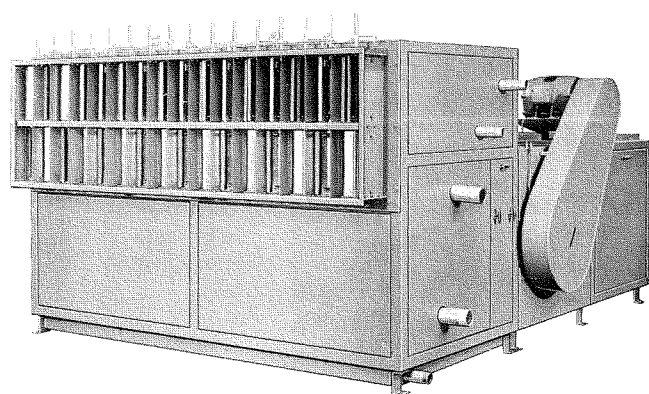




air conditioning

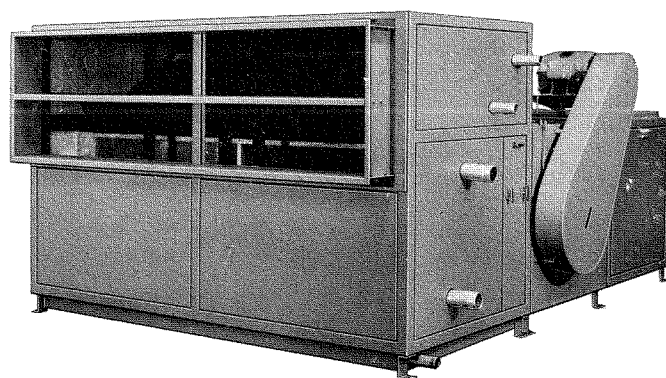
MULTI-ZONE and DUAL DUCT units

low and medium pressure



MULTI-ZONE

"ΣA"



DUAL DUCT

"ZA"

FEATURING:

- NEW LOW PROFILE
- NEW COMPACT LENGTH
- UNITARY DESIGN
- OPPOSED-ACTING ZONE BLADES
- COMPLETE LINE AIR FILTER EQUIPMENT

Leader in environmental control . . .



American Air Filter

BETTER AIR IS OUR BUSINESS

215 CENTRAL AVE., LOUISVILLE, KY. 40208

NEW

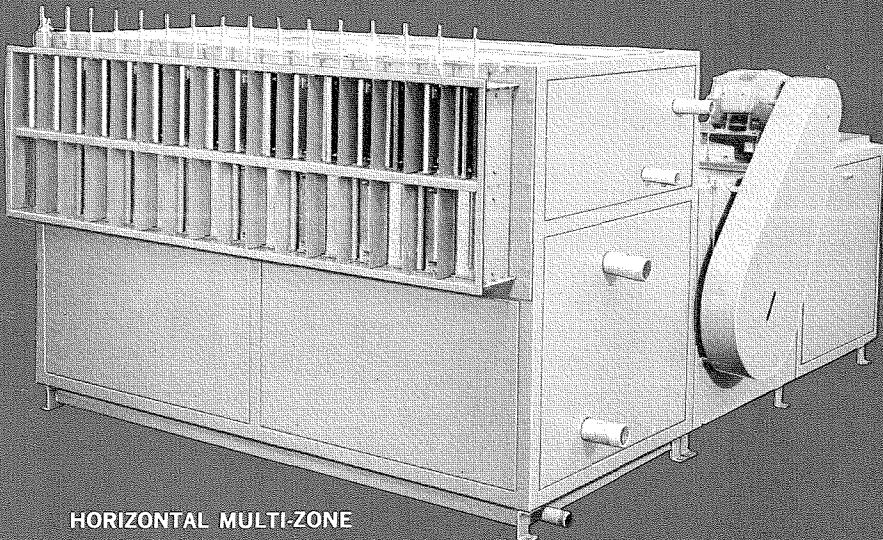
LOW

PROFILE DESIGN

AAF's Engineering staff, combining technical competence with years of experience, put theory to the test with the result: A new and improved product, designed specifically for today's demanding market and for tomorrow's expanding requirements.

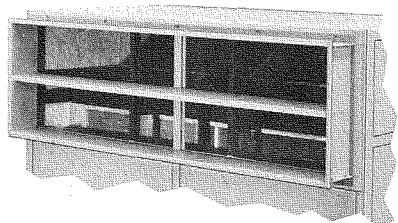
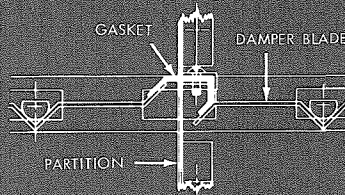
With the AAF blow-through Multi-Zone unit, the zone control dampers are positioned at the discharge of the unit for up to 28 separate zones (2492/2600). Separate and individual zone control provide the advantage of complete job-site adaptability if new conditions require changes in zone size. Entire discharge section may be relocated from one discharge position to the other with minimum field work.

Cabinet finish consists of a 5-stage phosphatizing process followed by coating with an enamel primer containing rust inhibitors, baked at 325°F. After assembly the entire unit is over-sprayed with an exterior grade Medium Gray air dry lacquer; six additional decorator colors are optional for the final overspray. For exterior locations or maximum resistance to corrosion, an epoxy enamel which is U.L. approved is available.



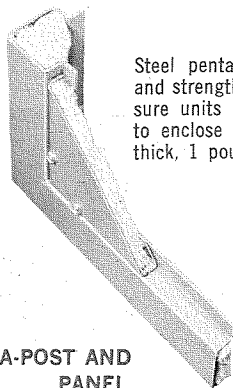
HORIZONTAL MULTI-ZONE

Improved design, opposed acting zone control dampers rotating in nylon bearings offer rugged construction and low torque rapid response to zone temperature requirements. New flexible positive-seal, full-perimeter stationary gaskets insure tight shut-off and effective temperature control. External linkage is easily modified in field to adjust to changes in zone arrangement.



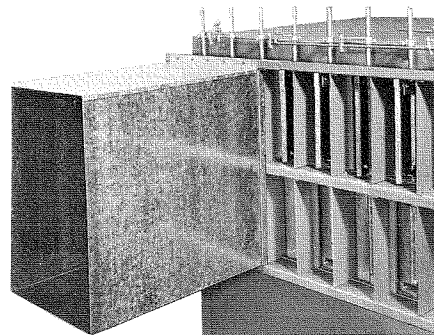
DISCHARGE SECTION OF DUAL DUCT

The AAF Dual Duct unit is identical to the Multi-Zone with the omission of the unit zone control dampers from the discharge section. Separate distribution ducts connected to the hot and cold decks carry the heated or cooled air separately to the space being conditioned where special zone blenders (furnished and installed by others) combine the streams as required.

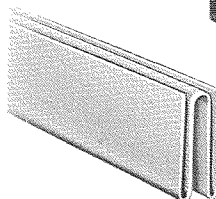


PENTA-POST AND PANEL

Steel penta-post and panel construction combines structural rigidity and strength with full accessibility. Coil section panels of Medium Pressure units are reinforced. Removable panel edges are double formed to enclose insulation and prevent tearing. Cabinet insulation is 1/2" thick, 1 pound density, fire-resistant glass fiber.



Full length slip-on type "W" connecting strips facilitate rapid assembly of duct to zone partitions. Perimeter flanges sized to assist easy attachment.

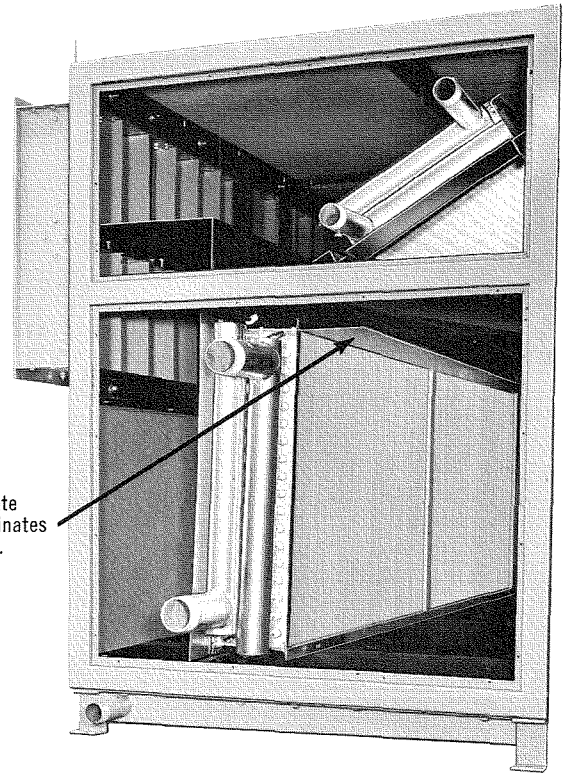


All Components Manufactured by an Acknowledged Leader in Moving, Cleaning and Conditioning of Environment.

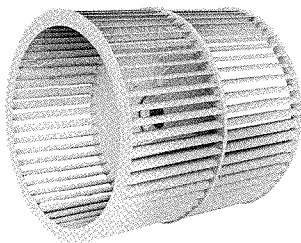
The completely redesigned coil and damper sections provide low profile and compact length in 13 unit sizes for 1200 CFM to 36000 CFM without sacrifice of smooth air flow through hot or cold decks. This new design insures the versatility and flexibility of application long associated with AAF. Both Multi-Zone and Dual Duct units may be ordered for horizontal or vertical discharge in standard horizontal or optional horizontal-U arrangement.

Slant mounted heating coils allow low unit dimensions in conjunction with smooth air flow: extensive laboratory tests showed lowered air turbulence. Steam distribution coils have tubes pitched toward condensate return.

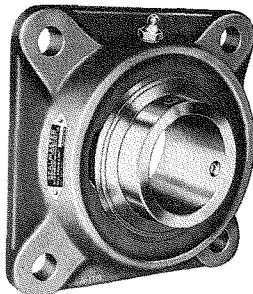
The sloped drain pan is insulated with 1/2" rigid self-extinguishing multicellular polyurethane, permanently cemented in place and completely sealed with a moisture resistant compound. Drain connections both sides. As an option for special applications, an inner liner may be added with a choice of metals available.



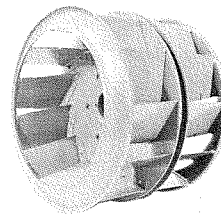
Anti-wipe plate essentially eliminates coil wiping.



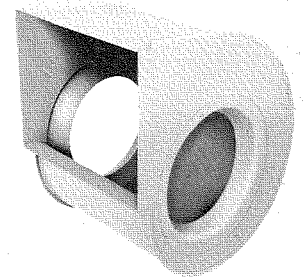
FC FAN WHEEL



Fan shaft bearings are ball, self-aligning cast iron, flange type on low pressure units (shown) and pillow block on medium pressure units. Bearings are sized to full diameter of the fan shaft, thereby providing an average bearing life in excess of 200,000 hours. Both bearings externally mounted on one-fan unit; easy access provided to internal bearing of two-fan units. Lubrication lines are externally located for convenient access.



BI FAN WHEEL



Heavy gauge painted steel fan housings sized to permit minimum outlet velocities.

Double inlet-double width forward curved, painted steel centrifugal fan wheels are balanced statically and dynamically for large air volumes and quiet operation. Use of the most modern electronic analyzing equipment insures minimum levels of noise or vibration in the assembled unit. Backwardly inclined fan wheels are optional for unit sizes 2100 through 2600. Fan wheels of aluminum construction are available on all sizes.

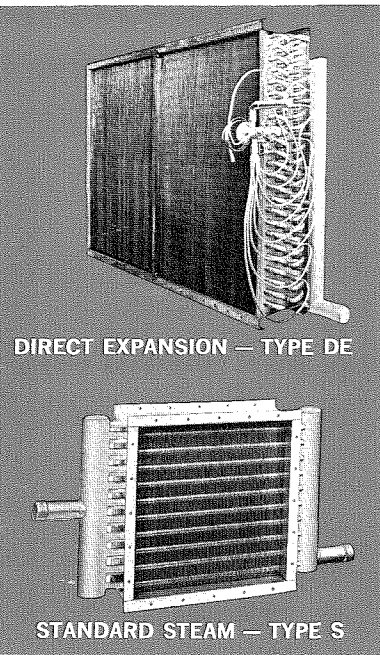
Fan shafts are continuous diameter, cold finish solid steel sized so that the first critical speed is at least 25% greater than operating fan speed. Solid shafts minimize whipping and insure true run for fan wheel.

Adjustable pivoting motor bases provide for easy field installation of standard NEMA frame motors. Drives are adjustable up to 7 1/2 HP; drives for 10 HP and above are constant pitch, with adjustable pitch optional. Removable, solid metal belt guards furnished with tachometer openings are standard equipment.

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| Coil and Humidifier Connection Sizes, Metal Gauges | 19 |
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COILS FOR COOLING, HEATING, PREHEAT



Direct Expansion Coils—Type DE

DE coils have 5/8" O.D. tubing.

Fin spacings of 8, 11, or 14 fins per inch are available. Refrigerant circuiting is custom selected to the job specification. Therefore, it is highly desirable to have the thermal valve and distributor furnished as integral parts of the coil to insure maximum performance.

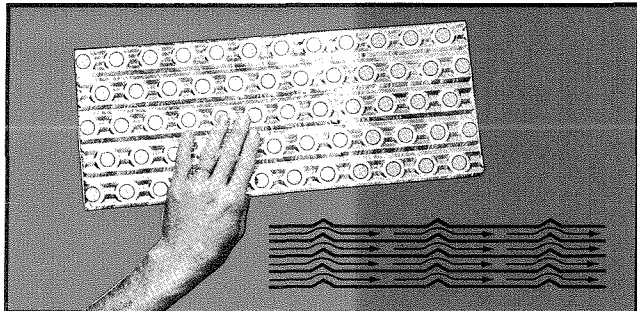
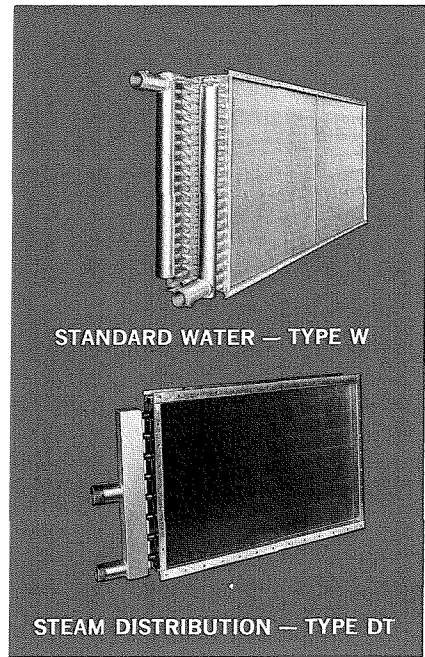
After testing, the coils are thoroughly dehydrated in a 250° F. oven under a vacuum well below 1,000 microns.

Water Coils—Type W

Water coils have 5/8" O.D. tubing. Inlet and outlet tapings are steel MPT sized for each coil. Supply and return tapings are equipped with 1/4" MPT plugs for field installation of vents and drains. Fin spacings of 8, 11, or 14 fins per inch are available.

Cleanable Tube Water Coils—Type CW

The standard water coil is available with removable plugs, factory installed at one or both ends of the tubes. Plugs and return bends are made of corrosion resistant brass and require no special tools to remove plugs.



"ACTIVATED AIR" FIN

The newly developed "Activated Air" Fin surface, combined with a staggered tube arrangement, is used with all AAF coils to provide the highest possible rate of heat transfer. The undulations in the AA Fin surface are impressed into the fin during the same operation in which the self spacing fin collars are drawn.

Turbulence created by the fin undulations insures that each and every particle of air passing through the coil comes into contact with the heat transfer surface, thus obtaining maximum performance. Tubes are completely encased by the fin collars and are expanded into the collars for a tight and permanent bond.

"Activated Air" Fin design and performance is the end result of extensive laboratory investigation and testing. New AA Fin ratings represent the latest in a continuing series of product improvements by AAF, aimed at providing our customers with maximum value in heating and air conditioning equipment.

Standard Steam Coils—Type S

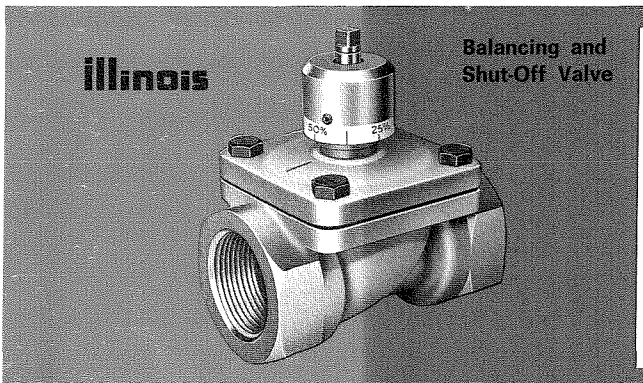
All standard steam coils are furnished with 5/8" O.D. tubing. Fin spacings of 8, 11, or 14 fins per inch are available. Supply and return tapings may be located on opposite ends of the coils or same end as specified.

Steam Distributing Coils—Type DT

Type DT coils are one row with 1" O.D. condensing tube and 5/8" O.D. steam distributing tube. Fin spacings of 4, 6, 8, 10, or 12 fins per inch. Scientifically oriented orifices and tubes pitched toward condensate return provide rapid condensate removal, even distribution of steam and uniform leaving air temperature to the entire coil face. Freeze-up protection is maintained even with modulation of steam. Available with same end or opposite end connections.

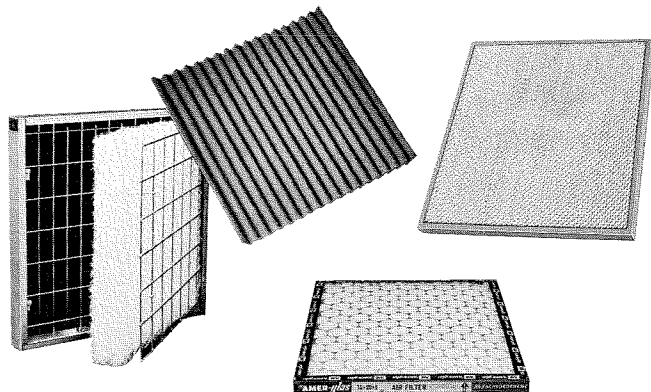
SPECIAL NOTE: Type S coils are furnished with tubing suitable for a maximum operating steam pressure of 30 PSI. Type DT coils with standard tubing are suitable for a maximum operating steam pressure of 200 PSI and temperature of 400° F. However, over 30 PSI, the use of heavy duty tubing is recommended.

Maximum operating steam pressure is 100 PSI for Type S, and 200 PSI for Type DT; same end connections are mandatory over 30 PSI.

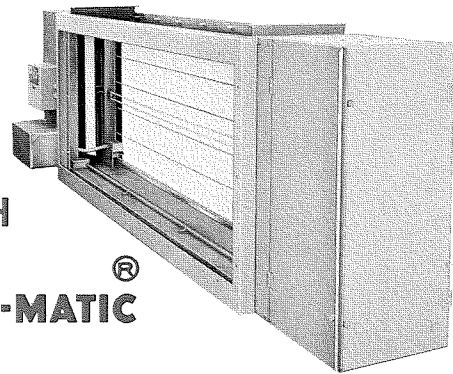


To maintain efficient operation at all times, select Illinois Float & Thermostatic Traps for Steam Coils. For Water Coils, select the new Illinois Series 5000 Balancing & Shut-off Valves; available in Sizes 1 1/2"-4"; designed for accurate balancing combined with tight shut-off and tamper-proof setting. For further information, write for Bulletin BLV-100.

Complete Line of Unit Filters and Automatic Filters



High Cleaning
Efficiency —
Easy to Service



TYPE H
Roll-O-MATIC®

UNIT FILTER BOXES

Flat or Angle Bank Filter Sections to Meet All
Velocity Needs

Unit filter boxes provide a complete range of options for many filtering needs. Filters are 2" thick and may be quickly removed or replaced through access panels located at each end of the section.

AMER-glas® Throwaway

Media is of continuous interlaced glass fiber filaments impregnated with viscoseine.

HV-2 Permanent Cleanable

A high capacity, low resistance filter which is permanent and washable and may be used when the cleanable feature is desired. This filter has a high cleaning efficiency over a wide range of air velocities.

Renu-Filter: Renewable or Polyurethane Media

The Renu-Filter consists of a permanent steel hinged frame with replaceable media. This filter provides the advantage of an option in the type of media. This filter may be ordered with either a glass fiber renewable media, or a permanent cleanable polyurethane media as required.

An outstanding feature of these units is the availability of the Roll-O-Matic automatic air filter. Designed for and made by the same manufacturer as the unit to insure integral performance, design and responsibility. Optional exclusive attachment channel speeds field assembly.

Performance — The Roll-O-Matic filter is designed to operate at an average resistance of 0.35" W.G. Initial resistance is .16" W.G. at 500 FPM. Tested under dynamic conditions using AFI synthetic dust, the Roll-O-Matic media has an efficiency of 80/85%.

TYPE H ROLLOTRON®

Traps the dust — and rolls it up automatically!

The Rollotron offers

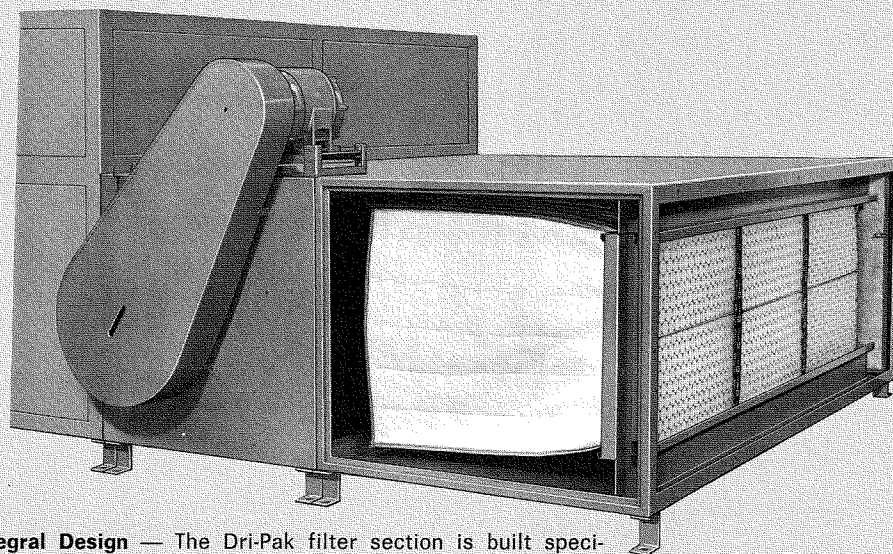
- the efficiency of an electrostatic precipitator, and
- the minimum maintenance of an automatic-renewing, disposable media air-filter.

both in one space-saving unit and a part of the air handling unit.

