45  | 194.63  | 63.61  | 22.78 | 5.90 | 343.74  | 205.95  | 68.45  | 26.02 | 6.35 |  |
| 16         | 76      | 63 | 7040  | 234.74  | 179.14  | 46.74  | 8.30  | 3.32 | 262.52  | 193.18  | 52.27  | 10.18 | 3.71 | 284.63  | 204.06  | 56.68  | 11.79 | 4.02 |  |
|            | 78      | 65 |       | 270.76  | 190.83  | 53.92  | 10.77 | 3.83 | 302.39  | 205.87  | 60.21  | 13.17 | 4.27 | 327.37  | 217.77  | 65.19  | 14.12 | 4.63 |  |
|            | 80      | 67 |       | 309.87  | 202.48  | 61.70  | 12.78 | 4.38 | 344.64  | 218.37  | 68.63  | 15.51 | 4.87 | 372.11  | 231.24  | 74.10  | 17.83 | 5.26 |  |
|            | 85      | 70 |       | 374.62  | 234.86  | 74.60  | 18.04 | 5.29 | 415.08  | 252.93  | 82.65  | 21.74 | 5.87 | 446.71  | 267.66  | 88.95  | 24.17 | 6.31 |  |
| 20         | 76      | 63 | 9205  | 299.58  | 230.45  | 59.65  | 6.22  | 2.77 | 335.20  | 248.54  | 66.75  | 6.37  | 3.10 | 364.10  | 262.85  | 72.50  | 7.41  | 3.36 |  |
|            | 78      | 65 |       | 346.05  | 245.79  | 68.91  | 6.76  | 3.20 | 386.89  | 265.11  | 77.04  | 8.28  | 3.57 | 419.75  | 280.78  | 83.58  | 9.61  | 3.88 |  |
|            | 80      | 67 |       | 390.91  | 258.39  | 77.84  | 8.22  | 3.61 | 441.95  | 281.53  | 88.00  | 9.83  | 4.08 | 478.12  | 298.41  | 95.21  | 11.35 | 4.42 |  |
|            | 85      | 70 |       | 481.24  | 303.22  | 95.83  | 11.48 | 4.45 | 533.99  | 326.74  | 106.33 | 13.88 | 4.93 | 575.65  | 346.02  | 114.63 | 15.91 | 5.32 |  |
| 24         | 76      | 63 | 11330 | 380.50  | 289.69  | 75.77  | 9.30  | 3.52 | 425.47  | 312.42  | 84.72  | 11.40 | 3.93 | 460.99  | 329.84  | 91.79  | 12.41 | 4.26 |  |
|            | 78      | 65 |       | 438.72  | 308.49  | 87.36  | 11.34 | 4.05 | 489.76  | 332.79  | 97.52  | 13.86 | 4.53 | 529.89  | 351.93  | 105.51 | 15.99 | 4.90 |  |
|            | 80      | 67 |       | 501.76  | 327.24  | 99.91  | 14.48 | 4.64 | 557.86  | 352.93  | 111.08 | 17.55 | 5.15 | 601.90  | 373.58  | 119.85 | 20.15 | 5.56 |  |
|            | 85      | 70 |       | 598.19  | 375.85  | 119.11 | 19.39 | 5.53 | 671.24  | 408.54  | 133.66 | 23.61 | 6.20 | 721.91  | 432.16  | 143.75 | 26.94 | 6.67 |  |
| 30         | 76      | 63 | 13330 | 444.85  | 339.38  | 88.58  | 8.02  | 3.34 | 497.47  | 365.99  | 99.06  | 9.84  | 3.73 | 539.30  | 386.55  | 107.39 | 11.40 | 4.05 |  |
|            | 78      | 65 |       | 513.13  | 361.53  | 102.18 | 10.41 | 3.85 | 572.98  | 389.99  | 114.09 | 12.73 | 4.30 | 620.27  | 412.54  | 123.51 | 13.79 | 4.66 |  |
|            | 80      | 67 |       | 587.13  | 383.57  | 116.91 | 13.31 | 4.41 | 653.05  | 413.70  | 130.04 | 15.15 | 4.90 | 704.98  | 438.03  | 140.38 | 17.41 | 5.29 |  |
|            | 85      | 70 |       | 709.81  | 444.93  | 141.34 | 17.62 | 5.33 | 786.38  | 479.12  | 156.59 | 21.23 | 5.90 | 846.22  | 506.99  | 168.50 | 24.26 | 6.35 |  |
| 35         | 76      | 63 | 15415 | 508.51  | 389.41  | 101.26 | 6.61  | 3.05 | 568.84  | 419.98  | 113.27 | 8.12  | 3.42 | 617.22  | 443.85  | 122.90 | 8.52  | 3.71 |  |
|            | 78      | 65 |       | 586.90  | 415.07  | 116.87 | 8.60  | 3.52 | 655.76  | 447.74  | 130.58 | 9.52  | 3.94 | 710.62  | 473.87  | 141.50 | 11.02 | 4.27 |  |
|            | 80      | 67 |       | 672.26  | 440.55  | 133.86 | 9.96  | 4.04 | 748.14  | 475.15  | 148.97 | 12.10 | 4.49 | 808.54  | 503.39  | 161.00 | 13.94 | 4.86 |  |
|            | 85      | 70 |       | 813.90  | 511.38  | 162.07 | 14.10 | 4.89 | 902.34  | 550.85  | 179.68 | 16.38 | 5.42 | 971.94  | 583.19  | 193.54 | 18.74 | 5.84 |  |
| 40         | 76      | 63 | 18500 | 610.27  | 467.34  | 121.52 | 6.19  | 3.05 | 682.67  | 504.03  | 135.94 | 7.59  | 3.42 | 740.75  | 532.68  | 147.50 | 8.81  | 3.71 |  |
|            | 78      | 65 |       | 704.30  | 498.11  | 140.24 | 8.03  | 3.53 | 786.94  | 537.32  | 156.70 | 9.84  | 3.94 | 852.86  | 568.72  | 169.83 | 11.39 | 4.27 |  |
|            | 80      | 67 |       | 806.80  | 528.72  | 160.65 | 10.29 | 4.04 | 897.90  | 570.26  | 178.79 | 11.84 | 4.49 | 970.30  | 604.11  | 193.21 | 13.64 | 4.86 |  |
|            | 85      | 70 |       | 976.73  | 613.70  | 194.49 | 13.80 | 4.89 | 1082.91 | 661.08  | 215.63 | 16.65 | 5.42 | 1166.44 | 699.89  | 232.27 | 19.06 | 5.84 |  |
| 50         | 76      | 63 | 22500 | 762.67  | 578.95  | 151.87 | 10.79 | 3.82 | 852.47  | 624.16  | 169.75 | 13.22 | 4.27 | 923.23  | 658.88  | 183.84 | 14.57 | 4.62 |  |
|            | 78      | 65 |       | 879.05  | 616.28  | 175.04 | 13.33 | 4.40 | 980.87  | 664.83  | 195.31 | 16.27 | 4.91 | 1060.16 | 702.70  | 211.10 | 18.73 | 5.31 |  |
|            | 80      | 67 |       | 1004.49 | 653.50  | 200.02 | 16.99 | 5.03 | 1116.19 | 704.76  | 222.26 | 20.57 | 5.59 | 1203.41 | 745.71  | 239.63 | 23.58 | 6.02 |  |
|            | 85      | 70 |       | 1211.51 | 756.94  | 241.24 | 23.87 | 6.06 | 1341.37 | 815.15  | 267.10 | 27.85 | 6.71 | 1441.54 | 861.94  | 287.05 | 31.73 | 7.21 |  |
| 60         | 76      | 63 | 26250 | 889.79  | 675.45  | 177.18 | 10.47 | 3.82 | 994.60  | 728.22  | 198.05 | 12.82 | 4.27 | 1077.11 | 768.69  | 214.48 | 14.82 | 4.62 |  |
|            | 78      | 65 |       | 1025.55 | 718.98  | 204.21 | 13.55 | 4.40 | 1144.36 | 775.64  | 227.87 | 16.54 | 4.91 | 1236.89 | 819.83  | 246.30 | 19.06 | 5.31 |  |
|            | 80      | 67 |       | 1171.95 | 762.44  | 233.36 | 17.28 | 5.03 | 1302.28 | 822.24  | 259.32 | 20.93 | 5.59 | 1403.96 | 869.99  | 279.56 | 23.00 | 6.02 |  |
|            | 85      | 70 |       | 1413.45 | 883.10  | 281.45 | 23.28 | 6.06 | 1564.94 | 951.01  | 311.62 | 28.01 | 6.71 | 1681.84 | 1005.62 | 334.90 | 31.91 | 7.22 |  |
| 70         | 76      | 63 | 32000 | 1055.10 | 808.11  | 210.10 | 6.02  | 3.02 | 1180.18 | 871.50  | 235.00 | 7.38  | 3.38 | 1280.56 | 921.03  | 254.99 | 8.57  | 3.66 |  |
|            | 78      | 65 |       | 1217.86 | 861.41  | 242.51 | 7.82  | 3.48 | 1360.55 | 929.12  | 270.92 | 8.65  | 3.89 | 1474.52 | 983.39  | 293.61 | 10.01 | 4.22 |  |
|            | 80      | 67 |       | 1395.16 | 914.37  | 277.81 | 9.05  | 3.99 | 1552.52 | 986.11  | 309.14 | 10.99 | 4.44 | 1677.67 | 1044.63 | 334.07 | 12.66 | 4.80 |  |
|            | 85      | 70 |       | 1689.28 | 1061.44 | 336.38 | 12.82 | 4.83 | 1872.77 | 1143.33 | 372.92 | 15.47 | 5.36 | 2017.17 | 1210.42 | 401.67 | 17.71 | 5.77 |  |
| 80         | 76      | 63 | 41500 | 1346.16 | 1036.66 | 268.05 | 4.21  | 2.70 | 1506.12 | 1117.94 | 299.91 | 5.16  | 3.02 | 1636.39 | 1182.54 | 325.85 | 6.01  | 3.28 |  |
|            | 78      | 65 |       | 1555.45 | 1105.85 | 309.73 | 5.48  | 3.11 | 1739.08 | 1192.70 | 346.29 | 6.71  | 3.48 | 1887.23 | 1263.41 | 375.79 | 7.80  | 3.78 |  |
|            | 80      | 67 |       | 1784.05 | 1174.54 | 355.25 | 7.03  | 3.57 | 1987.07 | 1266.75 | 395.67 | 8.57  | 3.98 | 2150.30 | 1342.89 | 428.18 | 9.90  | 4.30 |  |
|            | 85      | 70 |       | 2164.52 | 1364.74 | 431.01 | 10.02 | 4.33 | 2402.20 | 1470.70 | 478.34 | 11.77 | 4.81 | 2589.93 | 1557.49 | 515.72 | 13.50 | 5.19 |  |



# PERFORMANCE TABLE (COOLING)

1/2" tube, 4 Rows

| MODEL (GD) | ON COIL |    | AFR   | 4ROWS   |         |        |       |      |         |         |        |       |      |         |         |        |       |      |  |
|------------|---------|----|-------|---------|---------|--------|-------|------|---------|---------|--------|-------|------|---------|---------|--------|-------|------|--|
|            | DB      | WB |       | 10FPI   |         |        |       |      | 12FPI   |         |        |       |      | 14FPI   |         |        |       |      |  |
|            |         |    |       | TC      | SC      | WFR    | WPD   | VEL  | TC      | SC      | WFR    | WPD   | VEL  | TC      | SC      | WFR    | WPD   | VEL  |  |
|            | °F      | °F | SCFM  | MBH     | MBH     | GPM    | FT    | FPS  | MBH     | MBH     | GPM    | FT    | FPS  | MBH     | MBH     | GPM    | FT    | FPS  |  |
| 2.5        | 76      | 63 | 1125  | 23.68   | 20.61   | 4.71   | 4.44  | 2.57 | 27.67   | 23.21   | 5.51   | 5.89  | 3.00 | 31.49   | 25.47   | 6.27   | 7.45  | 3.42 |  |
|            | 78      | 65 |       | 26.97   | 22.10   | 5.37   | 5.63  | 2.93 | 31.78   | 24.80   | 6.33   | 7.58  | 3.45 | 36.42   | 27.18   | 7.25   | 9.70  | 3.95 |  |
|            | 80      | 67 |       | 30.64   | 23.44   | 6.10   | 7.09  | 3.32 | 36.51   | 26.37   | 7.27   | 9.74  | 3.96 | 41.87   | 28.86   | 8.34   | 12.25 | 4.54 |  |
|            | 85      | 70 |       | 37.53   | 27.45   | 7.47   | 10.25 | 4.07 | 44.73   | 30.80   | 8.91   | 13.81 | 4.85 | 51.35   | 33.76   | 10.23  | 17.73 | 5.57 |  |
| 4          | 76      | 63 | 1750  | 37.96   | 32.80   | 7.56   | 6.24  | 3.09 | 44.44   | 36.94   | 8.85   | 8.03  | 3.62 | 50.62   | 40.49   | 10.08  | 10.17 | 4.12 |  |
|            | 78      | 65 |       | 43.15   | 35.12   | 8.59   | 7.62  | 3.51 | 50.97   | 39.40   | 10.15  | 10.30 | 4.15 | 58.41   | 43.17   | 11.63  | 13.19 | 4.75 |  |
|            | 80      | 67 |       | 49.10   | 37.19   | 9.78   | 9.63  | 3.99 | 58.48   | 41.81   | 11.65  | 13.22 | 4.76 | 67.08   | 45.79   | 13.36  | 16.96 | 5.46 |  |
|            | 85      | 70 |       | 59.88   | 43.43   | 11.92  | 13.80 | 4.87 | 71.38   | 48.75   | 14.21  | 18.72 | 5.81 | 80.66   | 52.86   | 16.06  | 23.36 | 6.56 |  |
| 6          | 76      | 63 | 2915  | 63.57   | 54.86   | 12.66  | 5.81  | 2.96 | 74.42   | 61.76   | 14.82  | 7.39  | 3.46 | 84.86   | 67.73   | 16.90  | 9.38  | 3.94 |  |
|            | 78      | 65 |       | 72.30   | 58.75   | 14.40  | 7.01  | 3.36 | 85.40   | 65.89   | 17.01  | 9.49  | 3.97 | 97.99   | 72.25   | 19.51  | 12.18 | 4.55 |  |
|            | 80      | 67 |       | 82.30   | 62.20   | 16.39  | 8.87  | 3.83 | 97.99   | 69.91   | 19.51  | 12.18 | 4.55 | 112.53  | 76.64   | 22.41  | 15.21 | 5.23 |  |
|            | 85      | 70 |       | 100.35  | 72.63   | 19.98  | 12.72 | 4.66 | 119.66  | 81.56   | 23.83  | 17.00 | 5.56 | 137.37  | 89.39   | 27.36  | 21.83 | 6.39 |  |
| 9          | 76      | 63 | 4105  | 91.59   | 78.61   | 18.24  | 6.98  | 3.31 | 107.32  | 88.48   | 21.37  | 9.31  | 3.88 | 122.50  | 96.99   | 24.39  | 11.31 | 4.43 |  |
|            | 78      | 65 |       | 104.05  | 84.05   | 20.72  | 8.80  | 3.76 | 123.19  | 94.25   | 24.53  | 11.42 | 4.45 | 141.48  | 103.44  | 28.17  | 14.69 | 5.11 |  |
|            | 80      | 67 |       | 118.52  | 88.94   | 23.60  | 10.65 | 4.28 | 141.10  | 99.92   | 28.10  | 14.62 | 5.10 | 162.19  | 109.65  | 32.30  | 18.56 | 5.68 |  |
|            | 85      | 70 |       | 144.16  | 103.66  | 28.71  | 15.20 | 5.21 | 171.97  | 116.45  | 34.24  | 20.64 | 6.22 | 181.49  | 120.60  | 36.14  | 22.75 | 6.56 |  |
| 12         | 76      | 63 | 5415  | 119.41  | 102.78  | 23.78  | 6.34  | 3.24 | 139.88  | 115.71  | 27.85  | 8.45  | 3.79 | 159.50  | 126.81  | 31.76  | 10.72 | 4.32 |  |
|            | 78      | 65 |       | 135.66  | 109.96  | 27.01  | 7.99  | 3.68 | 160.46  | 123.30  | 31.95  | 10.56 | 4.35 | 184.11  | 135.23  | 36.66  | 13.55 | 4.99 |  |
|            | 80      | 67 |       | 154.46  | 116.36  | 30.76  | 10.11 | 4.19 | 183.94  | 130.77  | 36.63  | 13.53 | 4.99 | 211.20  | 143.37  | 42.06  | 17.39 | 5.73 |  |
|            | 85      | 70 |       | 188.05  | 135.71  | 37.45  | 14.08 | 5.10 | 224.25  | 152.42  | 44.66  | 19.38 | 6.08 | 241.96  | 160.20  | 48.18  | 22.25 | 6.56 |  |
| 16         | 76      | 63 | 7040  | 156.27  | 134.29  | 31.12  | 6.88  | 3.39 | 183.09  | 151.16  | 36.46  | 8.82  | 3.97 | 208.81  | 165.64  | 41.58  | 11.20 | 4.53 |  |
|            | 78      | 65 |       | 177.45  | 143.61  | 35.34  | 8.34  | 3.85 | 210.06  | 161.03  | 41.83  | 11.32 | 4.56 | 241.01  | 176.61  | 47.99  | 14.53 | 5.23 |  |
|            | 80      | 67 |       | 202.09  | 151.93  | 40.24  | 10.56 | 4.38 | 240.65  | 170.72  | 47.92  | 14.49 | 5.22 | 276.33  | 187.21  | 55.03  | 18.63 | 5.99 |  |
|            | 85      | 70 |       | 245.81  | 177.08  | 48.95  | 15.06 | 5.33 | 293.17  | 198.92  | 58.38  | 20.45 | 6.36 | 302.49  | 203.05  | 60.23  | 21.64 | 6.56 |  |
| 20         | 76      | 63 | 9205  | 202.41  | 174.33  | 40.31  | 6.23  | 3.29 | 237.07  | 196.26  | 47.21  | 8.30  | 3.86 | 270.17  | 215.05  | 53.80  | 10.53 | 4.40 |  |
|            | 78      | 65 |       | 229.91  | 186.50  | 45.78  | 7.85  | 3.74 | 271.91  | 209.17  | 54.15  | 10.65 | 4.42 | 311.76  | 229.29  | 62.08  | 13.29 | 5.07 |  |
|            | 80      | 67 |       | 261.69  | 197.36  | 52.11  | 9.94  | 4.26 | 311.65  | 221.81  | 62.06  | 13.28 | 5.07 | 357.64  | 243.08  | 71.22  | 17.06 | 5.82 |  |
|            | 85      | 70 |       | 318.59  | 230.17  | 63.44  | 13.83 | 5.18 | 379.93  | 258.50  | 75.66  | 19.04 | 6.18 | 403.31  | 268.85  | 80.31  | 21.22 | 6.56 |  |
| 24         | 76      | 63 | 11330 | 250.19  | 215.27  | 49.82  | 6.61  | 3.39 | 293.08  | 242.33  | 58.36  | 8.48  | 3.97 | 334.02  | 265.49  | 66.52  | 10.76 | 4.53 |  |
|            | 78      | 65 |       | 284.12  | 230.24  | 56.58  | 8.02  | 3.85 | 336.15  | 258.19  | 66.94  | 10.88 | 4.56 | 385.46  | 283.06  | 76.76  | 13.96 | 5.23 |  |
|            | 80      | 67 |       | 323.42  | 243.59  | 64.40  | 10.15 | 4.38 | 385.14  | 273.74  | 76.69  | 13.94 | 5.22 | 442.02  | 300.03  | 88.02  | 17.90 | 5.99 |  |
|            | 85      | 70 |       | 393.50  | 283.97  | 78.36  | 14.49 | 5.33 | 469.32  | 318.96  | 93.46  | 19.48 | 6.36 | 483.99  | 325.53  | 96.38  | 20.60 | 6.56 |  |
| 30         | 76      | 63 | 13330 | 297.45  | 255.31  | 59.23  | 6.91  | 3.46 | 348.57  | 287.35  | 69.41  | 8.92  | 4.05 | 397.70  | 314.89  | 79.19  | 11.33 | 4.62 |  |
|            | 78      | 65 |       | 337.82  | 272.91  | 67.27  | 8.43  | 3.93 | 399.99  | 306.02  | 79.65  | 11.45 | 4.65 | 459.08  | 335.74  | 91.42  | 14.71 | 5.33 |  |
|            | 80      | 67 |       | 384.73  | 288.75  | 76.61  | 10.67 | 4.47 | 458.09  | 324.40  | 91.22  | 14.65 | 5.32 | 526.12  | 355.81  | 104.77 | 18.84 | 6.11 |  |
|            | 85      | 70 |       | 467.70  | 336.40  | 93.13  | 15.21 | 5.43 | 557.91  | 377.90  | 111.10 | 20.96 | 6.48 | 564.60  | 380.85  | 112.43 | 21.42 | 6.56 |  |
| 35         | 76      | 63 | 15415 | 337.85  | 291.21  | 67.28  | 4.79  | 3.05 | 395.58  | 327.81  | 78.77  | 6.38  | 3.58 | 451.19  | 359.46  | 89.85  | 8.10  | 4.08 |  |
|            | 78      | 65 |       | 384.03  | 311.72  | 76.47  | 6.04  | 3.47 | 453.90  | 349.56  | 90.39  | 8.19  | 4.10 | 520.92  | 383.42  | 103.73 | 10.52 | 4.71 |  |
|            | 80      | 67 |       | 437.24  | 329.99  | 87.07  | 7.65  | 3.95 | 520.56  | 370.82  | 103.66 | 10.51 | 4.71 | 597.95  | 406.62  | 119.07 | 13.23 | 5.40 |  |
|            | 85      | 70 |       | 532.89  | 385.13  | 106.11 | 10.97 | 4.82 | 635.38  | 432.49  | 126.53 | 14.78 | 5.74 | 725.94  | 472.46  | 144.56 | 18.83 | 6.56 |  |
| 40         | 76      | 63 | 18500 | 405.48  | 349.50  | 80.74  | 5.82  | 3.30 | 474.82  | 393.46  | 94.55  | 7.76  | 3.86 | 540.94  | 431.10  | 107.72 | 9.83  | 4.40 |  |
|            | 78      | 65 |       | 460.61  | 373.94  | 91.72  | 7.34  | 3.75 | 544.48  | 419.39  | 108.42 | 9.95  | 4.43 | 624.05  | 459.61  | 124.27 | 12.43 | 5.08 |  |
|            | 80      | 67 |       | 524.08  | 395.69  | 104.36 | 9.28  | 4.26 | 624.12  | 444.74  | 124.28 | 12.43 | 5.08 | 716.04  | 487.26  | 142.59 | 15.95 | 5.82 |  |
|            | 85      | 70 |       | 638.12  | 461.53  | 127.07 | 12.94 | 5.19 | 761.02  | 518.33  | 151.54 | 17.82 | 6.19 | 806.61  | 538.63  | 160.62 | 19.81 | 6.56 |  |
| 50         | 76      | 63 | 22500 | 494.21  | 425.76  | 98.41  | 6.02  | 3.35 | 578.89  | 479.38  | 115.28 | 7.74  | 3.92 | 659.49  | 525.17  | 131.32 | 9.81  | 4.47 |  |
|            | 78      | 65 |       | 561.39  | 455.51  | 111.79 | 7.59  | 3.81 | 663.82  | 510.87  | 132.19 | 9.93  | 4.50 | 760.86  | 559.89  | 151.51 | 12.72 | 5.16 |  |
|            | 80      | 67 |       | 638.86  | 481.99  | 127.22 | 9.26  | 4.33 | 760.80  | 541.71  | 151.50 | 12.72 | 5.16 | 872.78  | 593.50  | 173.80 | 16.33 | 5.93 |  |
|            | 85      | 70 |       | 777.57  | 562.03  | 154.84 | 13.23 | 5.27 | 927.36  | 631.24  | 184.67 | 17.81 | 6.29 | 967.96  | 649.48  | 192.75 | 19.25 | 6.56 |  |
| 60         | 76      | 63 | 26250 | 579.36  | 498.55  | 115.37 | 5.99  | 3.37 | 678.72  | 561.27  | 135.16 | 7.98  | 3.94 | 773.57  | 614.93  | 154.04 | 10.13 | 4.49 |  |
|            | 78      | 65 |       | 658.01  | 533.28  | 131.03 | 7.55  | 3.82 | 778.45  | 598.01  | 155.01 | 10.25 | 4.52 | 892.69  | 655.64  | 177.76 | 12.73 | 5.19 |  |
|            | 80      | 67 |       | 749.06  | 564.23  | 149.16 | 9.55  | 4.35 | 891.96  | 634.05  | 177.62 | 12.72 | 5.18 | 1023.80 | 694.99  | 203.87 | 16.33 | 5.95 |  |
|            | 85      | 70 |       | 911.41  | 657.77  | 181.49 | 13.22 | 5.30 | 1086.99 | 738.83  | 216.45 | 18.21 | 6.32 | 1129.30 | 757.73  | 224.88 | 19.52 | 6.56 |  |
| 70         | 76      | 63 | 32000 | 707.55  | 608.60  | 140.90 | 6.06  | 3.39 | 828.95  | 685.14  | 165.07 | 8.09  | 3.97 | 944.96  | 750.67  | 188.17 | 9.81  | 4.52 |  |
|            | 78      | 65 |       | 803.51  | 650.93  | 160.00 | 7.64  | 3.84 | 950.91  | 729.97  | 189.36 | 9.92  | 4.55 | 1090.60 | 800.40  | 217.17 | 12.73 | 5.22 |  |
|            | 80      | 67 |       | 914.88  | 688.72  | 182.18 | 9.25  | 4.38 | 1089.44 | 773.93  | 216.94 | 12.71 | 5.21 | 1250.56 | 848.38  | 249.03 | 16.33 | 5.98 |  |
|            | 85      | 70 |       | 1112.99 | 802.80  | 221.63 | 13.21 | 5.33 | 1327.47 | 901.78  | 264.34 | 18.20 | 6.35 | 1371.28 | 921.32  | 273.07 | 19.30 | 6.56 |  |
| 80         | 76      | 63 | 41500 | 931.95  | 798.71  | 185.58 | 6.87  | 3.61 | 1092.58 | 899.05  | 217.57 | 9.18  | 4.23 | 1246.60 | 984.91  | 248.24 | 11.66 | 4.83 |  |
|            | 78      | 65 |       | 1058.66 | 853.33  | 210.81 | 8.66  | 4.10 | 1253.83 | 957.02  | 249.68 | 11.78 | 4.86 | 1439.24 | 1050.13 | 286.60 | 15.14 | 5.57 |  |
|            | 80      | 67 |       | 1205.17 | 902.76  | 239.99 | 10.97 | 4.67 | 1435.14 | 1014.21 | 285.78 | 15.06 | 5.56 | 1648.46 | 1112.64 | 328.26 | 19.38 | 6.39 |  |
|            | 85      | 70 |       | 1463.90 | 1051.15 | 291.51 | 15.62 | 5.67 | 1693.93 | 1156.57 | 337.32 | 20.36 | 6.56 | 1693.93 | 1156.57 | 337.32 | 20.36 | 6.56 |  |



