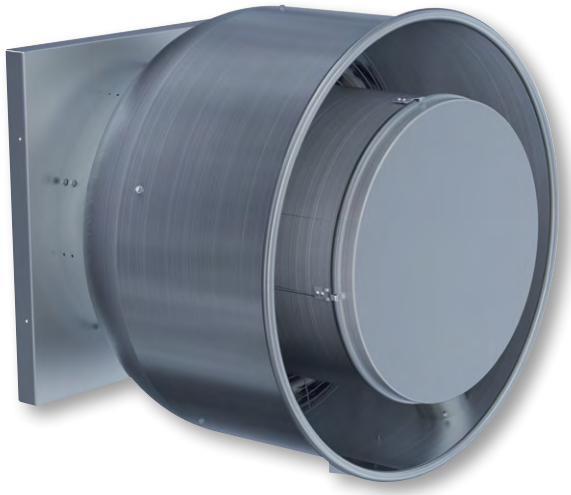
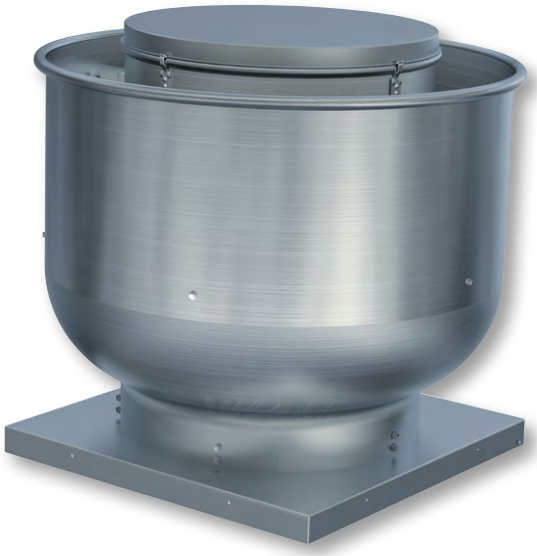
TURNING AIR INTO SOLUTIONS.

Fan & Blower

Twin City





UPBLAST ROOF, WALL & KITCHEN EXHAUSTERS

DCRU | DCRUR | DCRW | DCRWR | BCRU | BCRUR | BCRW | BCRWR | BCRUSH

CATALOG 4105
April 2018

Overview

Roof & Wall Exhausters

Model DCRU
With GridSmart™ EC Motor

Now Available with

GRIDSMART™ EC MOTORS

see page 10

Twin City Fan & Blower's line of quiet, efficient, and economical spun aluminum centrifugal power roof and wall exhausters are designed to offer value and long-lasting service in a wide variety of commercial and industrial ventilating applications.

Typical Applications Include
Agriculture, Automotive, Boilers, Brick, Car Wash, Commercial Plan & Spec, Composting, Ethanol, Food & Beverage, Foundry, General Manufacturing, Glass, HVAC, Institutional & Hospitality, Metal & Minerals, Microchip, OEM, Pharmaceutical, Power Generation, Recycling, Textile, Transportation

Configurations
Upblast and Wall Mounted, Direct Drive and Belt Driven Configurations

Wheel Types
Backward Inclined Centrifugal

Optional Construction
Special Coatings, Spark Resistant, UL 705, UL 762, UL Smoke & Heat

Certifications
AMCA Sound/Air and FEG, UL 705 Listed for Electrical, UL 762 Listed for Grease-Laden Air, UL Listed for Smoke Control Systems, OSHPD Seismic Preapproval per OSP-0395-10, Miami-Dade County Hurricane Rating per NOA No. 12-0914.12

DCRU, DCRUR, DCRW, DCRWR, BCRU, BCRUR, BCRW, BCRWR and BCRUSH models are cULus 705 listed, for electrical, File No. E158680.

DCRUR, DCRWR, BCRUR, and BCRWR models are cULus 762 listed, for the exhaust of grease-laden air, File No. E158680.

Model BCRUSH is UL listed for Smoke Control Systems, File No. E158680, 500°F for 4 hours and 1000°F for 15 minutes.

Twin City Fan & Blower certifies that the DCRU, DCRUR, DCRW, DCRWR, BCRU, BCRUR, BCRW, BCRWR and BCRUSH Series shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Fan Efficiency Grade (FEG) certification applies to the models and sizes shown in the table on page 11.

Fan & Blower Twin City

For complete product performance, drawings, and available accessories, Download Fan Selector 10 at tcf.com.

Overview

Models

General Exhaust

DCRU (Direct Drive)
8.38" to 18.25" wheel diameters
Airflow to 3,865 CFM
Static pressure to 1.5" w.g.

BCRU (Belt Driven)
12.25" to 49.21" wheel diameters
Airflow to 29,100 CFM
Static pressure to 3.25" w.g.

DCRW (Direct Drive)
8.38" to 18.25" wheel diameters
Airflow to 3,865 CFM
Static pressure to 1.5" w.g.

BCRW (Belt Driven)
12.25" to 31.5" wheel diameters
Airflow to 15,100 CFM
Static pressure to 3.25" w.g.

General HVAC
Roof & Wall Exhaust

Kitchen & Restaurant Fans

DCRUR (Direct Drive)
8.38" to 18.25" wheel diameters
Airflow to 3,865 CFM
Static pressure to 1.5" w.g.

BCRUR (Belt Driven)
12.25" to 39.37" wheel diameters
Airflow to 20,700 CFM
Static pressure to 3.25" w.g.

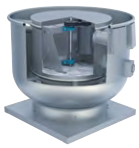
DCRWR (Direct Drive)
8.38" to 18.25" wheel diameters
Airflow to 3,865 CFM
Static pressure to 1.5" w.g.