Electro-CELL®

Central Station Efficiency — no costly ductwork

The High-Velocity Electro-Cell provides optimum performance at higher capacities for a given face area than any other precipitator available. Efficiency as determined by the National Bureau of Standards Dust Spot Test Method is as high as 95%.



DRI-Pak® Filters

Integral Design — The Dri-Pak filter section is built specifically for each size air handling unit to provide clean, flush mounting.

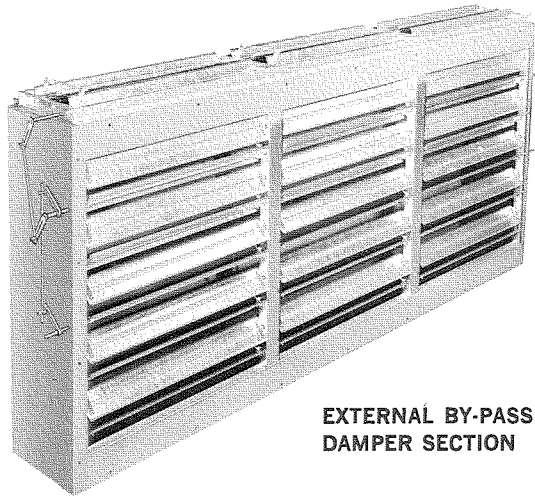
Complete Perimeter Seal — AAF's exclusive full perimeter spring tension pressure frame combines with gasketing on edges of each Dri-Pak header and on the top and bottom of the filter channel to eliminate by-pass air.

Full Side Access — Quick opening access doors on both ends of the filter section facilitate installation and removal of Dri-Pak filters and prefilters.

Built-In Prefilter Section — Any type 2" thick unit filter cell may be used to increase the Dri-Pak filter cartridge life.

Complete Range of Efficiencies — Dri-Pak media provides efficiencies of 50%, 85%, or 95% by the National Bureau of Standards Dust Spot Test using atmospheric dust.

COMPLETE SELECTION OF ACCESSORIES



EXTERNAL BY-PASS DAMPER SECTION

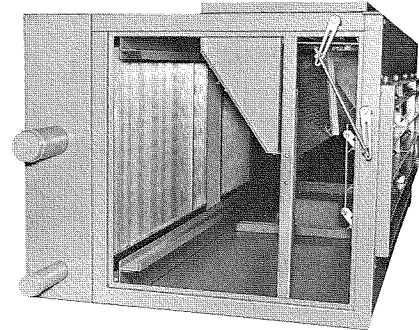
FACE AND BY-PASS DAMPERS WITH OPPOSED ACTING BLADES

Internal or external by-pass damper sections are available. Dampers and the unitary framework are fabricated from galvanized steel. The damper pivot rods rotate in self-lubricating nylon bushings. External interconnecting linkage and damper rods are furnished for easy damper motor connections.

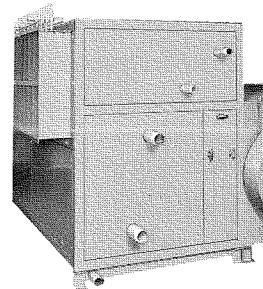
MIXING BOXES BLEND FRESH AND RECIRCULATED AIR

Inter-connected opposed acting damper sections are operated by an externally mounted damper motor (furnished and installed by others). Dampers and the unitary framework are fabricated from galvanized steel. Inlet openings have duct collars.

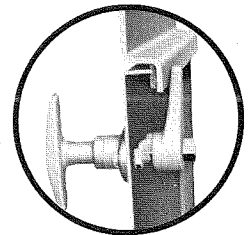
Combination Unit Filter and Mixing Boxes are also available. Filters are removable from either end through quick opening doors. A mixing baffle mounted at the outside air opening to insure thorough mixture of the air may be ordered at additional cost (flat bank arrangement only).



COMBINATION FILTER AND MIXING BOX showing mixing baffle



QUICK-ACCESS LATCH



| UNIT NO. | GRID HUMIDIFIER CAPACITY (LB./HR.) | | | PAN HUMIDIFIER CAPACITY (LB./HR.) | | | | | TARGET HUMIDIFIER (1) | |
|----------|------------------------------------|-----|------|-----------------------------------|-------|-------|-------|-------|-----------------------|--------------|
| | STEAM PRESSURE—PSIG | | | | | | | | No. of Noz. | Cap. Lb. Hr. |
| | 2 | 5 | 10 | 2 | 5 | 10 | 15 | 20 | | |
| 1039 | 62 | 100 | 139 | 1.00 | 2.99 | 7.27 | 11.61 | 16.02 | 1 | 9.8 |
| 2060 | 114 | 185 | 256 | 1.86 | 5.55 | 13.60 | 21.60 | 29.80 | 2 | 19.6 |
| 2083 | 132 | 214 | 296 | 1.96 | 5.85 | 14.30 | 22.80 | 33.40 | 2 | 19.6 |
| 2100 | 138 | 235 | 309 | 2.26 | 6.75 | 16.50 | 26.20 | 36.20 | 2 | 19.6 |
| 2125 | 150 | 244 | 336 | 2.46 | 7.36 | 18.00 | 28.60 | 39.50 | 3 | 29.4 |
| 2150 | 160 | 259 | 358 | 2.62 | 7.82 | 19.10 | 30.40 | 42.00 | 3 | 29.4 |
| 2182 | 174 | 282 | 390 | 2.85 | 8.53 | 20.80 | 33.10 | 45.70 | 4 | 39.2 |
| 2225 | 180 | 292 | 403 | 2.93 | 8.75 | 21.30 | 34.00 | 47.00 | 4 | 39.2 |
| 2270 | 216 | 350 | 484 | 3.54 | 10.60 | 25.80 | 41.11 | 56.70 | 5 | 49.0 |
| 2315 | 216 | 350 | 484 | 3.54 | 10.60 | 25.80 | 41.11 | 56.70 | 6 | 58.8 |
| 2390 | 234 | 379 | 524 | 3.88 | 11.60 | 28.20 | 45.10 | 62.20 | 6 | 58.8 |
| 2492 | 556 | 900 | 1250 | 4.80 | 14.40 | 35.00 | 55.70 | 77.00 | 8 | 78.4 |
| 2600 | 576 | 932 | 1290 | 4.80 | 14.40 | 35.00 | 55.70 | 77.00 | 8 | 78.4 |

TABLE 1 — HUMIDIFIER CAPACITY

Humidifier capacities based on air temperature across humidifier of 100° D.B. with 40° D.P.

(1) Target humidifier water temperature range of 50°F to 150°F and 30 PSIG. See table below for water pressures other than 30 PSIG.

| Water Press. PSIG | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
|-------------------|-----|------|------|------|------|------|------|------|------|
| Target Type | .93 | 1.00 | 1.21 | 1.32 | 1.32 | 1.32 | 1.32 | 1.32 | 1.32 |

TABLE 2 — CORRECTION FACTOR

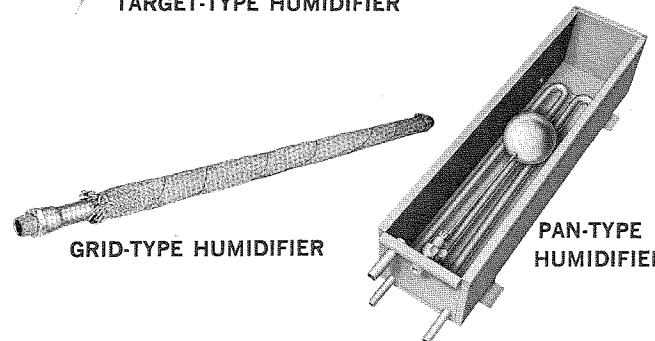
NOTE: Due to the zoning arrangement and the requirement for individual humidity control for each zone, it is recommended that humidifiers be placed in the individual duct work, external to the Multi-Zone or Dual Duct unit.

COOLING COIL SECTION ACCESS DOORS

Quick opening access doors on the cooling coil section permit convenient inspection of the cooling coil or valves, or access for cleaning coil face. Optional on entering air or leaving air side of coil. Not available on Medium Pressure units.



TARGET-TYPE HUMIDIFIER



GRID-TYPE HUMIDIFIER

PAN-TYPE HUMIDIFIER

HUMIDIFIERS — THREE TYPES FOR ALL MOISTURE REQUIREMENTS

TARGET TYPE—The target humidifier is a series of individual self-cleaning nozzles, each directing a jet of water onto a target plate where it is atomized.

GRID TYPE—An orificed brass pipe introduces steam into the air stream through an asbestos wicking held in place by copper banding.

PAN TYPE—This type has a copper pan in which a constant water level is maintained by means of a float valve. The water is heated by copper steam coils located below the water surface.

SELECTION PROCEDURE

TABLE 3 — Physical Data

| | | UNIT SIZE | 1039 | 2060 | 2083 | 2100 | 2125 | 2150 | 2182 | 2225 | 2270 | 2315 | 2390 | 2492 | 2600 | | |
|--|--|--|---|-----------------------|-----------------------|-----------------------|------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|----------------|---------------|
| FANS | Low Pressure | Cooling Coil Face Velocity (FPM) | 400 | 1550 | 2380 | 3300 | 4025 | 5000 | 6000 | 7260 | 9000 | 10800 | 12600 | 15600 | 19700 | 24000 | |
| | | Forward Curved Steel Wheels | No. and Dia. of Wheels Tot. Outlet Area (Sq. Ft.) | 1-10 1.225 | 2-9½ 1.86 | 2-10 2.45 | 2-12¼ 3.45 | 2-15 4.15 | 2-18 4.88 | 2-21 5.73 | 2-24 6.88 | 2-27 8.35 | 2-30 10.18 | 2-33 12.46 | 2-36 15.19 | 2-40 18.50 | 2-45 23.00 |
| | | | Max. RPM Std. Shaft Shaft & Bearing Dia. (In.) | 1850 1½ | 2010 1½ | 1812 1½ | 1550 1½ | 1270 1½ | 1300 1½ | 1120 1½ | 1120 1½ | 925 2½ | 840 2½ | 735 2½ | 665 2½ | 600 2½ | 500 2½ |
| | | | Max. RPM Low Sp. Shaft Shaft & Bearing Dia. (In.) | 1530 1½ | — | 1400 1½ | 1250 1½ | — | 1163 1½ | 1030 1½ | 1030 1½ | — | — | — | — | 500 2½ | 450 2½ |
| | | Backwardly Inclined Steel Wheels | No. and Dia. of Wheels Tot. Outlet Area (Sq. Ft.) | 1-10% .96 | 2-9½ 1.30 | 2-10% 1.92 | 2-10% 1.92 | 2-12% 2.42 | 2-12% 2.64 | 2-15 3.34 | 2-15 3.85 | 2-18 4.88 | 2-18% 5.71 | 2-18% 6.85 | 2-22¼ 10.18 | 2-24½ 12.46 | 2-27 15.19 |
| | | | Maximum RPM | 2460 | 2710 | 2222 | 2250 | 1835 | 1775 | 1529 | 1660 | 1400 | 1400 | 1155 | 980 | 953 | 890 |
| | Shaft & Bearing Dia. (In.) | | 1½ | 1½ | 1½ | 1½ | 1½ | 1½ | 1½ | 1½ | 1½ | 2½ | 2½ | 2½ | 3½ | 3½ | |
| | Medium Pressure | Forward Curved Steel Wheels | No. and Dia. of Wheels Tot. Outlet Area (Sq. Ft.) | NA | NA | NA | 2-12 3.10 | 2-12 3.10 | 2-15 4.61 | 2-15 4.61 | 2-18 6.84 | 2-18 6.84 | 2-20 8.35 | 2-22¼ 10.18 | 2-24½ 12.46 | 2-27 15.19 | 2-30 18.50 |
| | | | Maximum RPM | NA | NA | NA | 3750 | 3700 | 2860 | 3020 | 2610 | 2240 | 2170 | 1820 | 1665 | 1485 | 1285 |
| | | | Shaft & Bearing Dia. (In.) | NA | NA | NA | 2½ | 2½ | 2½ | 2½ | 3½ | 3½ | 3½ | 3½ | 4½ | 4½ | 4½ |
| | | Backwardly Inclined Steel Wheels | No. and Dia. of Wheels Tot. Outlet Area (Sq. Ft.) | NA | NA | NA | 2-12 3.10 | 2-12 3.10 | 2-15 4.61 | 2-15 4.61 | 2-18 6.84 | 2-18 6.84 | 2-20 8.35 | 2-22¼ 10.18 | 2-24½ 12.46 | 2-27 15.19 | 2-30 18.50 |
| | | | Maximum RPM | NA | NA | NA | 3750 | 3700 | 2860 | 3020 | 2610 | 2240 | 2170 | 1820 | 1665 | 1485 | 1285 |
| Shaft & Bearing Dia. (In.) | | | NA | NA | NA | 2½ | 2½ | 2½ | 2½ | 3½ | 3½ | 3½ | 3½ | 4½ | 4½ | 4½ | |
| COOLING COIL | Water and DE Face Area (Sq. Ft.) | 3.88 | 5.94 | 8.25 | 10.06 | 12.5 | 15.0 | 18.13 | 22.5 | 27.0 | 31.5 | 39.0 | 49.22 ⁵ | 60.0 ⁵ | 72.0 ⁵ | | |
| | Width & Length (In.) ¹ | 1-18x31 | 1-15x57 | 1-18x66 | 1-21x69 | 1-24x75 | 1-27x80 | 1-30x87 | 1-36x90 | 1-36x108 | 1-42x108 | 1-48x117 | 1-54x126 | 1-60x135 | 1-66x144 | | |
| | Tubes Wide | 12 | 10 | 14 | 16 | 18 | 20 | 24 | 28 | 24 | 28 | 32 | 36 | 40 | 44 | | |
| | Max. Rows ² | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | |
| HEATING COIL | Water & Std. Steam Face Area (Sq. Ft.) | 1.94 | 3.56 | 4.13 | 5.76 | 6.25 | 8.34 | 9.06 | 11.25 | 13.5 | 15.75 | 19.5 | 26.1 | 30.0 | 36.0 | | |
| | Width & Length (In.) ¹ | 1-9x31 | 1-9x57 | 1-9x66 | 1-12x69 | 1-12x75 | 1-15x80 | 1-15x87 | 1-18x90 | 1-18x108 | 1-21x108 | 1-24x117 | 1-27x126 | 1-30x144 | 1-30x144 | | |
| | Tubes Wide | 6 | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 16 | 18 | 20 | 20 | | |
| | Max. Rows ² | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| PREHEAT COIL | Steam Distribution Face Area (Sq. Ft.) | 1.94 | 3.50 | 4.13 | 5.76 | 6.25 | 8.34 | 9.06 | 11.25 | 13.5 | 15.75 | 19.5 | 26.1 | 30.0 | 36.0 | | |
| | Width & Length (In.) ¹ | 9x31 | 9x57 | 9x66 | 12x69 | 12x75 | 15x80 | 15x87 | 18x90 | 18x108 | 21x108 | 24x117 | 27x126 | 30x144 | 30x144 | | |
| | Max. Rows ² | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | Large Face Area | Hot Water, Steam Distributing Width & Length (In.) | 1-18x31 | 1-15x57 | 1-18x66 | 1-21x69 | 1-24x75 | 1-27x80 | 1-30x87 | 1-36x90 | 1-36x108 | 1-42x108 | 1-48x117 | 1-54x126 | 1-60x135 | 1-66x144 | |
| Hot Water, Steam Distributing Face Area (Sq. Ft.) | | 3.88 | 5.94 | 8.25 | 10.06 | 12.50 | 15.00 | 18.13 | 22.50 | 27.00 | 31.50 | 39.00 | 49.22 ⁵ | 60.00 ⁵ | | | |
| Hot Water, Steam Distributing Width & Length (In.) | | 1-15x31 | 1-12x57 | 1-15x66 | 1-18x69 | 1-21x75 | 1-21x80 | 1-24x87 | 1-30x90 | 1-30x108 | 1-36x108 | 1-39x117 | 2-21x139 | 1-24-144 | | | |
| Hot Water, Steam Distributing Face Area (Sq. Ft.) | | 3.23 | 4.75 | 6.88 | 8.63 | 10.92 | 11.67 | 14.50 | 18.75 | 22.50 | 27.00 | 31.70 | 40.54 ⁵ | 51.00 ⁵ | | | |
| Max. No. Rows | Std. Depth | Single Coil | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| | | Combination of Two Coils | — | — | — | — | — | — | — | — | — | — | — | — | — | | |
| | Extra Depth | Single Coil | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | | |
| | | Combination of Two Coils | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | | |
| FLAT BANK FILTER SECTION OR MIXING BOX | Quantity Size (In.) ³ | 2 | 4 | 4 | 4 | 4 | 8 | 8 | 10 | 12 | 18 | 16 | 20 | 24 | 24 | | |
| | Nominal Area (Sq. Ft.) | 20x20 | 16x20 | 20x20 | 20x25 | 20x25 | 16x20 | 16x25 | 20x20 | 20x20 | 16x20 | 16x25 | 16x25 | 16x25 | 16x25 | | |
| | Max. Recom. CFM | 5.56 | 8.88 | 11.12 | 13.88 | 13.88 | 17.76 | 22.25 | 27.8 | 33.36 | 39.96 | 44.48 | 55.6 | 66.7 | 66.7 | | |
| | AMER-glas Polyurethane, Renewable HV2 | 2220 2500 3480 | 3560 4000 5560 | 4440 5000 6950 | 5550 6250 8700 | 5550 6250 8700 | 7120 8000 11100 | 8900 10000 13900 | 11100 12500 17400 | 13300 15000 20800 | 16000 18000 25000 | 17800 20450 27800 | 22200 25000 34800 | 26600 30000 41700 | 26600 30000 41700 | | |
| ANGLE BANK FILTER SECTION OR MIXING BOX | Quantity Size (In.) ³ | 4 | 6 | 6 | 8 | 8 | 8 | 10 | 12 | 18 | 18 | 24 | 24 | 36 | 36 | | |
| | Nominal Area (Sq. Ft.) | 16x20 | 16x20 | 16x25 | 16x20 | 16x20 | 20x20 | 20x25 | 20x25 | 16x20 | 16x25 | 16x25 | 16x25 | 16x25 | 16x25 | | |
| | Max. Recom. CFM | 8.88 | 13.32 | 16.68 | 17.76 | 17.76 | 22.24 | 27.76 | 34.7 | 41.64 | 50.04 | 62.46 | 83.28 | 100.08 | 100.08 | | |
| | AMER-glas Polyurethane, Renewable HV2 Standard Arrangement | 3560 4000 5560 | 5330 6000 8330 | 6680 7500 10450 | 7120 8000 11100 | 7120 8000 11100 | 8900 10000 13900 | 11100 12500 17350 | 13900 15600 21700 | 16600 18700 26000 | 20000 22700 31300 | 25000 28100 39000 | 33300 37000 52000 | 40000 45000 62500 | 40000 45000 62500 | | |
| AUTOMATIC FILTERS | Type H Roll-O-Matic | Size Max. Recom. CFM | 22-36 3380 | 22-59 5540 | 22-69 6500 | 25-69 7380 | 25-73 7920 | 33-78 11400 | 33-86 12600 | 39-86 15120 | 39-100 17760 | 45-100 20880 | 2525-1010 23700 | 3325-132 34020 | 3333-132 39180 | | |
| | Type H Rollotron | Size Max. Recom. CFM—90% Eff. | 22-38-24 2300 | 22-58-20 3010 | 22-68-24 4580 | 25-68-24 4580 | 25-78-24 5210 | 33-78-34 8360 | 33-88-34 9700 | 39-88-38 10900 | 39-108-38 13520 | 45-108-40 15040 | 2525-118-50 21300 | 3325-138-58 29350 | 3333-138-64 33300 | | |
| | Electro-Cell | Size Max. Recom. CFM—85% Eff. | 3-20 1470 | 5-20 2400 | 6-24 3660 | 6-24 3660 | 7-24 4170 | 7-34 6660 | 8-34 7740 | 8-38 8700 | 10-38 9800 | 10-40 10400 | 11-50 17340 | 12-58 21960 | 13-64 26640 | | |
| MULTI-ZONE ZONING DAMPERS | Quantity of Individual Blades ⁴ | 7 | 12 | 14 | 14 | 15 | 16 | 18 | 18 | 22 | 22 | 24 | 28 | 28 | | | |
| MIXING BOX INLETS | Inlet Areas (Sq. Ft.) Per Opening | 3.79 | 6.49 | 7.69 | 7.69 | 10.88 | 11.53 | 15.90 | 15.90 | 18.80 | 18.80 | 26.20 | 28.40 | 34.30 | 34.30 | | |
| MAXIMUM MOTOR SIZE | Maximum Open, Single Speed, NEMA Motor Frame Size Mounted on Fan Section | 215 184T | 254U 213T | 256U 215T | 256U 215T | 284U 254T | 284U 254T | 286U 256T | 286U 256T | 324U 284T | 326U 286T | 364U 324T | 364U 324T | 364U 324T | 365U 326T | | |

¹ Coil finned lengths are minimum for Multi-Zone units and cannot be reduced because of possible starving of end zones. ² One coil in direction of airflow. ³ Filters are 2" thick.
⁴ Maximum number of individual zones. ⁵ For 2 coil total.