## PERFORMANCE TABLE (COOLING)

1/2" tube, 6 Rows

| MODEL (GD) | ON COIL |    | AFR   | GROWS   |         |        |       |      |         |         |        |       |      |         |         |        |       |      |
|------------|---------|----|-------|---------|---------|--------|-------|------|---------|---------|--------|-------|------|---------|---------|--------|-------|------|
|            | DB      | WB |       | 10FPI   |         |        |       |      | 12FPI   |         |        |       |      | 14FPI   |         |        |       |      |
|            |         |    |       | TC      | SC      | WFR    | WPD   | VEL  | TC      | SC      | WFR    | WPD   | VEL  | TC      | SC      | WFR    | WPD   | VEL  |
|            | °F      | °F | SCFM  | MBH     | MBH     | GPM    | FT    | FPS  | MBH     | MBH     | GPM    | FT    | FPS  | MBH     | MBH     | GPM    | FT    | FPS  |
| 2.5        | 76      | 63 | 1125  | 32.10   | 25.79   | 6.39   | 5.23  | 2.61 | 36.71   | 28.21   | 7.31   | 6.67  | 2.99 | 40.67   | 30.23   | 8.10   | 7.80  | 3.31 |
|            | 78      | 65 |       | 37.00   | 27.48   | 7.37   | 6.76  | 3.01 | 42.46   | 30.12   | 8.46   | 8.43  | 3.45 | 47.03   | 32.28   | 9.37   | 10.15 | 3.83 |
|            | 80      | 67 |       | 42.48   | 29.14   | 8.46   | 8.44  | 3.46 | 48.76   | 32.02   | 9.71   | 10.83 | 3.97 | 53.81   | 34.31   | 10.71  | 12.95 | 4.38 |
|            | 85      | 70 |       | 51.86   | 33.98   | 10.33  | 12.11 | 4.22 | 59.30   | 37.28   | 11.81  | 15.44 | 4.82 | 65.20   | 39.91   | 12.98  | 18.34 | 5.30 |
| 4          | 76      | 63 | 1750  | 51.81   | 41.13   | 10.32  | 8.51  | 3.37 | 59.29   | 45.01   | 11.81  | 10.87 | 3.86 | 65.67   | 48.23   | 13.08  | 13.08 | 4.27 |
|            | 78      | 65 |       | 59.74   | 43.82   | 11.90  | 11.02 | 3.89 | 68.44   | 47.96   | 13.63  | 14.10 | 4.45 | 75.67   | 51.41   | 15.07  | 16.62 | 4.92 |
|            | 80      | 67 |       | 68.38   | 46.39   | 13.62  | 14.08 | 4.45 | 78.34   | 50.92   | 15.60  | 17.70 | 5.10 | 86.29   | 54.57   | 17.18  | 21.09 | 5.62 |
|            | 85      | 70 |       | 83.05   | 53.92   | 16.54  | 19.68 | 5.40 | 94.75   | 59.11   | 18.87  | 24.99 | 6.17 | 100.83  | 61.81   | 20.08  | 27.97 | 6.56 |
| 6          | 76      | 63 | 2915  | 87.87   | 69.35   | 17.50  | 10.21 | 3.57 | 100.46  | 75.86   | 20.00  | 13.02 | 4.09 | 111.27  | 81.27   | 22.16  | 15.23 | 4.53 |
|            | 78      | 65 |       | 101.30  | 73.86   | 20.17  | 13.21 | 4.12 | 115.94  | 80.81   | 23.09  | 16.40 | 4.72 | 128.19  | 86.66   | 25.53  | 19.67 | 5.21 |
|            | 80      | 67 |       | 115.87  | 78.19   | 23.07  | 16.39 | 4.71 | 132.52  | 85.75   | 26.39  | 20.90 | 5.39 | 145.96  | 91.94   | 29.07  | 24.89 | 5.94 |
|            | 85      | 70 |       | 140.41  | 90.74   | 27.96  | 23.20 | 5.71 | 159.99  | 99.41   | 31.86  | 29.14 | 6.51 | 161.33  | 100.00  | 32.13  | 29.58 | 6.56 |
| 9          | 76      | 63 | 4105  | 123.32  | 97.43   | 24.56  | 7.71  | 3.34 | 141.00  | 106.59  | 28.08  | 9.83  | 3.82 | 156.25  | 114.23  | 31.11  | 11.84 | 4.24 |
|            | 78      | 65 |       | 142.23  | 103.81  | 28.32  | 9.98  | 3.86 | 162.80  | 113.58  | 32.42  | 12.49 | 4.41 | 180.07  | 121.83  | 35.86  | 14.99 | 4.88 |
|            | 80      | 67 |       | 162.77  | 109.92  | 32.41  | 12.49 | 4.41 | 186.18  | 120.55  | 37.07  | 15.93 | 5.05 | 205.11  | 129.27  | 40.84  | 18.99 | 5.56 |
|            | 85      | 70 |       | 197.42  | 127.65  | 39.31  | 17.72 | 5.35 | 224.96  | 139.84  | 44.80  | 22.45 | 6.10 | 241.98  | 147.46  | 48.19  | 25.62 | 6.56 |
| 12         | 76      | 63 | 5415  | 162.57  | 128.47  | 32.37  | 8.65  | 3.53 | 185.91  | 140.56  | 37.02  | 11.03 | 4.03 | 205.94  | 150.60  | 41.01  | 13.28 | 4.47 |
|            | 78      | 65 |       | 187.42  | 136.84  | 37.32  | 11.20 | 4.07 | 214.58  | 149.74  | 42.73  | 14.31 | 4.65 | 237.23  | 160.57  | 47.24  | 17.17 | 5.15 |
|            | 80      | 67 |       | 214.44  | 144.87  | 42.70  | 14.29 | 4.65 | 245.32  | 158.90  | 48.85  | 18.24 | 5.32 | 270.19  | 170.34  | 53.80  | 21.73 | 5.86 |
|            | 85      | 70 |       | 259.94  | 168.18  | 51.76  | 20.26 | 5.64 | 296.32  | 184.28  | 59.01  | 25.38 | 6.43 | 302.49  | 187.00  | 60.24  | 26.35 | 6.56 |
| 16         | 76      | 63 | 7040  | 210.59  | 166.60  | 41.93  | 7.67  | 3.43 | 240.82  | 182.28  | 47.95  | 9.79  | 3.92 | 266.82  | 195.34  | 53.13  | 11.79 | 4.34 |
|            | 78      | 65 |       | 242.79  | 177.48  | 48.35  | 9.93  | 3.95 | 278.00  | 194.21  | 55.36  | 12.70 | 4.52 | 307.44  | 208.28  | 61.22  | 14.92 | 5.00 |
|            | 80      | 67 |       | 277.87  | 187.92  | 55.33  | 12.69 | 4.52 | 317.96  | 206.14  | 63.32  | 15.86 | 5.17 | 350.24  | 220.97  | 69.74  | 18.90 | 5.70 |
|            | 85      | 70 |       | 337.02  | 218.24  | 67.11  | 17.62 | 5.48 | 384.20  | 239.12  | 76.51  | 22.35 | 6.25 | 403.31  | 247.60  | 80.31  | 24.41 | 6.56 |
| 20         | 76      | 63 | 9205  | 274.13  | 217.18  | 54.59  | 7.87  | 3.43 | 313.50  | 237.63  | 62.43  | 9.68  | 3.92 | 347.28  | 254.63  | 69.15  | 11.65 | 4.35 |
|            | 78      | 65 |       | 315.92  | 231.31  | 62.91  | 9.81  | 3.95 | 361.92  | 253.20  | 72.07  | 12.56 | 4.53 | 400.17  | 271.46  | 79.69  | 15.07 | 5.01 |
|            | 80      | 67 |       | 361.67  | 244.94  | 72.02  | 12.54 | 4.53 | 414.04  | 268.76  | 82.45  | 16.03 | 5.18 | 456.04  | 288.04  | 90.81  | 18.65 | 5.71 |
|            | 85      | 70 |       | 438.79  | 284.51  | 87.38  | 17.81 | 5.49 | 500.48  | 311.82  | 99.66  | 22.08 | 6.26 | 524.30  | 322.37  | 104.40 | 24.02 | 6.56 |
| 24         | 76      | 63 | 11330 | 338.97  | 268.15  | 67.50  | 8.13  | 3.56 | 387.63  | 293.40  | 77.19  | 10.37 | 4.07 | 429.36  | 314.34  | 85.50  | 12.49 | 4.51 |
|            | 78      | 65 |       | 390.68  | 285.60  | 77.80  | 10.52 | 4.10 | 447.42  | 312.57  | 89.10  | 13.03 | 4.70 | 494.61  | 335.11  | 98.49  | 15.63 | 5.19 |
|            | 80      | 67 |       | 447.00  | 302.34  | 89.01  | 13.01 | 4.69 | 511.62  | 331.71  | 101.88 | 16.61 | 5.37 | 563.42  | 355.52  | 112.19 | 19.79 | 5.91 |
|            | 85      | 70 |       | 541.99  | 351.05  | 107.93 | 18.45 | 5.69 | 618.05  | 384.71  | 123.07 | 23.41 | 6.49 | 625.14  | 387.84  | 124.49 | 23.90 | 6.56 |
| 30         | 76      | 63 | 13330 | 399.61  | 315.92  | 79.58  | 7.33  | 3.42 | 456.86  | 345.61  | 90.98  | 9.35  | 3.91 | 506.20  | 370.35  | 100.80 | 11.27 | 4.33 |
|            | 78      | 65 |       | 460.72  | 336.54  | 91.74  | 9.50  | 3.94 | 527.46  | 368.24  | 105.03 | 12.14 | 4.52 | 583.35  | 394.95  | 116.16 | 14.30 | 4.99 |
|            | 80      | 67 |       | 527.22  | 356.32  | 104.99 | 12.13 | 4.51 | 603.17  | 390.83  | 120.11 | 15.19 | 5.16 | 664.51  | 419.04  | 132.33 | 18.11 | 5.69 |
|            | 85      | 70 |       | 639.39  | 413.79  | 127.32 | 16.89 | 5.47 | 728.78  | 453.36  | 145.12 | 21.42 | 6.24 | 766.32  | 470.01  | 152.60 | 23.46 | 6.56 |
| 35         | 76      | 63 | 15415 | 461.97  | 365.26  | 91.99  | 7.21  | 3.42 | 528.23  | 399.62  | 105.19 | 9.20  | 3.91 | 585.28  | 428.23  | 116.55 | 10.81 | 4.33 |
|            | 78      | 65 |       | 532.65  | 389.12  | 106.07 | 9.34  | 3.94 | 609.83  | 425.78  | 121.44 | 11.65 | 4.51 | 674.39  | 456.63  | 134.29 | 13.98 | 4.99 |
|            | 80      | 67 |       | 609.55  | 411.99  | 121.38 | 11.64 | 4.51 | 697.37  | 451.90  | 138.87 | 14.86 | 5.16 | 768.27  | 484.50  | 152.99 | 17.71 | 5.68 |
|            | 85      | 70 |       | 739.24  | 478.45  | 147.21 | 16.52 | 5.47 | 842.63  | 524.20  | 167.79 | 20.95 | 6.23 | 887.26  | 544.02  | 176.68 | 23.01 | 6.56 |
| 40         | 76      | 63 | 18500 | 549.33  | 435.61  | 109.39 | 7.35  | 3.44 | 628.29  | 476.65  | 125.11 | 9.06  | 3.93 | 696.05  | 510.80  | 138.61 | 10.91 | 4.36 |
|            | 78      | 65 |       | 633.06  | 463.98  | 126.06 | 9.18  | 3.96 | 725.39  | 507.94  | 144.45 | 11.76 | 4.54 | 801.95  | 544.47  | 159.69 | 14.11 | 5.02 |
|            | 80      | 67 |       | 724.71  | 491.31  | 144.33 | 11.74 | 4.54 | 830.00  | 539.18  | 165.28 | 15.02 | 5.19 | 914.07  | 577.75  | 182.02 | 17.48 | 5.72 |
|            | 85      | 70 |       | 879.55  | 570.75  | 175.15 | 16.69 | 5.50 | 1003.41 | 625.61  | 199.81 | 20.70 | 6.28 | 1048.59 | 645.60  | 208.81 | 22.43 | 6.56 |
| 50         | 76      | 63 | 22500 | 670.13  | 530.89  | 133.44 | 7.42  | 3.52 | 766.42  | 580.90  | 152.62 | 9.48  | 4.02 | 848.85  | 622.38  | 169.03 | 11.41 | 4.45 |
|            | 78      | 65 |       | 772.19  | 565.39  | 153.77 | 9.61  | 4.05 | 884.72  | 618.94  | 176.18 | 12.30 | 4.64 | 978.00  | 663.46  | 194.75 | 14.29 | 5.13 |
|            | 80      | 67 |       | 883.84  | 598.63  | 176.00 | 12.28 | 4.64 | 1011.99 | 656.91  | 201.52 | 15.21 | 5.31 | 1114.35 | 703.90  | 221.90 | 18.11 | 5.85 |
|            | 85      | 70 |       | 1072.09 | 695.22  | 213.49 | 16.89 | 5.63 | 1222.97 | 762.03  | 243.53 | 21.44 | 6.42 | 1250.27 | 774.08  | 248.97 | 22.32 | 6.56 |
| 60         | 76      | 63 | 26250 | 785.52  | 621.36  | 156.42 | 7.79  | 3.55 | 898.32  | 679.88  | 178.88 | 9.52  | 4.06 | 994.95  | 728.38  | 198.13 | 11.46 | 4.50 |
|            | 78      | 65 |       | 905.38  | 661.81  | 180.29 | 9.66  | 4.09 | 1036.88 | 724.30  | 206.48 | 12.36 | 4.69 | 1146.27 | 776.56  | 228.26 | 14.82 | 5.18 |
|            | 80      | 67 |       | 1035.94 | 700.63  | 206.29 | 12.34 | 4.68 | 1185.59 | 768.64  | 236.09 | 15.76 | 5.36 | 1305.70 | 823.84  | 260.01 | 18.77 | 5.90 |
|            | 85      | 70 |       | 1256.09 | 813.49  | 250.13 | 17.50 | 5.68 | 1432.21 | 891.46  | 285.20 | 22.21 | 6.47 | 1451.94 | 900.13  | 289.13 | 22.76 | 6.56 |
| 70         | 76      | 63 | 32000 | 958.26  | 757.84  | 190.82 | 7.33  | 3.54 | 1095.77 | 829.16  | 218.20 | 9.35  | 4.05 | 1213.75 | 888.36  | 241.70 | 11.26 | 4.49 |
|            | 78      | 65 |       | 1104.52 | 807.17  | 219.95 | 9.49  | 4.08 | 1264.81 | 883.34  | 251.87 | 12.13 | 4.68 | 1398.29 | 947.11  | 278.44 | 14.56 | 5.17 |
|            | 80      | 67 |       | 1263.79 | 854.53  | 251.66 | 12.12 | 4.67 | 1446.27 | 937.45  | 288.00 | 15.48 | 5.35 | 1592.71 | 1004.76 | 317.16 | 18.44 | 5.89 |
|            | 85      | 70 |       | 1532.19 | 992.11  | 305.11 | 17.19 | 5.67 | 1747.01 | 1087.21 | 347.89 | 21.82 | 6.46 | 1774.57 | 1099.32 | 353.38 | 22.45 | 6.56 |
| 80         | 76      | 63 | 41500 | 1260.59 | 992.48  | 251.02 | 8.85  | 3.80 | 1441.56 | 1085.83 | 287.06 | 11.30 | 4.34 | 1595.78 | 1162.83 | 317.77 | 13.59 | 4.81 |
|            | 78      | 65 |       | 1453.29 | 1056.93 | 289.40 | 11.47 | 4.38 | 1662.79 | 1156.21 | 331.12 | 14.65 | 5.01 | 1837.83 | 1240.02 | 365.97 | 17.57 | 5.54 |
|            | 80      | 67 |       | 1661.43 | 1118.69 | 330.84 | 14.62 | 5.01 | 1899.04 | 1226.46 | 378.16 | 18.65 | 5.72 | 2090.93 | 1314.94 | 416.37 | 22.21 | 6.30 |
|            | 85      | 70 |       | 2011.46 | 1297.25 | 400.55 | 20.70 | 6.06 | 2177.89 | 1370.75 | 433.69 | 23.92 | 6.56 | 2177.89 | 1370.75 | 433.69 | 23.92 | 6.56 |

## Legend &amp; Notes

- DB : dry bulb temperature, °F
- WB : wet bulb temperature, °F
- AFR : airflow rate
- SCFM : unit of standard airflow rate at sea level  
where air density is 0.075 lb/ft<sup>3</sup>
- TC : total capacity in MBH
- SC : sensible capacity in MBH
- WFR : water flow rate, GPM
- WPD : water pressure drop, ft. of water
- VEL : water velocity, FPS
- FPI : number of fins per inch

## PERFORMANCE TABLE (COOLING)

1/2" tube, 8 Rows

| MODEL (GD) | ON COIL |    | AFR   | 8ROWS   |         |        |       |      |         |         |        |       |      |         |         |        |       |      |
|------------|---------|----|-------|---------|---------|--------|-------|------|---------|---------|--------|-------|------|---------|---------|--------|-------|------|
|            |         |    |       | 10FPI   |         |        |       |      | 12FPI   |         |        |       |      | 14FPI   |         |        |       |      |
|            | DB      | WB |       | TC      | SC      | WFR    | WPD   | VEL  | TC      | SC      | WFR    | WPD   | VEL  | TC      | SC      | WFR    | WPD   | VEL  |
|            | °F      | °F | SCFM  | MBH     | MBH     | GPM    | FT    | FPS  | MBH     | MBH     | GPM    | FT    | FPS  | MBH     | MBH     | GPM    | FT    | FPS  |
| 2.5        | 76      | 63 | 1125  | 39.92   | 29.85   | 7.95   | 10.16 | 3.25 | 44.42   | 32.09   | 8.85   | 12.05 | 3.61 | 47.80   | 33.76   | 9.52   | 13.76 | 3.89 |
|            | 78      | 65 |       | 46.01   | 31.79   | 9.16   | 12.84 | 3.74 | 51.13   | 34.23   | 10.18  | 15.54 | 4.16 | 54.88   | 36.05   | 10.93  | 17.67 | 4.46 |
|            | 80      | 67 |       | 52.51   | 33.72   | 10.46  | 16.31 | 4.27 | 58.14   | 36.33   | 11.58  | 19.61 | 4.73 | 62.24   | 38.27   | 12.39  | 22.19 | 5.06 |
|            | 85      | 70 |       | 63.33   | 39.06   | 12.61  | 22.89 | 5.15 | 69.84   | 42.05   | 13.91  | 27.33 | 5.68 | 74.45   | 44.23   | 14.83  | 30.40 | 6.06 |
| 4          | 76      | 63 | 1750  | 62.39   | 46.58   | 12.42  | 9.58  | 3.38 | 69.42   | 50.07   | 13.82  | 11.63 | 3.76 | 74.71   | 52.70   | 14.88  | 12.99 | 4.05 |
|            | 78      | 65 |       | 71.92   | 49.61   | 14.32  | 12.13 | 3.90 | 79.87   | 53.41   | 15.90  | 14.66 | 4.33 | 85.67   | 56.22   | 17.06  | 16.65 | 4.65 |
|            | 80      | 67 |       | 82.02   | 52.61   | 16.33  | 15.39 | 4.45 | 90.79   | 56.68   | 18.08  | 18.50 | 4.92 | 97.14   | 59.69   | 19.34  | 20.91 | 5.27 |
|            | 85      | 70 |       | 98.88   | 60.93   | 19.69  | 21.59 | 5.36 | 108.98  | 65.57   | 21.70  | 25.75 | 5.91 | 116.15  | 68.96   | 23.13  | 28.50 | 6.30 |
| 6          | 76      | 63 | 2915  | 104.99  | 78.13   | 20.91  | 10.20 | 3.42 | 116.66  | 83.91   | 23.23  | 11.87 | 3.80 | 125.50  | 88.32   | 24.99  | 13.54 | 4.08 |
|            | 78      | 65 |       | 120.92  | 83.18   | 24.08  | 12.66 | 3.93 | 134.12  | 89.49   | 26.71  | 15.27 | 4.36 | 143.85  | 94.22   | 28.64  | 17.34 | 4.68 |
|            | 80      | 67 |       | 137.88  | 88.20   | 27.46  | 16.06 | 4.49 | 152.41  | 94.97   | 30.35  | 19.25 | 4.96 | 162.99  | 100.01  | 32.46  | 21.48 | 5.30 |
|            | 85      | 70 |       | 166.07  | 102.10  | 33.07  | 22.22 | 5.40 | 182.86  | 109.84  | 36.41  | 26.45 | 5.95 | 194.73  | 115.47  | 38.78  | 29.64 | 6.34 |
| 9          | 76      | 63 | 4105  | 150.04  | 111.11  | 29.88  | 11.63 | 3.76 | 166.45  | 119.22  | 33.15  | 13.76 | 4.17 | 178.90  | 125.48  | 35.63  | 15.68 | 4.48 |
|            | 78      | 65 |       | 172.63  | 118.27  | 34.38  | 14.70 | 4.32 | 191.16  | 127.11  | 38.07  | 17.68 | 4.78 | 204.84  | 133.81  | 40.79  | 20.03 | 5.13 |
|            | 80      | 67 |       | 196.62  | 125.33  | 39.15  | 18.60 | 4.92 | 216.99  | 134.84  | 43.21  | 22.24 | 5.43 | 231.83  | 141.95  | 46.16  | 25.07 | 5.80 |
|            | 85      | 70 |       | 236.42  | 144.94  | 47.08  | 25.97 | 5.92 | 259.90  | 155.80  | 51.75  | 30.83 | 6.50 | 262.15  | 156.86  | 52.20  | 31.31 | 6.56 |
| 12         | 76      | 63 | 5415  | 196.76  | 145.99  | 39.18  | 11.44 | 3.77 | 218.43  | 156.71  | 43.50  | 13.82 | 4.18 | 234.80  | 164.92  | 46.76  | 15.76 | 4.49 |
|            | 78      | 65 |       | 226.42  | 155.38  | 45.09  | 14.75 | 4.33 | 250.92  | 167.08  | 49.97  | 17.77 | 4.80 | 268.93  | 175.87  | 53.55  | 20.15 | 5.15 |
|            | 80      | 67 |       | 257.94  | 164.68  | 51.37  | 18.68 | 4.94 | 284.93  | 177.26  | 56.74  | 22.09 | 5.45 | 304.48  | 186.61  | 60.63  | 24.91 | 5.83 |
|            | 85      | 70 |       | 310.27  | 190.47  | 61.79  | 25.78 | 5.94 | 341.42  | 204.86  | 67.99  | 30.65 | 6.53 | 342.82  | 205.52  | 68.27  | 30.88 | 6.56 |
| 16         | 76      | 63 | 7040  | 254.57  | 189.18  | 50.69  | 9.75  | 3.60 | 282.75  | 203.13  | 56.30  | 11.79 | 4.00 | 304.04  | 213.78  | 60.54  | 13.13 | 4.30 |
|            | 78      | 65 |       | 293.04  | 201.38  | 58.35  | 12.29 | 4.15 | 324.95  | 216.61  | 64.71  | 14.82 | 4.60 | 348.39  | 228.03  | 69.38  | 16.81 | 4.93 |
|            | 80      | 67 |       | 334.03  | 213.49  | 66.52  | 15.58 | 4.73 | 369.11  | 229.83  | 73.50  | 18.66 | 5.22 | 394.59  | 241.99  | 78.58  | 21.07 | 5.58 |
|            | 85      | 70 |       | 402.05  | 247.03  | 80.06  | 21.79 | 5.69 | 442.58  | 265.74  | 88.13  | 25.94 | 6.26 | 463.81  | 275.76  | 92.36  | 27.80 | 6.56 |
| 20         | 76      | 63 | 9205  | 332.81  | 247.34  | 66.27  | 10.54 | 3.73 | 369.73  | 265.61  | 73.63  | 12.75 | 4.15 | 397.50  | 279.51  | 79.16  | 14.54 | 4.46 |
|            | 78      | 65 |       | 383.07  | 263.26  | 76.28  | 13.60 | 4.30 | 424.83  | 283.20  | 84.60  | 16.40 | 4.77 | 455.41  | 298.10  | 90.69  | 18.16 | 5.11 |
|            | 80      | 67 |       | 436.59  | 279.08  | 86.94  | 17.24 | 4.90 | 482.55  | 300.48  | 96.09  | 20.16 | 5.41 | 515.75  | 316.32  | 102.70 | 22.75 | 5.79 |
|            | 85      | 70 |       | 525.35  | 322.85  | 104.61 | 23.52 | 5.89 | 578.44  | 347.34  | 115.19 | 28.00 | 6.49 | 584.79  | 350.30  | 116.45 | 28.56 | 6.56 |
| 24         | 76      | 63 | 11330 | 409.23  | 304.23  | 81.49  | 10.06 | 3.70 | 454.67  | 326.73  | 90.54  | 11.73 | 4.11 | 488.86  | 343.83  | 97.35  | 13.37 | 4.42 |
|            | 78      | 65 |       | 471.06  | 323.83  | 93.80  | 12.50 | 4.26 | 522.48  | 348.38  | 104.04 | 15.08 | 4.72 | 560.12  | 366.71  | 111.54 | 17.11 | 5.06 |
|            | 80      | 67 |       | 536.91  | 343.28  | 106.92 | 15.85 | 4.85 | 593.48  | 369.62  | 118.18 | 19.00 | 5.36 | 634.35  | 389.11  | 126.32 | 21.44 | 5.73 |
|            | 85      | 70 |       | 646.13  | 397.15  | 128.66 | 22.17 | 5.84 | 711.50  | 427.30  | 141.68 | 26.40 | 6.43 | 725.97  | 434.07  | 144.56 | 27.38 | 6.56 |
| 30         | 76      | 63 | 13330 | 485.18  | 359.80  | 96.62  | 10.44 | 3.76 | 538.55  | 386.18  | 107.24 | 12.62 | 4.17 | 578.81  | 406.38  | 115.26 | 14.11 | 4.48 |
|            | 78      | 65 |       | 558.24  | 382.92  | 111.16 | 13.47 | 4.32 | 618.56  | 411.72  | 123.18 | 15.91 | 4.79 | 662.92  | 433.39  | 132.01 | 18.04 | 5.14 |
|            | 80      | 67 |       | 635.99  | 405.85  | 126.65 | 16.74 | 4.93 | 702.32  | 436.78  | 139.85 | 20.03 | 5.44 | 750.50  | 459.83  | 149.45 | 22.59 | 5.81 |
|            | 85      | 70 |       | 764.95  | 469.40  | 152.33 | 23.39 | 5.93 | 841.52  | 504.79  | 167.57 | 27.80 | 6.52 | 846.98  | 507.34  | 168.66 | 28.13 | 6.56 |
| 35         | 76      | 63 | 15415 | 559.08  | 415.07  | 111.33 | 9.49  | 3.64 | 620.77  | 445.59  | 123.61 | 11.16 | 4.04 | 667.44  | 468.98  | 132.91 | 12.73 | 4.34 |
|            | 78      | 65 |       | 643.54  | 441.85  | 128.15 | 11.92 | 4.19 | 713.28  | 475.15  | 142.04 | 14.36 | 4.64 | 764.60  | 500.18  | 152.26 | 16.29 | 4.98 |
|            | 80      | 67 |       | 733.34  | 468.35  | 146.03 | 15.10 | 4.77 | 810.11  | 504.13  | 161.32 | 18.09 | 5.27 | 865.86  | 530.76  | 172.42 | 20.41 | 5.63 |
|            | 85      | 70 |       | 882.41  | 541.84  | 175.72 | 21.13 | 5.74 | 971.05  | 582.78  | 193.37 | 24.69 | 6.32 | 1008.25 | 600.30  | 200.77 | 26.43 | 6.56 |
| 40         | 76      | 63 | 18500 | 667.25  | 496.28  | 132.87 | 9.87  | 3.74 | 741.57  | 533.08  | 147.67 | 11.95 | 4.16 | 797.32  | 560.95  | 158.77 | 13.63 | 4.47 |
|            | 78      | 65 |       | 768.17  | 528.27  | 152.97 | 12.74 | 4.31 | 852.18  | 568.39  | 169.70 | 15.38 | 4.78 | 913.59  | 598.28  | 181.93 | 17.04 | 5.13 |
|            | 80      | 67 |       | 875.51  | 559.99  | 174.34 | 16.15 | 4.91 | 968.05  | 603.06  | 192.77 | 18.92 | 5.43 | 1034.72 | 634.84  | 206.05 | 21.35 | 5.80 |
|            | 85      | 70 |       | 1053.63 | 647.86  | 209.81 | 22.06 | 5.91 | 1160.50 | 697.11  | 231.09 | 26.28 | 6.51 | 1169.57 | 701.36  | 232.90 | 26.65 | 6.56 |
| 50         | 76      | 63 | 22500 | 809.55  | 602.60  | 161.21 | 9.19  | 3.66 | 899.83  | 647.32  | 179.18 | 10.74 | 4.07 | 967.73  | 681.23  | 192.71 | 12.25 | 4.37 |
|            | 78      | 65 |       | 932.14  | 641.48  | 185.62 | 11.45 | 4.21 | 1034.30 | 690.27  | 205.96 | 13.82 | 4.67 | 1109.02 | 726.60  | 220.84 | 15.68 | 5.01 |
|            | 80      | 67 |       | 1062.63 | 680.08  | 211.60 | 14.52 | 4.80 | 1175.15 | 732.42  | 234.01 | 17.42 | 5.31 | 1256.29 | 771.06  | 250.17 | 19.66 | 5.68 |
|            | 85      | 70 |       | 1279.27 | 786.96  | 254.74 | 20.32 | 5.78 | 1409.20 | 846.79  | 280.62 | 24.22 | 6.37 | 1451.92 | 866.84  | 289.12 | 25.57 | 6.56 |
| 60         | 76      | 63 | 26250 | 947.72  | 704.66  | 188.72 | 9.07  | 3.67 | 1053.02 | 756.78  | 209.69 | 10.97 | 4.08 | 1132.31 | 796.44  | 225.48 | 12.52 | 4.39 |
|            | 78      | 65 |       | 1091.06 | 750.10  | 217.27 | 11.70 | 4.23 | 1210.14 | 806.96  | 240.98 | 14.12 | 4.69 | 1297.42 | 849.46  | 258.36 | 16.02 | 5.03 |
|            | 80      | 67 |       | 1243.60 | 795.18  | 247.64 | 14.84 | 4.82 | 1374.69 | 856.21  | 273.74 | 17.80 | 5.32 | 1469.40 | 901.38  | 292.61 | 20.08 | 5.69 |
|            | 85      | 70 |       | 1496.77 | 920.05  | 298.06 | 20.77 | 5.80 | 1648.19 | 989.88  | 328.21 | 24.74 | 6.38 | 1693.91 | 1011.32 | 337.31 | 25.99 | 6.56 |
| 70         | 76      | 63 | 32000 | 1156.91 | 859.81  | 230.38 | 9.08  | 3.69 | 1285.27 | 923.34  | 255.94 | 11.00 | 4.10 | 1381.90 | 971.69  | 275.18 | 12.54 | 4.41 |
|            | 78      | 65 |       | 1331.83 | 915.26  | 265.21 | 11.73 | 4.25 | 1476.90 | 984.53  | 294.10 | 14.15 | 4.71 | 1583.22 | 1036.33 | 315.27 | 16.06 | 5.05 |
|            | 80      | 67 |       | 1517.85 | 970.21  | 302.25 | 14.87 | 4.84 | 1677.53 | 1044.57 | 334.05 | 17.83 | 5.35 | 1793.06 | 1099.69 | 357.06 | 20.13 | 5.72 |
|            | 85      | 70 |       | 1826.57 | 1122.45 | 363.73 | 20.82 | 5.83 | 2011.09 | 1207.59 | 400.47 | 24.79 | 6.42 | 2056.95 | 1229.06 | 409.61 | 25.83 | 6.56 |
| 80         | 76      | 63 | 41500 | 1509.46 | 1119.62 | 300.58 | 9.42  | 3.72 | 1675.63 | 1201.79 | 333.67 | 11.39 | 4.13 | 1801.12 | 1264.73 | 358.66 | 12.99 | 4.44 |
|            | 78      | 65 |       | 1737.04 | 1191.71 | 345.90 | 12.16 | 4.28 | 1924.76 | 1281.32 | 383.28 | 14.65 | 4.74 | 2062.88 | 1348.78 | 410.79 | 16.62 | 5.08 |
|            | 80      | 67 |       | 1979.08 | 1263.09 | 394.10 | 15.42 | 4.88 | 2185.51 | 1359.34 | 435.21 | 18.46 | 5.39 | 2335.50 | 1431.08 | 465.07 | 19.89 | 5.76 |
|            | 85      | 70 |       | 2380.50 | 1460.92 | 474.03 | 20.59 | 5.87 | 2618.86 | 1571.08 | 521.50 | 24.49 | 6.46 | 2661.92 | 1591.26 | 530.07 | 25.22 | 6.56 |



## FAN PERFORMANCE TABLE

| MODEL  | SCFM  | Fan Total Static Pressure (Inch Water) |        |      |        |        |      |        |        |      |        |        |      |        |        |      |
|--------|-------|----------------------------------------|--------|------|--------|--------|------|--------|--------|------|--------|--------|------|--------|--------|------|
|        |       | 1.5"                                   |        |      | 2"     |        |      | 2.5"   |        |      | 3"     |        |      | 3.5"   |        |      |
|        |       | FAN HP                                 | MTR HP | RPM  | FAN HP | MTR HP | RPM  | FAN HP | MTR HP | RPM  | FAN HP | MTR HP | RPM  | FAN HP | MTR HP | RPM  |
| GD-2.5 | 900   | 0.42                                   | 0.75   | 1774 | 0.57   | 0.75   | 2066 | 0.77   | 1.0    | 2602 | 0.92   | 1.5    | 2859 | 1.08   | 1.5    | 3101 |
|        | 1125  | 0.54                                   | 0.75   | 1770 | 0.70   | 1.0    | 2042 | 0.87   | 1.5    | 2294 | 1.06   | 1.5    | 2527 | 1.25   | 1.5    | 2744 |
|        | 1350  | 0.70                                   | 1.0    | 1805 | 0.87   | 1.5    | 2049 | 1.05   | 1.5    | 2281 | 1.25   | 1.5    | 2502 | 1.45   | 2.0    | 2712 |
| GD-4   | 1400  | 0.68                                   | 1.0    | 1512 | 0.91   | 1.5    | 1791 | 1.18   | 1.5    | 2046 | 1.30   | 2.0    | 2500 | 1.51   | 2.0    | 2707 |
|        | 1750  | 0.89                                   | 1.5    | 1494 | 1.13   | 1.5    | 1729 | 1.40   | 2.0    | 1962 | 1.70   | 3.0    | 2185 | 2.02   | 3.0    | 2396 |
|        | 2100  | 1.23                                   | 1.5    | 1540 | 1.46   | 2.0    | 1730 | 1.72   | 3.0    | 1925 | 2.01   | 3.0    | 2121 | 2.34   | 3.0    | 2316 |
| GD-6   | 2333  | 0.95                                   | 1.5    | 1157 | 1.24   | 1.5    | 1354 | 1.56   | 2.0    | 1538 | 1.91   | 3.0    | 1709 | 2.62   | 5.0    | 2285 |
|        | 2915  | 1.31                                   | 2.0    | 1163 | 1.62   | 2.0    | 1333 | 1.96   | 3.0    | 1497 | 2.32   | 3.0    | 1655 | 2.71   | 5.0    | 1805 |
|        | 3500  | 1.81                                   | 3.0    | 1199 | 2.14   | 3.0    | 1349 | 2.50   | 5.0    | 1493 | 2.89   | 5.0    | 1633 | 3.29   | 5.0    | 1770 |
| GD-9   | 3333  | 1.29                                   | 2.0    | 893  | 1.73   | 3.0    | 1059 | 2.22   | 3.0    | 1209 | 2.72   | 5.0    | 1636 | 3.12   | 5.0    | 1776 |
|        | 4105  | 1.64                                   | 2.0    | 873  | 2.11   | 3.0    | 1021 | 2.63   | 5.0    | 1162 | 3.18   | 5.0    | 1295 | 3.77   | 5.0    | 1420 |
|        | 5000  | 2.22                                   | 3.0    | 879  | 2.72   | 5.0    | 1006 | 3.25   | 5.0    | 1131 | 3.84   | 5.0    | 1252 | 4.46   | 7.5    | 1368 |
| GD-12  | 4333  | 1.61                                   | 2.0    | 802  | 2.16   | 3.0    | 948  | 2.75   | 5.0    | 1080 | 3.50   | 5.0    | 1448 | 4.01   | 5.0    | 1570 |
|        | 5415  | 2.13                                   | 3.0    | 785  | 2.71   | 5.0    | 917  | 3.34   | 5.0    | 1041 | 4.02   | 5.0    | 1158 | 4.74   | 7.5    | 1267 |
|        | 6500  | 2.88                                   | 5.0    | 791  | 3.47   | 5.0    | 905  | 4.13   | 5.0    | 1017 | 4.84   | 7.5    | 1125 | 5.61   | 7.5    | 1229 |
| GD-16  | 5633  | 2.10                                   | 3.0    | 698  | 2.80   | 5.0    | 828  | 3.57   | 5.0    | 950  | 4.43   | 7.5    | 1236 | 5.07   | 7.5    | 1345 |
|        | 7040  | 2.83                                   | 5.0    | 688  | 3.54   | 5.0    | 798  | 4.35   | 7.5    | 906  | 5.22   | 7.5    | 1010 | 6.15   | 7.5    | 1110 |
|        | 8450  | 3.87                                   | 5.0    | 702  | 4.62   | 7.5    | 796  | 5.44   | 7.5    | 888  | 6.34   | 10.0   | 980  | 7.30   | 10.0   | 1070 |
| GD-20  | 7367  | 2.81                                   | 5.0    | 636  | 3.72   | 5.0    | 749  | 4.76   | 7.5    | 858  | 5.92   | 7.5    | 961  | 6.46   | 10.0   | 1209 |
|        | 9205  | 3.91                                   | 5.0    | 640  | 4.80   | 7.5    | 732  | 5.81   | 7.5    | 823  | 6.95   | 10.0   | 914  | 8.20   | 10.0   | 1002 |
|        | 11050 | 5.51                                   | 7.5    | 666  | 6.43   | 10.0   | 743  | 7.44   | 10.0   | 820  | 8.56   | 15.0   | 896  | 9.78   | 15.0   | 973  |
| GD-24  | 9067  | 3.37                                   | 5.0    | 592  | 4.39   | 7.5    | 692  | 5.52   | 7.5    | 785  | 6.75   | 10.0   | 873  | 7.92   | 10.0   | 1059 |
|        | 11330 | 4.72                                   | 7.5    | 599  | 5.78   | 7.5    | 683  | 6.95   | 10.0   | 766  | 8.22   | 10.0   | 845  | 9.59   | 15.0   | 922  |
|        | 13600 | 6.66                                   | 10.0   | 623  | 7.78   | 10.0   | 696  | 8.99   | 15.0   | 767  | 10.30  | 15.0   | 837  | 11.70  | 15.0   | 905  |
| GD-30  | 10667 | 3.81                                   | 5.0    | 526  | 5.08   | 7.5    | 619  | 6.51   | 10.0   | 705  | 8.17   | 10.0   | 898  | 9.39   | 15.0   | 977  |
|        | 13330 | 5.16                                   | 7.5    | 526  | 6.45   | 10.0   | 605  | 7.89   | 10.0   | 682  | 9.48   | 15.0   | 756  | 11.20  | 15.0   | 826  |
|        | 16000 | 7.08                                   | 10.0   | 541  | 8.43   | 15.0   | 609  | 9.91   | 15.0   | 676  | 11.52  | 15.0   | 741  | 13.25  | 20.0   | 805  |
| GD-35  | 12333 | 4.59                                   | 7.5    | 524  | 5.87   | 7.5    | 608  | 7.31   | 10.0   | 688  | 8.89   | 15.0   | 765  | 11.29  | 15.0   | 968  |
|        | 15415 | 6.60                                   | 10.0   | 537  | 7.94   | 10.0   | 607  | 9.41   | 15.0   | 676  | 11.01  | 15.0   | 743  | 12.74  | 20.0   | 809  |
|        | 18500 | 9.44                                   | 15.0   | 565  | 10.91  | 15.0   | 625  | 12.46  | 15.0   | 684  | 14.11  | 20.0   | 742  | 15.87  | 20.0   | 800  |
| GD-40  | 14800 | 5.36                                   | 7.5    | 449  | 7.03   | 10.0   | 530  | 8.87   | 15.0   | 605  | 10.86  | 15.0   | 675  | 13.19  | 20.0   | 904  |
|        | 18500 | 7.43                                   | 10.0   | 448  | 9.15   | 15.0   | 516  | 11.07  | 15.0   | 582  | 13.15  | 20.0   | 647  | 15.39  | 20.0   | 708  |
|        | 22200 | 10.41                                  | 15.0   | 464  | 12.21  | 15.0   | 520  | 14.18  | 20.0   | 577  | 16.32  | 20.0   | 633  | 18.63  | 25.0   | 688  |
| GD-50  | 18000 | 6.51                                   | 10.0   | 410  | 8.54   | 15.0   | 480  | 10.79  | 15.0   | 545  | 13.22  | 20.0   | 606  | 15.29  | 20.0   | 800  |
|        | 22500 | 8.96                                   | 15.0   | 411  | 11.10  | 15.0   | 472  | 13.44  | 20.0   | 531  | 15.99  | 20.0   | 587  | 18.71  | 25.0   | 640  |
|        | 27000 | 12.38                                  | 15.0   | 422  | 14.69  | 20.0   | 476  | 17.16  | 20.0   | 528  | 19.81  | 25.0   | 578  | 22.63  | 30.0   | 627  |
| GD-60  | 21000 | 7.40                                   | 10.0   | 360  | 9.77   | 15.0   | 423  | 12.36  | 15.0   | 480  | 15.14  | 20.0   | 533  | 17.54  | 25.0   | 693  |
|        | 26250 | 9.95                                   | 15.0   | 355  | 12.53  | 20.0   | 413  | 15.32  | 20.0   | 466  | 18.29  | 25.0   | 516  | 21.43  | 25.0   | 563  |
|        | 31500 | 13.43                                  | 20.0   | 358  | 16.24  | 20.0   | 410  | 19.25  | 25.0   | 460  | 22.42  | 30.0   | 506  | 27.92  | 40.0   | 625  |
| GD-70  | 25667 | 9.68                                   | 15.0   | 355  | 12.25  | 15.0   | 413  | 15.02  | 20.0   | 467  | 17.98  | 25.0   | 518  | 21.11  | 25.0   | 565  |
|        | 32000 | 13.87                                  | 20.0   | 359  | 16.72  | 20.0   | 411  | 19.75  | 25.0   | 459  | 22.95  | 30.0   | 506  | 26.32  | 40.0   | 550  |
|        | 38500 | 19.80                                  | 25.0   | 370  | 22.99  | 30.0   | 416  | 26.32  | 40.0   | 460  | 29.81  | 40.0   | 503  | 33.45  | 40.0   | 543  |
| GD-80  | 33250 | 12.31                                  | 15.0   | 315  | 15.65  | 20.0   | 367  | 19.42  | 25.0   | 417  | 23.55  | 30.0   | 465  | 27.96  | 40.0   | 510  |
|        | 41500 | 17.97                                  | 25.0   | 320  | 21.37  | 25.0   | 364  | 25.17  | 30.0   | 407  | 29.35  | 40.0   | 449  | 33.89  | 40.0   | 490  |
|        | 49875 | 26.267                                 | 40.0   | 334  | 29.885 | 40.0   | 372  | 33.789 | 40.0   | 409  | 38.018 | 50.0   | 445  | 42.581 | 50.0   | 481  |

**Legends**

FAN HP : fan shaft power  
MTR HP : Motor HP  
RPM : fan speed  
SCFM : unit of standard airflow rate at sea level  
where air density is 0.075 lb/ft<sup>3</sup>

**Notes**

- These fan performance can be used for preliminary selections. There will be a small discrepancy between manual and computer selection. For complete fan performance data including sound power level, obtained a computer selection from nearest HACE office.
- See applicable fan for the shaded and non shaded area.



## FAN PERFORMANCE TABLE

| MODEL  | SCFM  | Fan Total Static Pressure (Inch Water) |        |      |        |        |      |        |        |      |        |        |      |        |        |      |
|--------|-------|----------------------------------------|--------|------|--------|--------|------|--------|--------|------|--------|--------|------|--------|--------|------|
|        |       | 4"                                     |        |      | 4.5"   |        |      | 5"     |        |      | 5.5"   |        |      | 6"     |        |      |
|        |       | FAN HP                                 | MTR HP | RPM  | FAN HP | MTR HP | RPM  | FAN HP | MTR HP | RPM  | FAN HP | MTR HP | RPM  | FAN HP | MTR HP | RPM  |
| GD-2.5 | 900   | 1.25                                   | 2.0    | 3328 | 1.43   | 2.0    | 3542 | 1.15   | 1.5    | 5663 | 1.27   | 1.5    | 5852 | 1.385  | 2.0    | 6034 |
|        | 1125  | 1.52                                   | 2.0    | 3292 | 1.71   | 3.0    | 3498 | 1.90   | 3.0    | 3697 | 2.11   | 3.0    | 3888 | 1.72   | 2.0    | 6498 |
|        | 1350  | 1.67                                   | 3.0    | 2911 | 1.89   | 3.0    | 3099 | 2.12   | 3.0    | 3279 | 2.49   | 3.0    | 3858 | 2.71   | 5.0    | 4034 |
| GD-4   | 1400  | 1.72                                   | 3.0    | 2904 | 1.95   | 3.0    | 3092 | 2.18   | 3.0    | 3271 | 2.42   | 3.0    | 3442 | 2.67   | 5.0    | 3605 |
|        | 1750  | 2.35                                   | 3.0    | 2594 | 2.42   | 3.0    | 3061 | 2.68   | 5.0    | 3230 | 2.94   | 5.0    | 3394 | 3.21   | 5.0    | 3552 |
|        | 2100  | 2.69                                   | 5.0    | 2505 | 3.06   | 5.0    | 2687 | 3.44   | 5.0    | 2862 | 3.84   | 5.0    | 3029 | 3.01   | 5.0    | 5210 |
| GD-6   | 2333  | 2.96                                   | 5.0    | 2461 | 3.34   | 5.0    | 2635 | 3.73   | 5.0    | 2804 | 4.14   | 5.0    | 2968 | 2.95   | 5.0    | 4024 |
|        | 2915  | 3.12                                   | 5.0    | 1949 | 3.55   | 5.0    | 2086 | 3.25   | 5.0    | 4087 | 3.52   | 5.0    | 4205 | 3.79   | 5.0    | 4319 |
|        | 3500  | 3.72                                   | 5.0    | 1902 | 4.19   | 7.5    | 2031 | 4.66   | 7.5    | 2156 | 5.14   | 7.5    | 2277 | 5.65   | 7.5    | 2394 |
| GD-9   | 3333  | 3.55                                   | 5.0    | 1913 | 3.99   | 5.0    | 2044 | 4.46   | 7.5    | 2172 | 4.94   | 7.5    | 2294 | 5.43   | 7.5    | 2413 |
|        | 4105  | 4.55                                   | 7.5    | 1885 | 5.02   | 7.5    | 2003 | 5.50   | 7.5    | 2118 | 6.01   | 7.5    | 2231 | 6.54   | 10.0   | 2341 |
|        | 5000  | 5.12                                   | 7.5    | 1481 | 5.81   | 7.5    | 1588 | 6.52   | 10.0   | 1691 | 7.25   | 10.0   | 1790 | 8.01   | 10.0   | 1885 |
| GD-12  | 4333  | 4.53                                   | 7.5    | 1688 | 5.08   | 7.5    | 1802 | 5.65   | 7.5    | 1911 | 6.23   | 7.5    | 2017 | 6.83   | 10.0   | 2120 |
|        | 5415  | 5.49                                   | 7.5    | 1369 | 6.59   | 10.0   | 1772 | 7.21   | 10.0   | 1872 | 7.84   | 10.0   | 1969 | 8.49   | 15.0   | 2064 |
|        | 6500  | 6.41                                   | 10.0   | 1328 | 7.24   | 10.0   | 1423 | 8.11   | 10.0   | 1513 | 8.99   | 15.0   | 1599 | 9.91   | 15.0   | 1681 |
| GD-16  | 5633  | 5.75                                   | 7.5    | 1451 | 6.46   | 10.0   | 1553 | 7.20   | 10.0   | 1653 | 7.96   | 10.0   | 1749 | 8.75   | 15.0   | 1842 |
|        | 7040  | 7.14                                   | 10.0   | 1205 | 8.17   | 10.0   | 1295 | 9.12   | 15.0   | 1600 | 9.93   | 15.0   | 1686 | 10.77  | 15.0   | 1771 |
|        | 8450  | 8.32                                   | 10.0   | 1157 | 9.40   | 15.0   | 1243 | 10.52  | 15.0   | 1325 | 11.69  | 15.0   | 1405 | 12.90  | 20.0   | 1482 |
| GD-20  | 7367  | 7.29                                   | 10.0   | 1303 | 8.16   | 10.0   | 1394 | 9.06   | 15.0   | 1482 | 10.00  | 15.0   | 1566 | 10.96  | 15.0   | 1648 |
|        | 9205  | 9.54                                   | 15.0   | 1088 | 10.98  | 15.0   | 1171 | 11.67  | 15.0   | 1439 | 12.66  | 20.0   | 1516 | 13.68  | 20.0   | 1591 |
|        | 11050 | 11.10                                  | 15.0   | 1048 | 12.52  | 20.0   | 1123 | 14.03  | 20.0   | 1197 | 15.62  | 20.0   | 1269 | 16.42  | 20.0   | 1401 |
| GD-24  | 9067  | 8.95                                   | 15.0   | 1143 | 10.04  | 15.0   | 1225 | 11.18  | 15.0   | 1305 | 12.37  | 15.0   | 1383 | 13.60  | 20.0   | 1458 |
|        | 11330 | 11.05                                  | 15.0   | 995  | 12.58  | 20.0   | 1065 | 14.29  | 20.0   | 1261 | 15.52  | 20.0   | 1328 | 16.88  | 20.0   | 1396 |
|        | 13600 | 13.20                                  | 20.0   | 973  | 14.77  | 20.0   | 1038 | 16.43  | 20.0   | 1101 | 20.11  | 25.0   | 1318 | 21.43  | 25.0   | 1375 |
| GD-30  | 10667 | 10.72                                  | 15.0   | 1055 | 12.15  | 15.0   | 1131 | 13.66  | 20.0   | 1206 | 15.26  | 20.0   | 1280 | 15.83  | 20.0   | 1409 |
|        | 13330 | 13.04                                  | 20.0   | 894  | 15.39  | 20.0   | 1098 | 16.95  | 20.0   | 1162 | 18.52  | 25.0   | 1225 | 20.16  | 25.0   | 1287 |
|        | 16000 | 15.11                                  | 20.0   | 868  | 17.08  | 20.0   | 928  | 19.15  | 25.0   | 987  | 23.46  | 30.0   | 1214 | 25.08  | 30.0   | 1267 |
| GD-35  | 12333 | 12.59                                  | 20.0   | 1036 | 13.99  | 20.0   | 1105 | 15.47  | 20.0   | 1173 | 17.15  | 20.0   | 1240 | 18.81  | 25.0   | 1306 |
|        | 15415 | 14.59                                  | 20.0   | 872  | 16.56  | 20.0   | 934  | 18.63  | 25.0   | 993  | 22.21  | 30.0   | 1213 | 23.83  | 30.0   | 1268 |
|        | 18500 | 17.74                                  | 25.0   | 856  | 19.72  | 25.0   | 912  | 24.00  | 30.0   | 1082 | 25.80  | 30.0   | 1133 | 27.68  | 40.0   | 1184 |
| GD-40  | 14800 | 14.70                                  | 20.0   | 967  | 16.30  | 20.0   | 1029 | 17.98  | 25.0   | 1090 | 19.73  | 25.0   | 1150 | 21.55  | 25.0   | 1208 |
|        | 18500 | 17.75                                  | 25.0   | 767  | 22.26  | 30.0   | 1030 | 24.00  | 30.0   | 1082 | 25.80  | 30.0   | 1133 | 27.68  | 40.0   | 1184 |
|        | 22200 | 23.15                                  | 30.0   | 860  | 25.19  | 30.0   | 908  | 27.32  | 40.0   | 956  | 29.54  | 40.0   | 1003 | 31.85  | 40.0   | 1050 |
| GD-50  | 18000 | 17.16                                  | 20.0   | 857  | 19.13  | 25.0   | 914  | 21.32  | 25.0   | 969  | 23.52  | 30.0   | 1023 | 25.81  | 30.0   | 1076 |
|        | 22500 | 21.60                                  | 25.0   | 691  | 25.70  | 30.0   | 909  | 27.84  | 40.0   | 956  | 30.06  | 40.0   | 1003 | 32.38  | 40.0   | 1049 |
|        | 27000 | 27.10                                  | 40.0   | 729  | 29.76  | 40.0   | 775  | 32.55  | 40.0   | 821  | 35.59  | 50.0   | 807  | 39.15  | 50.0   | 849  |
| GD-60  | 21000 | 19.97                                  | 25.0   | 749  | 22.52  | 30.0   | 803  | 25.19  | 30.0   | 855  | 27.96  | 40.0   | 906  | 30.83  | 40.0   | 954  |
|        | 26250 | 26.03                                  | 30.0   | 730  | 28.68  | 40.0   | 777  | 31.46  | 40.0   | 823  | 34.36  | 40.0   | 869  | 37.36  | 50.0   | 914  |
|        | 31500 | 31.01                                  | 40.0   | 668  | 34.26  | 40.0   | 710  | 37.65  | 50.0   | 751  | 41.18  | 50.0   | 791  | 46.41  | 60.0   | 895  |
| GD-70  | 25667 | 24.40                                  | 30.0   | 610  | 27.87  | 40.0   | 778  | 30.64  | 40.0   | 826  | 33.53  | 40.0   | 872  | 36.53  | 50.0   | 917  |
|        | 32000 | 29.85                                  | 40.0   | 592  | 33.53  | 40.0   | 633  | 37.34  | 50.0   | 671  | 41.29  | 50.0   | 709  | 47.43  | 60.0   | 894  |
|        | 38500 | 37.24                                  | 50.0   | 582  | 41.16  | 50.0   | 620  | 49.19  | 60.0   | 747  | 52.88  | 75.0   | 783  | 56.69  | 75.0   | 818  |
| GD-80  | 33250 | 32.61                                  | 40.0   | 552  | 37.46  | 50.0   | 592  | 40.15  | 50.0   | 748  | 43.71  | 60.0   | 787  | 47.41  | 60.0   | 825  |
|        | 41500 | 38.75                                  | 50.0   | 529  | 43.88  | 60.0   | 567  | 49.25  | 60.0   | 604  | 53.87  | 75.0   | 687  | 58.30  | 75.0   | 721  |
|        | 49875 | 47.47                                  | 60.0   | 516  | 52.586 | 75.0   | 551  | 58.065 | 75.0   | 585  | 63.809 | 75.0   | 618  | 69.793 | 100.0  | 650  |