DRI-Pak[®] SELECTION AND PERFORMANCE

DRI-PAK[®] MEDIA DATA

*If prefilters are used, add appropriate resistance. Refer to Air Filter Bulletin 228-C for complete DRI-Pak[®] filter data.

| | No. 100 Media | No. 90 Media | No. 60 Media |
|---|---------------|--------------|--------------|
| Average Dust Spot Efficiency (Atmospheric Dust) | 93-97% | 80-85% | 50-55% |
| Initial Resistance—In W.G.* | | | |
| Series 2000, 2000H | 0.48 | 0.37 | 0.30 |
| Series 1000, 1000H | 0.37 | 0.24 | 0.16 |
| Series 20-22 | 0.45 | 0.25 | 0.20 |
| Series 20-33 | 0.48 | 0.37 | 0.30 |

To Order: Specify either High Capacity or Low Capacity, media number, unit size, and prefilter type if desired.

| AH UNIT SIZE | CARTRIDGE Qty. & Size (In.) | MAXIMUM FILTER CFM | |
|--------------|-----------------------------|--|---------------------------------------|
| | | High Capacity Series 2000, 2000H 20-33 | Low Capacity Series 1000, 1000H 20-22 |
| 1039 | 2-20x20 | 2400 | 1600 |
| 2060 | 3-20x20 | 3600 | 2400 |
| 2083 | 4-20x20 | 4800 | 3200 |
| 2100 | 3-24x24 | 6000 | 3000 |
| 2125 | 1-24x12 3-24x24 | 7000 | 3500 |
| 2150 | 1-24x12 3-24x24 | 7000 | 3500 |
| 2182 | 4-24x24 | 8000 | 4000 |
| 2225 | 10-20x20 | 12000 | 8000 |
| 2270 | 12-20x20 | 14400 | 9600 |
| 2315 | 10-24x24 | 20000 | 10000 |
| 2390 | 10-24x24 2-24x12 | 22000 | 11000 |
| 2492 | 24-20x20 | 28800 | 19200 |
| 2600 | 3-24x12 18-24x24 | 39000 | 19500 |

| | HIGH CAPACITY | | | LOW CAPACITY | | |
|----------|--|---|---|---|--|---|
| | Series 2000 | Series 2000H | Series 20-33 | Series 1000 | Series 1000H | Series 20-22 |
| Capacity | 2000 CFM | 1000 CFM | 1200 CFM | 1000 CFM | 500 CFM | 800 CFM |
| Size | 24" x 24" 4" Deep, Fold. 36" Deep Infla. | 12½" x 24" 4" Deep, Fold. 36" Deep Infla. | 20" x 20" 4" Deep, Fold. 33" Deep, Infla. | 24" x 24" 3" Deep, Fold. 18" Deep, Infla. | 12½" x 24" 3" Deep, Fold. 18" Deep, Infla. | 30" x 20" 3" Deep, Fold. 22" Deep, Infla. |

SELECTION PROCEDURE

I. UNIT SIZE SELECTION

It is assumed that the selection of an Air Conditioning Multi-Zone (ACMZ) or a Dual Duct (DD) unit indicates the unit is for summer and winter use if a multi-zone for winter and ventilating use only is required, a Heating and Ventilating Multi-Zone (HVMZ) unit is recommended; refer to bulletin HV101A. Selection procedures for the ACMZ or Dual Duct units are the same with the exception that the zone discharge damper selection step is omitted with the Dual Duct. It is also assumed that the air quantities have been predetermined and that the cooling coil face velocity will be the principal governing factor in the unit size selection. Reference should be made to Table 3, page 7, which lists CFM ranges and corresponding cooling coil face velocities by available unit sizes.

II. COIL SELECTION

With the selection of the Multi-Zone or Dual Duct unit size, the heating and cooling coil sizes are fixed. Coil face areas, number of tubes, finned length and maximum number of rows are found in Table 3, page 7. With this information, a capacity check to determine actual rows may be made by reference to the appropriate coil bulletin. Cooling coil selection should be made from bulletin CC100A; both chilled water and direct expansion coil are available. Air velocity through a cooling coil should be kept to a maximum of 600 FPM when the coil is dehumidifying to prevent moisture entrainment.

Heating and preheating coil selection should be made from bulletin HC-103; available types include hot water, standard steam, and steam distribution coils. Electric resistance heating coils cannot be furnished in the hot deck because maintenance of full airflow across the coil is required whenever the coil is energized. Electric coils for preheating are available if by-pass dampers are not used; refer to supplementary bulletin HC603A. Preheat coils are located on the entering air side of the fan section in a separate coil section.

III. ACCESSORY SELECTION

FILTERS

Four types of unit filters in three filter box arrangements and three standard types of electronic filters make for the most complete

selection flexibility available. Filter sizes, quantities and rack types as well as maximum recommended CFM for best filtration are all found in Table 3, page 7.

Unit filters offer a lower initial cost with approximate efficiencies of 65% to 80% by weight. Polyurethane and HV-2 filters provide greater dust holding capacity than Throwaway or Renewable filters, but require cleaning periodically. Total maintenance costs of Throwaway filters are high in comparison with other types.

The DRI-Pak filter offers moderate initial cost combined with low maintenance costs and high efficiency: 95% by NBS Dust Spot at recommended air volume. See page 7 for selection.

Automatic filters have a greater initial cost than unit filters, but provide constant air volume and lower maintenance or replacement costs. In addition, the Rolotron and Electro-Cell filters offer significantly greater filtration efficiency (up to 95% by NBS Dust Spot) of the extremely fine particles found in odor causing gases and smoke. Note: the Electro-Cell cannot be furnished with the horizontal-U arrangement.

Refer to the appropriate American Air Filter bulletin for complete information on filter selection.

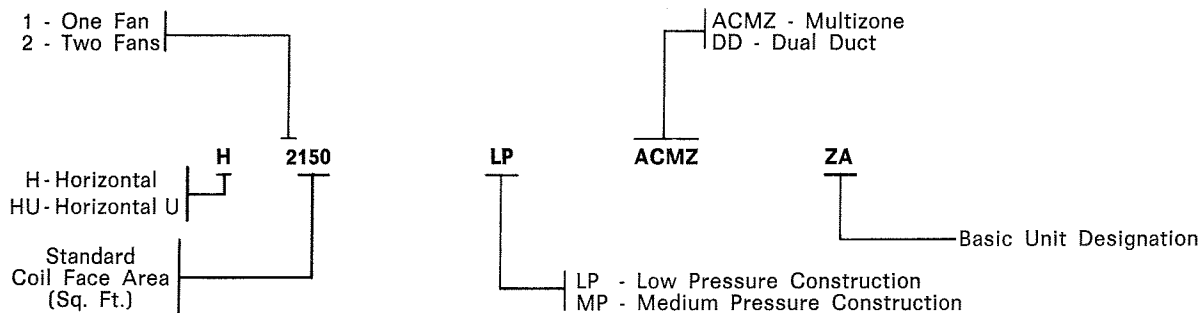
MIXING BOXES

For use where a mixture of ventilation air and recirculated air is to be introduced to the unit. This section uses two sets of multi-leaf, opposed-acting blade dampers inter-connected so that when one set is wide open the other set is fully closed. The damper section is sized so that the full air volume handled by the unit will pass through one set of dampers without excessive air velocity. All damper blades are linked together and may be controlled from a single rod extended from either the right or left side of the unit cabinet.

The standard mixing damper section can also accommodate either the flat or angle bank unit filters to form a combination mixing damper and filter section. A special mixing damper section is not required because of the large area designed into the standard section for thorough mixing of the two air streams. See Ordering Information, page 15, for details regarding inlet location combinations.

NOMENCLATURE

The unit model must be specified using the following designations:



FAN AND MOTOR SELECTION

AIR RESISTANCE

Following selection of the cooling coil, heating coil and accessories, the fan speed (RPM) and motor horsepower requirement (BHP) must be determined. Before using the Fan Performance Tables, the total resistance to airflow (total static pressure or T.S.P.) must be determined. Adding the complete unit air resistance to the distribution duct resistance (external static pressure or E.S.P.) provides the system T.S.P. For a Multi-Zone unit the total CFM handled by the fan should equal the sum total of the individual zones.

All unit components have air resistance, including cabinet, coils, filters and any other accessories such as mixing box dampers or preheat coil: refer to Air Resistance, Table 4. In addition, a cooling coil that is dehumidifying has an increased resistance due to moisture on the coil surface: refer to Chart 1 for correction factor to be applied to dry coil resistance.

Coil SH Factor = $\frac{\text{Dry Bulb Entering Air} - \text{Dry Bulb Leaving Air}}{\text{Enthalpy Entering Air} - \text{Enthalpy Leaving Air}} \times .241$

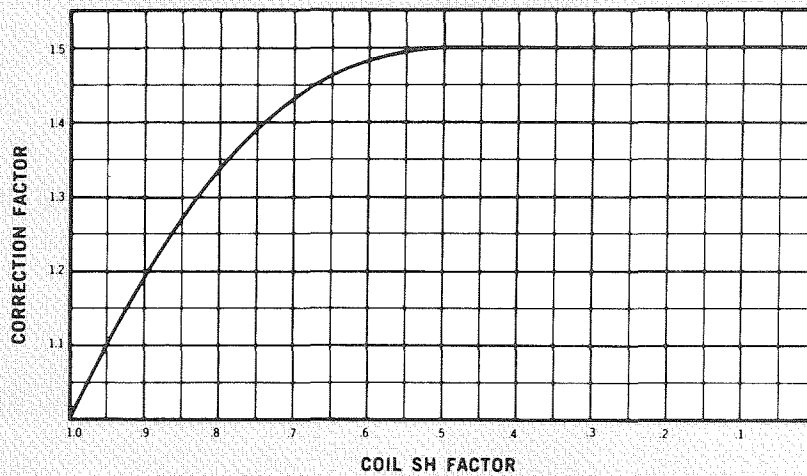
If coil SH factor is unknown, use a correction factor of 1.34.

The Air Resistance Table is based on coil face velocity: $\frac{\text{Total CFM}}{\text{CFA}}$

It is necessary to use the coil face velocity of a standard area cooling coil when calculating cabinet, filter, and accessory resistances. For coils, the actual coil face velocity of each separate coil is used to calculate resistance; since heating and cooling coils are of different areas, each is calculated as a separate item (assuming all air passing through both coils) and the greater resistance is used to calculate the unit internal resistance. This difference in air resistance between the hot and cold decks often requires the addition of a balance plate (perforated metal baffle). Selection, location and installation of the balance plate is made by the Factory (at no extra cost) when required to provide delivery of the same CFM on both heating and cooling cycles.

NOTE: When a preheat coil is used, its air resistance is always added to the unit air resistance.

Knowing the unit size, CFM and T.S.P., enter the Fan Performance Tables for fan RPM and BHP. Note: Fan Performance Tables are for low and medium pressure, forward curved wheels; if backwardly inclined fan wheels are desired, contact the Factory for complete information.



**CHART 1:
AIR FRICTION
CORRECTION
FACTOR
FOR WET COILS**

**TABLE 4 -
AIR RESISTANCE — IN. WG**

| Coil Face Velocity (FPM) | Direct Expansion, Water, and Standard Steam (Dry Coils) | | | | | | | | | | | | | | | | Steam Distributing Coils | | | | | | Cabinet | | Unit Filters | | | | Automatic Filters | | | | | | | |
|--------------------------|---|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|-------|-------|--------------------------|--------|---------|-----------------|-------|-----------------|---------|-----------------|--------------|-----------------|------|--------------|-------------------|--------------|------------------|--------------------|-----------|--------------|------------------|--------------------|
| | 8 FPI | | | | | | 11 FPI | | | | | | 14 FPI | | | | | | One Row | | | | | | Multi-Zone | Dual Duct | Flat | | | Angle | Bank | Roll-O-Matic | Rollotron | Electro Cell | Face and By-Pass | Mixing Box Dampers |
| | No. of Rows | | No. of Rows | | No. of Rows | | No. of Rows | | No. of Rows | | No. of Rows | | No. of Rows | | 4 FPI | 6 FPI | 8 FPI | 10 FPI | 12 FPI | AG Renew. Poly. | HV2 | AG Renew. Poly. | HV2 | | | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 6 | 8 | 1 | 2 | 3 | 4 | 6 | 8 | 1 | 2 | 3 | 4 | 6 | 8 | 4 FPI | 6 FPI | 8 FPI | 10 FPI | 12 FPI | AG Renew. Poly. | HV2 | AG Renew. Poly. | HV2 | Roll-O-Matic | Rollotron | Electro Cell | Face and By-Pass | Mixing Box Dampers | | | | |
| 300 | .04 | .08 | .10 | .13 | .18 | .23 | .06 | .10 | .13 | .18 | .24 | .31 | .04 | .12 | .17 | .21 | .28 | .36 | .04 | .05 | .06 | .07 | .08 | .16 | .02 | .08 | .02 | .06 | .02 | .35 | .40 | .10 | .03 | .02 | | |
| 400 | .08 | .12 | .17 | .22 | .31 | .40 | .10 | .16 | .22 | .28 | .41 | .53 | .13 | .20 | .27 | .34 | .47 | .61 | .06 | .08 | .10 | .11 | .13 | .29 | .04 | .12 | .04 | .08 | .03 | .35 | .40 | .16 | .05 | .04 | | |
| 500 | .12 | .19 | .26 | .32 | .45 | .59 | .15 | .24 | .33 | .42 | .61 | .78 | .19 | .30 | .41 | .52 | .73 | .93 | .09 | .12 | .14 | .17 | .19 | .42 | .06 | .16 | .06 | .10 | .04 | .35 | .40 | .23 | .07 | .06 | | |
| 600 | .17 | .26 | .35 | .44 | .63 | .81 | .21 | .33 | .47 | .59 | .85 | 1.11 | .26 | .41 | .56 | .71 | 1.00 | 1.29 | .13 | .17 | .20 | .23 | .26 | .56 | .09 | .20 | .09 | .13 | .05 | .35 | .40 | .30 | .10 | .09 | | |
| 700 | .22 | .34 | .47 | .59 | .84 | 1.08 | .28 | .45 | .62 | .79 | 1.13 | 1.47 | .34 | .54 | .74 | .93 | 1.33 | 1.73 | .17 | .23 | .27 | .31 | .35 | .82 | .12 | .25 | .11 | .15 | .06 | .35 | — | .39 | .14 | .12 | | |
| 800 | .27 | .42 | .58 | .74 | — | — | .36 | .58 | .79 | 1.00 | — | — | .43 | .69 | .93 | 1.19 | — | — | .22 | .29 | .34 | .39 | .45 | — | — | — | — | — | — | — | — | — | — | — | | |
| 900 | .33 | .53 | .72 | .92 | — | — | .43 | .70 | .96 | 1.22 | — | — | .53 | .84 | 1.15 | 1.46 | — | — | .27 | .36 | .42 | .48 | .56 | — | — | — | — | — | — | — | — | — | — | — | | |
| 1000 | .40 | .63 | .88 | 1.12 | — | — | .52 | .83 | 1.13 | 1.43 | — | — | .68 | 1.03 | 1.41 | 1.78 | — | — | .32 | .43 | .51 | .59 | .68 | — | — | — | — | — | — | — | — | — | — | — | | |
| 1100 | .47 | .73 | 1.06 | 1.34 | — | — | .63 | .96 | 1.31 | 1.64 | — | — | .83 | 1.23 | 1.70 | 2.13 | — | — | .38 | .51 | .60 | .70 | .80 | — | — | — | — | — | — | — | — | — | — | — | | |
| 1200 | .55 | .85 | 1.25 | 1.59 | — | — | .74 | 1.10 | 1.49 | 1.86 | — | — | .98 | 1.44 | 2.02 | 2.53 | — | — | .45 | .60 | .71 | .81 | .93 | — | — | — | — | — | — | — | — | — | — | — | | |

1. Coil areas shown on page 7.
2. Cooling coil face velocity should not exceed 600 FPM when coil is dehumidifying. Refer to Chart 1 for factor for increased resistance due to wet coil.
3. Air filter resistance shown is approximate for ease of selection. Should greater accuracy be required, determine exact filter face velocity (areas shown on page 7) and refer to appropriate filter bulletin.

FAN PERFORMANCE TABLES

Low Pressure (.25" T.S.P. - 3.0" T.S.P.)

UNIT SIZE 1039 (ONE 10" WHEEL - DWDI FORWARD CURVED; OUTLET AREA = 1.225 SQ. FT.)

| CFM Std. Air | Fan Outlet Vel. | TOTAL STATIC PRESSURE | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|-----------------|-----------------------|-----|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 0.25 | | 0.50 | | 0.75 | | 1.00 | | 1.25 | | 1.50 | | 1.75 | | 2.00 | | 2.25 | | 2.50 | | 2.75 | | 3.00 | |
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 1200 | 980 | 530 | .18 | 702 | .25 | 844 | .34 | 976 | .43 | 1094 | .51 | 1203 | .59 | 1304 | .66 | 1400 | .78 | 1500 | .90 | 1576 | 1.02 | 1652 | 1.13 | 1724 | 1.23 |
| 1400 | 1140 | 562 | .22 | 717 | .29 | 847 | .38 | 970 | .47 | 1085 | .56 | 1190 | .64 | 1290 | .72 | 1385 | .84 | 1476 | .97 | 1561 | 1.11 | 1640 | 1.23 | 1712 | 1.35 |
| 1600 | 1305 | 599 | .27 | 739 | .34 | 859 | .43 | 973 | .52 | 1082 | .62 | 1183 | .71 | 1279 | .79 | 1372 | .91 | 1461 | 1.05 | 1546 | 1.20 | 1625 | 1.34 | 1698 | 1.46 |
| 1800 | 1470 | 640 | .32 | 770 | .42 | 880 | .50 | 990 | .60 | 1090 | .70 | 1185 | .80 | 1276 | .90 | 1366 | 1.00 | 1450 | 1.15 | 1535 | 1.30 | 1615 | 1.45 | 1685 | 1.60 |
| 2000 | 1635 | 680 | .38 | 797 | .49 | 901 | .57 | 1002 | .68 | 1099 | .78 | 1188 | .89 | 1273 | .99 | 1360 | 1.11 | 1443 | 1.26 | 1524 | 1.41 | 1601 | 1.57 | 1672 | 1.72 |
| 2200 | 1795 | 720 | .45 | 830 | .56 | 930 | .69 | 1025 | .78 | 1120 | .88 | 1205 | .97 | 1282 | 1.10 | 1360 | 1.27 | 1440 | 1.40 | 1520 | 1.53 | 1600 | 1.68 | 1665 | 1.80 |
| 2400 | 1960 | 763 | .56 | 864 | .68 | 960 | .79 | 1051 | .90 | 1136 | 1.02 | 1215 | 1.16 | 1293 | 1.27 | 1372 | 1.41 | 1449 | 1.56 | 1523 | 1.71 | 1600 | 1.88 | 1662 | 2.04 |
| 2800 | 2285 | 850 | .80 | 940 | .94 | 1028 | 1.07 | 1111 | 1.20 | 1187 | 1.37 | 1260 | 1.52 | 1332 | 1.67 | 1404 | 1.81 | 1475 | 1.96 | 1544 | 2.13 | 1610 | 2.29 | 1672 | 2.46 |

UNIT SIZE 2060 (TWO 9 1/2" WHEELS - DWDI FORWARD CURVED; OUTLET AREA = 1.86 SQ. FT.)

| CFM Std. Air | Fan Outlet Vel. | TOTAL STATIC PRESSURE | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|-----------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 0.25 | | 0.50 | | 0.75 | | 1.00 | | 1.25 | | 1.50 | | 1.75 | | 2.00 | | 2.25 | | 2.50 | | 2.75 | | 3.00 | |
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 1800 | 965 | 603 | .26 | 799 | .40 | 968 | .50 | 1121 | .62 | 1259 | .74 | 1381 | .88 | 1500 | 1.02 | 1600 | 1.16 | 1700 | 1.32 | 1786 | 1.46 | 1871 | 1.60 | 1952 | 1.72 |
| 2100 | 1125 | 630 | .36 | 811 | .46 | 969 | .56 | 1115 | .70 | 1250 | .84 | 1371 | .98 | 1483 | 1.12 | 1588 | 1.28 | 1686 | 1.50 | 1779 | 1.60 | 1865 | 1.76 | 1948 | 1.92 |
| 2400 | 1287 | 662 | .40 | 830 | .52 | 978 | .64 | 1115 | .78 | 1244 | .92 | 1363 | 1.10 | 1474 | 1.24 | 1578 | 1.42 | 1677 | 1.60 | 1769 | 1.76 | 1857 | 1.94 | 1941 | 2.10 |
| 2700 | 1447 | 700 | .49 | 856 | .62 | 995 | .75 | 1122 | .90 | 1247 | 1.05 | 1362 | 1.23 | 1470 | 1.39 | 1572 | 1.57 | 1670 | 1.76 | 1760 | 1.91 | 1848 | 2.12 | 1932 | 2.30 |
| 3000 | 1610 | 735 | .58 | 882 | .72 | 1012 | .86 | 1133 | 1.02 | 1249 | 1.18 | 1361 | 1.36 | 1466 | 1.54 | 1566 | 1.72 | 1661 | 1.92 | 1751 | 2.10 | 1839 | 2.30 | 1923 | 2.50 |
| 3300 | 1769 | 775 | .71 | 914 | .85 | 1037 | 1.02 | 1150 | 1.18 | 1263 | 1.35 | 1370 | 1.54 | 1471 | 1.72 | 1568 | 1.86 | 1660 | 2.06 | 1748 | 2.31 | 1835 | 2.52 | 1918 | 2.73 |
| 3600 | 1930 | 816 | .84 | 947 | .98 | 1063 | 1.18 | 1170 | 1.34 | 1277 | 1.52 | 1379 | 1.72 | 1477 | 1.90 | 1570 | 2.10 | 1659 | 2.30 | 1746 | 2.52 | 1830 | 2.74 | 1912 | 2.96 |
| 4200 | 2250 | 903 | 1.14 | 1020 | 1.36 | 1125 | 1.56 | 1224 | 1.74 | 1323 | 1.96 | 1417 | 2.16 | 1507 | 2.38 | 1600 | 2.58 | 1675 | 2.80 | 1755 | 3.00 | 1835 | 3.24 | 1914 | 3.50 |

UNIT SIZE 2083 (TWO 10" WHEELS - DWDI FORWARD CURVED; OUTLET AREA = 2.45 SQ. FT.)

| CFM Std. Air | Fan Outlet Vel. | TOTAL STATIC PRESSURE | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|-----------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 0.25 | | 0.50 | | 0.75 | | 1.00 | | 1.25 | | 1.50 | | 1.75 | | 2.00 | | 2.25 | | 2.50 | | 2.75 | | 3.00 | |
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 2800 | 1140 | 562 | .44 | 717 | .58 | 847 | .76 | 970 | .94 | 1085 | 1.12 | 1190 | 1.28 | 1290 | 1.44 | 1385 | 1.68 | 1476 | 1.94 | 1561 | 2.22 | 1640 | 2.06 | 1712 | 2.70 |
| 3200 | 1310 | 599 | .54 | 739 | .68 | 859 | .86 | 973 | 1.04 | 1082 | 1.24 | 1183 | 1.42 | 1279 | 1.58 | 1372 | 1.82 | 1461 | 2.10 | 1546 | 2.40 | 1625 | 2.68 | 1698 | 2.92 |
| 3600 | 1470 | 639 | .64 | 766 | .82 | 877 | .98 | 985 | 1.18 | 1087 | 1.38 | 1182 | 1.58 | 1273 | 1.76 | 1363 | 2.00 | 1449 | 2.28 | 1532 | 2.60 | 1612 | 2.90 | 1684 | 3.16 |
| 4000 | 1633 | 681 | .78 | 798 | 1.00 | 905 | 1.15 | 1005 | 1.37 | 1100 | 1.58 | 1190 | 1.80 | 1277 | 2.00 | 1363 | 2.25 | 1446 | 2.53 | 1526 | 2.85 | 1604 | 3.15 | 1675 | 3.50 |
| 4400 | 1800 | 722 | .92 | 830 | 1.16 | 929 | 1.34 | 1025 | 1.56 | 1115 | 1.78 | 1199 | 2.02 | 1280 | 2.24 | 1363 | 2.50 | 1443 | 2.78 | 1521 | 3.10 | 1596 | 3.43 | 1665 | 3.74 |
| 4800 | 1960 | 764 | 1.14 | 865 | 1.38 | 961 | 1.59 | 1050 | 1.85 | 1137 | 2.07 | 1220 | 2.25 | 1295 | 2.60 | 1375 | 2.85 | 1450 | 3.14 | 1526 | 3.46 | 1598 | 3.78 | 1665 | 4.10 |
| 5200 | 2120 | 806 | 1.36 | 901 | 1.60 | 993 | 1.84 | 1080 | 2.08 | 1160 | 2.36 | 1236 | 2.66 | 1310 | 2.92 | 1386 | 3.20 | 1460 | 3.50 | 1531 | 3.82 | 1601 | 4.14 | 1665 | 4.48 |
| 6000 | 2450 | 895 | 1.88 | 981 | 2.20 | 1065 | 2.46 | 1143 | 2.80 | 1217 | 3.16 | 1286 | 3.50 | 1357 | 3.80 | 1427 | 4.10 | 1495 | 4.42 | 1561 | 4.74 | 1624 | 5.08 | 1683 | 5.42 |

UNIT SIZE 2100 (TWO 12 1/4" WHEELS - DWDI FORWARD CURVED; OUTLET AREA = 3.45 SQ. FT.)

| CFM Std. Air | Fan Outlet Vel. | TOTAL STATIC PRESSURE | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|-----------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 0.25 | | 0.50 | | 0.75 | | 1.00 | | 1.25 | | 1.50 | | 1.75 | | 2.00 | | 2.25 | | 2.50 | | 2.75 | | 3.00 | |
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 3000 | 870 | 431 | .34 | 575 | .54 | 700 | .74 | 820 | .90 | 922 | 1.12 | 1017 | 1.34 | 1095 | 1.60 | 1189 | 1.84 | 1255 | 2.08 | 1317 | 2.30 | 1377 | 2.52 | 1436 | 2.76 |
| 3500 | 1015 | 450 | .42 | 582 | .62 | 703 | .82 | 813 | .98 | 902 | 1.22 | 995 | 1.44 | 1070 | 1.74 | 1183 | 2.00 | 1251 | 2.28 | 1312 | 2.54 | 1371 | 2.78 | 1430 | 3.04 |
| 4000 | 1160 | 471 | .52 | 595 | .72 | 707 | .92 | 811 | 1.10 | 910 | 1.34 | 992 | 1.56 | 1087 | 1.88 | 1175 | 2.18 | 1244 | 2.48 | 1325 | 2.76 | 1363 | 3.04 | 1421 | 3.34 |
| 4500 | 1304 | 495 | .65 | 615 | .86 | 720 | 1.07 | 817 | 1.26 | 910 | 1.50 | 988 | 1.73 | 1078 | 2.06 | 1166 | 2.40 | 1237 | 2.72 | 1313 | 3.03 | 1355 | 3.34 | 1440 | 3.65 |
| 5000 | 1450 | 520 | .78 | 632 | 1.00 | 732 | 1.22 | 823 | 1.42 | 910 | 1.66 | 984 | 1.90 | 1070 | 2.24 | 1157 | 2.60 | 1230 | 2.96 | 1300 | 3.30 | 1347 | 3.64 | 1402 | 3.96 |
| 5500 | 1594 | 550 | 1.00 | 654 | 1.20 | 750 | 1.42 | 836 | 1.55 | 917 | 1.90 | 994 | 2.15 | 1071 | 2.50 | 1153 | 2.88 | 1225 | 3.27 | 1290 | 3.70 | 1342 | 4.00 | 1396 | 4.35 |
| 6000 | 1740 | 577 | 1.12 | 676 | 1.40 | 768 | 1.62 | 850 | 1.88 | 924 | 2.14 | 1005 | 2.38 | 1072 | 2.76 | 1149 | 3.16 | 1221 | 3.58 | 1281 | 3.96 | 1337 | 4.36 | 1390 | 4.74 |
| 7000 | 2030 | 640 | 1.62 | 727 | 1.90 | 810 | 2.16 | 886 | 2.48 | 955 | 2.76 | 1022 | 3.08 | 1089 | 3.48 | 1156 | 3.92 | 1222 | 4.38 | 1282 | 4.82 | 1337 | 5.26 | 1389 | 5.68 |

UNIT SIZE 2125 (TWO 15" WHEELS - DWDI FORWARD CURVED; OUTLET AREA = 4.02 SQ. FT.)

| CFM Std. Air | Fan Outlet Vel. | TOTAL STATIC PRESSURE | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|-----------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 0.25 | | 0.50 | | 0.75 | | 1.00 | | 1.25 | | 1.50 | | 1.75 | | 2.00 | | 2.25 | | 2.50 | | 2.75 | | 3.00 | |
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 3750 | 935 | 352 | .36 | 483 | .58 | 598 | .82 | 701 | 1.06 | 786 | 1.26 | 864 | 1.44 | 934 | 1.66 | 1000 | 2.00 | 1057 | 2.38 | 1114 | 2.76 | 1169 | 3.08 | 1222 | 3.42 |
| 4400 | 1100 | 361 | .44 | 485 | .68 | 592 | .94 | 691 | 1.20 | 777 | 1.44 | 855 | 1.66 | 926 | 1.90 | 1000 | 2.26 | 1050 | 2.66 | 1107 | 3.08 | 1164 | 3.44 | 1218 | 3.80 |
| 5000 | 1245 | 373 | .54 | 490 | .80 | 590 | 1.08 | 684 | 1.34 | 769 | 1.62 | 847 | 1.86 | 917 | 2.12 | 981 | 2.50 | 1042 | 2.92 | 1110 | 3.38 | 1156 | 3.88 | 1211 | 4.16 |
| 5600 | 1393 | 390 | .67 | 500 | .95 | 593 | 1.24 | 682 | 1.52 | 760 | 1.85 | 840 | 2.10 | 910 | 2.37 | 975 | 2.80 | 1033 | 3.25 | 1095 | 3.75 | 1146 | 4.17 | 1200 | 4.56 |
| 6250 | 1550 | 406 | .80 | 509 | 1.10 | 596 | 1.40 | 680 | 1.70 | 759 | 2.02 | 833 | 2.34 | 902 | 2.62 | 965 | 3.04 | 1024 | 3.50 | 1080 | 4.00 | 1136 | 4.46 | 1191 | 4.92 |
| 6900 | 1716 | 427 | 1.00 | 523 | 1.30 | 605 | 1.63 | 684 | 1.93 | 760 | 2.28 | 832 | 2.63 | 900 | 2.94 | 960 | 3.40 | 1020 | 3.85 | 1074 | 4.36 | 1128 | 4.85 | 1182 | 5.32 |
| 7500 | 1870 | 447 | 1.16 | 536 | 1.48 | 614 | 1.84 | 688 | 2.14 | 761 | 2.52 | 830 | 2.90 | 896 | 3.24 | 955 | 3.70 | 1012 | 4.18 | 1067 | 4.70 | 1120 | 5.22 | 1174 | 5.72 |
| 8750 | 2180 | 493 | 1.62 | 568 | 2.00 | 640 | 2.38 | 707 | 2.72 | 775 | 3.14 | 839 | 3.56 | 900 | 3.98 | 956 | 4.46 | 1010 | 4.98 | 1062 | 5.54 | 1112 | 6.10 | 1163 | 6.64 |

UNIT SIZE 2150 (TWO 15" WHEELS - DWDI FORWARD CURVED; OUTLET AREA = 4.88 SQ. FT.)

| CFM Std. Air | Fan Outlet Vel. | TOTAL STATIC PRESSURE | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|-----------------|-----------------------|-----|------|-----|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|--------|-----|------|-----|------|-----|
| | | 0.25 | | 0.50 | | 0.75 | | 1.00 | | 1.25 | | 1.50 | | 1.75 | | 2.00 | | 2.25 | | 2.50 | | 2.75 | | 3.00 | |
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 4500 | 920 | 363 | .46 | 485 | .70 | 591 | .96 | 690 | 1.22 | 776 | 1.48 | 854 | 1.68 | 924 | 1.92 | 989 | 2.30 | 1049 | 2.70 | 1106</ | | | | | |

FAN PERFORMANCE TABLES

Low Pressure (.25" T.S.P.-3.0" T.S.P.)

UNIT SIZE 2182 (TWO 18" WHEELS - DWDI FORWARD CURVED; OUTLET AREA = 5.73 SQ. FT.)

| CFM Std. Air | Fan Outlet Vel. | TOTAL STATIC PRESSURE | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|-----------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| | | 0.25 | | 0.50 | | 0.75 | | 1.00 | | 1.25 | | 1.50 | | 1.75 | | 2.00 | | 2.25 | | 2.50 | | 2.75 | | 3.00 | |
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 5250 | 916 | 295 | .42 | 419 | .82 | 516 | 1.10 | 601 | 1.48 | 672 | 1.86 | 735 | 2.24 | 800 | 2.60 | 850 | 3.00 | 900 | 3.60 | 950 | 4.00 | 995 | 4.40 | 1030 | 5.20 |
| 6250 | 1090 | 309 | .56 | 417 | .96 | 509 | 1.28 | 595 | 1.72 | 667 | 2.14 | 731 | 2.56 | 800 | 3.00 | 850 | 3.50 | 905 | 4.00 | 950 | 4.40 | 1000 | 5.00 | 1040 | 5.50 |
| 7250 | 1265 | 323 | .74 | 421 | 1.16 | 506 | 1.48 | 589 | 1.96 | 661 | 2.44 | 726 | 2.90 | 785 | 3.34 | 841 | 3.82 | 902 | 4.32 | 942 | 4.86 | 989 | 5.42 | 1034 | 5.98 |
| 8250 | 1440 | 340 | .98 | 430 | 1.42 | 510 | 1.78 | 588 | 2.28 | 658 | 2.80 | 720 | 3.30 | 780 | 3.77 | 833 | 4.32 | 891 | 4.76 | 936 | 5.43 | 985 | 6.00 | 1030 | 6.60 |
| 9250 | 1615 | 357 | 1.22 | 440 | 1.68 | 514 | 2.08 | 587 | 2.60 | 654 | 3.14 | 716 | 3.66 | 775 | 4.20 | 825 | 4.80 | 880 | 5.20 | 930 | 6.00 | 980 | 6.60 | 1025 | 7.20 |
| 10250 | 1789 | 376 | 1.61 | 453 | 2.04 | 524 | 2.50 | 592 | 3.05 | 656 | 3.59 | 716 | 4.14 | 773 | 4.70 | 820 | 5.40 | 873 | 5.80 | 925 | 6.60 | 972 | 7.20 | 1015 | 8.80 |
| 11250 | 1965 | 394 | 1.90 | 466 | 2.40 | 533 | 2.90 | 598 | 3.46 | 658 | 4.04 | 716 | 4.62 | 770 | 5.20 | 815 | 6.00 | 865 | 6.40 | 920 | 7.20 | 965 | 7.80 | 1005 | 9.40 |
| 13500 | 2360 | 433 | 2.86 | 500 | 3.46 | 563 | 4.08 | 621 | 4.70 | 675 | 5.36 | 727 | 6.00 | 778 | 6.66 | 827 | 7.30 | 876 | 8.00 | 922 | 8.64 | 967 | 9.42 | 1000 | 10.00 |

UNIT SIZE 2225 (TWO 18 1/4" WHEELS - DWDI FORWARD CURVED; OUTLET AREA = 6.88 SQ. FT.)

| CFM Std. Air | Fan Outlet Vel. | TOTAL STATIC PRESSURE | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|-----------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|-------|------|-------|
| | | 0.25 | | 0.50 | | 0.75 | | 1.00 | | 1.25 | | 1.50 | | 1.75 | | 2.00 | | 2.25 | | 2.50 | | 2.75 | | 3.00 | |
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 6000 | 872 | 306 | .52 | 417 | .92 | 510 | 1.22 | 596 | 1.66 | 668 | 2.06 | 732 | 2.48 | 791 | 2.88 | 845 | 3.32 | 906 | 3.76 | 944 | 4.26 | 1000 | 4.76 | 1034 | 5.26 |
| 7250 | 1050 | 323 | .74 | 421 | 1.16 | 506 | 1.48 | 589 | 1.96 | 661 | 2.44 | 726 | 2.90 | 785 | 3.34 | 841 | 3.82 | 902 | 4.32 | 942 | 4.86 | 989 | 5.42 | 1034 | 5.98 |
| 8500 | 1235 | 343 | 1.02 | 431 | 1.46 | 509 | 1.82 | 586 | 2.34 | 655 | 2.84 | 719 | 3.36 | 778 | 3.86 | 834 | 4.38 | 887 | 4.90 | 937 | 5.50 | 984 | 6.10 | 1030 | 6.72 |
| 9750 | 1417 | 366 | 1.40 | 447 | 1.90 | 520 | 2.30 | 591 | 2.84 | 656 | 3.37 | 717 | 3.92 | 775 | 4.46 | 829 | 5.02 | 881 | 5.60 | 931 | 6.20 | 978 | 6.90 | 1024 | 7.52 |
| 11000 | 1600 | 389 | 1.80 | 463 | 2.30 | 530 | 2.78 | 596 | 3.34 | 657 | 3.90 | 715 | 4.48 | 771 | 5.06 | 824 | 5.66 | 876 | 6.24 | 925 | 6.90 | 972 | 7.60 | 1018 | 8.32 |
| 12250 | 1781 | 410 | 2.35 | 482 | 2.90 | 546 | 3.43 | 610 | 4.02 | 666 | 4.63 | 721 | 5.24 | 775 | 5.86 | 826 | 6.64 | 876 | 7.10 | 924 | 7.77 | 970 | 8.50 | 1011 | 9.30 |
| 13500 | 1960 | 433 | 2.86 | 500 | 3.46 | 563 | 4.08 | 621 | 4.70 | 675 | 5.36 | 727 | 6.00 | 778 | 6.66 | 827 | 7.30 | 876 | 7.94 | 922 | 8.64 | 967 | 9.42 | 1004 | 10.22 |
| 16000 | 2320 | 475 | 4.20 | 542 | 4.98 | 601 | 5.74 | 654 | 6.50 | 703 | 7.22 | 751 | 7.96 | 800 | 8.68 | 843 | 9.40 | 888 | 10.10 | 931 | 10.88 | 972 | 11.72 | 1013 | 12.58 |

UNIT SIZE 2270 (TWO 20" WHEELS - DWDI FORWARD CURVED; OUTLET AREA = 8.35 SQ. FT.)

| CFM Std. Air | Fan Outlet Vel. | TOTAL STATIC PRESSURE | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|-----------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|-------|------|-------|------|-------|
| | | 0.25 | | 0.50 | | 0.75 | | 1.00 | | 1.25 | | 1.50 | | 1.75 | | 2.00 | | 2.25 | | 2.50 | | 2.75 | | 3.00 | |
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 9000 | 1080 | 268 | .74 | 360 | 1.19 | 445 | 1.69 | 520 | 2.23 | 587 | 2.81 | 648 | 3.43 | 703 | 4.08 | 753 | 4.76 | 800 | 5.47 | 844 | 6.21 | 886 | 6.97 | 925 | 7.76 |
| 10250 | 1230 | 283 | .95 | 362 | 1.44 | 442 | 1.98 | 514 | 2.56 | 581 | 3.17 | 641 | 3.83 | 697 | 4.51 | 748 | 5.22 | 797 | 5.97 | 842 | 6.74 | 884 | 7.53 | 924 | 8.35 |
| 11500 | 1380 | 301 | 1.22 | 369 | 1.74 | 441 | 2.31 | 510 | 2.93 | 575 | 3.59 | 635 | 4.27 | 690 | 4.99 | 742 | 5.74 | 791 | 6.52 | 837 | 7.32 | 880 | 8.15 | 921 | 9.00 |
| 12750 | 1530 | 320 | 1.54 | 380 | 2.09 | 445 | 2.71 | 509 | 3.36 | 571 | 4.06 | 629 | 4.78 | 684 | 5.54 | 736 | 6.32 | 784 | 7.13 | 831 | 7.97 | 874 | 8.83 | 916 | 9.71 |
| 14000 | 1680 | 340 | 1.92 | 394 | 2.51 | 451 | 3.16 | 511 | 3.86 | 569 | 4.58 | 626 | 5.35 | 679 | 6.14 | 730 | 6.96 | 778 | 7.81 | 824 | 8.68 | 868 | 9.57 | 910 | 10.49 |
| 15250 | 1830 | 358 | 2.37 | 410 | 2.99 | 461 | 3.68 | 516 | 4.41 | 570 | 5.18 | 624 | 5.98 | 675 | 6.81 | 725 | 7.67 | 772 | 8.55 | 818 | 9.46 | 861 | 10.39 | 903 | 11.35 |
| 16500 | 1980 | 374 | 2.89 | 429 | 3.55 | 474 | 4.27 | 524 | 5.04 | 574 | 5.85 | 625 | 6.69 | 674 | 7.55 | 722 | 8.45 | 768 | 9.37 | 812 | 10.31 | 855 | 11.28 | 897 | 12.27 |
| 19000 | 2280 | 402 | 4.13 | 469 | 4.92 | 507 | 5.70 | 547 | 6.53 | 590 | 7.42 | 634 | 8.33 | 678 | 9.28 | 721 | 10.25 | 764 | 11.25 | 806 | 12.27 | 847 | 13.31 | 887 | 14.38 |

UNIT SIZE 2315 (TWO 22 1/4" WHEELS - DWDI FORWARD CURVED; OUTLET AREA = 10.18 SQ. FT.)

| CFM Std. Air | Fan Outlet Vel. | TOTAL STATIC PRESSURE | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|-----------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|
| | | 0.25 | | 0.50 | | 0.75 | | 1.00 | | 1.25 | | 1.50 | | 1.75 | | 2.00 | | 2.25 | | 2.50 | | 2.75 | | 3.00 | |
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 10000 | 970 | 235 | .76 | 324 | 1.28 | 403 | 1.86 | 471 | 2.49 | 531 | 3.18 | 585 | 3.90 | 634 | 4.67 | 678 | 5.48 | 720 | 6.32 | 759 | 7.19 | 795 | 8.10 | 830 | 9.04 |
| 11500 | 1120 | 245 | .98 | 324 | 1.55 | 399 | 2.17 | 466 | 2.85 | 526 | 3.57 | 580 | 4.34 | 630 | 5.15 | 676 | 5.99 | 718 | 6.87 | 758 | 7.78 | 796 | 8.73 | 831 | 9.70 |
| 13000 | 1270 | 259 | 1.26 | 327 | 1.87 | 396 | 2.54 | 461 | 3.26 | 520 | 4.03 | 574 | 4.84 | 624 | 5.69 | 671 | 6.57 | 714 | 7.49 | 755 | 8.44 | 794 | 9.42 | 830 | 10.44 |
| 14500 | 1420 | 276 | 1.60 | 334 | 2.25 | 397 | 2.96 | 458 | 3.73 | 515 | 4.55 | 569 | 5.40 | 619 | 6.29 | 665 | 7.21 | 709 | 8.17 | 750 | 9.16 | 789 | 10.19 | 827 | 11.24 |
| 16000 | 1570 | 293 | 2.01 | 345 | 2.69 | 401 | 3.46 | 458 | 4.27 | 513 | 5.13 | 564 | 6.03 | 613 | 6.96 | 660 | 7.93 | 703 | 8.93 | 745 | 9.96 | 784 | 11.03 | 822 | 12.12 |
| 17500 | 1720 | 310 | 2.49 | 358 | 3.21 | 408 | 4.02 | 460 | 4.88 | 512 | 5.79 | 562 | 6.73 | 609 | 7.71 | 655 | 8.72 | 698 | 9.76 | 739 | 10.84 | 778 | 11.94 | 816 | 13.08 |
| 19000 | 1870 | 326 | 3.05 | 373 | 3.82 | 418 | 4.67 | 465 | 5.57 | 513 | 6.52 | 561 | 7.51 | 606 | 8.54 | 651 | 9.59 | 693 | 10.68 | 734 | 11.80 | 773 | 12.95 | 810 | 14.12 |
| 22000 | 2160 | 352 | 4.42 | 408 | 5.31 | 444 | 6.23 | 483 | 7.22 | 524 | 8.26 | 565 | 9.34 | 607 | 10.46 | 648 | 11.61 | 687 | 12.79 | 726 | 14.01 | 764 | 15.23 | 800 | 16.51 |

UNIT SIZE 2390 (TWO 24 1/2" WHEELS - DWDI FORWARD CURVED; OUTLET AREA = 12.46 SQ. FT.)