### Legends

FAN HP : fan shaft power  
 MTR HP : Motor HP  
 RPM : fan speed  
 SCFM : unit of standard airflow rate at sea level  
 where air density is 0.075 lb/ft<sup>3</sup>

### Notes

- These fan performance can be used for preliminary selections. There will be a small discrepancy between manual and computer selection. For complete fan performance data including sound power level, obtained a computer selection from nearest HACE office.
- See applicable fan for the shaded and non shaded area.

## FAN SIZES

| Model | SCFM  | Fan Size | TSP   | Fan Size | TSP     | Fan Size | TSP   |
|-------|-------|----------|-------|----------|---------|----------|-------|
| GD2.5 | 900   | FC180R   | 1~2   | FC160R   | 2.5~4.5 | BC180R   | 5~6   |
|       | 1125  | FC180R   | 1~3.5 | FC160R   | 4~5.5   | BC180R   | 6     |
|       | 1350  | FC180R   | 1~5   | FC160R   | 5.5~6   |          |       |
| GD4   | 1400  | FC200R   | 1~2.5 | FC180R   | 3~6     |          |       |
|       | 1750  | FC200R   | 1~4   | FC180R   | 4.5~6   |          |       |
|       | 2100  | FC200R   | 1~5.5 | BC225R   | 6       |          |       |
| GD6   | 2333  | FC250R   | 1~3   | FC200R   | 3.5~5.5 | BC250R   | 6     |
|       | 2915  | FC250R   | 1~4.5 | BC250R   | 5~6     |          |       |
|       | 3500  | FC250R   | 1~4   | FC250K   | 4.5~6   |          |       |
| GD9   | 3333  | FC315K   | 1~2.5 | FC250K   | 3~6     |          |       |
|       | 4105  | FC315K   | 1~3.5 | FC250K   | 4~6     |          |       |
|       | 5000  | FC315K   | 1~6   |          |         |          |       |
| GD12  | 4333  | FC355K   | 1~2.5 | FC280K   | 3~6     |          |       |
|       | 5415  | FC355K   | 1~4   | FC280K   | 4.5~6   |          |       |
|       | 6500  | FC355K   | 1~6   |          |         |          |       |
| GD16  | 5633  | FC400K   | 1~2.5 | FC315K   | 3~6     |          |       |
|       | 7040  | FC400K   | 1~4.5 | FC315K   | 5~6     |          |       |
|       | 8450  | FC400K   | 1~6   |          |         |          |       |
| GD20  | 7367  | FC450K   | 1~3   | FC355K   | 3.5~6   |          |       |
|       | 9205  | FC450K   | 1~4.5 | FC355K   | 5~6     |          |       |
|       | 11050 | FC450K   | 1~5.5 | FC400K1  | 6       |          |       |
| GD24  | 9067  | FC500K   | 1~3   | FC400K   | 3.5~6   |          |       |
|       | 11330 | FC500K   | 1~4.5 | FC400K   | 5~5.5   | FC400K1  | 6     |
|       | 13600 | FC500K   | 1~5   | FC400K1  | 5.5~6   |          |       |
| GD30  | 10667 | FC560K   | 1~2.5 | FC450K   | 3~5.5   | FC400K1  | 6     |
|       | 13330 | FC560K   | 1~4   | FC450K   | 4.5     | FC450K1  | 5~6   |
|       | 16000 | FC560K   | 1~5   | FC450K1  | 5.5~6   |          |       |
| GD35  | 12333 | FC560K   | 1~3   | FC450K   | 3.5~5   | FC450K1  | 5.5~6 |
|       | 15415 | FC560K   | 1~5   | FC450K1  | 5.5~6   |          |       |
|       | 18500 | FC560K   | 1~4.5 | FC500K1  | 5~6     |          |       |
| GD40  | 14800 | FC630K   | 1~3   | FC500K1  | 3.5~6   |          |       |
|       | 18500 | FC630K   | 1~4   | FC500K1  | 4.5~6   |          |       |
|       | 22200 | FC630K   | 1~3.5 | FC560K1  | 3.5~6   |          |       |
| GD50  | 18000 | FC710K   | 1~3   | FC560K   | 3.5~4.5 | FC560K1  | 5~6   |
|       | 22500 | FC710K   | 1~4   | FC560K1  | 4.5~6   |          |       |
|       | 27000 | FC710K   | 1~3.5 | FC630K1  | 4~5     | FC710K1  | 5.5~6 |
| GD60  | 21000 | FC800K   | 1~3   | FC630K1  | 3.5~6   |          |       |
|       | 26250 | FC800K   | 1~3.5 | FC630K1  | 4~5     | FC630K2  | 5.5~6 |
|       | 31500 | FC800K   | 1~3   | FC710K1  | 3.5~5.5 | FC630K2  | 6     |
| GD70  | 25667 | FC800K1  | 1~4   | FC630K1  | 4.5~5.5 | FC630K2  | 6     |
|       | 32000 | FC800K1  | 1~5.5 | FC630K2  | 6       |          |       |
|       | 38500 | FC800K1  | 1~4.5 | FC710K2  | 5~6     |          |       |
| GD80  | 33250 | FC900K1  | 1~4.5 | FC710K2  | 5~6     |          |       |
|       | 41500 | FC900K1  | 1~5   | FC800K2  | 5.5~6   |          |       |
|       | 49875 | FC900K1  | 1~4   | FC900K2  | 4.5~6   |          |       |

**Note:** These fans can be used for preliminary selections. There will be probably be a small discrepancy between manual and computer selection.

#### Legends

- SCFM : standard airflow
- TSP : total static pressure, inch of water
- FC : forward curved fans
- BC : backward curved fans

## ELECTRIC HEATER BATTERY

| Model  | Power/Step (kW) | Recommended max. no. of steps | Max. total power (kW) |
|--------|-----------------|-------------------------------|-----------------------|
| GD-2.5 | 6.7             | 3                             | 20                    |
| GD-4   | 10              | 4                             | 40                    |
| GD-6   | 10              | 5                             | 50                    |
| GD-9   | 10              | 6                             | 60                    |
| GD-12  | 14.3            | 7                             | 80                    |
| GD-16  | 12.5            | 8                             | 100                   |
| GD-20  | 15              | 10                            | 150                   |
| GD-24  | 14.6            | 12                            | 172                   |
| GD-30  | 16.7            | 12                            | 200                   |
| GD-35  | 17.3            | 13                            | 225                   |
| GD-40  | 17.9            | 14                            | 250                   |
| GD-50  | 20              | 15                            | 300                   |
| GD-60  | 21.9            | 16                            | 350                   |
| GD-70  | 25              | 16                            | 400                   |
| GD-80  | 25              | 18                            | 450                   |

Example:

Unit model GD-12

Heater Capacity = 70 kW

From the above table, the power/step is 14.3 kW

Total number of steps      = Total power ÷ Power per step  
                                          =  $70 \div 14.3$   
                                          = 4.895 or 5 steps

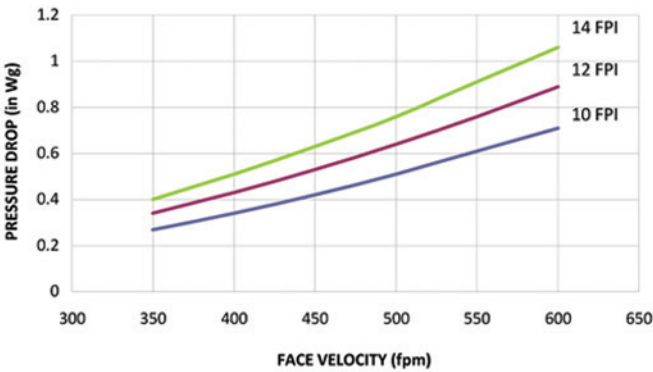
The new power per step    =  $70 \div 5$   
                                          = 14 kW



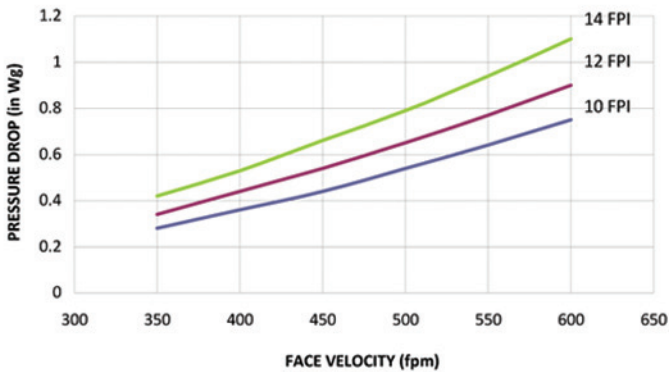
COIL PRESSURE DROP

1/2" & 5/8" tubes

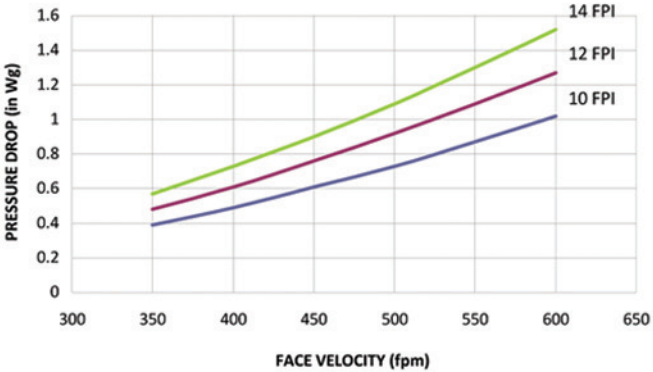
4 ROWS, 5/8 TUBE



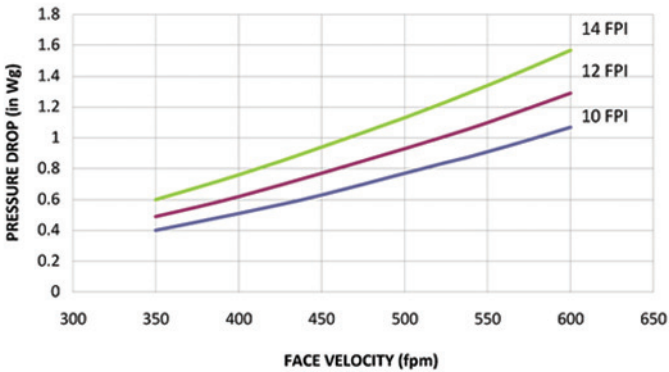
4 ROWS, 1/2 TUBE



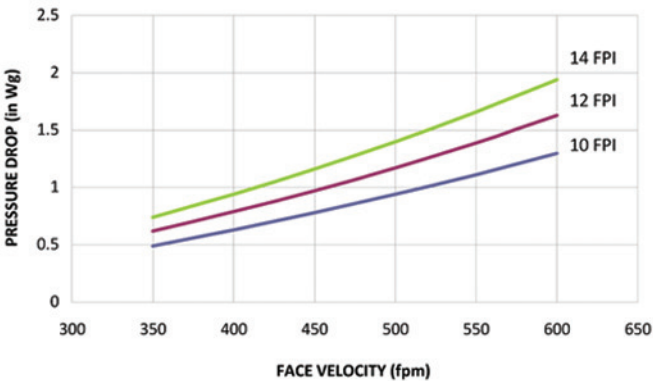
6 ROWS, 5/8 TUBE



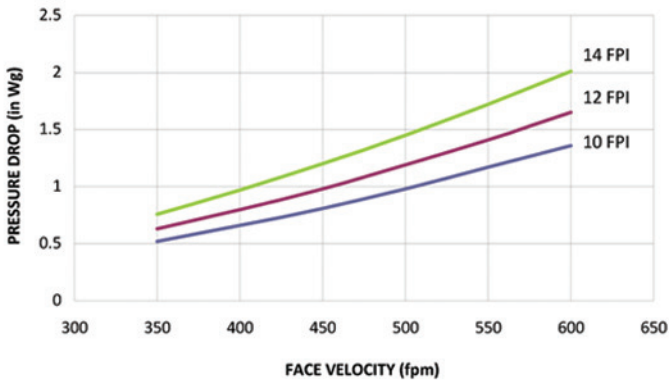
6 ROWS, 1/2 TUBE



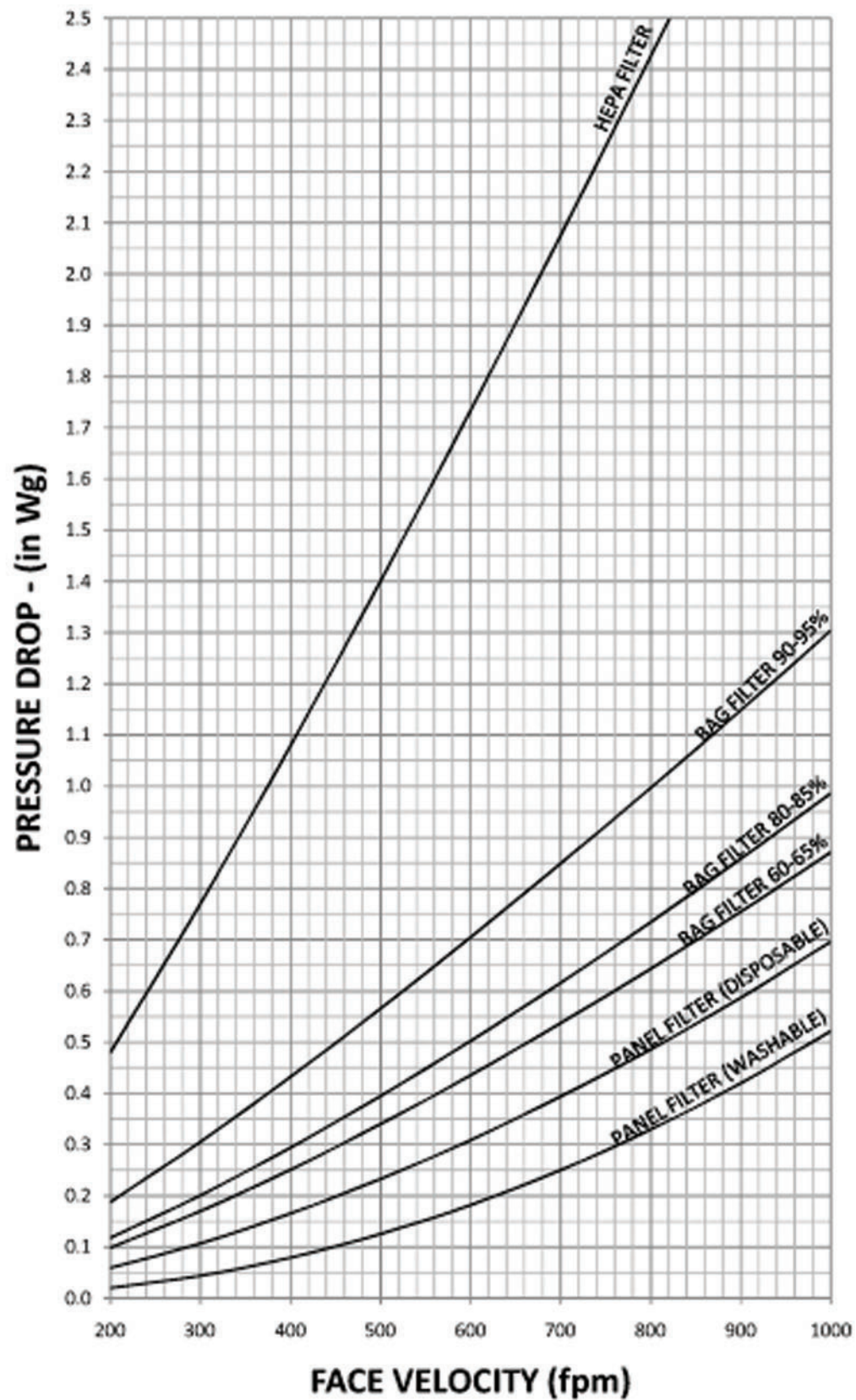
8 ROWS, 5/8 TUBE



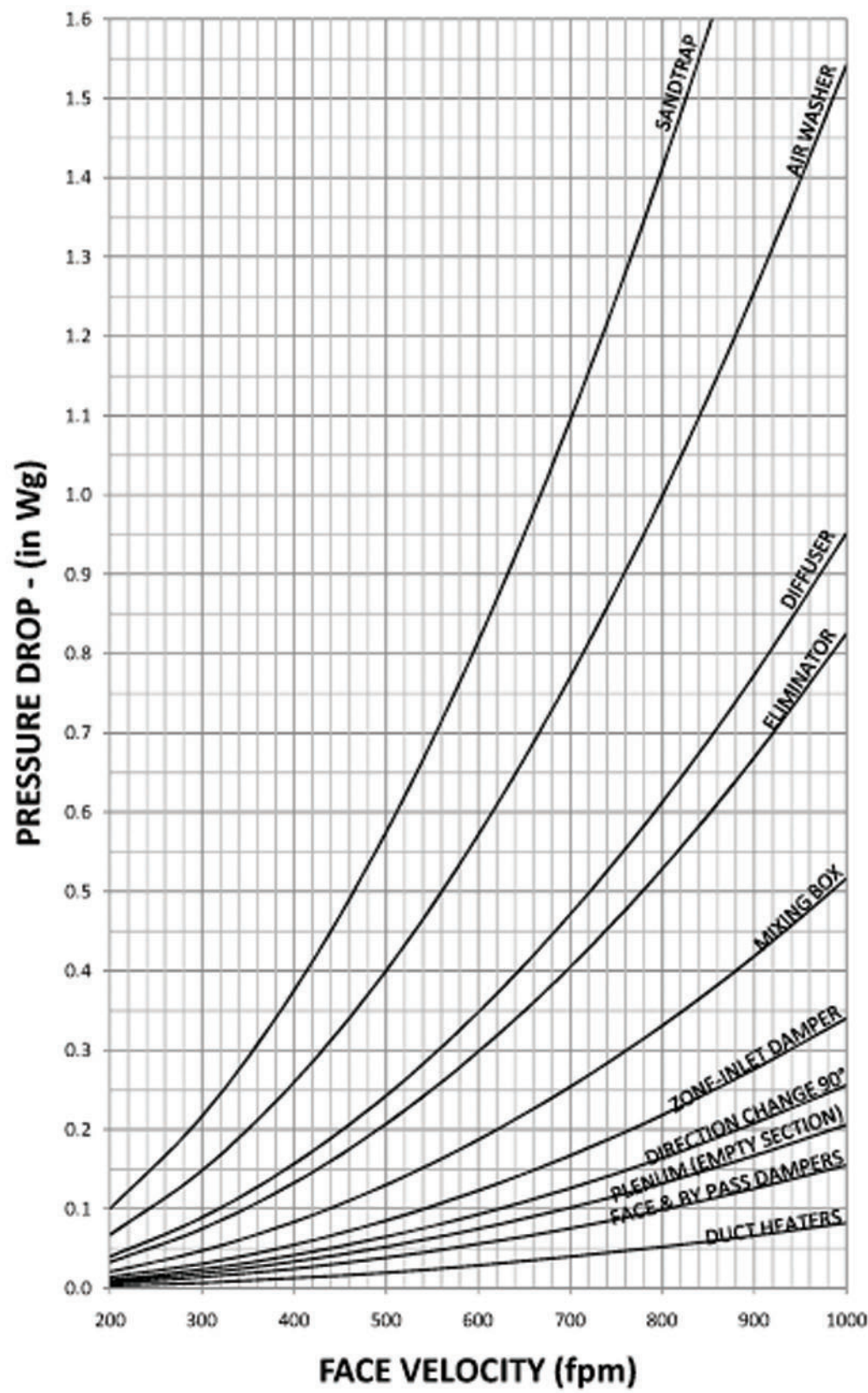
8 ROWS, 1/2 TUBE



INTERNAL COMPONENTS PRESSURE DROP  
(FILTER)



INTERNAL COMPONENTS PRESSURE DROP





## ELECTRICAL DATA

| VOLTAGE | POWER |      | FLA<br>[A] | LRA<br>[A] | MCA<br>[A] | MOCP<br>[A] |
|---------|-------|------|------------|------------|------------|-------------|
|         | kW    | HP   |            |            |            |             |
| 230     | 0.56  | 0.75 | 3.00       | 18.7       | 3.75       | 15          |
| 380     |       |      | 2.02       | 11.4       | 2.53       | 15          |
| 460     |       |      | 1.50       | 9.4        | 1.88       | 15          |
| 230     | 0.75  | 1    | 3.30       | 25.0       | 4.13       | 15          |
| 380     |       |      | 2.22       | 15.2       | 2.78       | 15          |
| 460     |       |      | 1.65       | 12.5       | 2.06       | 15          |
| 230     | 1.12  | 1.5  | 4.40       | 37.5       | 5.50       | 15          |
| 380     |       |      | 2.97       | 22.8       | 3.71       | 15          |
| 460     |       |      | 2.20       | 18.7       | 2.75       | 15          |
| 230     | 1.49  | 2    | 5.80       | 50.0       | 7.25       | 15          |
| 380     |       |      | 3.91       | 30.4       | 4.89       | 15          |
| 460     |       |      | 2.90       | 25.0       | 3.63       | 15          |
| 230     | 2.24  | 3    | 8.20       | 74.9       | 10.25      | 15          |
| 380     |       |      | 5.53       | 45.6       | 6.91       | 15          |
| 460     |       |      | 4.10       | 37.5       | 5.13       | 15          |
| 230     | 3.73  | 5    | 14.20      | 99.9       | 17.75      | 30          |
| 380     |       |      | 9.57       | 60.7       | 11.96      | 20          |
| 460     |       |      | 7.10       | 49.9       | 8.88       | 15          |
| 230     | 5.60  | 7.5  | 20.20      | 132.9      | 25.25      | 45          |
| 380     |       |      | 13.61      | 80.8       | 17.02      | 30          |
| 460     |       |      | 10.10      | 66.5       | 12.63      | 20          |
| 230     | 7.46  | 10   | 27.00      | 177.3      | 33.75      | 60          |
| 380     |       |      | 18.20      | 107.8      | 22.74      | 40          |
| 460     |       |      | 13.50      | 88.6       | 16.88      | 30          |
| 230     | 11.19 | 15   | 37.00      | 235.9      | 46.25      | 80          |
| 380     |       |      | 24.93      | 143.4      | 31.17      | 50          |
| 460     |       |      | 18.50      | 117.9      | 23.13      | 40          |
| 230     | 14.92 | 20   | 48.00      | 314.5      | 60.00      | 100         |
| 380     |       |      | 32.35      | 191.2      | 40.43      | 70          |
| 460     |       |      | 24.00      | 157.3      | 30.00      | 50          |
| 230     | 18.65 | 25   | 58.00      | 393.1      | 72.50      | 125         |
| 380     |       |      | 39.09      | 239.0      | 48.86      | 80          |
| 460     |       |      | 29.00      | 196.6      | 36.25      | 60          |
| 230     | 22.38 | 30   | 72.00      | 471.8      | 90.00      | 160         |
| 380     |       |      | 48.52      | 286.8      | 60.65      | 100         |
| 460     |       |      | 36.00      | 235.9      | 45.00      | 80          |
| 230     | 29.84 | 40   | 94.00      | 629.0      | 117.50     | 200         |
| 380     |       |      | 63.35      | 382.4      | 79.18      | 125         |
| 460     |       |      | 47.00      | 314.5      | 58.75      | 100         |
| 230     | 37.30 | 50   | 120.00     | 786.3      | 150.00     | 250         |
| 380     |       |      | 80.87      | 478.0      | 101.09     | 175         |
| 460     |       |      | 60.00      | 393.1      | 75.00      | 125         |
| 230     | 44.76 | 60   | 142.00     | 943.5      | 177.50     | 315         |
| 380     |       |      | 95.70      | 573.6      | 119.62     | 200         |
| 460     |       |      | 71.00      | 471.8      | 88.75      | 150         |
| 230     | 55.95 | 75   | 172.00     | 1179.4     | 215.00     | 350         |
| 380     |       |      | 115.91     | 717.1      | 144.89     | 250         |
| 460     |       |      | 86.00      | 589.7      | 107.50     | 175         |
| 230     | 74.60 | 100  | 226.00     | 1572.5     | 282.50     | 500         |
| 380     |       |      | 152.30     | 956.1      | 190.38     | 315         |
| 460     |       |      | 113.00     | 786.3      | 141.25     | 250         |

## Legends

MCA: Minimum Circuit Ampacity

MOCP: Maximum Over Current Protection

FLA: Full Load Amper

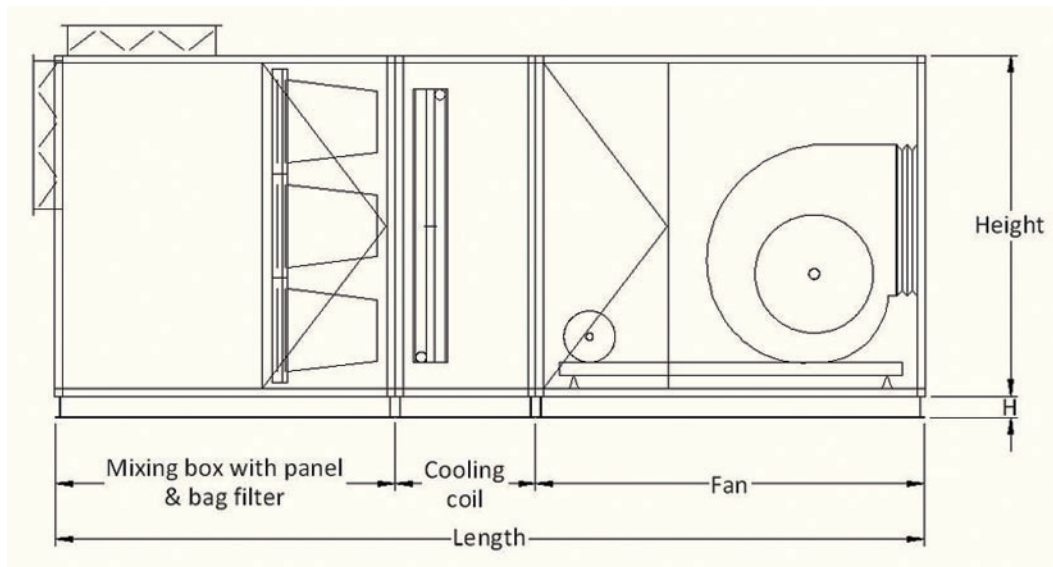
LRA: Locked Rotor Ampere

## Notes

1. MCA is based on 125% of the maximum operating ampere of the largest motor plus 100% of the maximum operating ampere of the rest of the load.

2. MOCP is based on 225% of the maximum operating ampere of the largest motor plus 100% of the maximum operating ampere of the rest of the load.

## STANDARD AHU ARRANGEMENT



## 25mm INSULATION

| Model  | Width | Height | Length |
|--------|-------|--------|--------|
| GD-2.5 | 700   | 700    | 2775   |
| GD-4   | 1000  | 700    | 2775   |
| GD-6   | 1000  | 980    | 3181   |
| GD-9   | 1300  | 980    | 3181   |
| GD-12  | 1300  | 1300   | 3591   |
| GD-16  | 1600  | 1300   | 3677   |
| GD-20  | 1600  | 1615   | 4127   |
| GD-24  | 1900  | 1615   | 4165   |
| GD-30  | 1900  | 1935   | 4274   |
| GD-35  | 2200  | 1935   | 4274   |
| GD-40  | 2200  | 2245   | 4780   |
| GD-50  | 2650  | 2245   | 5080   |
| GD-60  | 2650  | 2560   | 5214   |
| GD-70  | 3200  | 2560   | 5527   |
| GD-80  | 3750  | 2650   | 5747   |

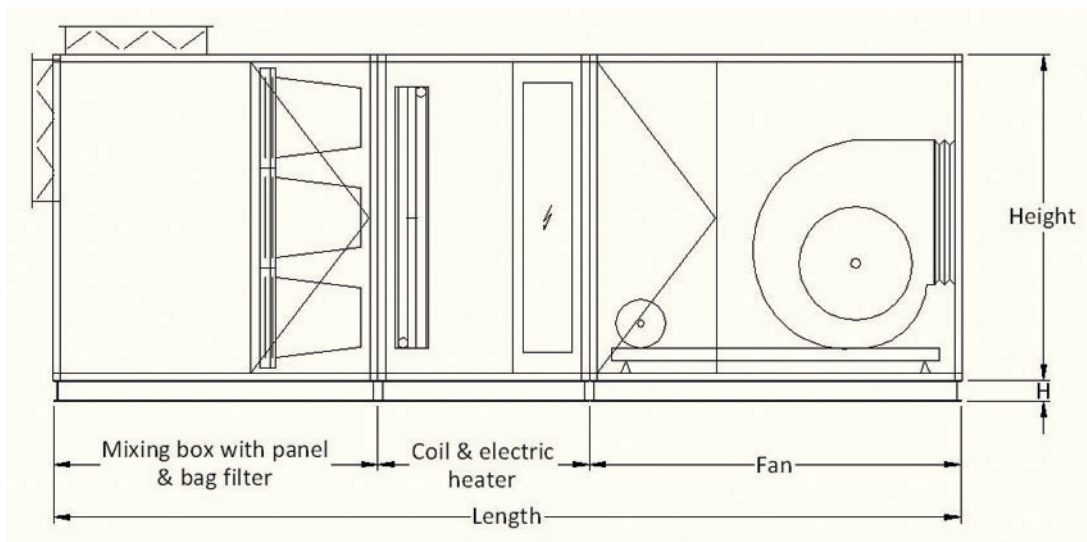
## 50mm INSULATION

| Model  | A    | B    | C    |
|--------|------|------|------|
| GD-2.5 | 738  | 738  | 2889 |
| GD-4   | 1038 | 738  | 2889 |
| GD-6   | 1038 | 1018 | 3295 |
| GD-9   | 1338 | 1018 | 3295 |
| GD-12  | 1338 | 1338 | 3705 |
| GD-16  | 1638 | 1338 | 3791 |
| GD-20  | 1638 | 1653 | 4241 |
| GD-24  | 1938 | 1653 | 4241 |
| GD-30  | 1938 | 1973 | 4474 |
| GD-35  | 2238 | 1973 | 4721 |
| GD-40  | 2238 | 2283 | 5194 |
| GD-50  | 2688 | 2283 | 5194 |
| GD-60  | 2688 | 2598 | 5328 |
| GD-70  | 3238 | 2598 | 5641 |
| GD-80  | 3788 | 2688 | 5861 |

Note  
All dimensions in mm.

## STANDARD AHU ARRANGEMENT

### STANDARD AHU ARRANGEMENT



### 25mm INSULATION

| Model  | Width | Height | Length |
|--------|-------|--------|--------|
| GD-2.5 | 700   | 700    | 2775   |
| GD-4   | 1000  | 700    | 2775   |
| GD-6   | 1000  | 980    | 3181   |
| GD-9   | 1300  | 980    | 3181   |
| GD-12  | 1300  | 1300   | 3591   |
| GD-16  | 1600  | 1300   | 3677   |
| GD-20  | 1600  | 1615   | 4127   |
| GD-24  | 1900  | 1615   | 4165   |
| GD-30  | 1900  | 1935   | 4274   |
| GD-35  | 2200  | 1935   | 4274   |
| GD-40  | 2200  | 2245   | 4780   |
| GD-50  | 2650  | 2245   | 5080   |
| GD-60  | 2650  | 2560   | 5214   |
| GD-70  | 3200  | 2560   | 5527   |
| GD-80  | 3750  | 2650   | 5747   |

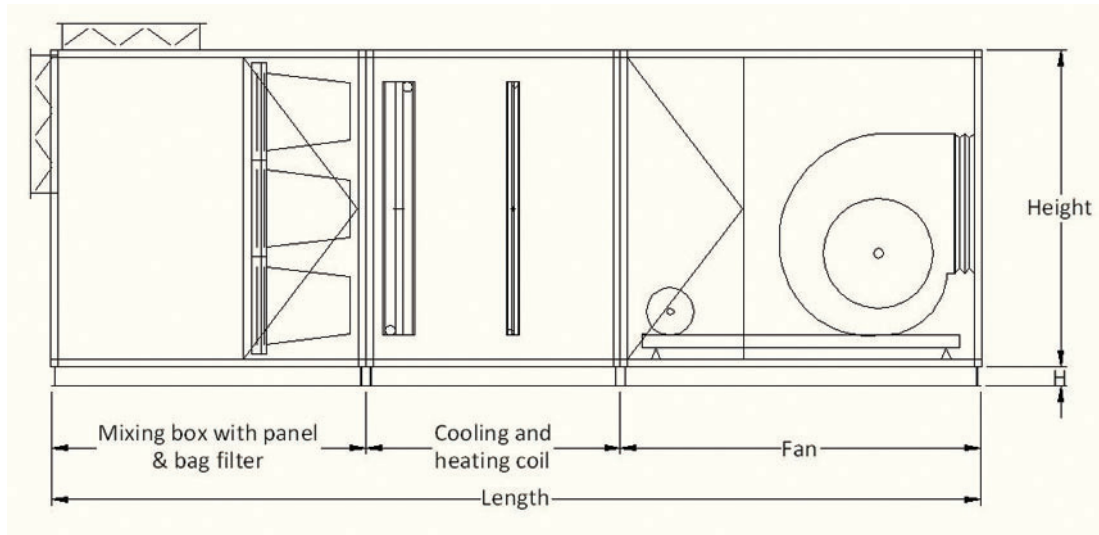
### 50mm INSULATION

| Model  | Width | Height | Length |
|--------|-------|--------|--------|
| GD-2.5 | 700   | 700    | 2775   |
| GD-4   | 1000  | 700    | 2775   |
| GD-6   | 1000  | 980    | 3181   |
| GD-9   | 1300  | 980    | 3181   |
| GD-12  | 1300  | 1300   | 3591   |
| GD-16  | 1600  | 1300   | 3677   |
| GD-20  | 1600  | 1615   | 4127   |
| GD-24  | 1900  | 1615   | 4165   |
| GD-30  | 1900  | 1935   | 4274   |
| GD-35  | 2200  | 1935   | 4274   |
| GD-40  | 2200  | 2245   | 4780   |
| GD-50  | 2650  | 2245   | 5080   |
| GD-60  | 2650  | 2560   | 5214   |
| GD-70  | 3200  | 2560   | 5527   |
| GD-80  | 3750  | 2650   | 5747   |

Note  
All dimensions in mm.



## STANDARD AHU ARRANGEMENT



## 25mm INSULATION

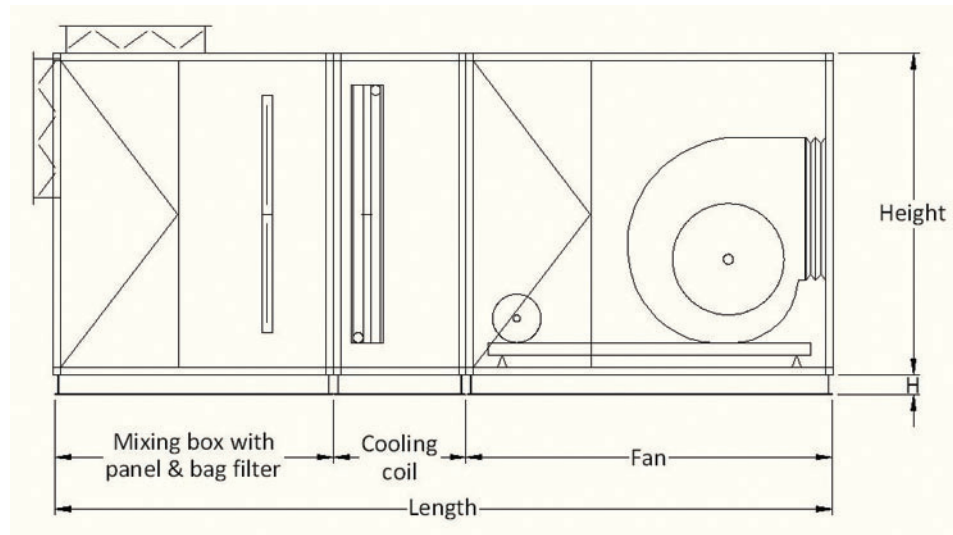
| Model  | Width | Height | Length |
|--------|-------|--------|--------|
| GD-2.5 | 700   | 700    | 2775   |
| GD-4   | 1000  | 700    | 2775   |
| GD-6   | 1000  | 980    | 3181   |
| GD-9   | 1300  | 980    | 3181   |
| GD-12  | 1300  | 1300   | 3591   |
| GD-16  | 1600  | 1300   | 3677   |
| GD-20  | 1600  | 1615   | 4127   |
| GD-24  | 1900  | 1615   | 4165   |
| GD-30  | 1900  | 1935   | 4274   |
| GD-35  | 2200  | 1935   | 4274   |
| GD-40  | 2200  | 2245   | 4780   |
| GD-50  | 2650  | 2245   | 5080   |
| GD-60  | 2650  | 2560   | 5214   |
| GD-70  | 3200  | 2560   | 5527   |
| GD-80  | 3750  | 2650   | 5747   |

## 50mm INSULATION

| Model  | A    | B    | C    |
|--------|------|------|------|
| GD-2.5 | 738  | 738  | 2889 |
| GD-4   | 1038 | 738  | 2889 |
| GD-6   | 1038 | 1018 | 3295 |
| GD-9   | 1338 | 1018 | 3295 |
| GD-12  | 1338 | 1338 | 3705 |
| GD-16  | 1638 | 1338 | 3791 |
| GD-20  | 1638 | 1653 | 4241 |
| GD-24  | 1938 | 1653 | 4241 |
| GD-30  | 1938 | 1973 | 4474 |
| GD-35  | 2238 | 1973 | 4721 |
| GD-40  | 2238 | 2283 | 5194 |
| GD-50  | 2688 | 2283 | 5194 |
| GD-60  | 2688 | 2598 | 5328 |
| GD-70  | 3238 | 2598 | 5641 |
| GD-80  | 3788 | 2688 | 5861 |

Note  
All dimensions in mm.

## STANDARD AHU ARRANGEMENT



25mm insulation

| Model  | Width | Height | Length |
|--------|-------|--------|--------|
| GD-2.5 | 700   | 700    | 2441   |
| GD-4   | 1000  | 700    | 2441   |
| GD-6   | 1000  | 980    | 2847   |
| GD-9   | 1300  | 980    | 2847   |
| GD-12  | 1300  | 1300   | 3257   |
| GD-16  | 1600  | 1300   | 3343   |
| GD-20  | 1600  | 1615   | 3793   |
| GD-24  | 1900  | 1615   | 3831   |
| GD-30  | 1900  | 1935   | 3940   |
| GD-35  | 2200  | 1935   | 3940   |
| GD-40  | 2200  | 2245   | 4446   |
| GD-50  | 2650  | 2245   | 4746   |
| GD-60  | 2650  | 2560   | 4880   |
| GD-70  | 3200  | 2560   | 5193   |
| GD-80  | 3750  | 2650   | 5413   |

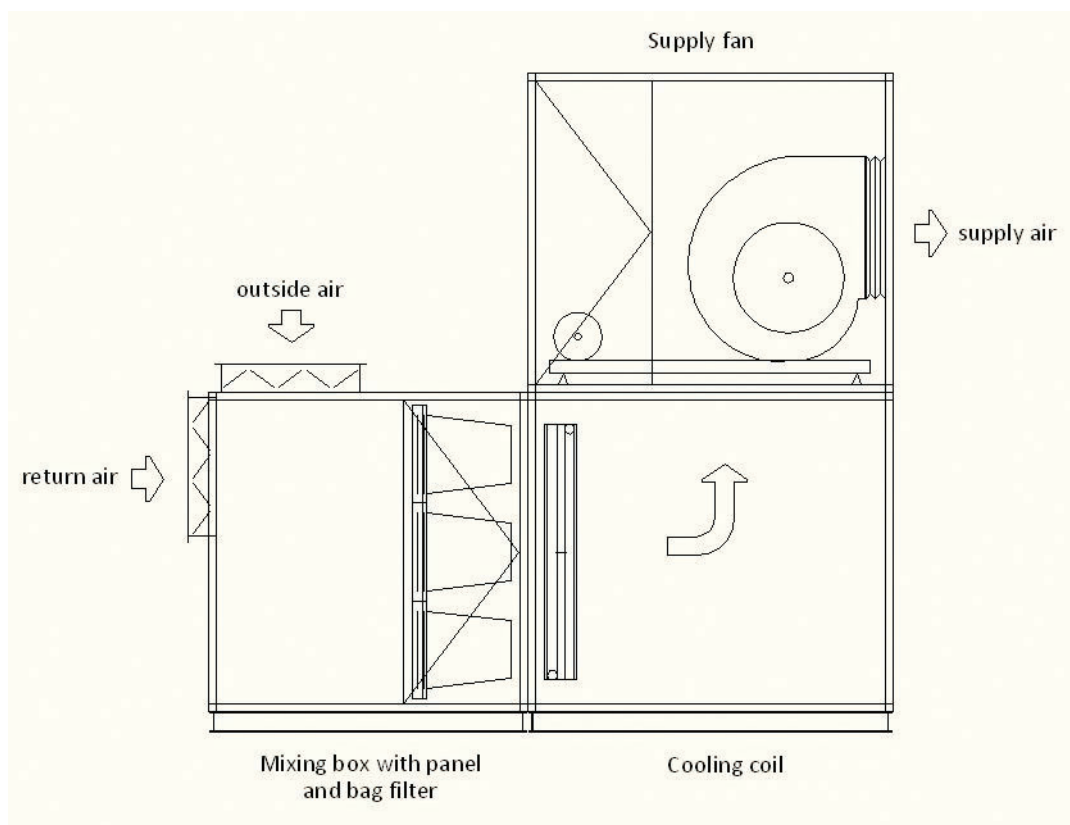
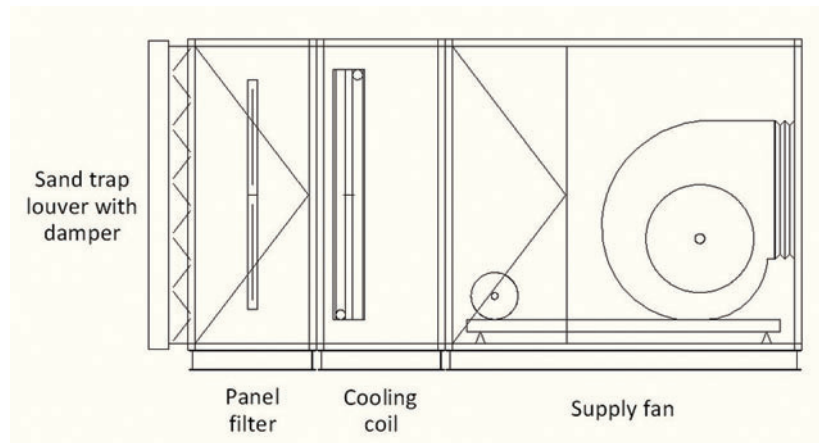
50mm insulation

| Model  | A    | B    | C    |
|--------|------|------|------|
| GD-2.5 | 738  | 738  | 2569 |
| GD-4   | 1038 | 738  | 2569 |
| GD-6   | 1038 | 1018 | 2975 |
| GD-9   | 1338 | 1018 | 2975 |
| GD-12  | 1338 | 1338 | 3385 |
| GD-16  | 1638 | 1338 | 3471 |
| GD-20  | 1638 | 1653 | 3921 |
| GD-24  | 1938 | 1653 | 3921 |
| GD-30  | 1938 | 1973 | 4154 |
| GD-35  | 2238 | 1973 | 4401 |
| GD-40  | 2238 | 2283 | 4874 |
| GD-50  | 2688 | 2283 | 4874 |
| GD-60  | 2688 | 2598 | 5008 |
| GD-70  | 3238 | 2598 | 5321 |
| GD-80  | 3788 | 2688 | 5541 |

Notes

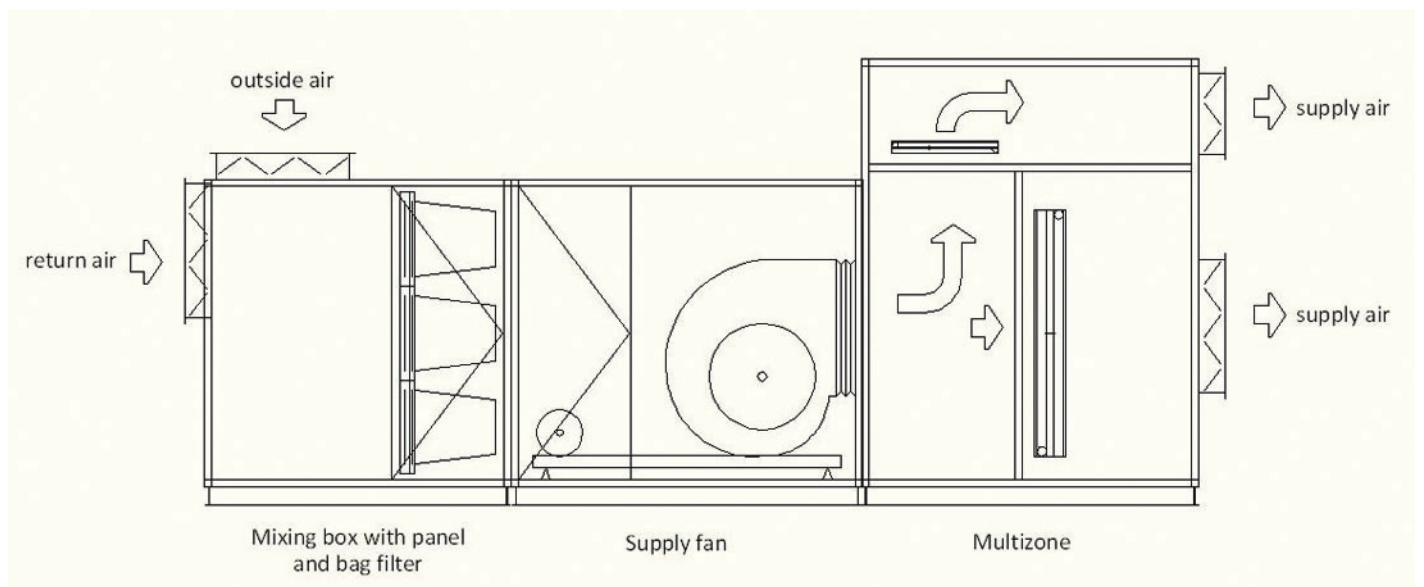
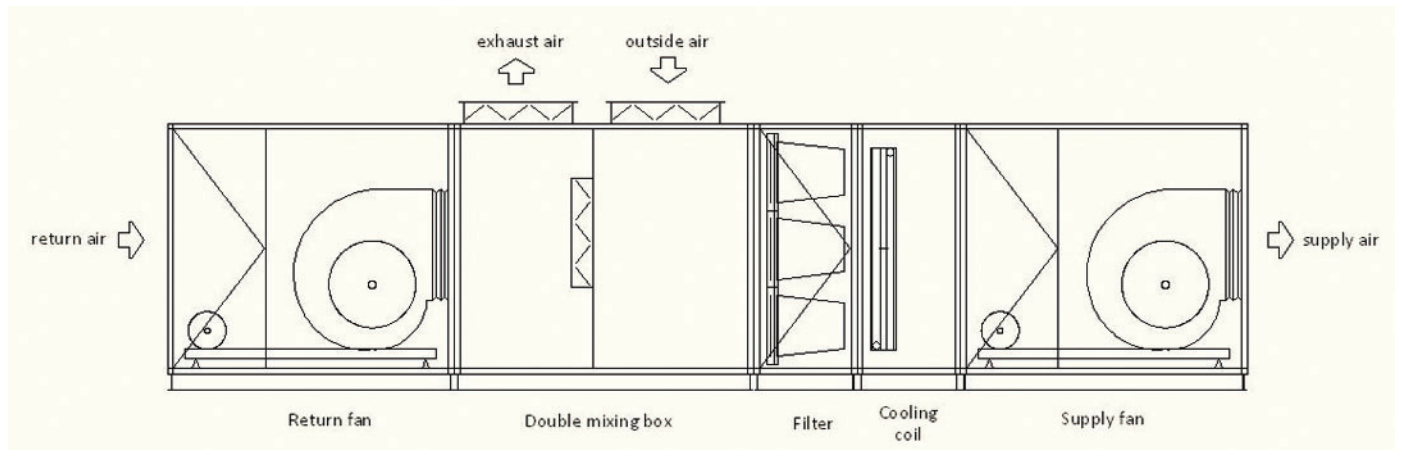
1. All dimensions in mm.
2. Filters are front load.