| CFM Std. Air | Fan Outlet Vel. | TOTAL STATIC PRESSURE | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|-----------------|-----------------------|------|------|------|------|------|------|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|
| | | 0.25 | | 0.50 | | 0.75 | | 1.00 | | 1.25 | | 1.50 | | 1.75 | | 2.00 | | 2.25 | | 2.50 | | 2.75 | | 3.00 | |
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 13000 | 1040 | 210 | .94 | 287 | 1.65 | 355 | 2.41 | 414 | 3.23 | 465 | 4.09 | 511 | 5.01 | 553 | 5.97 | 592 | 6.91 | 628 | 8.02 | 661 | 9.12 | 693 | 10.24 | 722 | 11.41 |
| 15000 | 1200 | 219 | 1.19 | 288 | 1.99 | 353 | 2.83 | 410 | 3.71 | 462 | 4.65 | 508 | 5.62 | 551 | 6.64 | 590 | 7.70 | 627 | 8.81 | 662 | 9.95 | 694 | 11.13 | 725 | 12.34 |
| 17000 | 1360 | 230 | 1.51 | 292 | 2.36 | 352 | 3.31 | 407 | 4.26 | 458 | 5.27 | 505 | 6.31 | 548 | 7.39 | 588 | 8.52 | 625 | 9.68 | 660 | 10.88 | 693 | 12.11 | 725 | 13.38 |
| 19000 | 1530 | 244 | 1.89 | 299 | 2.81 | 354 | 3.82 | 407 | 4.87 | 456 | 5.95 | 501 | 7.07 | 544 | 8.23 | 584 | 9.41 | 621 | 10.64 | 657 | 11.91 | 691 | 13.19 | 722 | 14.52 |
| 21000 | 1690 | 257 | 2.39 | 309 | 3.30 | 359 | 4.41 | 408 | 5.54 | 455 | 6.71 | 499 | 7.91 | 541 | 9.14 | 580 | 10.41 | 618 | 11.69 | 653 | 13.01 | 687 | 14.37 | 719 | 15.76 |
| 23000 | 1850 | 271 | 3.01 | 320 | 3.89 | 366 | 5.05 | 411 | 6.28 | 456 | 7.54 | 498 | 8.82 | 539 | 10.13 | 577 | 11.47 | 614 | 12.83 | 650 | 14.23 | 683 | 15.65 | 716 | 17.10 |
| 25000 | 2010 | 284 | 3.77 | 332 | 4.59 | 374 | 5.78 | 417 | 7.08 | 458 | 8.43 | 499 | 9.81 | 538 | 11.20 | 576 | 12.62 | 612 | 14.05 | 647 | 15.53 | 680 | 16.95 | 712 | 18.55 |
| 29000 | 2330 | 310 | 5.48 | 359 | 6.38 | 397 | 7.56 | 433 | 8.97 | 470 | 10.47 | 506 | 12.02 | 541 | 13.59 | 576 | 15.19 | 610 | 16.80 | 643 | 18.44 | 675 | 20.09 | 706 | 21.77 |

UNIT SIZE 2492 (TWO 27" WHEELS - DWDI FORWARD CURVED; OUTLET AREA = 15.19 SQ. FT.)

| CFM Std. Air | Fan Outlet Vel. | TOTAL STATIC PRESSURE | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|-----------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|------|-----|------|-----|------|-----|------|-----|
| | | 0.25 | | 0.50 | | 0.75 | | 1.00 | | 1.25 | | 1.50 | | 1.75 | | 2.00 | | 2.25 | | 2.50 | | 2.75 | | 3.00 | |
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 15000 | 980 | 188 | 1.05 | 261 | 1.89 | 323 | 2.78 | 376 | 3.75 | 423 | 4.77 | 465 | 5.86 | 502 | 7.01 | 537 | 8.21</ | | | | | | | | |

FAN PERFORMANCE TABLES

Medium Pressure (2.5" T.S.P. - 5.0" T.S.P.)

UNIT SIZE 1039 (ONE 10 1/8" x 8" WHEEL - DWDI FORWARD CURVED; OUTLET AREA = .96 SQ. FT.)

| CFM | Outlet Vel. | TOTAL STATIC PRESSURE | | | | | | | | | | | | | | | | | | | | | |
|------|-------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 2.50 | | 2.75 | | 3.00 | | 3.25 | | 3.50 | | 3.75 | | 4.00 | | 4.25 | | 4.50 | | 4.75 | | 5.00 | |
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 1600 | 1670 | 1506 | 1.08 | 1579 | 1.17 | 1655 | 1.27 | 1728 | 1.37 | 1797 | 1.47 | 1872 | 1.60 | 1945 | 1.74 | 2015 | 1.85 | 2075 | 1.96 | 2136 | 2.07 | 2210 | 2.18 |
| 2000 | 2085 | 1500 | 1.36 | 1566 | 1.46 | 1634 | 1.57 | 1700 | 1.70 | 1762 | 1.82 | 1830 | 1.96 | 1898 | 2.11 | 1962 | 2.24 | 2025 | 2.37 | 2088 | 2.48 | 2147 | 2.59 |
| 2400 | 2500 | 1515 | 1.71 | 1577 | 1.82 | 1637 | 1.93 | 1701 | 2.11 | 1760 | 2.28 | 1818 | 2.42 | 1880 | 2.56 | 1942 | 2.67 | 2000 | 2.79 | 2058 | 2.90 | 2112 | 3.00 |
| 2800 | 2920 | 1542 | 2.17 | 1600 | 2.32 | 1662 | 2.48 | 1719 | 2.56 | 1774 | 2.84 | 1826 | 2.92 | 1882 | 3.00 | 1944 | 3.17 | 2002 | 3.35 | 2046 | 3.52 | 2100 | 3.69 |

UNIT SIZE 2060 (TWO 9 1/2" x 6" WHEELS - DWDI FORWARD CURVED; OUTLET AREA = 1.3 SQ. FT.)

| CFM | Outlet Vel. | TOTAL STATIC PRESSURE | | | | | | | | | | | | | | | | | | | | | |
|------|-------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 2.50 | | 2.75 | | 3.00 | | 3.25 | | 3.50 | | 3.75 | | 4.00 | | 4.25 | | 4.50 | | 4.75 | | 5.00 | |
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 2400 | 1845 | 1700 | 1.70 | 1782 | 1.92 | 1872 | 2.02 | 1955 | 2.42 | 2055 | 2.37 | 2129 | 2.50 | 2195 | 2.68 | 2267 | 2.81 | 2330 | 3.00 | 2400 | 3.21 | 2471 | 3.32 |
| 3000 | 2310 | 1720 | 2.16 | 1795 | 2.32 | 1875 | 2.56 | 1950 | 2.75 | 2030 | 2.86 | 2107 | 3.06 | 2170 | 3.24 | 2229 | 3.46 | 2300 | 3.63 | 2360 | 3.78 | 2428 | 4.00 |
| 3600 | 2770 | 1750 | 2.84 | 1825 | 3.00 | 1902 | 3.22 | 1975 | 3.39 | 2050 | 3.62 | 2110 | 3.78 | 2175 | 4.00 | 2227 | 4.20 | 2287 | 4.36 | 2345 | 4.51 | 2402 | 4.74 |
| 4200 | 3230 | 1813 | 3.75 | 1880 | 4.00 | 1953 | 4.12 | 2015 | 4.25 | 2077 | 4.50 | 2140 | 4.71 | 2197 | 4.93 | 2250 | 5.14 | 2303 | 5.35 | 2355 | 5.51 | 2410 | 5.60 |

UNIT SIZE 2083 (TWO 10 5/8" x 8" WHEELS - DWDI FORWARD CURVED; OUTLET AREA = 1.92 SQ. FT.)

| CFM | Outlet Vel. | TOTAL STATIC PRESSURE | | | | | | | | | | | | | | | | | | | | | |
|------|-------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 2.50 | | 2.75 | | 3.00 | | 3.25 | | 3.50 | | 3.75 | | 4.00 | | 4.25 | | 4.50 | | 4.75 | | 5.00 | |
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 3600 | 1875 | 1500 | 2.44 | 1570 | 2.63 | 1639 | 2.84 | 1711 | 3.07 | 1784 | 3.29 | 1844 | 3.58 | 1916 | 3.87 | 1978 | 4.11 | 2048 | 4.42 | 2115 | 4.60 | 2175 | 4.78 |
| 4400 | 2290 | 1505 | 3.00 | 1573 | 3.26 | 1632 | 3.52 | 1698 | 3.74 | 1760 | 4.00 | 1818 | 4.34 | 1883 | 4.67 | 1945 | 4.93 | 2013 | 5.18 | 2068 | 5.40 | 2124 | 5.59 |
| 5200 | 2710 | 1528 | 3.83 | 1588 | 4.06 | 1645 | 4.41 | 1706 | 4.70 | 1761 | 5.05 | 1819 | 5.31 | 1878 | 5.56 | 1933 | 5.83 | 2000 | 6.00 | 2048 | 6.35 | 2102 | 6.69 |
| 6000 | 3125 | 1562 | 4.94 | 1621 | 5.22 | 1677 | 5.50 | 1733 | 5.76 | 1791 | 6.02 | 1839 | 6.38 | 1896 | 6.74 | 1948 | 7.09 | 2012 | 7.44 | 2066 | 7.76 | 2105 | 8.07 |

UNIT SIZE 2100 (TWO 10 5/8" x 10 5/8" WHEELS - DWDI FORWARD CURVED; OUTLET AREA = 2.42 SQ. FT.)

| CFM | Outlet Vel. | TOTAL STATIC PRESSURE | | | | | | | | | | | | | | | | | | | | | |
|------|-------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| | | 2.50 | | 2.75 | | 3.00 | | 3.25 | | 3.50 | | 3.75 | | 4.00 | | 4.25 | | 4.50 | | 4.75 | | 5.00 | |
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 4000 | 1650 | 1512 | 2.76 | 1590 | 3.00 | 1660 | 3.24 | 1731 | 3.56 | 1804 | 3.88 | 1862 | 4.20 | 1924 | 4.52 | 1986 | 4.80 | 2042 | 5.18 | 2100 | 5.54 | 2165 | 6.04 |
| 5000 | 2060 | 1539 | 3.62 | 1600 | 3.92 | 1661 | 4.20 | 1720 | 4.44 | 1790 | 4.86 | 1845 | 5.22 | 1900 | 5.52 | 1961 | 5.86 | 2020 | 6.20 | 2065 | 6.54 | 2125 | 7.34 |
| 6000 | 2480 | 1563 | 4.76 | 1631 | 5.12 | 1690 | 5.44 | 1739 | 5.80 | 1808 | 6.22 | 1856 | 6.63 | 1914 | 6.94 | 1968 | 7.28 | 2024 | 7.66 | 2070 | 8.08 | 2132 | 8.69 |
| 7000 | 2890 | 1624 | 6.40 | 1680 | 6.74 | 1736 | 7.08 | 1780 | 7.38 | 1842 | 7.82 | 1890 | 8.20 | 1945 | 8.53 | 1995 | 8.95 | 2049 | 9.36 | 2096 | 9.80 | 2138 | 10.30 |

UNIT SIZE 2125 (TWO 12 5/8" x 9 1/2" WHEELS - DWDI FORWARD CURVED; OUTLET AREA = 2.64 SQ. FT.)

| CFM | Outlet Vel. | TOTAL STATIC PRESSURE | | | | | | | | | | | | | | | | | | | | | |
|------|-------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|-------|------|-------|------|-------|
| | | 2.50 | | 2.75 | | 3.00 | | 3.25 | | 3.50 | | 3.75 | | 4.00 | | 4.25 | | 4.50 | | 4.75 | | 5.00 | |
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 5000 | 1890 | 1230 | 3.34 | 1280 | 3.49 | 1330 | 3.64 | 1404 | 3.98 | 1480 | 4.36 | 1529 | 4.98 | 1585 | 5.32 | 1640 | 5.69 | 1700 | 6.20 | 1760 | 6.85 | 1805 | 7.13 |
| 6250 | 2360 | 1239 | 4.21 | 1288 | 4.65 | 1350 | 5.05 | 1400 | 5.36 | 1465 | 5.85 | 1510 | 6.23 | 1560 | 6.65 | 1595 | 6.90 | 1660 | 7.26 | 1705 | 7.70 | 1752 | 8.17 |
| 7500 | 2840 | 1265 | 6.00 | 1312 | 6.36 | 1362 | 6.72 | 1418 | 7.14 | 1470 | 7.48 | 1520 | 7.84 | 1565 | 8.19 | 1607 | 8.60 | 1648 | 9.08 | 1690 | 9.65 | 1738 | 10.12 |
| 8750 | 3310 | 1305 | 7.95 | 1355 | 8.25 | 1400 | 8.66 | 1440 | 9.05 | 1495 | 9.45 | 1522 | 9.83 | 1585 | 10.48 | 1625 | 10.98 | 1660 | 11.27 | 1705 | 11.70 | 1745 | 12.40 |

UNIT SIZE 2150 (TWO 15" x 9 1/2" WHEELS - DWDI FORWARD CURVED; OUTLET AREA = 3.34 SQ. FT.)

| CFM | Outlet Vel. | TOTAL STATIC PRESSURE | | | | | | | | | | | | | | | | | | | | | |
|-------|-------------|-----------------------|------|------|------|------|------|------|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|
| | | 2.50 | | 2.75 | | 3.00 | | 3.25 | | 3.50 | | 3.75 | | 4.00 | | 4.25 | | 4.50 | | 4.75 | | 5.00 | |
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 6000 | 1795 | 1035 | 3.70 | 1085 | 4.01 | 1135 | 4.40 | 1182 | 4.61 | 1231 | 5.00 | 1275 | 5.22 | 1319 | 5.46 | 1372 | 5.96 | 1415 | 6.42 | 1451 | 6.71 | 1495 | 7.12 |
| 7500 | 2245 | 1041 | 4.90 | 1086 | 5.11 | 1131 | 5.61 | 1175 | 5.92 | 1221 | 6.30 | 1262 | 6.57 | 1311 | 7.12 | 1345 | 7.41 | 1385 | 7.72 | 1427 | 8.33 | 1471 | 8.88 |
| 9000 | 2700 | 1055 | 6.41 | 1100 | 6.74 | 1141 | 7.21 | 1188 | 7.46 | 1225 | 8.00 | 1270 | 8.48 | 1310 | 8.91 | 1341 | 9.41 | 1382 | 9.72 | 1420 | 10.41 | 1463 | 10.82 |
| 10500 | 3140 | 1085 | 8.20 | 1125 | 8.72 | 1169 | 9.10 | 1210 | 9.74 | 1245 | 10.20 | 1287 | 10.56 | 1321 | 11.20 | 1350 | 11.50 | 1391 | 11.95 | 1426 | 12.61 | 1471 | 13.26 |

FAN PERFORMANCE TABLES

Medium Pressure (2.5" T.S.P. - 5.0" T.S.P.)

UNIT SIZE 2182 (TWO 15" x 11 1/8" WHEELS - DWDI FORWARD CURVED; OUTLET AREA = 3.85 SQ. FT.)

| CFM | Outlet Vel. | TOTAL STATIC PRESSURE | | | | | | | | | | | | | | | | | | | | | |
|-------|-------------|-----------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|
| | | 2.50 | | 2.75 | | 3.00 | | 3.25 | | 3.50 | | 3.75 | | 4.00 | | 4.25 | | 4.50 | | 4.75 | | 5.00 | |
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 7250 | 1885 | 1017 | 4.45 | 1072 | 4.82 | 1122 | 5.22 | 1169 | 5.67 | 1213 | 6.00 | 1255 | 6.40 | 1297 | 6.82 | 1343 | 7.30 | 1389 | 7.82 | 1427 | 8.15 | 1465 | 8.62 |
| 9250 | 2400 | 1019 | 6.25 | 1068 | 6.62 | 1114 | 6.95 | 1157 | 7.46 | 1200 | 7.84 | 1239 | 8.32 | 1278 | 8.61 | 1318 | 8.87 | 1360 | 9.55 | 1401 | 10.25 | 1435 | 10.63 |
| 11250 | 2920 | 1040 | 8.35 | 1084 | 8.76 | 1120 | 9.10 | 1162 | 9.61 | 1203 | 10.15 | 1241 | 10.53 | 1279 | 11.07 | 1317 | 11.74 | 1356 | 12.43 | 1395 | 13.07 | 1427 | 13.62 |
| 13500 | 3510 | 1072 | 11.73 | 1118 | 12.32 | 1149 | 12.71 | 1185 | 13.24 | 1224 | 13.82 | 1262 | 14.51 | 1299 | 15.21 | 1334 | 15.88 | 1370 | 16.67 | 1405 | 17.36 | 1435 | 17.91 |

UNIT SIZE 2225 (TWO 15" x 15" WHEELS - DWDI FORWARD CURVED; OUTLET AREA = 4.88 SQ. FT.)

| CFM | Outlet Vel. | TOTAL STATIC PRESSURE | | | | | | | | | | | | | | | | | | | | | |
|-------|-------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 2.50 | | 2.75 | | 3.00 | | 3.25 | | 3.50 | | 3.75 | | 4.00 | | 4.25 | | 4.50 | | 4.75 | | 5.00 | |
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 8500 | 1740 | 1060 | 5.4 | 1115 | 6.0 | 1160 | 6.4 | 1215 | 7.0 | 1265 | 7.4 | 1310 | 8.0 | 1360 | 8.6 | 1395 | 9.0 | 1445 | 9.6 | 1490 | 10.2 | 1530 | 10.6 |
| 11000 | 2250 | 1075 | 7.6 | 1120 | 8.2 | 1170 | 9.0 | 1212 | 9.4 | 1255 | 9.8 | 1295 | 10.0 | 1335 | 10.6 | 1375 | 11.4 | 1415 | 12.2 | 1455 | 12.8 | 1492 | 13.2 |
| 13500 | 2760 | 1110 | 10.2 | 1150 | 11.0 | 1195 | 11.4 | 1235 | 12.0 | 1275 | 12.6 | 1315 | 13.4 | 1350 | 14.0 | 1390 | 14.8 | 1425 | 15.4 | 1460 | 15.8 | 1495 | 16.2 |
| 16000 | 3280 | 1160 | 14.0 | 1198 | 15.0 | 1240 | 15.4 | 1275 | 16.0 | 1310 | 17.0 | 1345 | 17.4 | 1380 | 18.2 | 1420 | 19.2 | 1455 | 19.8 | 1485 | 20.2 | 1520 | 21.2 |

UNIT SIZE 2270 (TWO 18 1/8" x 18" WHEELS - DWDI FORWARD CURVED; OUTLET AREA = 5.71 SQ. FT.)

| CFM | Outlet Vel. | TOTAL STATIC PRESSURE | | | | | | | | | | | | | | | | | | | | | |
|-------|-------------|-----------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|
| | | 2.50 | | 2.75 | | 3.00 | | 3.25 | | 3.50 | | 3.75 | | 4.00 | | 4.25 | | 4.50 | | 4.75 | | 5.00 | |
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 11500 | 2015 | 918 | 7.32 | 963 | 8.15 | 1006 | 8.86 | 1045 | 9.43 | 1084 | 10.08 | 1124 | 10.68 | 1164 | 11.52 | 1203 | 12.26 | 1240 | 13.00 | 1278 | 13.76 | 1315 | 14.48 |
| 14000 | 2450 | 920 | 9.03 | 962 | 9.84 | 1003 | 10.66 | 1041 | 11.42 | 1079 | 12.18 | 1115 | 12.78 | 1152 | 13.74 | 1190 | 14.53 | 1226 | 15.32 | 1263 | 15.06 | 1300 | 15.80 |
| 16500 | 2890 | 930 | 11.36 | 964 | 12.11 | 1012 | 13.18 | 1048 | 14.01 | 1084 | 14.83 | 1120 | 15.77 | 1157 | 16.69 | 1195 | 17.66 | 1228 | 18.44 | 1264 | 19.28 | 1300 | 20.10 |
| 19000 | 3330 | 958 | 14.20 | 991 | 15.08 | 1029 | 16.01 | 1063 | 16.95 | 1100 | 17.92 | 1132 | 18.89 | 1170 | 19.96 | 1208 | 21.00 | 1240 | 22.16 | 1277 | 23.22 | 1313 | 24.25 |

UNIT SIZE 2315 (TWO 18 1/8" x 18" WHEELS - DWDI FORWARD CURVED; OUTLET AREA = 6.85 SQ. FT.)

| CFM | Outlet Vel. | TOTAL STATIC PRESSURE | | | | | | | | | | | | | | | | | | | | | |
|-------|-------------|-----------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|
| | | 2.50 | | 2.75 | | 3.00 | | 3.25 | | 3.50 | | 3.75 | | 4.00 | | 4.25 | | 4.50 | | 4.75 | | 5.00 | |
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 13000 | 1900 | 917 | 8.36 | 952 | 8.84 | 1004 | 9.68 | 1037 | 10.38 | 1077 | 11.27 | 1116 | 11.92 | 1158 | 12.82 | 1191 | 13.44 | 1228 | 14.17 | 1268 | 15.21 | 1310 | 16.25 |
| 16000 | 2335 | 931 | 10.56 | 966 | 11.54 | 1008 | 12.65 | 1044 | 13.02 | 1079 | 14.12 | 1121 | 15.25 | 1156 | 16.16 | 1191 | 17.05 | 1229 | 17.84 | 1264 | 18.86 | 1300 | 19.52 |
| 19000 | 2775 | 958 | 14.20 | 991 | 15.08 | 1029 | 16.01 | 1063 | 16.95 | 1100 | 17.92 | 1132 | 18.89 | 1170 | 19.96 | 1208 | 21.00 | 1240 | 22.16 | 1277 | 23.22 | 1313 | 24.25 |
| 22000 | 3210 | 991 | 18.70 | 1024 | 19.94 | 1058 | 20.85 | 1092 | 21.82 | 1126 | 22.95 | 1162 | 24.22 | 1198 | 25.68 | 1237 | 27.39 | 1271 | 28.41 | 1293 | 29.48 | 1330 | 31.02 |

UNIT SIZE 2390 (TWO 22 1/4" x 22" WHEELS - DWDI FORWARD CURVED; OUTLET AREA = 10.18 SQ. FT.)