## AHU ARRANGEMENTS

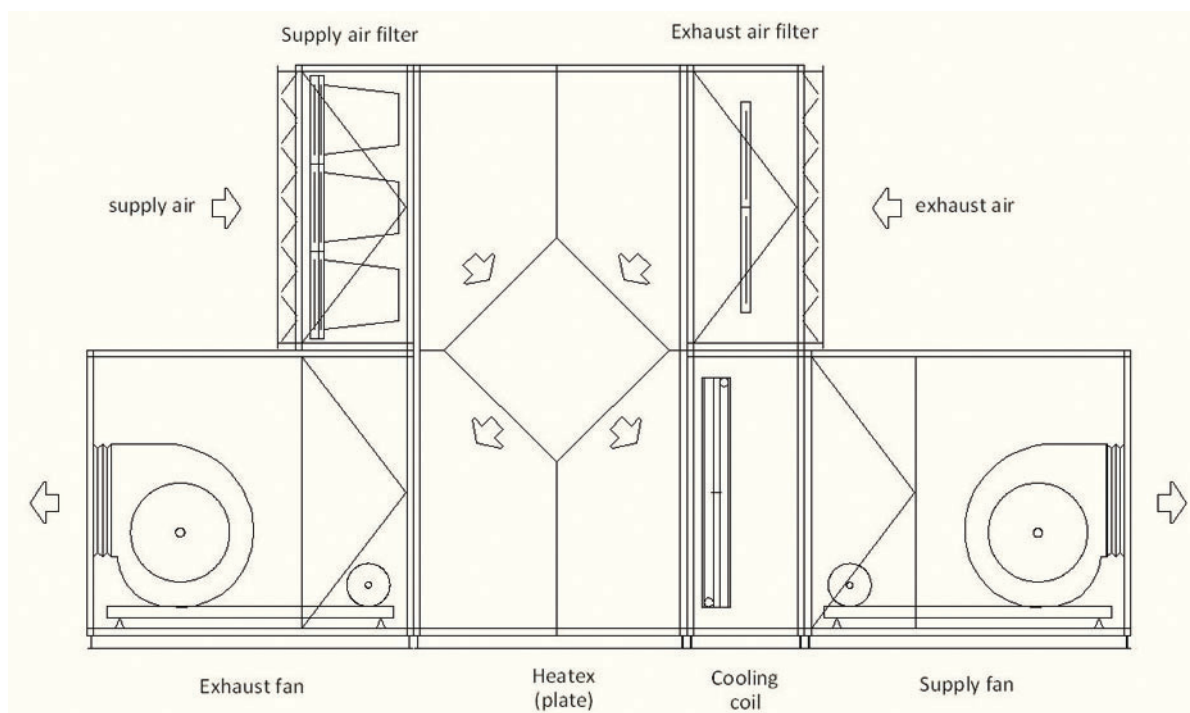
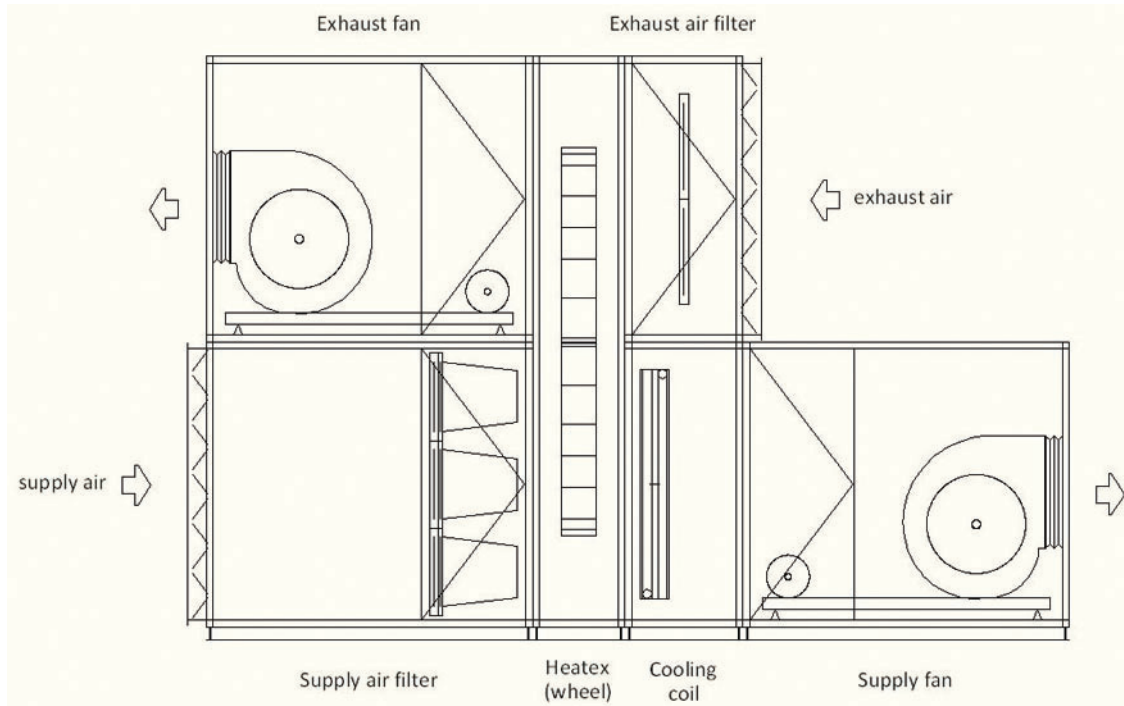




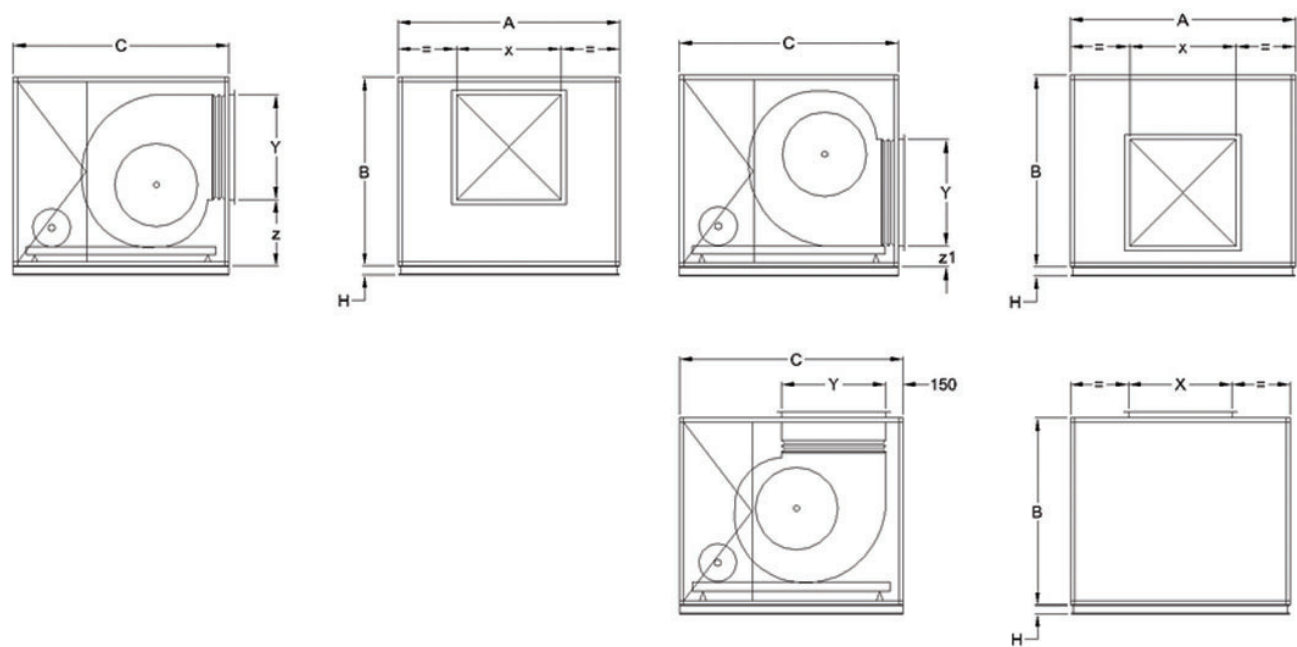
## AHU ARRANGEMENTS



## AHU ARRANGEMENTS



DIMENSIONAL DATA  
FAN SECTION



25mm insulation

| Model  | A    | B    | C    | H   | Wt., kg |
|--------|------|------|------|-----|---------|
| GD-2.5 | 700  | 700  | 980  | 75  | 79      |
| GD-4   | 1000 | 700  | 980  | 75  | 96      |
| GD-6   | 1000 | 980  | 1300 | 75  | 134     |
| GD-9   | 1300 | 980  | 1300 | 75  | 158     |
| GD-12  | 1300 | 1300 | 1547 | 75  | 208     |
| GD-16  | 1600 | 1300 | 1547 | 100 | 258     |
| GD-20  | 1600 | 1615 | 1847 | 100 | 318     |
| GD-24  | 1900 | 1615 | 1885 | 100 | 356     |
| GD-30  | 1900 | 1935 | 1847 | 100 | 380     |
| GD-35  | 2200 | 1935 | 1847 | 100 | 413     |
| GD-40  | 2200 | 2245 | 2180 | 100 | 507     |
| GD-50  | 2650 | 2245 | 2480 | 100 | 616     |
| GD-60  | 2650 | 2560 | 2480 | 150 | 704     |
| GD-70  | 3200 | 2560 | 2480 | 150 | 787     |
| GD-80  | 3750 | 2650 | 2700 | 150 | 949     |

Notes

1. All dimensions in mm.
2. Please see fan details for dimensions x, y, z, & z1.
3. Section weights do not include components.

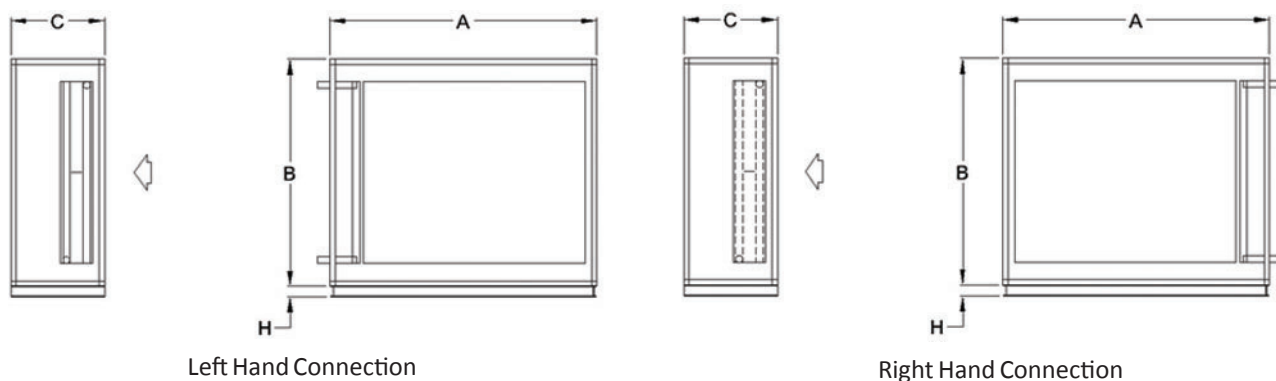
50mm insulation

| Model  | A    | B    | C    | H   | Wt., kg |
|--------|------|------|------|-----|---------|
| GD-2.5 | 738  | 738  | 1018 | 75  | 93      |
| GD-4   | 1038 | 738  | 1018 | 75  | 112     |
| GD-6   | 1038 | 1018 | 1338 | 75  | 155     |
| GD-9   | 1338 | 1018 | 1338 | 75  | 181     |
| GD-12  | 1338 | 1338 | 1585 | 75  | 240     |
| GD-16  | 1638 | 1338 | 1585 | 100 | 293     |
| GD-20  | 1638 | 1653 | 1885 | 100 | 360     |
| GD-24  | 1938 | 1653 | 1885 | 100 | 400     |
| GD-30  | 1938 | 1973 | 1971 | 100 | 428     |
| GD-35  | 2238 | 1973 | 2218 | 100 | 464     |
| GD-40  | 2238 | 2283 | 2518 | 100 | 572     |
| GD-50  | 2688 | 2283 | 2518 | 100 | 690     |
| GD-60  | 2688 | 2598 | 2518 | 150 | 783     |
| GD-70  | 3238 | 2598 | 2518 | 150 | 873     |
| GD-80  | 3788 | 2688 | 2738 | 150 | 1056    |



## DIMENSIONAL DATA

### COIL SECTION



25mm insulation

| Model  | A    | B    | C   | H   | Wt., kg |
|--------|------|------|-----|-----|---------|
| GD-2.5 | 700  | 700  | 581 | 75  | 46      |
| GD-4   | 1000 | 700  | 581 | 75  | 56      |
| GD-6   | 1000 | 980  | 581 | 75  | 62      |
| GD-9   | 1300 | 980  | 581 | 75  | 75      |
| GD-12  | 1300 | 1300 | 581 | 75  | 82      |
| GD-16  | 1600 | 1300 | 667 | 100 | 118     |
| GD-20  | 1600 | 1615 | 667 | 100 | 126     |
| GD-24  | 1900 | 1615 | 667 | 100 | 139     |
| GD-30  | 1900 | 1935 | 667 | 100 | 148     |
| GD-35  | 2200 | 1935 | 667 | 100 | 161     |
| GD-40  | 2200 | 2245 | 667 | 100 | 169     |
| GD-50  | 2650 | 2245 | 667 | 100 | 189     |
| GD-60  | 2650 | 2560 | 667 | 150 | 228     |
| GD-70  | 3200 | 2560 | 980 | 150 | 338     |
| GD-80  | 3750 | 2650 | 980 | 150 | 378     |

50mm insulation

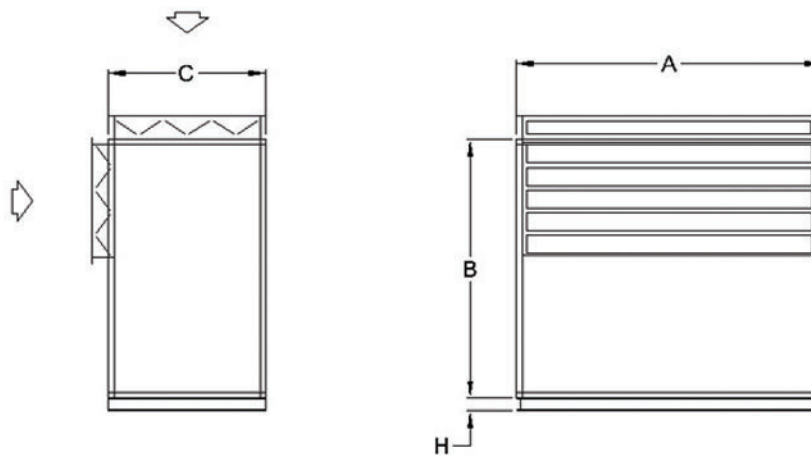
| Model  | A    | B    | C    | H   | Wt., kg |
|--------|------|------|------|-----|---------|
| GD-2.5 | 738  | 738  | 619  | 75  | 55      |
| GD-4   | 1038 | 738  | 619  | 75  | 67      |
| GD-6   | 1038 | 1018 | 619  | 75  | 74      |
| GD-9   | 1338 | 1018 | 619  | 75  | 88      |
| GD-12  | 1338 | 1338 | 619  | 75  | 97      |
| GD-16  | 1638 | 1338 | 705  | 100 | 136     |
| GD-20  | 1638 | 1653 | 705  | 100 | 145     |
| GD-24  | 1938 | 1653 | 705  | 100 | 160     |
| GD-30  | 1938 | 1973 | 705  | 100 | 170     |
| GD-35  | 2238 | 1973 | 705  | 100 | 185     |
| GD-40  | 2238 | 2283 | 705  | 100 | 194     |
| GD-50  | 2688 | 2283 | 705  | 100 | 217     |
| GD-60  | 2688 | 2598 | 705  | 150 | 258     |
| GD-70  | 3238 | 2598 | 1018 | 150 | 383     |
| GD-80  | 3788 | 2688 | 1018 | 150 | 427     |

#### Notes

1. All dimensions in mm.
2. Coil connection handing reference is facing intake side of coil.
3. Section weights do not include components.

## DIMENSIONAL DATA

Mixing Section (Single)



25mm insulation

| Model  | A    | B    | C    | H   | Damper (1 & 2) |        | Wt., kg |
|--------|------|------|------|-----|----------------|--------|---------|
|        |      |      |      |     | Width          | Height |         |
| GD-2.5 | 700  | 700  | 581  | 75  | 626            | 290    | 46      |
| GD-4   | 1000 | 700  | 581  | 75  | 926            | 290    | 56      |
| GD-6   | 1000 | 980  | 667  | 75  | 926            | 470    | 69      |
| GD-9   | 1300 | 980  | 667  | 75  | 1226           | 470    | 82      |
| GD-12  | 1300 | 1300 | 830  | 75  | 1226           | 593    | 90      |
| GD-16  | 1600 | 1300 | 830  | 100 | 1526           | 593    | 143     |
| GD-20  | 1600 | 1615 | 980  | 100 | 1526           | 702    | 172     |
| GD-24  | 1900 | 1615 | 980  | 100 | 1826           | 702    | 189     |
| GD-30  | 1900 | 1935 | 1127 | 100 | 1826           | 895    | 221     |
| GD-35  | 2200 | 1935 | 1127 | 100 | 2126           | 895    | 240     |
| GD-40  | 2200 | 2245 | 1300 | 100 | 2126           | 905    | 280     |
| GD-50  | 2650 | 2245 | 1300 | 100 | 2576           | 905    | 310     |
| GD-60  | 2650 | 2560 | 1434 | 150 | 2576           | 1220   | 401     |
| GD-70  | 3200 | 2560 | 1434 | 150 | 3126           | 1220   | 447     |
| GD-80  | 3750 | 2650 | 1434 | 150 | 3676           | 1310   | 497     |

50mm insulation

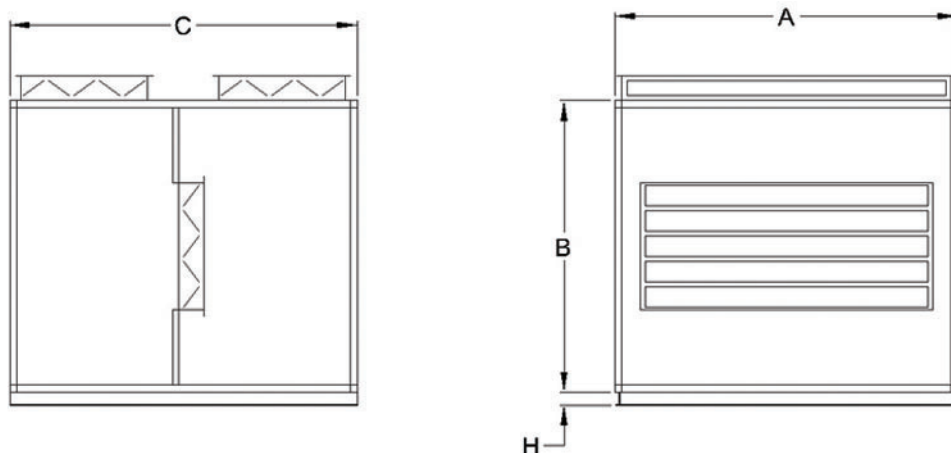
| Model  | A    | B    | C    | H   | Damper (1 & 2) |        | Wt., kg |
|--------|------|------|------|-----|----------------|--------|---------|
|        |      |      |      |     | Width          | Height |         |
| GD-2.5 | 738  | 738  | 619  | 75  | 626            | 290    | 55      |
| GD-4   | 1038 | 738  | 619  | 75  | 926            | 290    | 67      |
| GD-6   | 1038 | 1018 | 705  | 75  | 926            | 470    | 81      |
| GD-9   | 1338 | 1018 | 705  | 75  | 1226           | 470    | 96      |
| GD-12  | 1338 | 1338 | 868  | 75  | 1226           | 593    | 106     |
| GD-16  | 1638 | 1338 | 868  | 100 | 1526           | 593    | 167     |
| GD-20  | 1638 | 1653 | 1018 | 100 | 1526           | 702    | 199     |
| GD-24  | 1938 | 1653 | 1018 | 100 | 1826           | 702    | 218     |
| GD-30  | 1938 | 1973 | 1165 | 100 | 1826           | 895    | 254     |
| GD-35  | 2238 | 1973 | 1165 | 100 | 2126           | 895    | 275     |
| GD-40  | 2238 | 2283 | 1338 | 100 | 2126           | 905    | 319     |
| GD-50  | 2688 | 2283 | 1338 | 100 | 2576           | 905    | 353     |
| GD-60  | 2688 | 2598 | 1472 | 150 | 2576           | 1220   | 456     |
| GD-70  | 3238 | 2598 | 1472 | 150 | 3126           | 1220   | 507     |
| GD-80  | 3788 | 2688 | 1472 | 150 | 3676           | 1310   | 563     |

Notes

1. All dimensions in mm.
2. Section weights do not include components.

## DIMENSIONAL DATA

Mixing Section (Double, Horizontal)



25mm insulation

| Model  | A    | B    | C    | H   | Damper (1 & 2) |        | Damper (3) |        | Wt., kg |
|--------|------|------|------|-----|----------------|--------|------------|--------|---------|
|        |      |      |      |     | Width          | Height | Width      | Height |         |
| GD-2.5 | 700  | 700  | 1128 | 75  | 626            | 290    | 326        | 557    | 81      |
| GD-4   | 1000 | 700  | 1128 | 75  | 926            | 290    | 626        | 429    | 97      |
| GD-6   | 1000 | 980  | 1300 | 75  | 926            | 470    | 626        | 695    | 121     |
| GD-9   | 1300 | 980  | 1300 | 75  | 1226           | 470    | 926        | 622    | 141     |
| GD-12  | 1300 | 1300 | 1568 | 75  | 1226           | 593    | 926        | 785    | 188     |
| GD-16  | 1600 | 1300 | 1568 | 100 | 1526           | 593    | 1226       | 738    | 233     |
| GD-20  | 1600 | 1615 | 1933 | 100 | 1526           | 702    | 1226       | 874    | 295     |
| GD-24  | 1900 | 1615 | 1933 | 100 | 1826           | 702    | 1526       | 840    | 321     |
| GD-30  | 1900 | 1935 | 2067 | 100 | 1826           | 895    | 1526       | 1071   | 372     |
| GD-35  | 2200 | 1935 | 2067 | 100 | 2126           | 895    | 1826       | 1042   | 400     |
| GD-40  | 2200 | 2245 | 2566 | 100 | 2126           | 905    | 1826       | 1054   | 502     |
| GD-50  | 2650 | 2245 | 2566 | 100 | 2576           | 905    | 2276       | 1024   | 552     |
| GD-60  | 2650 | 2560 | 2834 | 150 | 2576           | 1220   | 2276       | 1381   | 694     |
| GD-70  | 3200 | 2560 | 2834 | 150 | 3126           | 1220   | 2826       | 1350   | 766     |
| GD-80  | 3750 | 2650 | 2834 | 150 | 3676           | 1310   | 3376       | 1426   | 846     |

50mm insulation

| Model  | A    | B    | C    | H   | Damper (1 & 2) |        | Damper (3) |        | Wt., kg |
|--------|------|------|------|-----|----------------|--------|------------|--------|---------|
|        |      |      |      |     | Width          | Height | Width      | Height |         |
| GD-2.5 | 738  | 738  | 1166 | 75  | 626            | 290    | 326        | 557    | 96      |
| GD-4   | 1038 | 738  | 1166 | 75  | 926            | 290    | 626        | 429    | 114     |
| GD-6   | 1038 | 1018 | 1338 | 75  | 926            | 470    | 626        | 695    | 141     |
| GD-9   | 1338 | 1018 | 1338 | 75  | 1226           | 470    | 926        | 622    | 164     |
| GD-12  | 1338 | 1338 | 1606 | 75  | 1226           | 593    | 926        | 785    | 219     |
| GD-16  | 1638 | 1338 | 1606 | 100 | 1526           | 593    | 1226       | 738    | 267     |
| GD-20  | 1638 | 1653 | 1971 | 100 | 1526           | 702    | 1226       | 874    | 336     |
| GD-24  | 1938 | 1653 | 1971 | 100 | 1826           | 702    | 1526       | 840    | 366     |
| GD-30  | 1938 | 1973 | 2105 | 100 | 1826           | 895    | 1526       | 1071   | 426     |
| GD-35  | 2238 | 1973 | 2105 | 100 | 2126           | 895    | 1826       | 1042   | 458     |
| GD-40  | 2238 | 2283 | 2604 | 100 | 2126           | 905    | 1826       | 1054   | 570     |
| GD-50  | 2688 | 2283 | 2604 | 100 | 2576           | 905    | 2276       | 1024   | 625     |
| GD-60  | 2688 | 2598 | 2872 | 150 | 2576           | 1220   | 2276       | 1381   | 783     |
| GD-70  | 3238 | 2598 | 2872 | 150 | 3126           | 1220   | 2826       | 1350   | 863     |
| GD-80  | 3788 | 2688 | 2872 | 150 | 3676           | 1310   | 3376       | 1426   | 953     |

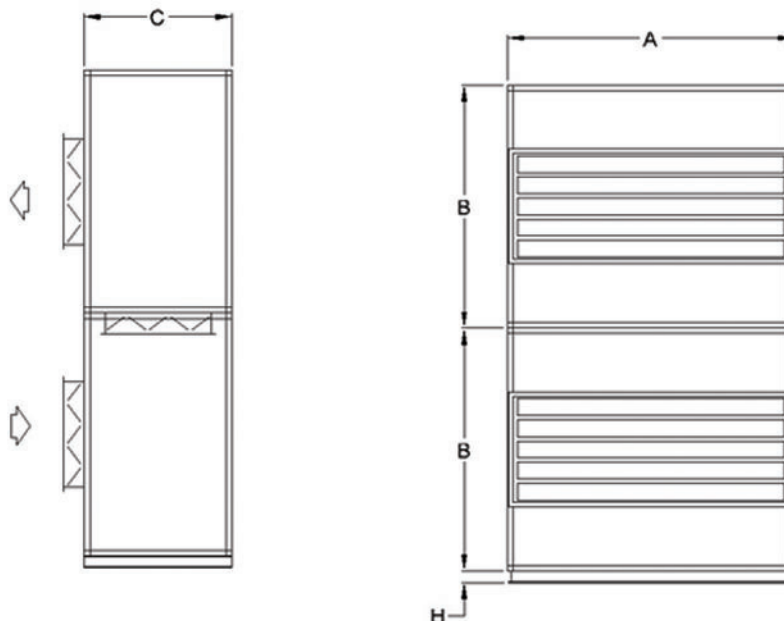
Notes

1. All dimensions in mm.
2. Section weights do not include components.



## DIMENSIONAL DATA

Mixing Section (Double, Vertical)



25mm insulation

| Model  | A    | B    | C    | H   | Damper (1 & 2) |        | Damper (3) |        | Wt., kg |
|--------|------|------|------|-----|----------------|--------|------------|--------|---------|
|        |      |      |      |     | Width          | Height | Width      | Height |         |
| GD-2.5 | 700  | 700  | 581  | 75  | 626            | 290    | 326        | 557    | 80      |
| GD-4   | 1000 | 700  | 581  | 75  | 926            | 290    | 626        | 429    | 97      |
| GD-6   | 1000 | 980  | 667  | 75  | 926            | 470    | 626        | 695    | 121     |
| GD-9   | 1300 | 980  | 667  | 75  | 1226           | 470    | 926        | 622    | 143     |
| GD-12  | 1300 | 1300 | 830  | 75  | 1226           | 593    | 926        | 785    | 205     |
| GD-16  | 1600 | 1300 | 830  | 100 | 1526           | 593    | 1226       | 738    | 247     |
| GD-20  | 1600 | 1615 | 980  | 100 | 1526           | 702    | 1226       | 874    | 302     |
| GD-24  | 1900 | 1615 | 980  | 100 | 1826           | 702    | 1526       | 840    | 330     |
| GD-30  | 1900 | 1935 | 1127 | 100 | 1826           | 895    | 1526       | 1071   | 393     |
| GD-35  | 2200 | 1935 | 1127 | 100 | 2126           | 895    | 1826       | 1042   | 424     |
| GD-40  | 2200 | 2245 | 1300 | 100 | 2126           | 905    | 1826       | 1054   | 502     |
| GD-50  | 2650 | 2245 | 1300 | 100 | 2576           | 905    | 2276       | 1024   | 553     |
| GD-60  | 2650 | 2560 | 1434 | 150 | 2576           | 1220   | 2276       | 1381   | 702     |
| GD-70  | 3200 | 2560 | 1434 | 150 | 3126           | 1220   | 2826       | 1350   | 778     |
| GD-80  | 3750 | 2650 | 1434 | 150 | 3676           | 1310   | 3376       | 1426   | 864     |

50mm insulation

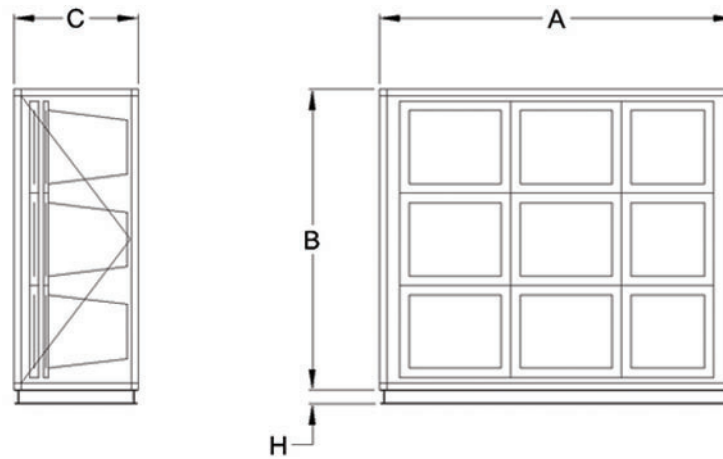
| Model  | A    | B    | C    | H   | Damper (1 & 2) |        | Damper (3) |        | Wt., kg |
|--------|------|------|------|-----|----------------|--------|------------|--------|---------|
|        |      |      |      |     | Width          | Height | Width      | Height |         |
| GD-2.5 | 738  | 738  | 619  | 75  | 626            | 290    | 326        | 557    | 99      |
| GD-4   | 1038 | 738  | 619  | 75  | 926            | 290    | 626        | 429    | 119     |
| GD-6   | 1038 | 1018 | 705  | 75  | 926            | 470    | 626        | 695    | 147     |
| GD-9   | 1338 | 1018 | 705  | 75  | 1226           | 470    | 926        | 622    | 174     |
| GD-12  | 1338 | 1338 | 868  | 75  | 1226           | 593    | 926        | 785    | 251     |
| GD-16  | 1638 | 1338 | 868  | 100 | 1526           | 593    | 1226       | 738    | 298     |
| GD-20  | 1638 | 1653 | 1018 | 100 | 1526           | 702    | 1226       | 874    | 361     |
| GD-24  | 1938 | 1653 | 1018 | 100 | 1826           | 702    | 1526       | 840    | 394     |
| GD-30  | 1938 | 1973 | 1165 | 100 | 1826           | 895    | 1526       | 1071   | 465     |
| GD-35  | 2238 | 1973 | 1165 | 100 | 2126           | 895    | 1826       | 1042   | 501     |
| GD-40  | 2238 | 2283 | 1338 | 100 | 2126           | 905    | 1826       | 1054   | 588     |
| GD-50  | 2688 | 2283 | 1338 | 100 | 2576           | 905    | 2276       | 1024   | 647     |
| GD-60  | 2688 | 2598 | 1472 | 150 | 2576           | 1220   | 2276       | 1381   | 823     |
| GD-70  | 3238 | 2598 | 1472 | 150 | 3126           | 1220   | 2826       | 1350   | 910     |
| GD-80  | 3788 | 2688 | 1472 | 150 | 3676           | 1310   | 3376       | 1426   | 1009    |

Notes

1. All dimensions in mm.
2. Section weights do not include components.

## DIMENSIONAL DATA

### Combined Filter Section



#### 25mm insulation

| Model  | A    | B    | C   | H   | Wt., kg |
|--------|------|------|-----|-----|---------|
| GD-2.5 | 700  | 700  | 667 | 75  | 51      |
| GD-4   | 1000 | 700  | 667 | 75  | 62      |
| GD-6   | 1000 | 980  | 667 | 75  | 69      |
| GD-9   | 1300 | 980  | 667 | 75  | 82      |
| GD-12  | 1300 | 1300 | 667 | 75  | 90      |
| GD-16  | 1600 | 1300 | 667 | 100 | 118     |
| GD-20  | 1600 | 1615 | 667 | 100 | 126     |
| GD-24  | 1900 | 1615 | 667 | 100 | 139     |
| GD-30  | 1900 | 1935 | 667 | 100 | 148     |
| GD-35  | 2200 | 1935 | 667 | 100 | 161     |
| GD-40  | 2200 | 2245 | 667 | 100 | 169     |
| GD-50  | 2650 | 2245 | 667 | 100 | 189     |
| GD-60  | 2650 | 2560 | 667 | 150 | 228     |
| GD-70  | 3200 | 2560 | 667 | 150 | 258     |
| GD-80  | 3750 | 2650 | 667 | 150 | 291     |

#### 50mm insulation

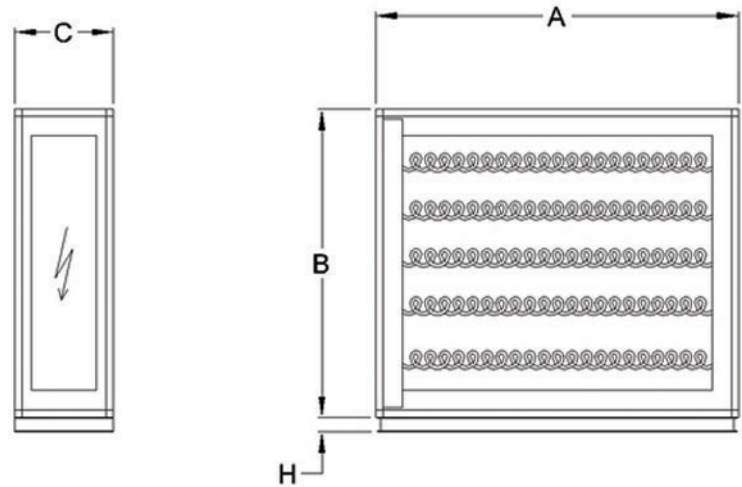
| Model  | A    | B    | C   | H   | Wt., kg |
|--------|------|------|-----|-----|---------|
| GD-2.5 | 738  | 738  | 705 | 75  | 61      |
| GD-4   | 1038 | 738  | 705 | 75  | 73      |
| GD-6   | 1038 | 1018 | 705 | 75  | 81      |
| GD-9   | 1338 | 1018 | 705 | 75  | 96      |
| GD-12  | 1338 | 1338 | 705 | 75  | 106     |
| GD-16  | 1638 | 1338 | 705 | 100 | 136     |
| GD-20  | 1638 | 1653 | 705 | 100 | 145     |
| GD-24  | 1938 | 1653 | 705 | 100 | 160     |
| GD-30  | 1938 | 1973 | 705 | 100 | 170     |
| GD-35  | 2238 | 1973 | 705 | 100 | 185     |
| GD-40  | 2238 | 2283 | 705 | 100 | 194     |
| GD-50  | 2688 | 2283 | 705 | 100 | 217     |
| GD-60  | 2688 | 2598 | 705 | 150 | 258     |
| GD-70  | 3238 | 2598 | 705 | 150 | 291     |
| GD-80  | 3788 | 2688 | 705 | 150 | 326     |

#### Notes

1. All dimensions in mm.
2. Combined filter includes 2 inches thick panel filter and 18 inches bag filter.
3. Section weights do not included components.

DIMENSIONAL DATA

Heater Section



25mm insulation

| Model  | A    | B    | C   | H   | Wt., kg |
|--------|------|------|-----|-----|---------|
| GD-2.5 | 700  | 700  | 414 | 75  | 36      |
| GD-4   | 1000 | 700  | 414 | 75  | 45      |
| GD-6   | 1000 | 980  | 414 | 75  | 50      |
| GD-9   | 1300 | 980  | 414 | 75  | 60      |
| GD-12  | 1300 | 1300 | 414 | 75  | 66      |
| GD-16  | 1600 | 1300 | 414 | 100 | 90      |
| GD-20  | 1600 | 1615 | 414 | 100 | 96      |
| GD-24  | 1900 | 1615 | 414 | 100 | 107     |
| GD-30  | 1900 | 1935 | 414 | 100 | 112     |
| GD-35  | 2200 | 1935 | 414 | 100 | 124     |
| GD-40  | 2200 | 2245 | 414 | 100 | 129     |
| GD-50  | 2650 | 2245 | 414 | 100 | 146     |
| GD-60  | 2650 | 2560 | 414 | 150 | 180     |
| GD-70  | 3200 | 2560 | 414 | 150 | 206     |
| GD-80  | 3750 | 2650 | 414 | 150 | 234     |

50mm insulation

| Model  | A    | B    | C   | H   | Wt., kg |
|--------|------|------|-----|-----|---------|
| GD-2.5 | 738  | 738  | 452 | 75  | 44      |
| GD-4   | 1038 | 738  | 452 | 75  | 54      |
| GD-6   | 1038 | 1018 | 452 | 75  | 60      |
| GD-9   | 1338 | 1018 | 452 | 75  | 72      |
| GD-12  | 1338 | 1338 | 452 | 75  | 80      |
| GD-16  | 1638 | 1338 | 452 | 100 | 105     |
| GD-20  | 1638 | 1653 | 452 | 100 | 112     |
| GD-24  | 1938 | 1653 | 452 | 100 | 125     |
| GD-30  | 1938 | 1973 | 452 | 100 | 132     |
| GD-35  | 2238 | 1973 | 452 | 100 | 144     |
| GD-40  | 2238 | 2283 | 452 | 100 | 151     |
| GD-50  | 2688 | 2283 | 452 | 100 | 170     |
| GD-60  | 2688 | 2598 | 452 | 150 | 206     |
| GD-70  | 3238 | 2598 | 452 | 150 | 235     |
| GD-80  | 3788 | 2688 | 452 | 150 | 265     |

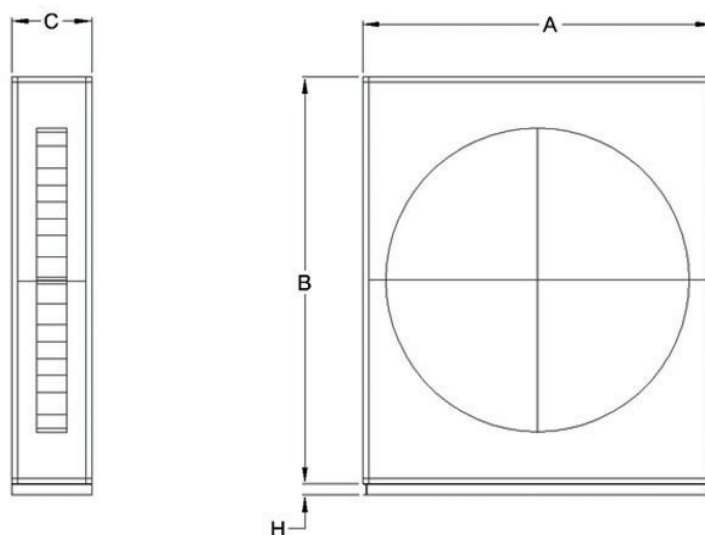
Notes

1. All dimensions in mm.
2. Section weights do not include components.



## DIMENSIONAL DATA

Rotary Wheel Heat Exchanger



25mm insulation

| Model  | A    | B    | C   | H   | Wt., kg |
|--------|------|------|-----|-----|---------|
| GD-2.5 | 700  | 1400 | 667 | 75  | 67      |
| GD-4   | 1000 | 1400 | 667 | 75  | 78      |
| GD-6   | 1000 | 1960 | 667 | 75  | 96      |
| GD-9   | 1300 | 1960 | 667 | 75  | 107     |
| GD-12  | 1300 | 2600 | 667 | 75  | 123     |
| GD-16  | 1600 | 2600 | 667 | 100 | 151     |
| GD-20  | 1600 | 3230 | 667 | 100 | 167     |
| GD-24  | 1900 | 3230 | 667 | 100 | 180     |
| GD-30  | 1900 | 3870 | 667 | 100 | 197     |
| GD-35  | 2200 | 3870 | 667 | 100 | 210     |
| GD-40  | 2200 | 4490 | 667 | 100 | 226     |
| GD-50  | 2650 | 4490 | 667 | 100 | 246     |
| GD-60  | 2650 | 5120 | 667 | 150 | 293     |
| GD-70  | 3200 | 5120 | 667 | 150 | 323     |
| GD-80  | 3750 | 5300 | 667 | 150 | 358     |

50mm insulation

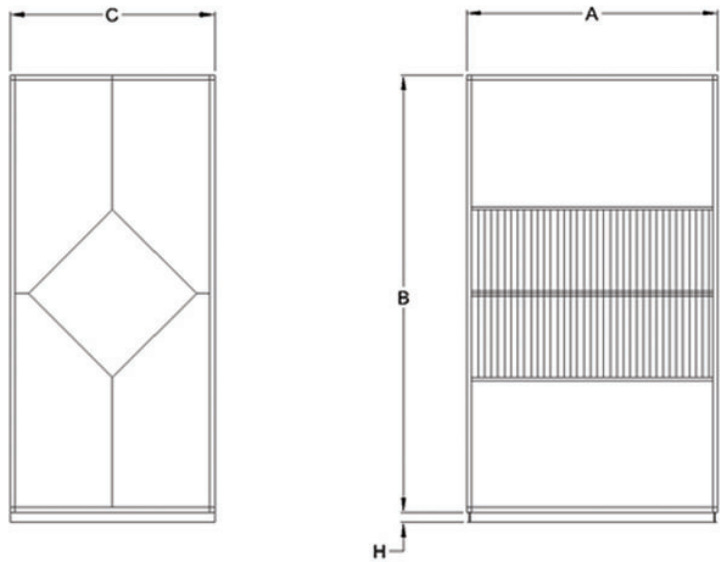
| Model  | A    | B    | C   | H   | Wt., kg |
|--------|------|------|-----|-----|---------|
| GD-2.5 | 700  | 1400 | 667 | 75  | 67      |
| GD-4   | 1000 | 1400 | 667 | 75  | 78      |
| GD-6   | 1000 | 1960 | 667 | 75  | 96      |
| GD-9   | 1300 | 1960 | 667 | 75  | 107     |
| GD-12  | 1300 | 2600 | 667 | 75  | 123     |
| GD-16  | 1600 | 2600 | 667 | 100 | 151     |
| GD-20  | 1600 | 3230 | 667 | 100 | 167     |
| GD-24  | 1900 | 3230 | 667 | 100 | 180     |
| GD-30  | 1900 | 3870 | 667 | 100 | 197     |
| GD-35  | 2200 | 3870 | 667 | 100 | 210     |
| GD-40  | 2200 | 4490 | 667 | 100 | 226     |
| GD-50  | 2650 | 4490 | 667 | 100 | 246     |
| GD-60  | 2650 | 5120 | 667 | 150 | 293     |
| GD-70  | 3200 | 5120 | 667 | 150 | 323     |
| GD-80  | 3750 | 5300 | 667 | 150 | 358     |

Notes

1. All dimensions in mm.
2. Section weights do not include components.

DIMENSIONAL DATA

Plate Heat Exchanger



25mm insulation

| Model  | A    | B    | C    | H   | Wt., kg |
|--------|------|------|------|-----|---------|
| GD-2.5 | 700  | 1400 | 980  | 75  | 97      |
| GD-4   | 1000 | 1400 | 980  | 75  | 112     |
| GD-6   | 1000 | 1960 | 980  | 75  | 136     |
| GD-9   | 1300 | 1960 | 1300 | 75  | 187     |
| GD-12  | 1300 | 2600 | 1300 | 75  | 217     |
| GD-16  | 1600 | 2600 | 1300 | 100 | 257     |
| GD-20  | 1600 | 3230 | 1547 | 100 | 341     |
| GD-24  | 1900 | 3230 | 1547 | 100 | 364     |
| GD-30  | 1900 | 3870 | 1847 | 100 | 459     |
| GD-35  | 2200 | 3870 | 1847 | 100 | 485     |
| GD-40  | 2200 | 4490 | 2180 | 100 | 618     |
| GD-50  | 2650 | 4490 | 2180 | 100 | 662     |
| GD-60  | 2650 | 5120 | 2480 | 150 | 838     |
| GD-70  | 3200 | 5120 | 2480 | 150 | 902     |
| GD-80  | 3750 | 5300 | 2480 | 150 | 982     |

50mm insulation

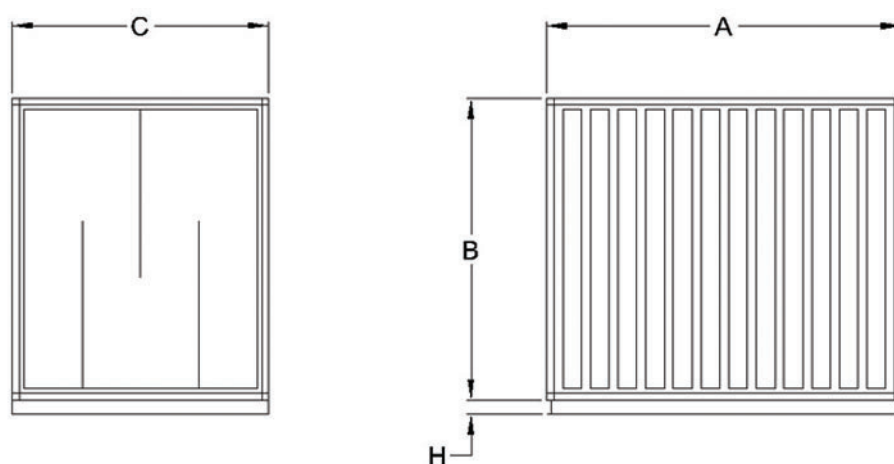
| Model  | A    | B    | C    | H   | Wt., kg |
|--------|------|------|------|-----|---------|
| GD-2.5 | 700  | 1400 | 980  | 75  | 97      |
| GD-4   | 1000 | 1400 | 980  | 75  | 112     |
| GD-6   | 1000 | 1960 | 980  | 75  | 136     |
| GD-9   | 1300 | 1960 | 1300 | 75  | 187     |
| GD-12  | 1300 | 2600 | 1300 | 75  | 217     |
| GD-16  | 1600 | 2600 | 1300 | 100 | 257     |
| GD-20  | 1600 | 3230 | 1547 | 100 | 341     |
| GD-24  | 1900 | 3230 | 1547 | 100 | 364     |
| GD-30  | 1900 | 3870 | 1847 | 100 | 459     |
| GD-35  | 2200 | 3870 | 1847 | 100 | 485     |
| GD-40  | 2200 | 4490 | 2180 | 100 | 618     |
| GD-50  | 2650 | 4490 | 2180 | 100 | 662     |
| GD-60  | 2650 | 5120 | 2480 | 150 | 838     |
| GD-70  | 3200 | 5120 | 2480 | 150 | 902     |
| GD-80  | 3750 | 5300 | 2480 | 150 | 982     |

Notes

1. All dimensions in mm.
2. Section weights do not include components.

## DIMENSIONAL DATA

Sound Attenuator



25mm insulation

| Model  | A    | B    | C1   | Wt., kg | C2   | Wt., kg | C3   | Wt., kg | H   |
|--------|------|------|------|---------|------|---------|------|---------|-----|
| GD-2.5 | 700  | 700  | 1374 | 99      | 1674 | 116     | 2049 | 142     | 75  |
| GD-4   | 1000 | 700  | 1374 | 118     | 1674 | 138     | 2049 | 168     | 75  |
| GD-6   | 1000 | 980  | 1374 | 132     | 1674 | 155     | 2049 | 188     | 75  |
| GD-9   | 1300 | 980  | 1374 | 153     | 1674 | 178     | 2049 | 216     | 75  |
| GD-12  | 1300 | 1300 | 1374 | 170     | 1674 | 198     | 2049 | 240     | 75  |
| GD-16  | 1600 | 1300 | 1374 | 211     | 1674 | 244     | 2049 | 293     | 100 |
| GD-20  | 1600 | 1615 | 1374 | 228     | 1674 | 264     | 2049 | 317     | 100 |
| GD-24  | 1900 | 1615 | 1374 | 249     | 1674 | 288     | 2049 | 345     | 100 |
| GD-30  | 1900 | 1935 | 1374 | 266     | 1674 | 307     | 2049 | 369     | 100 |
| GD-35  | 2200 | 1935 | 1374 | 287     | 1674 | 331     | 2049 | 398     | 100 |
| GD-40  | 2200 | 2245 | 1374 | 303     | 1674 | 350     | 2049 | 421     | 100 |
| GD-50  | 2650 | 2245 | 1374 | 335     | 1674 | 387     | 2049 | 463     | 100 |
| GD-60  | 2650 | 2560 | 1374 | 390     | 1674 | 447     | 2049 | 531     | 150 |
| GD-70  | 3200 | 2560 | 1374 | 434     | 1674 | 496     | 2049 | 589     | 150 |
| GD-80  | 3750 | 2650 | 1374 | 484     | 1674 | 551     | 2049 | 450     | 150 |

50mm insulation

| Model  | A    | B    | C1   | Wt., kg | C2   | Wt., kg | C3   | Wt., kg | H   |
|--------|------|------|------|---------|------|---------|------|---------|-----|
| GD-2.5 | 738  | 738  | 1412 | 117     | 1712 | 137     | 2087 | 166     | 75  |
| GD-4   | 1038 | 738  | 1412 | 139     | 1712 | 161     | 2087 | 196     | 75  |
| GD-6   | 1038 | 1018 | 1412 | 155     | 1712 | 180     | 2087 | 219     | 75  |
| GD-9   | 1338 | 1018 | 1412 | 179     | 1712 | 207     | 2087 | 251     | 75  |
| GD-12  | 1338 | 1338 | 1412 | 199     | 1712 | 230     | 2087 | 279     | 75  |
| GD-16  | 1638 | 1338 | 1412 | 244     | 1712 | 280     | 2087 | 337     | 100 |
| GD-20  | 1638 | 1653 | 1412 | 263     | 1712 | 302     | 2087 | 364     | 100 |
| GD-24  | 1938 | 1653 | 1412 | 287     | 1712 | 329     | 2087 | 396     | 100 |
| GD-30  | 1938 | 1973 | 1412 | 307     | 1712 | 352     | 2087 | 424     | 100 |
| GD-35  | 2238 | 1973 | 1412 | 331     | 1712 | 379     | 2087 | 455     | 100 |
| GD-40  | 2238 | 2283 | 1412 | 350     | 1712 | 401     | 2087 | 482     | 100 |
| GD-50  | 2688 | 2283 | 1412 | 386     | 1712 | 441     | 2087 | 530     | 100 |
| GD-60  | 2688 | 2598 | 1412 | 444     | 1712 | 505     | 2087 | 603     | 150 |
| GD-70  | 3238 | 2598 | 1412 | 494     | 1712 | 560     | 2087 | 666     | 150 |
| GD-80  | 3788 | 2688 | 1412 | 549     | 1712 | 621     | 2087 | 738     | 150 |