| CFM | Outlet Vel. | TOTAL STATIC PRESSURE | | | | | | | | | | | | | | | | | | | | | |
|-------|-------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 2.50 | | 2.75 | | 3.00 | | 3.25 | | 3.50 | | 3.75 | | 4.00 | | 4.25 | | 4.50 | | 4.75 | | 5.00 | |
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 17000 | 1670 | 735 | 10.6 | 770 | 11.7 | 810 | 13.0 | 845 | 14.0 | 885 | 15.5 | 910 | 16.4 | 945 | 18.0 | 975 | 19.0 | 1005 | 20.4 | 1035 | 21.5 | 1065 | 23.0 |
| 21000 | 2065 | 725 | 13.3 | 760 | 14.3 | 800 | 16.0 | 835 | 17.1 | 865 | 18.8 | 895 | 20.5 | 925 | 21.0 | 950 | 22.0 | 985 | 23.0 | 1015 | 24.5 | 1045 | 26.5 |
| 25000 | 2460 | 730 | 16.4 | 765 | 18.0 | 795 | 19.5 | 830 | 20.8 | 860 | 22.3 | 890 | 23.0 | 915 | 25.0 | 940 | 26.5 | 975 | 27.5 | 1002 | 29.0 | 1030 | 31.0 |
| 29000 | 2850 | 748 | 21.0 | 780 | 22.5 | 805 | 24.0 | 840 | 25.5 | 875 | 27.0 | 895 | 28.0 | 920 | 30.0 | 945 | 31.0 | 980 | 33.0 | 1000 | 34.0 | 1025 | 36.5 |

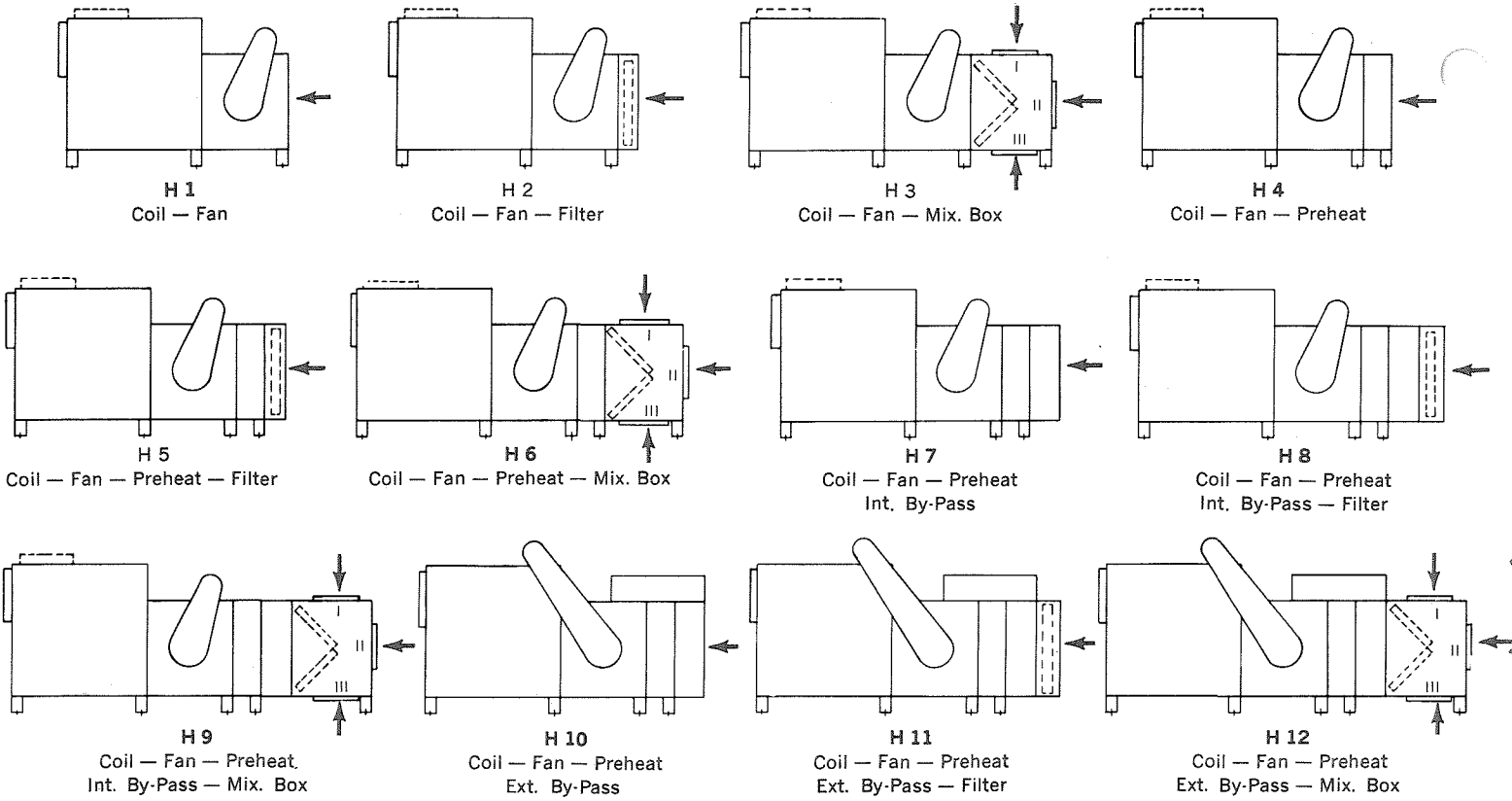
UNIT SIZE 2492 (TWO 24 1/2" x 24" WHEELS - DWDI FORWARD CURVED; OUTLET AREA = 12.46 SQ. FT.)

| CFM | Outlet Vel. | TOTAL STATIC PRESSURE | | | | | | | | | | | | | | | | | | | | | |
|-------|-------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 2.50 | | 2.75 | | 3.00 | | 3.25 | | 3.50 | | 3.75 | | 4.00 | | 4.25 | | 4.50 | | 4.75 | | 5.00 | |
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 20000 | 1605 | 650 | 12.6 | 680 | 13.9 | 720 | 15.5 | 750 | 17.3 | 785 | 19.0 | 810 | 20.5 | 840 | 22.0 | 860 | 23.0 | 888 | 25.0 | 915 | 26.5 | 945 | 28.5 |
| 25000 | 2050 | 640 | 15.0 | 670 | 16.4 | 700 | 18.2 | 740 | 20.5 | 775 | 21.5 | 795 | 24.0 | 825 | 25.5 | 850 | 27.0 | 878 | 29.0 | 905 | 31.0 | 935 | 33.0 |
| 30000 | 2410 | 645 | 18.5 | 675 | 20.5 | 695 | 21.5 | 730 | 23.4 | 755 | 25.5 | 790 | 28.0 | 810 | 29.0 | 840 | 31.0 | 862 | 32.5 | 885 | 35.0 | 915 | 37.0 |
| 35000 | 2810 | 652 | 22.8 | 680 | 24.5 | 706 | 26.3 | 735 | 28.0 | 760 | 30.0 | 792 | 33.0 | 812 | 34.5 | 835 | 36.0 | 860 | 38.0 | 880 | 40.5 | 905 | 42.5 |

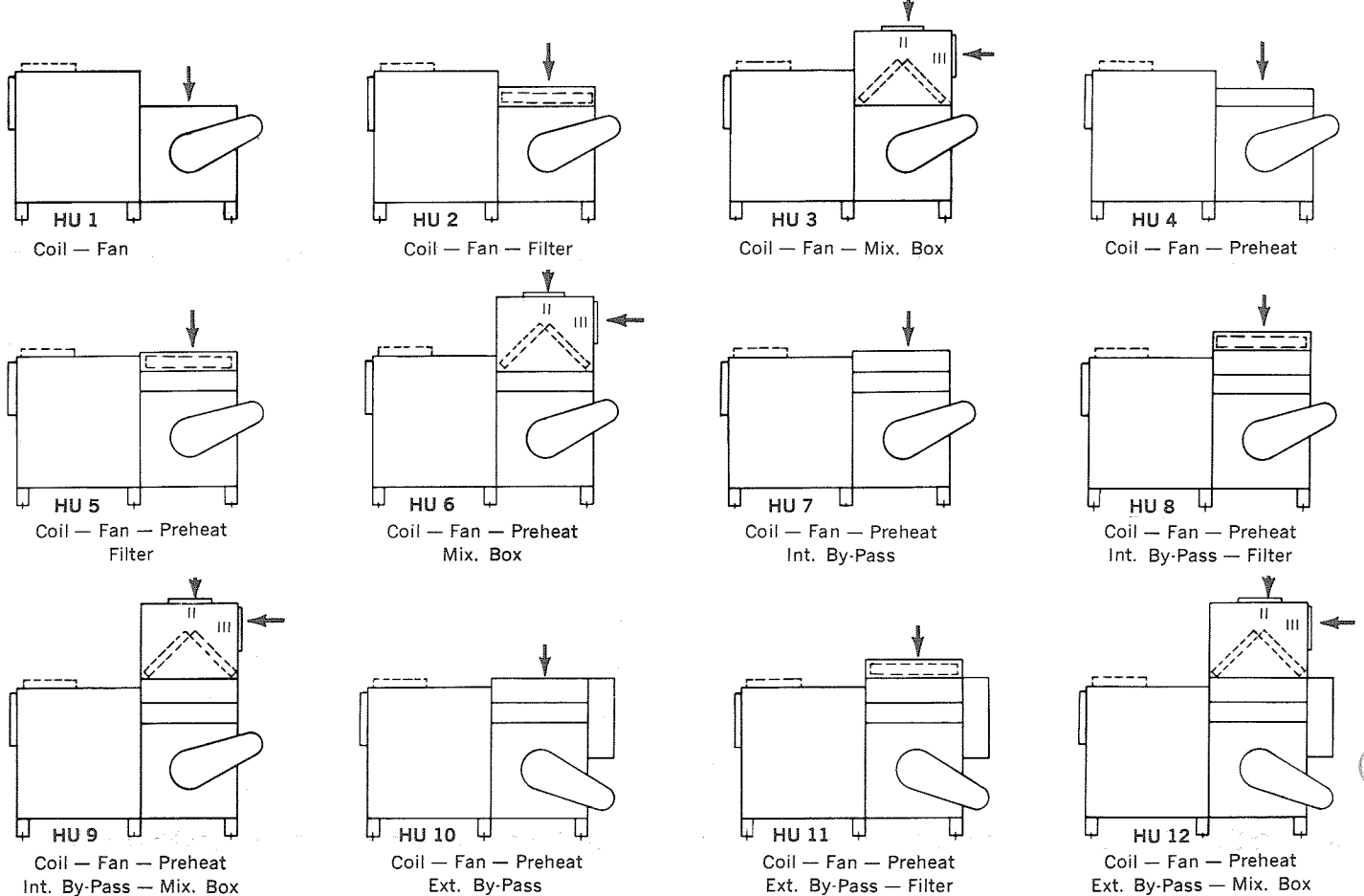
UNIT SIZE 2600 (TWO 27" x 27" WHEELS - DWDI FORWARD CURVED; OUTLET AREA = 15.19 SQ. FT.)

| CFM | Outlet Vel. | TOTAL STATIC PRESSURE | | | | | | | | | | | | | | | | | | | | | |
|-------|-------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 2.50 | | 2.75 | | 3.00 | | 3.25 | | 3.50 | | 3.75 | | 4.00 | | 4.25 | | 4.50 | | 4.75 | | 5.00 | |
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 24000 | 1580 | 590 | 15.0 | 620 | 16.5 | 650 | 18.8 | 680 | 20.6 | 710 | 22.5 | 735 | 24.0 | 760 | 25.5 | 780 | 27.0 | 805 | 28.5 | 830 | 30.9 | 853 | 33.3 |
| 30000 | 1975 | 580 | 18.0 | 608 | 20.3 | 640 | 22.5 | 665 | 23.7 | 690 | 26.0 | 720 | 27.7 | 748 | 30.0 | 765 | 31.5 | 795 | 33.9 | 820 | 36.9 | 845 | 39.3 |
| 36000 | 2370 | 585 | 21.8 | 610 | 24.3 | 635 | 25.8 | 655 | 28.2 | 685 | 30.0 | 710 | 31.5 | 738 | 33.0 | 755 | 36.3 | 780 | 39.0 | 805 | 42.0 | 830 | 45.0 |
| 42000 | 2760 | 595 | 27.8 | 615 | 29.2 | 640 | 32.3 | 665 | 33.8 | 690 | 36.0 | 712 | 38.1 | 740 | 40.9 | 753 | 43.5 | 778 | 46.0 | 800 | 48.2 | 820 | 51.0 |

STANDARD HORIZONTAL ARRANGEMENTS



STANDARD HORIZONTAL-U ARRANGEMENTS



NOTES: 1. Mixing box inlet No. 1 is not available with horizontal-U arrangements. 2. External by-pass on horizontal arrangements requires special motor location. 3. Units for deck mounting only.

ORDERING INFORMATION

GENERAL

To designate motor position, coil connection location, discharge zone damper locations, mixing box damper control rod location, etc., the right and left hand side, front and rear of the unit must be established. The rear is designated as the air inlet of a horizontal unit; therefore, to determine the hand, the unit must be viewed looking into the air inlet (or facing the rear of the unit.) With this view, the right or left hand of the unit is the same as that of the viewer.

When a horizontal-U arrangement is specified, it is only necessary to keep in mind the normal location of the air inlet when viewing a horizontal arrangement.

MOUNTING ARRANGEMENTS

Units are available for deck mounting only, in horizontal or horizontal-U arrangements as shown on page 14.

DISCHARGE AND MOTOR LOCATIONS

Two discharge locations are available, top or front: combination of top and front cannot be furnished. Zoning dampers are furnished in the discharge section of the multi-zone units: see below for zone size selection. Zone damper control rods must be specified as top or bottom, front or rear: see Fig. 2.

Two standard motor locations are available for horizontal units, and two for horizontal-U arrangements: left or right side of fan section: see Fig. 1 and 2. Special motor location on coil section is required for horizontal arrangements when external by-pass is furnished. When motor is relocated to coil section, top discharge is not available and heating coil connections must be on end of unit opposite from motor.

COIL LOCATION AND CONNECTIONS

Heating and cooling coils are mounted for parallel air flow in separate areas of the coil section. Heating coils are slant mounted in the hot deck; therefore, a 3 or 4 row water coil cannot be furnished with 1/2 serpentine circuiting because it cannot be properly vented nor drained. When a single water coil is mounted in the cold deck and used for combination cooling and heating, a diffuser plate is required: see Fig. 2. When the difference in air resistance between the hot and cold decks requires it, a balance plate is furnished: see Fig. 2. A preheat coil is mounted in a separate coil section located on entering air side of fan section. The location of coil connections must be specified as left hand or right hand when unit is ordered. When a coil has connections on opposite ends, both the supply (or liquid) and return (or suction) must be specified.

MIXING BOX

Mixing box opening locations must be specified as I & II, II & III OR I & III: refer to the standard arrangement sketches, page 14. Exception: unit sizes 2315 and 2390 with an angle bank filter arrangement on which only inlet combinations I and II or II and III are available. Mixing

box inlet I is not available with horizontal-U arrangements. Control rod location must be specified as left hand or right hand.

FACE AND BY-PASS DAMPERS FOR PREHEAT COIL

Either internal, or external with duct. With internal, a small face area coil is mandatory. External face and by-pass on a horizontal arrangement requires relocation of the motor to the top of the coil section. Control rod location must be specified as left hand or right hand.

ZONE SIZE SELECTION FOR MULTI-ZONE UNITS

Zoning dampers are furnished with factory fabricated linkage to operate the quantity of individual blades specified for each zone. This linkage is quickly modified in the field if changes are required in the zone size. To size each zone it is necessary to know: (1) the unit size; (2) total number of zones required; (3) the CFM for each zone; and (4) the quantity of individual blades in each zone.

The total quantity of individual zone blades available for each unit size is found in Table 3, page 7 or in the dimension table, page 16: this quantity is fixed for each unit size and cannot be varied. To determine the number of individual blades for each zone, multiply the total blades available by $\frac{\text{Zone CFM}}{\text{Total CFM}}$. If a fraction of a blade results, round off to

the nearest whole number: in some cases, personal judgment is required to determine whether to use the next higher or lower number of blades on a specific application. In any case, the total quantity of individual zone blades must be identical with the quantity of individual zone blades indicated in Table 3, page 7.

The width of the zone (dimension O) is then calculated by multiplying the width of a single blade (5 1/4") by the quantity of individual blades in that zone. The zone height (dimension N) is found in the dimension table on page 16. NOTE: Zones are numbered from the left hand side to the right hand side of the unit.

EXAMPLE:

2100 unit, 6000 CFM, three zones of 1300 CFM, 2000 CFM, and 2700 CFM.

Step 1: Table 3 shows 14 total damper blades.

$$\text{Step 2: } 14 \times \frac{1300}{6000} = 3.03 \text{ or } 3 \text{ blades}$$

$$14 \times \frac{2000}{6000} = 4.67 \text{ or } 5 \text{ blades}$$

$$14 \times \frac{2700}{6000} = 6.3 \text{ or } 6 \text{ blades}$$

Step 3: Refer to Fig. 1.

$$\text{"O" for 3 blades} = 3 \times 5\frac{1}{4}" = 15\frac{3}{4}" \text{ (Zone 1)}$$

$$\text{"O" for 5 blades} = 5 \times 5\frac{1}{4}" = 26\frac{1}{4}" \text{ (Zone 2)}$$

$$\text{"O" for 6 blades} = 6 \times 5\frac{1}{4}" = 31\frac{1}{2}" \text{ (Zone 3)}$$

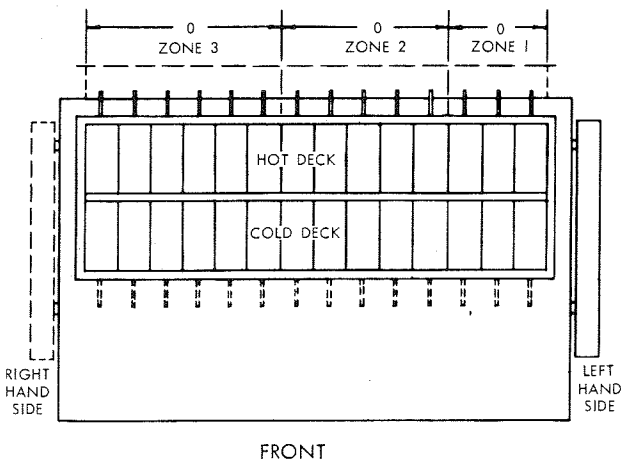


FIGURE 1

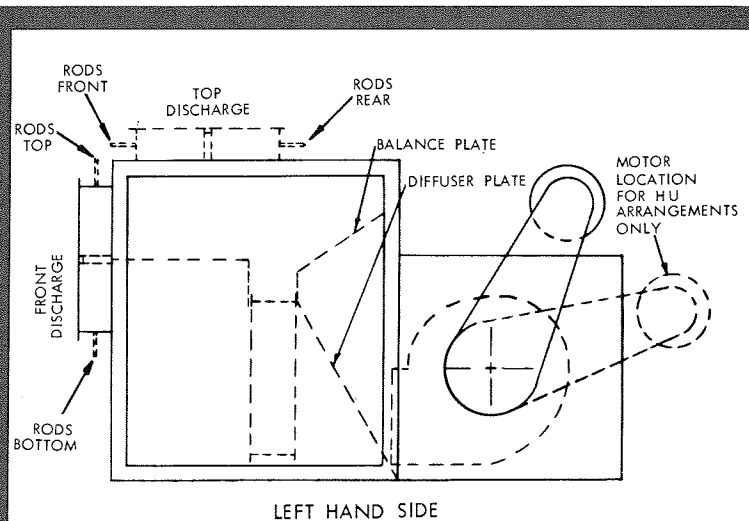
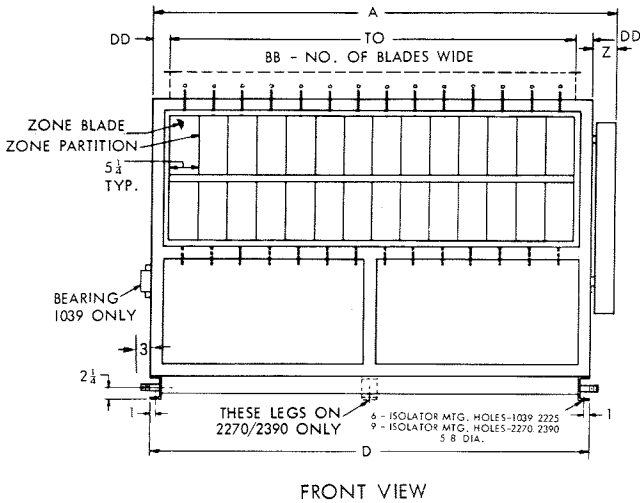


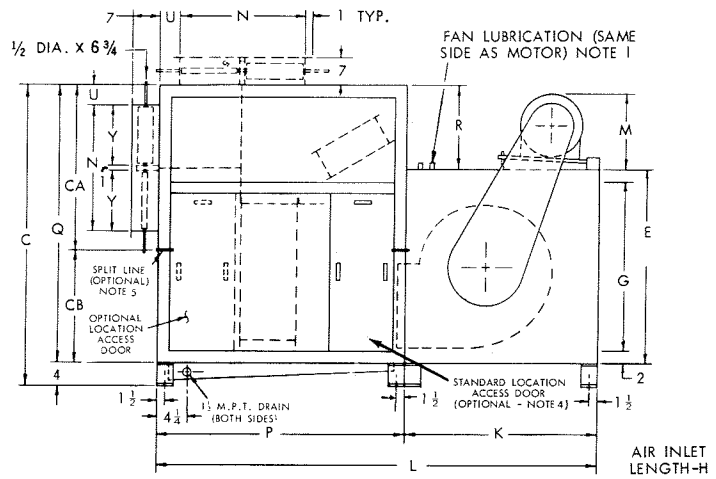
FIGURE 2

DIMENSIONS MULTI-ZONE AND DUAL DUCT (Note 3)