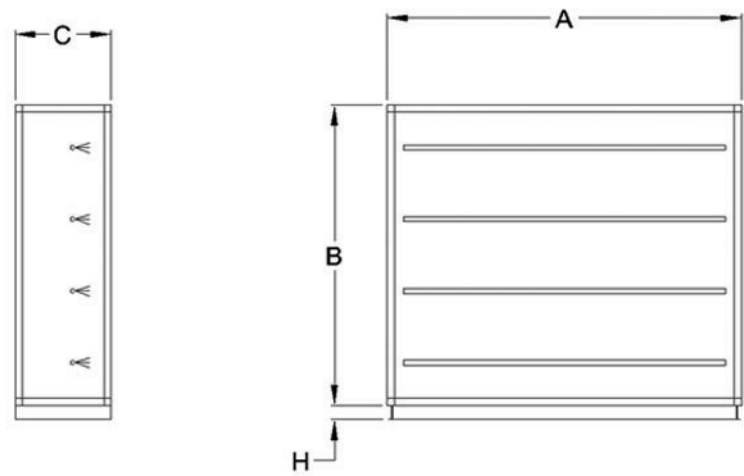
Notes

1. All dimensions in mm.
2. Cell length for C1=1250, C2=1550, C3=1925.
3. Section weights do not include components.



DIMENSIONAL DATA

Humidifier



25mm insulation

| Model  | A    | B    | C   | H   | Wt., kg |
|--------|------|------|-----|-----|---------|
| GD-2.5 | 700  | 700  | 414 | 75  | 36      |
| GD-4   | 1000 | 700  | 414 | 75  | 45      |
| GD-6   | 1000 | 980  | 414 | 75  | 50      |
| GD-9   | 1300 | 980  | 414 | 75  | 60      |
| GD-12  | 1300 | 1300 | 414 | 75  | 66      |
| GD-16  | 1600 | 1300 | 414 | 100 | 90      |
| GD-20  | 1600 | 1615 | 414 | 100 | 96      |
| GD-24  | 1900 | 1615 | 414 | 100 | 107     |
| GD-30  | 1900 | 1935 | 414 | 100 | 112     |
| GD-35  | 2200 | 1935 | 414 | 100 | 124     |
| GD-40  | 2200 | 2245 | 414 | 100 | 129     |
| GD-50  | 2650 | 2245 | 414 | 100 | 146     |
| GD-60  | 2650 | 2560 | 414 | 150 | 180     |
| GD-70  | 3200 | 2560 | 414 | 150 | 206     |
| GD-80  | 3750 | 2650 | 414 | 150 | 234     |

50mm insulation

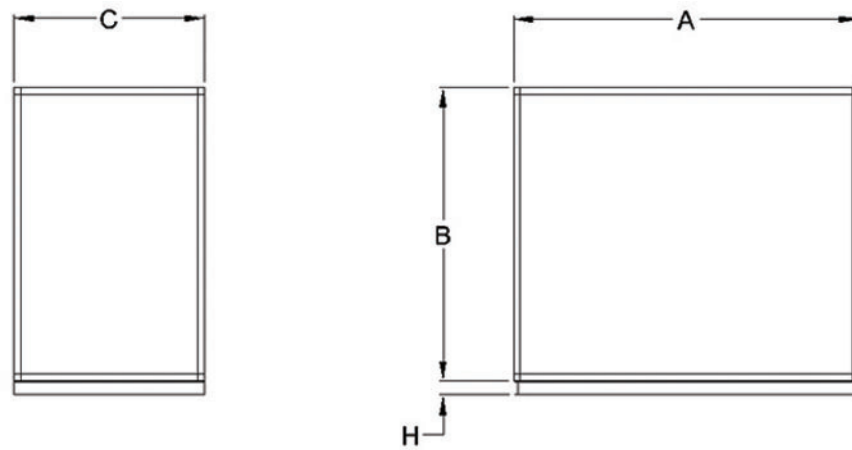
| Model  | A    | B    | C   | H   | Wt., kg |
|--------|------|------|-----|-----|---------|
| GD-2.5 | 738  | 738  | 452 | 75  | 44      |
| GD-4   | 1038 | 738  | 452 | 75  | 54      |
| GD-6   | 1038 | 1018 | 452 | 75  | 60      |
| GD-9   | 1338 | 1018 | 452 | 75  | 72      |
| GD-12  | 1338 | 1338 | 452 | 75  | 80      |
| GD-16  | 1638 | 1338 | 452 | 100 | 105     |
| GD-20  | 1638 | 1653 | 452 | 100 | 112     |
| GD-24  | 1938 | 1653 | 452 | 100 | 125     |
| GD-30  | 1938 | 1973 | 452 | 100 | 132     |
| GD-35  | 2238 | 1973 | 452 | 100 | 144     |
| GD-40  | 2238 | 2283 | 452 | 100 | 151     |
| GD-50  | 2688 | 2283 | 452 | 100 | 170     |
| GD-60  | 2688 | 2598 | 452 | 150 | 206     |
| GD-70  | 3238 | 2598 | 452 | 150 | 235     |
| GD-80  | 3788 | 2688 | 452 | 150 | 265     |

Notes

1. All dimensions in mm.
2. Section weights do not include components.

## DIMENSIONAL DATA

Plenum Section



25mm insulation

| Model  | A    | B    | C    | H   | Wt., kg |
|--------|------|------|------|-----|---------|
| GD-2.5 | 700  | 700  | 801  | 75  | 62      |
| GD-4   | 1000 | 700  | 801  | 75  | 75      |
| GD-6   | 1000 | 980  | 801  | 75  | 84      |
| GD-9   | 1300 | 980  | 801  | 75  | 99      |
| GD-12  | 1300 | 1300 | 801  | 75  | 109     |
| GD-16  | 1600 | 1300 | 980  | 100 | 160     |
| GD-20  | 1600 | 1615 | 980  | 100 | 172     |
| GD-24  | 1900 | 1615 | 1127 | 100 | 208     |
| GD-30  | 1900 | 1935 | 1127 | 100 | 221     |
| GD-35  | 2200 | 1935 | 1127 | 100 | 240     |
| GD-40  | 2200 | 2245 | 1127 | 100 | 253     |
| GD-50  | 2650 | 2245 | 1127 | 100 | 280     |
| GD-60  | 2650 | 2560 | 1127 | 150 | 329     |
| GD-70  | 3200 | 2560 | 1300 | 150 | 404     |
| GD-80  | 3750 | 2650 | 1300 | 150 | 450     |

50mm insulation

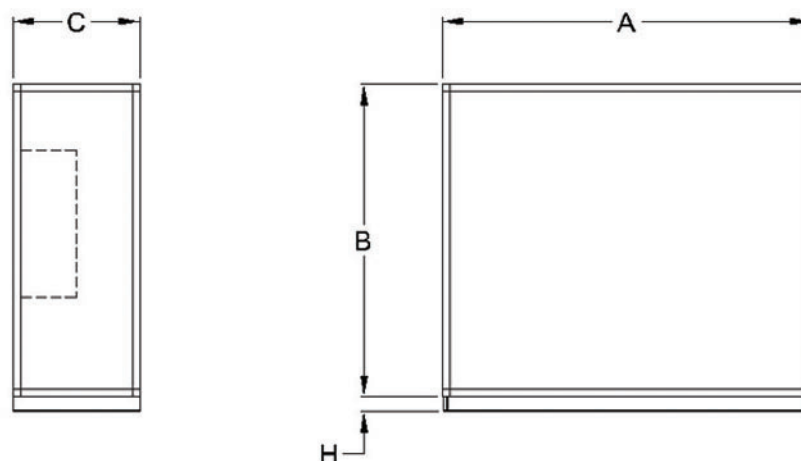
| Model  | A    | B    | C    | H   | Wt., kg |
|--------|------|------|------|-----|---------|
| GD-2.5 | 738  | 738  | 839  | 75  | 75      |
| GD-4   | 1038 | 738  | 839  | 75  | 90      |
| GD-6   | 1038 | 1018 | 839  | 75  | 100     |
| GD-9   | 1338 | 1018 | 839  | 75  | 117     |
| GD-12  | 1338 | 1338 | 839  | 75  | 130     |
| GD-16  | 1638 | 1338 | 1018 | 100 | 185     |
| GD-20  | 1638 | 1653 | 1018 | 100 | 199     |
| GD-24  | 1938 | 1653 | 1165 | 100 | 239     |
| GD-30  | 1938 | 1973 | 1165 | 100 | 254     |
| GD-35  | 2238 | 1973 | 1165 | 100 | 275     |
| GD-40  | 2238 | 2283 | 1165 | 100 | 290     |
| GD-50  | 2688 | 2283 | 1165 | 100 | 321     |
| GD-60  | 2688 | 2598 | 1165 | 150 | 373     |
| GD-70  | 3238 | 2598 | 1338 | 150 | 454     |
| GD-80  | 3788 | 2688 | 1338 | 150 | 505     |

Notes

1. All dimensions in mm.
2. Section weights do not include components.

## DIMENSIONAL DATA

Diffuser



25mm insulation

| Model  | A    | B    | C    | H   | Wt., kg |
|--------|------|------|------|-----|---------|
| GD-2.5 | 700  | 700  | 801  | 75  | 62      |
| GD-4   | 1000 | 700  | 801  | 75  | 75      |
| GD-6   | 1000 | 980  | 801  | 75  | 84      |
| GD-9   | 1300 | 980  | 801  | 75  | 99      |
| GD-12  | 1300 | 1300 | 801  | 75  | 109     |
| GD-16  | 1600 | 1300 | 980  | 100 | 160     |
| GD-20  | 1600 | 1615 | 980  | 100 | 172     |
| GD-24  | 1900 | 1615 | 1127 | 100 | 208     |
| GD-30  | 1900 | 1935 | 1127 | 100 | 221     |
| GD-35  | 2200 | 1935 | 1127 | 100 | 240     |
| GD-40  | 2200 | 2245 | 1127 | 100 | 253     |
| GD-50  | 2650 | 2245 | 1127 | 100 | 280     |
| GD-60  | 2650 | 2560 | 1127 | 150 | 329     |
| GD-70  | 3200 | 2560 | 1300 | 150 | 404     |
| GD-80  | 3750 | 2650 | 1300 | 150 | 450     |

50mm insulation

| Model  | A    | B    | C    | H   | Wt., kg |
|--------|------|------|------|-----|---------|
| GD-2.5 | 738  | 738  | 839  | 75  | 75      |
| GD-4   | 1038 | 738  | 839  | 75  | 90      |
| GD-6   | 1038 | 1018 | 839  | 75  | 100     |
| GD-9   | 1338 | 1018 | 839  | 75  | 117     |
| GD-12  | 1338 | 1338 | 839  | 75  | 130     |
| GD-16  | 1638 | 1338 | 1018 | 100 | 185     |
| GD-20  | 1638 | 1653 | 1018 | 100 | 199     |
| GD-24  | 1938 | 1653 | 1165 | 100 | 239     |
| GD-30  | 1938 | 1973 | 1165 | 100 | 254     |
| GD-35  | 2238 | 1973 | 1165 | 100 | 275     |
| GD-40  | 2238 | 2283 | 1165 | 100 | 290     |
| GD-50  | 2688 | 2283 | 1165 | 100 | 321     |
| GD-60  | 2688 | 2598 | 1165 | 150 | 373     |
| GD-70  | 3238 | 2598 | 1338 | 150 | 454     |
| GD-80  | 3788 | 2688 | 1338 | 150 | 505     |

Notes

1. All dimensions in mm.
2. Section weights do not include components.



## INTERNAL COMPONENT WEIGHT

## Fan

| FAN MODEL | FAN WEIGHT (KG) |
|-----------|-----------------|
| FC160R    | 6.6             |
| FC180R    | 7.8             |
| FC200R    | 9.1             |
| FC250R    | 13              |
| FC250K    | 18              |
| FC280K    | 24              |
| FC315K    | 29              |
| FC355K    | 41              |
| FC400K    | 52              |
| FC400K1   | 53              |
| FC450K    | 66              |
| FC450K1   | 67              |
| FC500K    | 85              |
| FC500K1   | 86              |
| FC560K    | 134             |
| FC560K1   | 142             |
| FC630K    | 170             |
| FC630K1   | 175             |
| FC630K2   | 180             |
| FC710K    | 201             |
| FC710K1   | 208             |
| FC710K2   | 225             |
| FC800K    | 249             |
| FC800K1   | 261             |
| FC800K2   | 278             |
| FC900K1   | 316             |
| FC900K2   | 320             |
| BC180R    | 7.1             |
| BC225R    | 9.9             |
| BC250R    | 15.7            |

## Motor

| Motor HP | Weight, kg |
|----------|------------|
| 0.25     | 6.3        |
| 0.50     | 8.2        |
| 0.75     | 10.0       |
| 1        | 17.2       |
| 1.5      | 22.7       |
| 2        | 23.6       |
| 3        | 33.6       |
| 5        | 49.9       |
| 7.5      | 52.2       |
| 10       | 56.7       |
| 15       | 80.7       |
| 20       | 90.7       |
| 25       | 204.1      |
| 30       | 226.8      |
| 40       | 281.2      |
| 50       | 306.1      |
| 60       | 460.8      |
| 75       | 464.9      |
| 100      | 579.1      |

## Drip Eliminator

| Model | Weight, kg |
|-------|------------|
| 2.5   | 14         |
| 4     | 20         |
| 6     | 30         |
| 9     | 41         |
| 12    | 51         |
| 16    | 64         |
| 20    | 81         |
| 24    | 98         |
| 30    | 125        |
| 35    | 142        |
| 40    | 165        |
| 50    | 198        |
| 60    | 225        |
| 70    | 272        |
| 80    | 345        |

## Filter

| Model | Panel filter (washable) | Panel filter (disposable) | Bag filter | HEPA filter |
|-------|-------------------------|---------------------------|------------|-------------|
| 2.5   | 5                       | 4                         | 5          | 30          |
| 4     | 8                       | 6                         | 8          | 49          |
| 6     | 11                      | 8                         | 11         | 68          |
| 9     | 16                      | 12                        | 16         | 98          |
| 12    | 20                      | 16                        | 20         | 120         |
| 16    | 26                      | 20                        | 26         | 158         |
| 20    | 28                      | 24                        | 28         | 177         |
| 24    | 39                      | 30                        | 39         | 237         |
| 30    | 45                      | 36                        | 45         | 270         |
| 35    | 54                      | 42                        | 54         | 327         |
| 40    | 63                      | 48                        | 63         | 384         |
| 50    | 72                      | 56                        | 72         | 436         |
| 60    | 80                      | 64                        | 80         | 480         |
| 70    | 100                     | 80                        | 100        | 600         |
| 80    | 120                     | 96                        | 120        | 720         |

## Note

All component weights in kg.

## INTERNAL COMPONENT WEIGHT

### INTERNAL COMPONENT WEIGHT

Coil, 5/8" tube

| Model | Qty | FPI | Rows |     |     |     |     |     |
|-------|-----|-----|------|-----|-----|-----|-----|-----|
|       |     |     | 4    |     | 6   |     | 8   |     |
|       |     |     | AL   | CU  | AL  | CU  | AL  | CU  |
| 2.5   | 1   | 10  | 20   | 29  | 28  | 40  | 35  | 52  |
|       |     | 12  | 21   | 31  | 29  | 44  | 37  | 57  |
|       |     | 14  | 22   | 34  | 30  | 48  | 38  | 62  |
| 4     | 1   | 10  | 28   | 41  | 39  | 58  | 50  | 75  |
|       |     | 12  | 30   | 45  | 41  | 64  | 52  | 83  |
|       |     | 14  | 31   | 49  | 43  | 70  | 55  | 91  |
| 6     | 1   | 10  | 44   | 65  | 60  | 93  | 77  | 120 |
|       |     | 12  | 46   | 71  | 64  | 102 | 82  | 133 |
|       |     | 14  | 48   | 78  | 67  | 112 | 86  | 146 |
| 9     | 1   | 10  | 58   | 88  | 81  | 127 | 104 | 165 |
|       |     | 12  | 61   | 97  | 85  | 141 | 110 | 184 |
|       |     | 14  | 64   | 107 | 90  | 154 | 116 | 202 |
| 12    | 1   | 10  | 72   | 112 | 102 | 162 | 132 | 211 |
|       |     | 12  | 76   | 124 | 108 | 180 | 139 | 235 |
|       |     | 14  | 80   | 136 | 114 | 198 | 147 | 259 |
| 16    | 1   | 10  | 95   | 147 | 134 | 211 | 172 | 276 |
|       |     | 12  | 100  | 162 | 141 | 234 | 182 | 307 |
|       |     | 14  | 105  | 178 | 149 | 258 | 192 | 338 |
| 20    | 1   | 10  | 121  | 189 | 170 | 272 | 220 | 356 |
|       |     | 12  | 128  | 209 | 180 | 302 | 233 | 396 |
|       |     | 14  | 134  | 229 | 191 | 333 | 247 | 437 |
| 24    | 1   | 10  | 145  | 229 | 205 | 330 | 264 | 431 |
|       |     | 12  | 154  | 254 | 217 | 368 | 281 | 481 |
|       |     | 14  | 162  | 279 | 230 | 405 | 298 | 531 |
| 30    | 2   | 10  | 91   | 140 | 127 | 201 | 164 | 262 |
|       |     | 12  | 96   | 155 | 135 | 223 | 173 | 291 |
|       |     | 14  | 101  | 169 | 142 | 245 | 183 | 320 |
| 35    | 2   | 10  | 102  | 159 | 144 | 229 | 185 | 299 |
|       |     | 12  | 108  | 176 | 152 | 254 | 196 | 333 |
|       |     | 14  | 114  | 193 | 161 | 280 | 208 | 367 |
| 40    | 2   | 10  | 120  | 188 | 169 | 271 | 218 | 354 |
|       |     | 12  | 127  | 208 | 179 | 302 | 231 | 395 |
|       |     | 14  | 133  | 229 | 189 | 332 | 245 | 435 |
| 50    | 2   | 10  | 143  | 226 | 202 | 326 | 261 | 426 |
|       |     | 12  | 151  | 251 | 214 | 363 | 277 | 476 |
|       |     | 14  | 160  | 276 | 227 | 401 | 293 | 525 |
| 60    | 2   | 10  | 164  | 261 | 232 | 377 | 300 | 493 |
|       |     | 12  | 174  | 290 | 246 | 420 | 319 | 551 |
|       |     | 14  | 183  | 319 | 261 | 464 | 338 | 608 |
| 70    | 2   | 10  | 202  | 320 | 285 | 462 | 367 | 604 |
|       |     | 12  | 214  | 355 | 302 | 515 | 391 | 674 |
|       |     | 14  | 225  | 391 | 320 | 568 | 414 | 745 |
| 80    | 2   | 10  | 220  | 349 | 310 | 505 | 401 | 661 |
|       |     | 12  | 232  | 388 | 330 | 564 | 427 | 739 |
|       |     | 14  | 245  | 427 | 349 | 622 | 453 | 816 |

#### Notes

1. Coil weight do not include water.
2. All weights in kg.

## INTERNAL COMPONENT WEIGHT

Coil, 1/2" tube

| Model | Qty | FPI | Rows |     |     |     |     |     |
|-------|-----|-----|------|-----|-----|-----|-----|-----|
|       |     |     | 4    |     | 6   |     | 8   |     |
|       |     |     | AL   | CU  | AL  | CU  | AL  | CU  |
| 2.5   | 1   | 10  | 16   | 23  | 22  | 33  | 28  | 41  |
|       |     | 12  | 17   | 25  | 23  | 36  | 29  | 45  |
|       |     | 14  | 18   | 27  | 24  | 39  | 31  | 50  |
| 4     | 1   | 10  | 23   | 33  | 32  | 47  | 40  | 61  |
|       |     | 12  | 24   | 36  | 33  | 52  | 42  | 67  |
|       |     | 14  | 25   | 39  | 35  | 57  | 44  | 73  |
| 6     | 1   | 10  | 36   | 54  | 50  | 77  | 64  | 99  |
|       |     | 12  | 38   | 59  | 53  | 85  | 67  | 110 |
|       |     | 14  | 39   | 64  | 56  | 93  | 71  | 121 |
| 9     | 1   | 10  | 48   | 73  | 67  | 106 | 86  | 137 |
|       |     | 12  | 50   | 81  | 71  | 117 | 91  | 152 |
|       |     | 14  | 53   | 88  | 75  | 129 | 96  | 168 |
| 12    | 1   | 10  | 59   | 92  | 84  | 134 | 108 | 174 |
|       |     | 12  | 63   | 102 | 89  | 149 | 115 | 194 |
|       |     | 14  | 66   | 112 | 94  | 164 | 121 | 214 |
| 16    | 1   | 10  | 78   | 121 | 111 | 175 | 142 | 227 |
|       |     | 12  | 83   | 134 | 117 | 195 | 150 | 253 |
|       |     | 14  | 87   | 147 | 124 | 214 | 159 | 279 |
| 20    | 1   | 10  | 99   | 154 | 140 | 223 | 179 | 290 |
|       |     | 12  | 104  | 171 | 148 | 248 | 190 | 323 |
|       |     | 14  | 110  | 187 | 157 | 273 | 201 | 356 |
| 24    | 1   | 10  | 119  | 187 | 169 | 271 | 216 | 353 |
|       |     | 12  | 126  | 208 | 179 | 302 | 230 | 393 |
|       |     | 14  | 133  | 228 | 189 | 332 | 243 | 434 |
| 30    | 2   | 10  | 76   | 117 | 107 | 168 | 136 | 218 |
|       |     | 12  | 80   | 129 | 113 | 187 | 144 | 242 |
|       |     | 14  | 84   | 141 | 119 | 205 | 152 | 267 |
| 35    | 2   | 10  | 85   | 133 | 121 | 192 | 154 | 248 |
|       |     | 12  | 90   | 147 | 128 | 213 | 163 | 277 |
|       |     | 14  | 95   | 161 | 135 | 234 | 173 | 305 |
| 40    | 2   | 10  | 97   | 153 | 138 | 221 | 177 | 287 |
|       |     | 12  | 103  | 169 | 146 | 246 | 188 | 320 |
|       |     | 14  | 108  | 186 | 155 | 270 | 199 | 353 |
| 50    | 2   | 10  | 117  | 184 | 166 | 266 | 212 | 346 |
|       |     | 12  | 123  | 204 | 176 | 296 | 225 | 386 |
|       |     | 14  | 130  | 224 | 186 | 326 | 239 | 426 |
| 60    | 2   | 10  | 135  | 214 | 192 | 311 | 246 | 404 |
|       |     | 12  | 143  | 238 | 204 | 346 | 262 | 451 |
|       |     | 14  | 151  | 261 | 215 | 382 | 277 | 499 |
| 70    | 2   | 10  | 166  | 263 | 236 | 381 | 302 | 495 |
|       |     | 12  | 176  | 292 | 250 | 424 | 321 | 553 |
|       |     | 14  | 186  | 321 | 264 | 467 | 340 | 611 |
| 80    | 2   | 10  | 211  | 338 | 301 | 492 | 387 | 641 |
|       |     | 12  | 223  | 376 | 320 | 549 | 412 | 718 |
|       |     | 14  | 236  | 414 | 339 | 606 | 437 | 794 |

## Notes

1. Coil weight do not include water.
2. All weights in kg.





NOTES:

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# Products Range



AIR COOLED WATER CHILLER 48 - 486 TR  
Screw-Reciprocating



AIR HANDLING UNIT  
(SINGLE & DOUBLE SKIN)  
300 - 200,000 CFM



PACKAGED AIR CONDITIONING UNIT  
2 - 100 TR



SLIM DUCTED CEILING  
FAN COIL UNITS



HIGH PRESSURE FAN COIL UNIT



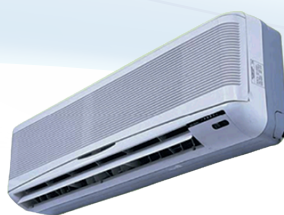
AIR COOLED CONDENSING UNITS  
2 - 160 TR



FAN COIL UNITS  
200 - 1,300 CFM



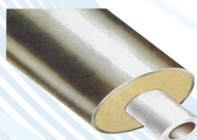
CASSETTE TYPE  
AIR-CONDITIONER



MINI SPLIT UNIT  
9,000 - 32,000 Btu/hr



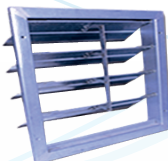
ROOM A/C UNITS  
WINDOW SERIES



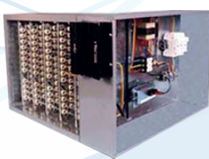
PRE-INSULATED PIPE



Ceiling/Side wall Diffusers



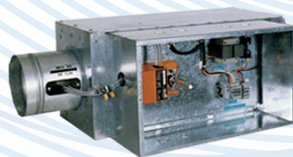
Back Draft Damper



Duct Heater  
HF Series



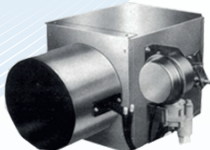
Duct Heater  
CHMS Series



Variable Air Volume (VAV)  
MODEL S



Variable Air Volume (VAV)  
MODEL SX



Variable Air Volume (VAV)  
MODEL V



Variable Air Volume (VAV)  
MODEL SR



AIRFOIL FANS  
225 - 340,000 CFM



VANE AXIAL FAN  
3,000 - 250,000 CFM



Sound Attenuator  
Round Type



Sound Attenuator  
Rectangular Type

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