Sizes 1039 thru 2390

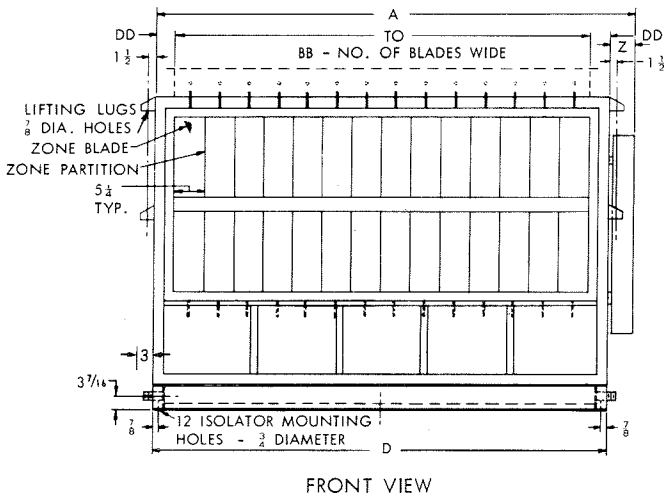


FRONT VIEW

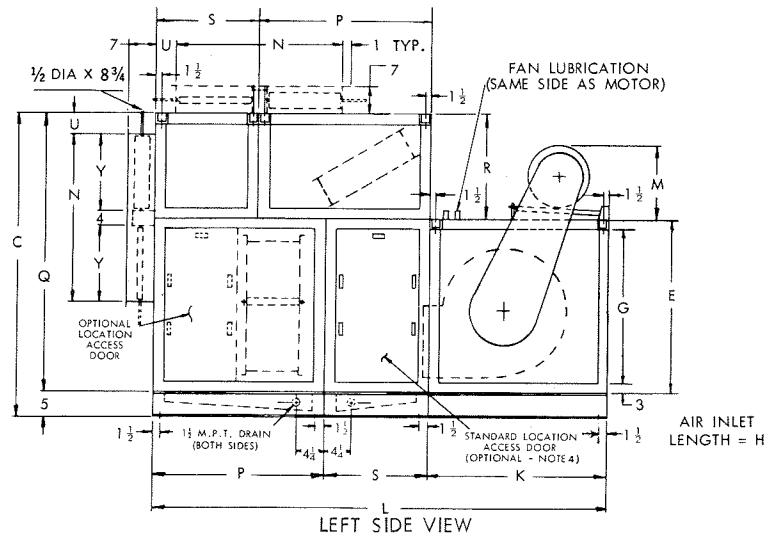


LEFT SIDE VIEW

Sizes 2492 and 2600



FRONT VIEW



LEFT SIDE VIEW

Dimension Table for Sizes 1039 thru 2600, Horizontal and Horizontal-U

| Unit | Horizontal | | Horizontal-U | | Horizontal | | Horizontal-U | | M | N | TO | P | Q | R | S | U | Y | Z | BB | DD | CA | CB | | |
|------|------------|---------|--------------|--------|------------|--------|--------------|--------|---------|--------|---------|--------|---------|--------|---------|--------|--------|-------|--------|----|----|-------|--------|--------|
| | A | C | D | E | G | H | K | L | | | | | | | | | | | | | | | K | L |
| 1039 | 48 | 45 1/4 | 42 | 25 1/2 | 25 1/2 | 21 1/2 | 38 | 25 1/2 | 57 | 25 1/2 | 57 | 15 1/2 | 36 3/4 | 31 1/2 | 41 3/4 | 16 1/4 | — | 2 1/2 | 7 1/4 | 6 | 7 | 2 3/4 | 22 3/4 | 19 1/4 |
| 2060 | 75 | 42 1/4 | 69 | 22 1/2 | 22 1/2 | 18 1/2 | 65 | 22 1/2 | 54 | 22 1/2 | 54 | 13 1/2 | 63 | 31 1/2 | 38 1/4 | 15 3/4 | — | 2 1/2 | 6 1/4 | 6 | 12 | 3 | 20 3/4 | 17 3/4 |
| 2083 | 87 | 45 3/4 | 81 | 25 1/2 | 25 1/2 | 21 1/2 | 77 | 25 1/2 | 57 | 25 1/2 | 57 | 15 1/2 | 73 1/2 | 31 1/2 | 41 3/4 | 16 1/4 | — | 2 1/2 | 7 1/4 | 6 | 14 | 3 3/4 | 22 3/4 | 19 1/4 |
| 2100 | 88 | 49 3/4 | 81 | 28 1/2 | 28 1/2 | 24 1/2 | 77 | 28 1/2 | 66 | 28 1/2 | 66 | 19 1/4 | 73 1/2 | 37 1/2 | 45 1/4 | 17 1/4 | — | 2 1/2 | 9 1/4 | 7 | 14 | 3 3/4 | 26 3/4 | 19 3/4 |
| 2125 | 94 | 52 3/4 | 87 | 31 1/2 | 31 1/2 | 27 1/2 | 83 | 31 1/2 | 72 | 31 1/2 | 72 | 21 | 78 3/4 | 40 1/2 | 48 3/4 | 17 1/4 | — | 2 1/2 | 10 | 7 | 15 | 4 1/8 | 28 3/4 | 20 3/4 |
| 2150 | 99 | 57 3/4 | 92 | 34 1/2 | 34 1/2 | 30 1/2 | 88 | 34 1/2 | 76 | 34 1/2 | 76 | 23 | 84 | 41 1/2 | 53 3/8 | 18 3/8 | — | 2 1/2 | 11 | 7 | 16 | 4 | 30 1/4 | 23 1/4 |
| 2182 | 110 | 60 3/4 | 102 | 37 1/2 | 37 1/2 | 33 1/2 | 98 | 37 1/2 | 81 | 37 1/2 | 81 | 25 | 94 1/2 | 43 1/2 | 56 7/8 | 13 3/4 | — | 2 1/2 | 12 | 8 | 18 | 3 3/4 | 32 3/4 | 24 3/4 |
| 2225 | 109 | 67 3/8 | 102 | 43 1/2 | 43 1/2 | 39 1/2 | 98 | 43 1/2 | 90 3/4 | 43 1/2 | 90 3/4 | 30 | 94 1/2 | 47 3/8 | 63 3/8 | 20 3/8 | — | 2 1/2 | 14 1/2 | 7 | 18 | 3 3/4 | 37 1/4 | 26 3/4 |
| 2270 | 128 | 67 3/8 | 120 | 43 1/2 | 43 1/2 | 39 1/2 | 116 | 43 1/2 | 92 1/2 | 43 1/2 | 92 1/2 | 30 | 115 1/2 | 49 | 63 3/8 | 13 3/8 | — | 2 1/2 | 14 1/2 | 8 | 22 | 2 1/4 | 37 1/4 | 26 3/4 |
| 2315 | 128 | 77 | 120 | 50 1/2 | 50 1/2 | 46 1/2 | 116 | 37 1/4 | 90 | 50 1/2 | 103 1/4 | 34 | 115 1/2 | 52 3/4 | 73 | 22 1/2 | — | 2 1/2 | 16 1/2 | 8 | 22 | 2 1/4 | 41 1/4 | 31 3/4 |
| 2390 | 138 | 84 | 130 | 56 1/2 | 56 1/2 | 52 1/2 | 126 | 41 3/4 | 104 1/2 | 56 1/2 | 119 1/4 | 38 | 126 | 62 3/8 | 80 | 23 1/2 | — | 2 1/2 | 18 1/2 | 8 | 24 | 2 | 45 3/4 | 34 3/4 |
| 2492 | 166 | 99 3/4 | 158 | 65 1/2 | 56 | 59 1/2 | 152 | 48 | 125 1/4 | 65 1/2 | 142 3/4 | 47 | 147 | 48 | 94 3/4 | 29 1/4 | 29 1/4 | 5 3/4 | 21 1/2 | 8 | 28 | 5 1/2 | — | — |
| 2600 | 166 | 112 1/4 | 158 | 74 1/2 | 62 1/2 | 68 1/2 | 152 | 53 | 137 3/4 | 74 1/2 | 159 3/4 | 55 | 147 | 51 3/4 | 107 1/4 | 32 3/4 | 32 3/4 | 5 1/4 | 25 1/2 | 8 | 28 | 5 1/2 | — | — |

Varies with size of motor used. See Motor H.P. Table for "M" dim.

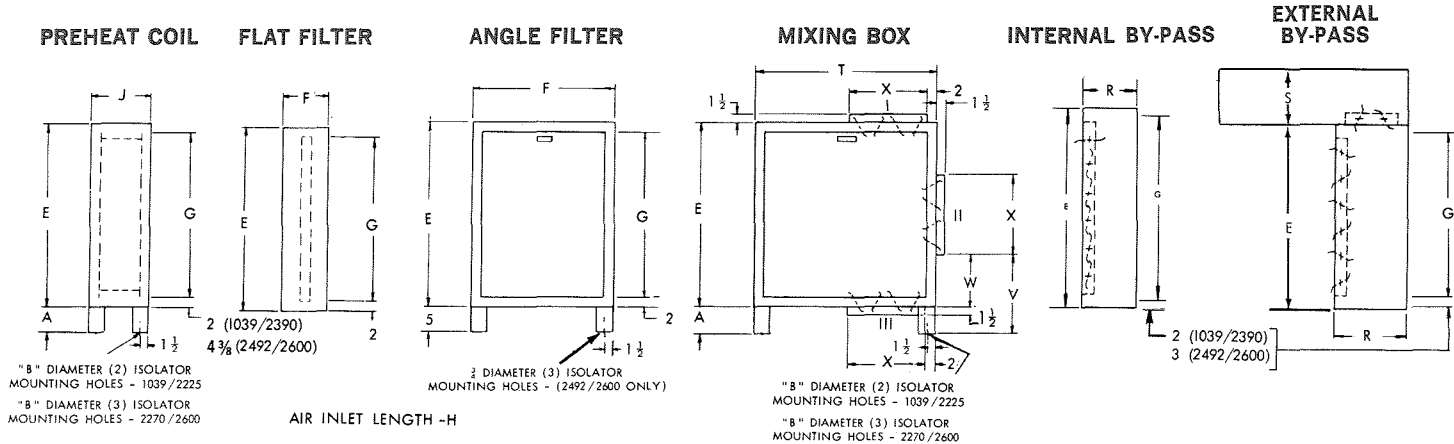
M DIMENSIONS

| MOTOR HP | UNIT SIZE | |
|----------|-----------|-----------|
| | 1039-2390 | 2492-2600 |
| 1/4 | 12 | — |
| 1/3 | 12 | — |
| 1/2 | 13 | — |
| 3/4 | 13 | — |
| 1 | 14 | — |
| 1 1/2 | 14 | — |
| 2 | 16 | — |
| 3 | 16 | — |
| 5 | 17 | 22 |
| 7 1/2 | 19 | 27 |
| 10 | 21 | 27 |
| 15 | 21 | 28 |
| 20 | — | 28 |
| 25 | — | 30 |
| 30 | — | 30 |
| 40 | — | 30 |
| 50 | — | 30 |

Notes:

- 1039 unit has one lubrication fitting on each end.
- Dual Duct unit dimensions are identical to Multi-zone with the exception that zone blades are omitted from the Dual Duct discharge and partition between hot and cold decks is not recessed.
- All dimensions are in inches. Dimensions and specifications subject to change; certified drawings will be furnished on request.
- Access doors may be ordered in place of standard panels on low pressure units.
- Provision can be made for field dis-assembling and re-assembling for coil section only on low pressure units.

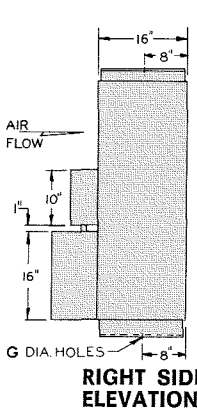
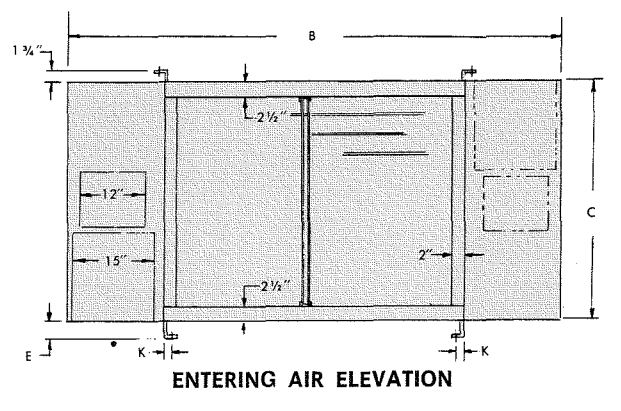
DIMENSIONS-MATCHING ACCESSORIES



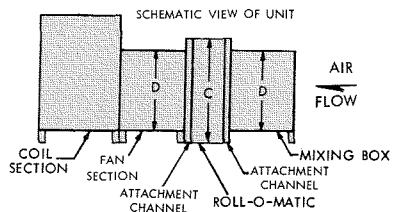
| UNIT SIZE | 1039 | 2060 | 2083 | 2100 | 2125 | 2150 | 2182 | 2225 | 2270 | 2315 | 2390 | 2492 | 2600 | | |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| A | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | | |
| B | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 | 3/4 | 3/4 | | |
| E | 25 1/2 | 22 1/2 | 25 1/2 | 28 1/2 | 31 1/2 | 34 1/2 | 37 1/2 | 43 1/2 | 43 1/2 | 50 1/2 | 56 1/2 | 65 1/2 | 74 1/2 | | |
| F Flat Bank | 7 1/2 | 7 1/2 | 7 1/2 | 7 1/2 | 7 1/2 | 7 1/2 | 7 1/2 | 7 1/2 | 7 1/2 | 7 1/2 | 7 1/2 | 9 | 9 | | |
| F Angle Bank | 22 | 22 | 22 | 22 | 22 | 25 1/4 | 25 1/4 | 30 | 30 | 25 1/4 | 30 | 25 | 21 | | |
| G Filter By-Pass | 21 1/2 | 18 1/2 | 21 1/2 | 24 1/2 | 27 1/2 | 30 1/2 | 33 1/2 | 39 1/2 | 39 1/2 | 46 1/2 | 52 1/2 | 61 1/2 | 59 1/2 | 70 1/2 | 68 1/2 |
| G Preheat Coil | 21 1/2 | 18 1/2 | 21 1/2 | 24 1/2 | 27 1/2 | 30 1/2 | 33 1/2 | 39 1/2 | 39 1/2 | 46 1/2 | 52 1/2 | 56 3/4 | 65 3/4 | | |
| H | 38 | 65 | 77 | 77 | 83 | 88 | 98 | 98 | 116 | 116 | 126 | 152 | 152 | | |
| J Standard Depth | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 11 3/4 | 11 3/4 | 11 3/4 | 11 3/4 | 12 3/4 | 12 3/4 | | |
| J Extra Depth | 13 1/4 | 13 1/4 | 13 1/4 | 13 1/4 | 13 1/4 | 13 1/4 | 13 1/4 | 16 | 16 | 16 | 16 | 25 | 25 | | |
| R External By-Pass | 8 1/4 | 8 1/4 | 8 1/4 | 9 1/4 | 12 3/4 | 12 3/4 | 12 3/4 | 12 3/4 | 12 3/4 | 17 1/4 | 17 1/4 | 16 1/2 | 21 | | |
| R Internal By-Pass | 8 1/4 | 8 1/4 | 8 1/4 | 9 1/4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | | |
| S | 6 | 6 | 6 | 6 | 10 | 10 | 10 | 10 | 10 | 14 | 14 | 14 | 17 | | |
| T | 30 | 28 1/2 | 30 | 28 1/2 | 30 | 34 | 34 | 40 | 40 | 52 | 52 | 48 | 48 | | |
| V | 9 1/2 | 8 | 9 1/2 | 11 | 10 1/4 | 11 3/4 | 11 | 14 | 14 | 13 | 16 | 21 1/2 | 26 | | |
| W | 5 1/2 | 4 | 5 1/2 | 7 | 6 1/4 | 7 3/4 | 7 | 10 | 10 | 9 | 12 | 16 1/2 | 21 | | |
| X | 14 3/8 | 14 3/8 | 14 3/8 | 14 3/8 | 18 7/8 | 18 7/8 | 23 3/8 | 23 3/8 | 23 3/8 | 32 1/2 | 32 1/2 | 32 1/2 | 32 1/2 | | |

Note: With Rollotron filter, mixing box height and/or width dimensions change on sizes 2125, 2150, 2270, 2315, 2390, 2492, 2600.
 See Rollotron dimensions, page 18.

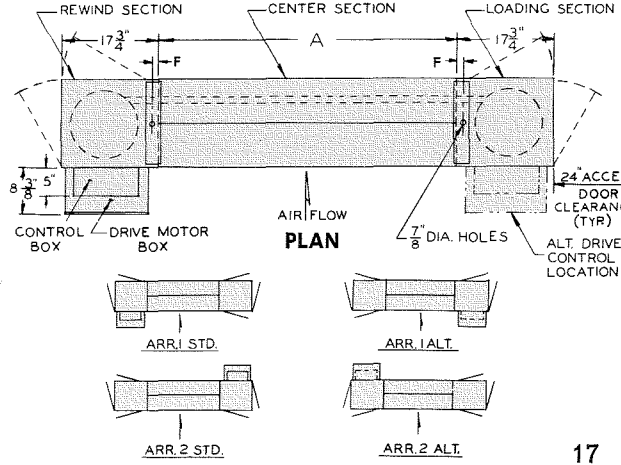
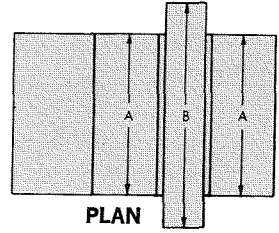
TYPE H ROLL-O-MATIC



- NOTES:**
- Arrangement number must be specified.
 - Attachment channel for direct connection of R-O-M to other components is 2 1/2" deep for all unit sizes.
 - 24" clearance required for access doors.



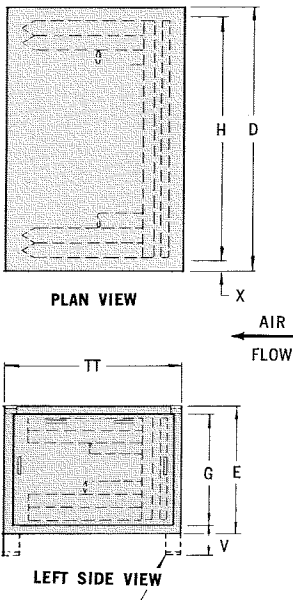
LEFT SIDE ELEVATION



All dimensions in inches.
 Dimensions and specifications subject to change. Certified drawings will be furnished upon request.

| UNIT SIZE | 1039 | 2060 | 2083 | 2100 | 2125 | 2150 | 2182 | 2225 | 2270 | 2315 | 2390 | 2492 | 2600 |
|--------------------------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|----------|----------|
| Type H Roll-O-Matic Size | 22-36 | 22-59 | 22-69 | 25-69 | 25-73 | 33-78 | 33-86 | 39-86 | 39-100 | 45-100 | 2525-1010 | 3325-132 | 3333-132 |
| A | 42 | 69 | 81 | 81 | 87 | 92 | 102 | 102 | 120 | 120 | 130 | 158 | 158 |
| B | 77 1/2 | 104 1/2 | 116 1/2 | 116 1/2 | 122 1/2 | 127 1/2 | 137 1/2 | 137 1/2 | 155 1/2 | 155 1/2 | 165 1/2 | 193 1/2 | 193 1/2 |
| C | 27 1/4 | 27 1/4 | 27 1/4 | 29 7/8 | 29 7/8 | 37 3/4 | 37 3/4 | 43 1/2 | 43 1/2 | 49 3/4 | 59 3/4 | 67 3/4 | 75 1/2 |
| D | 25 1/2 | 22 1/2 | 25 1/2 | 28 1/2 | 31 1/2 | 34 1/2 | 37 1/2 | 43 1/2 | 43 1/2 | 50 1/2 | 56 1/2 | 65 1/2 | 74 1/2 |
| E | 3 1/8 | 1 5/8 | 3 1/8 | 3 3/16 | 4 13/16 | 2 3/8 | 3 7/8 | 4 | 4 | 4 3/8 | 2 3/8 | 3 15/16 | 4 1/2 |
| F | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/2 | 1 1/2 |
| G | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 | 3/4 | 3/4 |
| K | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7/8 | 7/8 |

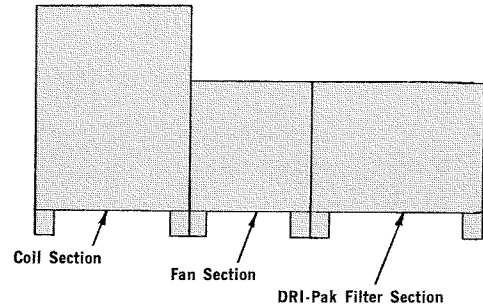
DRI-Pak FILTER DIMENSIONAL DATA



DIMENSIONAL DATA (In.)

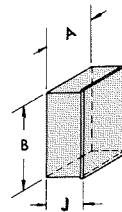
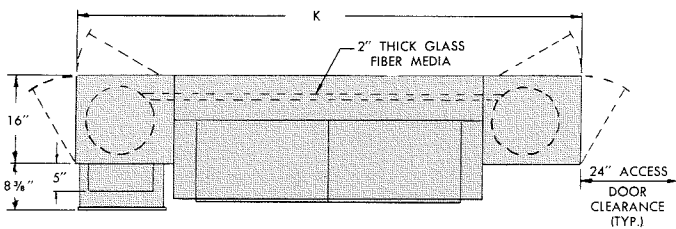
| UNIT | D | E | G | H | V | X | TT |
|------|-----|-----|-----|-----|---|---|-----|
| 1039 | 42 | 25½ | 21½ | 38 | 6 | 2 | 43¾ |
| 2060 | 69 | 22½ | 18½ | 65 | 6 | 2 | 43¾ |
| 2083 | 81 | 25½ | 21½ | 77 | 6 | 2 | 43¾ |
| 2100 | 81 | 28½ | 24½ | 77 | 6 | 2 | 43¾ |
| 2125 | 87 | 31½ | 27½ | 83 | 6 | 2 | 43¾ |
| 2150 | 92 | 34½ | 30½ | 88 | 6 | 2 | 43¾ |
| 2182 | 102 | 37½ | 33½ | 98 | 6 | 2 | 43¾ |
| 2225 | 102 | 43½ | 39½ | 98 | 6 | 2 | 43¾ |
| 2270 | 120 | 43½ | 39½ | 116 | 6 | 2 | 43¾ |
| 2315 | 120 | 50½ | 46½ | 116 | 6 | 2 | 43¾ |
| 2390 | 130 | 56½ | 52½ | 126 | 6 | 2 | 43¾ |
| 2492 | 158 | 65½ | 59½ | 152 | 8 | 3 | 45 |
| 2600 | 158 | 74½ | 68½ | 152 | 8 | 3 | 45 |

SCHEMATIC VIEW FOR HORIZONTAL ARRANGEMENT



Size of duct connecting to Dri-Pak filter section inlet must be "G x H" to prevent uneven loading of filter. Any transition should be of sufficient length for smooth air flow.

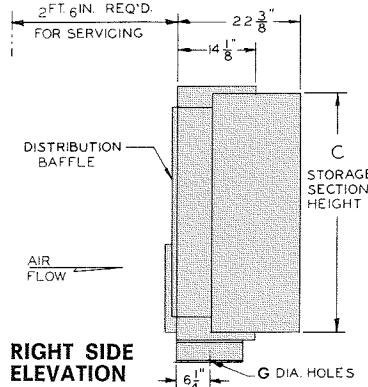
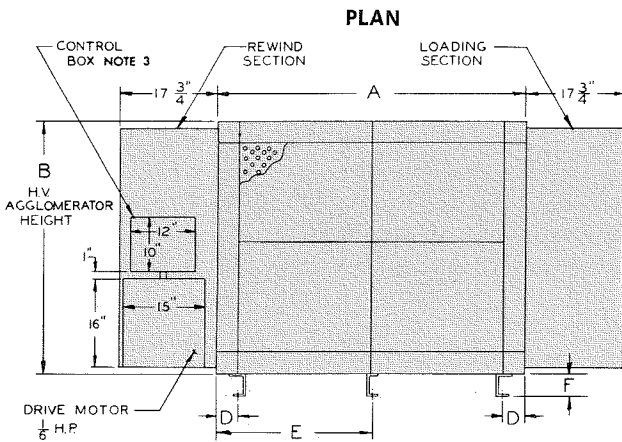
TYPE H ROLLOTRON DIMENSIONS



| Type | A | B | J |
|------|-----|-----|-----|
| SG-7 | 16½ | 21¾ | 11 |
| LG-7 | 13¾ | 20½ | 10¾ |

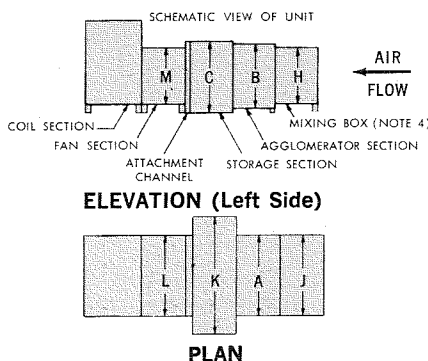
NOTES:

- Power pack may be mounted on unit or remotely.
- 24" clearance required for media access doors.
- Drive motor and control may be located right hand if specified.
- Access to agglomerator calls through an access opening in mixing box section, if furnished; otherwise, access should be provided in inlet duct. Special width mixing box used on sizes 2125, 2270, 2315, 2390, 2492, 2600. Special height mixing box used on sizes 2150, 2390, 2492.
- Attachment channel for direct connection of ROLLOTRON to other components is 2½" deep for all unit sizes. Attachment channel not required between ROLLOTRON and mixing box.



ENTERING AIR ELEVATION

SCHEMATIC VIEW OF UNIT AND ROLLOTRON ARRANGEMENT



| UNIT SIZE | 1039 | 2060 | 2083 | 2100 | 2125 | 2150 | 2182 | 2225 | 2270 | 2315 | 2390 | 2492 | 2600 |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-------------|-------------|-------------|
| Type H Rollotron Size | 22-38-24 | 22-58-20 | 22-68-24 | 25-68-24 | 25-78-24 | 33-78-34 | 33-88-34 | 39-88-38 | 39-108-38 | 45-108-40 | 2525-118-50 | 3325-138-58 | 3333-138-64 |
| A | 44 | 68 | 80 | 80 | 92 | 92 | 104 | 104 | 128 | 128 | 140 | 164 | 164 |
| B | 28 | 24 | 28 | 28 | 28 | 40 | 40 | 44 | 44 | 48 | 60 | 68 | 76 |
| C | 27¼ | 27¼ | 27¼ | 29⅞ | 29⅞ | 37¾ | 37¾ | 43½ | 43½ | 49¾ | 59¾ | 67⅞ | 75½ |
| D | 2 | ½ | ½ | ½ | 3½ | 1 | 2 | 2 | 5 | 5 | 6 | 3⅞ | 3⅞ |
| E | — | — | — | — | — | — | — | — | 64 | 64 | 70 | 82 | 82 |
| F | 2¾ | 3¼ | 2¾ | 4¼ | 5¾ | 1¼ | 2¾ | 3¾ | 3¾ | 5¼ | 2¼ | 3¾ | 4¼ |
| G | ⅝ | ⅝ | ⅝ | ⅝ | ⅝ | ⅝ | ⅝ | ⅝ | ⅝ | ⅝ | ⅝ | ⅝ | ⅝ |
| H | 25½ | 22½ | 25½ | 28½ | 31½ | 40 | 37½ | 43½ | 43½ | 50½ | 57½ | 68 | 74½ |
| J | 42 | 69 | 81 | 81 | 92 | 92 | 102 | 102 | 128 | 128 | 140 | 164 | 164 |
| K | 79½ | 103½ | 115½ | 115½ | 127½ | 127½ | 139½ | 139½ | 163½ | 163½ | 175½ | 199½ | 199½ |
| L | 42 | 69 | 81 | 81 | 87 | 92 | 102 | 102 | 120 | 120 | 130 | 158 | 158 |
| M | 25½ | 22½ | 25½ | 28½ | 31½ | 34½ | 37½ | 43½ | 43½ | 50½ | 56½ | 65½ | 74½ |

All dimensions in inches. Dimensions and specifications subject to change. Certified drawings will be furnished upon request.

MPT COIL CONNECTION SIZES (INCHES) WATER AND STEAM

| Unit Size | COOLING | | | | | | HEATING (HOT DECK) | | | | | | LARGE FACE AREA PREHEAT (SEPARATE PREHEAT SECT.) | | | | | |
|-----------|---------------|------------|--------------|---------------|------------|--------------|--------------------|--------|--------------------|--------|---------------|------------|--|----------------|--------|--------------------|--------|--|
| | Water Circuit | | | Water Circuit | | | Standard Steam | | Steam Distributing | | Water Circuit | | | Standard Steam | | Steam Distributing | | |
| | Single Serp. | Half Serp. | Double Serp. | Single Serp. | Half Serp. | Double Serp. | Supply | Return | Supply | Return | Single Serp. | Half Serp. | Double Serp. | Supply | Return | Supply | Return | |
| 1039 | 1½ | 1¼ | 2½ | 1¼ | 1 | 1½ | 1½ | 1¼ | 1½ | 1¼ | 1½ | 1¼ | 2½ | 2½ | 2 | 2½ | 2 | |
| 2060 | 1½ | 1 | 1½ | 1¼ | 1 | 1½ | 1½ | 1¼ | 1½ | 1¼ | 1½ | 1¼ | 1½ | 1½ | 1¼ | 1½ | 1¼ | |
| 2083 | 1½ | 1¼ | 2½ | 1¼ | 1 | 1½ | 1½ | 1¼ | 1½ | 1¼ | 1½ | 1¼ | 2½ | 2½ | 2 | 2½ | 2 | |
| 2100 | 2 | 1¼ | 2½ | 1½ | 1 | 1½ | 1½ | 1¼ | 1½ | 1¼ | 2 | 1¼ | 2½ | 2½ | 2 | 2½ | 2 | |
| 2125 | 2 | 1½ | 3 | 1½ | 1 | 1½ | 1½ | 1¼ | 1½ | 1¼ | 2 | 1½ | 3 | 2½ | 2 | 2½ | 2 | |
| 2150 | 2 | 1½ | 3 | 1½ | 1 | 1½ | 1½ | 1¼ | 1½ | 1¼ | 2 | 1½ | 3 | 2½ | 2 | 2½ | 2 | |
| 2182 | 2 | 1½ | 3 | 1½ | 1 | 1½ | 1½ | 1¼ | 1½ | 1¼ | 2 | 1½ | 3 | 2½ | 2 | 2½ | 2 | |
| 2225 | 2½ | 1½ | 3 | 1½ | 1¼ | 2½ | 2½ | 2 | 2½ | 2 | 2½ | 1½ | 3 | 2½ | 2 | 2½ | 2 | |
| 2270 | 2½ | 1½ | 3 | 1½ | 1¼ | 2½ | 2½ | 2 | 2½ | 2 | 2½ | 1½ | 3 | 2½ | 2 | 2½ | 2 | |
| 2315 | 2½ | 2 | 3 | 2 | 1¼ | 2½ | 2½ | 2 | 2½ | 2 | 2½ | 2 | 3 | 2½ | 2 | 2½ | 2 | |
| 2390 | 3 | 2 | 3 | 2 | 1½ | 3 | 2½ | 2 | 2½ | 2 | 3 | 2 | 3 | 2½ | 2 | 2½ | 2 | |
| 2492 | 2-2 | 2-1½ | 2-3 | 2 | 1½ | 3 | 2½ | 2 | 2½ | 2 | 2-2 | 2-1½ | 2-3 | 2-2½ | 2-2 | 2-2½ | 2-2 | |
| 2600 | 2-2 | 2-1½ | 2-3 | 2 | 1½ | 3 | 2½ | 2 | 2½ | 2 | 2-2 | 2-1½ | 2-3 | 2-2½ | 2-2 | 2-2½ | 2-2 | |

HEADER LOCATION:

WATER COILS

Single Serpentine — 1, 3, 5, 7 Rows — Headers Opposite End.
 Single Serpentine — 2, 4, 6, 8 Rows — Headers Same End.
 Half Serpentine — 1 thru 8 Rows — Headers Same End.
 Double Serpentine — 4, 8 Rows — Headers Same End.
 Double Serpentine — 2, 6 Rows — Headers Opposite End.
 Cannot Double Serpentine Odd Row Coils

STEAM COILS

Headers Opposite End or Same End as Specified.
 Four row Standard Steam Coil connections are always same end.

Note: When steam pressure exceeds 30 PSI, same end connections are mandatory.

D.E. COILS — CONNECTION SIZES (INCHES)

| Connection Size (In. O.D.) | | ¾ | ½ | ¾ | 7/8 | 1 | 1¼ | 1½ | 1¾ | 2 | 2½ | 3 | 3½ | 4 |
|----------------------------|------|---------|-----|-----|-----|------|------|------|------|------|------|------|------|-------|
| CONNECTION CAPACITY (TONS) | R-12 | Liquid | .9 | 2.9 | 4.9 | 10.5 | 21.4 | 36.9 | 62.0 | | | | | |
| | | Suction | | | .5 | 1.1 | 2.6 | 4.5 | 6.8 | 12.1 | 24.0 | 38.2 | 55.7 | 78.0 |
| | R-22 | Liquid | 1.2 | 3.8 | 6.4 | 13.7 | 27.8 | 48.0 | 80.6 | | | | | |
| | | Suction | | | .6 | 1.4 | 3.4 | 5.8 | 8.8 | 15.7 | 31.2 | 49.6 | 72.3 | 101.3 |

Header Location — Determined by factory for optimum coil performance

APPROXIMATE REFRIGERANT CHARGE — 40° F. SUCTION TEMP.

| UNIT SIZE | 1039 | 2060 | 2083 | 2100 | 2125 | 2150 | 2182 | 2225 | 2270 | 2315 | 2390 | 2492 | 2600 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| R-12, Lbs. per Row | 2.6 | 4.0 | 5.6 | 6.8 | 8.5 | 10.2 | 12.3 | 15.3 | 18.4 | 21.4 | 26.5 | 33.5 | 40.8 |
| R-22, Lbs. per Row | 2.4 | 3.7 | 5.2 | 6.3 | 7.8 | 9.4 | 11.4 | 14.1 | 17.0 | 19.8 | 24.5 | 30.9 | 37.7 |

METAL GAUGES

| UNIT SIZE | 1039 Thru 2270 | 2315 Thru 2390 | 2492 Thru 2600 | UNIT SIZE | 1039 Thru 2270 | 2315 Thru 2390 | 2492 Thru 2600 |
|--|----------------|----------------|----------------------|--|---------------------|---------------------|---------------------|
| FAN SECTION Structure Access Panel Bearing Channel | 14 ③ 12 | 12 ③ 10 | 10 ③ 10 | FLAT FILTER SECTION Structure Panels | 16 ③ | 16 ③ | 11 ③ |
| COIL SECTION Structure Panels ③ | 14 16 | 12 16 | 10 16 | MIXING BOX OR ANGLE FILTER SECTION Structure Panels Damper Blades | 14 ② ① | 12 ② ① | 11 ② ① |
| DRAIN PAN Inner Liner | 14 16 | 14 16 | Sheet 16 Frame 10 12 | FACE & BY-PASS SECTION Structure End Panels Damper Blades By-Pass Duct | 14 14 ① 16 | 12 14 ① 16 | 10 10 ① 16 |
| ZONE DAMPER SECTION Structure Blades | 16 16 | 14 16 | 12 16 | ① Note: Damper Blades 1039 thru 2100 — 18 Ga. Damper Blades 2125 thru 2600 — 16 Ga. ② Note: All Panel Gauges under 7½ Sq. Ft. — 18 Ga. All Panel Gauges Over 7½ Sq. Ft. — 16 Ga. ③ Reinforced on MP units. | | | |

HUMIDIFIER CONNECTION SIZES

| PAN HUMIDIFIER | |
|-------------------------------------|-----------------------------|
| 1039/2390 | 2492 & 2600 |
| STEAM INLET ¾ O.D. | 1¾ O.D. |
| STEAM OUTLET ¾ O.D. | 1¾ O.D. |
| OVERFLOW ¾ O.D. | ¾ O.D. |
| MAKE UP VALVE ¼ COMPRESSION FITTING | MAKE UP VALVE ¼ COMPRESSION |
| GRID HUMIDIFIER | |
| 1039/2390 (QTY.) | 2492 & 2600 (QTY.) |
| STEAM INLET 1 ¼ M.P.T. | 2 ¼ M.P.T. |
| TARGET HUMIDIFIER | |
| 1039/2390 (QTY.) | 2492 & 2600 (QTY.) |
| WATER INLET 1 7/8 O.D. | 2 7/8 O.D. |

SUGGESTED ENGINEERING SPECIFICATIONS

The contractor shall furnish and install central station (Multi-Zone) (Dual Duct) units of the type, size, and capacity as set forth in the following schedule. Units shall be installed in strict accordance with the manufacturer's recommendations. Coil and filter face velocities are maximum allowable. The units shall be factory-assembled and tested as manufactured by the American Air Filter Company, Inc.

BASIC UNIT — GENERAL: Basic unit shall be five angle Penta-Post frame fabricated of heavy gauge steel for maximum strength and rigidity and minimum weight. Enclosure panels shall be of heavy gauge steel, flush mounted into the unit framework. All removable panels shall be double formed to enclose insulation edges. Insulation shall consist of 1/2" thick glass fiber fire-resistant material.

FAN SECTION: Fans shall be centrifugal, double inlet, double width. They shall be of the forward curved type on all sizes, with the option of backwardly inclined on units having 10 sq. ft. coil face area and larger. Bearings shall be self-aligning, grease-lubricated ball bearings sized to provide minimum average bearing life of 200,000 hours. Lubrication fittings must be provided on exterior of cabinet. Fan shaft shall be solid, continuous diameter, cold finished steel. An adjustable pivot base shall be provided in optional positions external to the unit. Fan V-belt drive shall be of variable pitch on all drives through 7 1/2 H.P. (Constant Pitch) (Adjustable Pitch) shall be furnished with 10 H.P. motors and larger. Fan belt guards shall be furnished by the unit manufacturer, easily removable, and made of solid steel with tachometer openings.

COIL SECTION shall be constructed of heavy gauge steel with removable panels. Coil section panels shall be reinforced on Medium Pressure units. The coil section shall be arranged for removal of the coil from either end of the unit. Drain pan shall be insulated with 1/2" thick, rigid polyurethane and pitched for even flow of condensate with side drain connections on both sides.

Zoning dampers shall be provided for—zones with stationary, full perimeter, flexible gaskets for each damper blade. Damper linkage shall be provided, for required zones, but easily modified in the field.

COILS (Strike out paragraphs not applicable)

Water Coils shall consist of 5/8" OD copper tubing spaced on 1 1/2" centers arranged in a staggered pattern with respect to adjacent tubes. They shall consist of continuous configured plate-type (aluminum) (copper) fins spaced at (8) (11) (14) fins per inch.

Standard Steam Coil shall consist of 5/8" OD copper tubes spaced on 1 1/2" centers. Continuous configured plate-type (aluminum) (copper) fins shall be spaced at (8) (11) (14) fins per inch.

Steam Distributing Coil shall have 1" O.D. condensing and 5/8" O.D. distributing seamless copper tubes spaced on 3" centers. Distributing tubes shall be centered in condensing tubes by integrally formed supports containing steam metering orifices. Continuous configured plate (aluminum) (copper) fins shall be spaced at (4) (6) (8) (10) (12) fins per inch.

Direct expansion coil shall be 5/8" OD seamless copper tubing spaced on 1 1/2" centers arranged in a staggered pattern with respect to adjacent tubes. The fins shall be of continuous configured plate type (aluminum) (copper) spaced at (8) (11) (14) fins per inch. The coil shall be tested with 300 lbs. pneumatic pressure under water and dehydrated in a 250°F. oven under a vacuum of 1000 microns.

FACE AND BY-PASS DAMPER section shall consist of heavy gauge steel with all panels flush mounted. The dampers shall be precision die-stamped opposed-acting blades in a unitary framework. The damper and framework shall be of galvanized steel with damper pivot rods rotating in self-lubricating nylon bushings. Inter-connecting damper linkage shall be furnished.

FILTER BOXES shall be constructed of heavy gauge steel with filters supported by internal slides and removable from either end through quick opening panels.

FILTERS (Strike out paragraphs not applicable)

Throwaway filters in a (flat) (angle) bank arrangement shall be furnished. The filters shall consist of 2" thick continuous glass fibers coated with an adhesive with progressive packing. The filters shall be type AMERglas and manufactured by the unit manufacturer.

Cleanable filters shall be 2" thick of the high velocity type consisting of pyramid-shape pockets with a double thickness of viscous coated screen wire in the side walls of the pockets. The filters shall be type HV-2 and manufactured by the unit manufacturer.

Renewable filters shall be "Renu Filter" as manufactured by American Air Filter consisting of galvanized steel hinged frame with renewable 2" thick glass fiber pads. (2" thick washable polyurethane pad may be substituted for glass fiber pad.)

DRI-Pak filters shall be as manufactured by American Air Filter, mounted in factory built housing designed by filter manufacturer and shall include full perimeter spring tension pressure frame and quick opening access doors.

AUTOMATIC FILTERS (Strike out paragraphs not applicable)

Air filter shall be of the automatic renewable media type. The filtering media shall be a glass fiber material of progressive density both in number and diameter of the glass fibers. The filter shall be Type H Roll-O-Matic type and manufactured by the unit manufacturer.

Electronic air filter shall be of sufficient capacity to clean specified air volume with an efficiency of not less than 90% as measured by the NBS Dust Spot Test Method using atmospheric dust. It shall consist of agglomerating section and a storage section. The filter shall be of the Type H Rollotron type and manufactured by the unit manufacturer.

Electronic air filter shall be furnished of correct size to clean the specified volume of air with an efficiency of not less than 90% by the U. S. Bureau of Standards Dust Spot Test Method. The filter shall be Type HV Electro-Cell type and manufactured by the unit manufacturer.

MIXING DAMPER section (combination mixing damper section) shall be furnished with opposed acting, inter-connected, galvanized steel blades. The damper pivot rods shall rotate in self-lubricating nylon bushings.

HUMIDIFIERS (Strike out paragraphs not applicable)

Target humidifier shall consist of self-cleaning target type nozzles mounted on a copper header. Nozzle shall be capable of providing suitable spray with not less than 25 PSIG water pressure.

Steam grid humidifier shall consist of an orificed copper tube in which steam is introduced through an asbestos sheathing.

Pan type humidifier shall consist of a copper pan into which make-up water is introduced with a float valve control. The water shall be vaporized with an immersed steam coil.

APPROXIMATE NET WEIGHTS — LBS.

| Unit | Coil Section | 6-Row Cooling & 2-Row Heating Note 1 | 8-Row Cooling & 4-Row Heating Note 1 | Fan Section | Flat Filter | Angle Filter | Mixing Box | Preheat Coil 4-Rows Notes 1, 2 | Face and By-Pass |
|------|--------------|--------------------------------------|--------------------------------------|-------------|-------------|--------------|------------|--------------------------------|------------------|
| 1039 | 275 | 100 | 200 | 225 | 50 | 90 | 180 | 150 | 80 |
| 2060 | 400 | 225 | 300 | 300 | 70 | 125 | 250 | 225 | 100 |
| 2083 | 525 | 275 | 375 | 375 | 95 | 165 | 320 | 300 | 150 |
| 2100 | 600 | 325 | 450 | 400 | 115 | 190 | 340 | 350 | 175 |
| 2125 | 700 | 375 | 520 | 500 | 130 | 240 | 415 | 375 | 200 |
| 2150 | 825 | 475 | 650 | 575 | 140 | 265 | 490 | 450 | 250 |
| 2182 | 975 | 550 | 775 | 725 | 160 | 320 | 585 | 525 | 300 |
| 2225 | 1150 | 675 | 950 | 875 | 220 | 390 | 690 | 650 | 350 |
| 2270 | 1350 | 825 | 1150 | 1025 | 260 | 470 | 820 | 775 | 400 |
| 2315 | 1550 | 925 | 1300 | 1200 | 295 | 525 | 950 | 900 | 450 |
| 2390 | 1850 | 1100 | 1500 | 1425 | 350 | 650 | 1150 | 1075 | 525 |
| 2492 | 2475 | 1425 | 1975 | 1925 | 445 | 810 | 1435 | 1325 | 625 |
| 2600 | 2850 | 1675 | 2275 | 2300 | 515 | 945 | 1695 | 1700 | 750 |

Notes: 1. Coil weights based on 8FPI, aluminum fins.
2. Preheat coil weight includes section.

3. For water coil operating weight, add 1.06 lb./ft.² face area per row deep.