BCRWR (Belt Driven)
12.25" to 31.5" wheel diameters
Airflow to 15,100 CFM
Static pressure to 3.25" w.g.

Restaurant Exhaust and
Smoke & Heat (Emergency Smoke Control)

Smoke & Heat Exhaust

BCRUSH (Belt Driven)
12.25" to 49.21" wheel diameters
Airflow to 29,100 CFM
Static pressure to 3.25" w.g.



Temperature Rating
500°F for 4 Hours
1000°F for 1 Hour

General Exhaust

Upblast Roof Exhausters

Models DCRU & BCRU

Models DCRU/BCRU are designed for roof mounted exhaust of clean air in applications where it is desirable to move the exhausted air up and away from the building, and where re-entry into the building supply air is possible.

Model DCRU (Direct Drive)

> Available in 14 sizes from size 071 to 180
> All sizes are speed controllable with ODP 115V motors
> Available with EC Motor
> Airflow to 3,865 CFM
> Static pressure to 1.5" w.g.
> AMCA Licensed for Sound, Air and Fan Efficiency Grade
> UL 705 listed

Model BCRU (Belt Driven)

> Available in 20 sizes from size 110 to 480, including seven high-pressure models
> Airflow to 29,100 CFM
> Static pressure to 3.25" w.g.
> AMCA Licensed for Sound, Air and Fan Efficiency Grade
> UL 705 listed

Wall Exhausters

Models DCRW & BCRW

Models DCRW/BCRW are designed for general exhaust of clean air in a wall-mounted, horizontal configuration. The wall-mounted fans are supplied with a heavy-duty 4" wall-mounting bracket. A 10" wall-mounting bracket is supplied when a gravity or motorized damper is utilized.

Model DCRW (Direct Drive)

> Available in 14 sizes from size 071 to 180
> All sizes are speed controllable with ODP 115V motors
> Available with EC Motor
> Airflow to 3,865 CFM
> Static pressure to 1.5" w.g.
> AMCA Licensed for Sound, Air and Fan Efficiency Grade
> UL 705 listed

Model BCRW (Belt Driven)

> Available in 16 sizes from size 110 to 300, including six high-pressure models
> Airflow to 15,100 CFM
> Static pressure to 3.25" w.g.
> AMCA Licensed for Sound, Air and Fan Efficiency Grade
> UL 705 listed

Kitchen Exhaust

Models DCRUR & BCRUR

Models DCRUR/BCRUR are similar to the DCRU/BCRU, but are specifically designed for exhausting grease-laden air from kitchens, restaurants, cooking and dishwasher hoods. Twin City Fan & Blower also offers grease collection systems for kitchen and restaurant use.

Model DCRUR (Direct Drive)

> Available in 14 sizes from size 071 to 180
> All sizes are speed controllable with ODP 115V motors
> Available with EC Motor
> Airflow to 3,865 CFM
> Static pressure to 1.5" w.g.
> AMCA Licensed for Sound, Air and Fan Efficiency Grade
> UL 762 listed for Grease Laden Air

Model BCRUR (Belt Driven)

> Available in 18 sizes from size 110 to 360, including seven high-pressure models
> Airflow to 20,700 CFM
> Static pressure to 3.25" w.g.
> AMCA Licensed for Sound, Air and Fan Efficiency Grade
> UL 762 listed for Grease Laden Air

Upblast Roof Exhausters

Models DCRWR & BCRWR

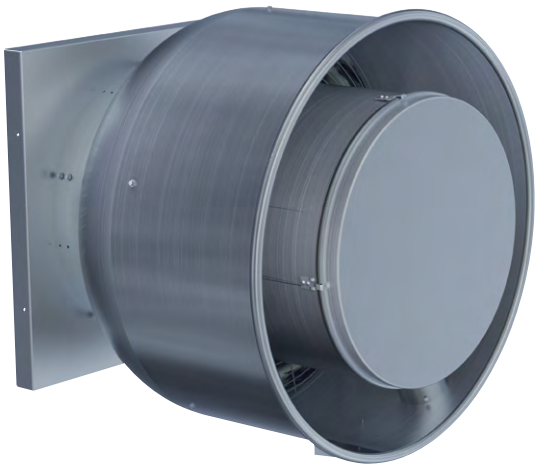
Models DCRW/BCRW are designed for general exhaust of clean air in a wall-mounted, horizontal configuration.

Model DCRWR (Direct Drive)

> Available in 14 sizes from size 071 to 180
> All sizes are speed controllable with ODP 115V motors
> Available with EC Motor
> Airflow to 3,865 CFM
> Static pressure to 1.5" w.g.
> AMCA Licensed for Sound, Air and Fan Efficiency Grade
> UL 762 Listed

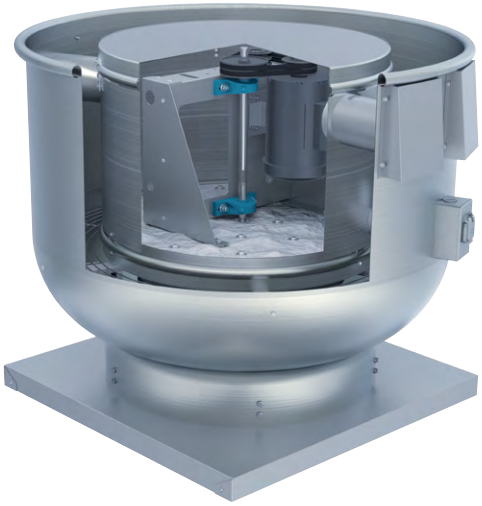
Model BCRWR (Belt Driven)

> Available in 16 sizes from size 110 to 300, including six high-pressure models
> Airflow to 15,100 CFM
> Static pressure to 3.25" w.g.
> AMCA Licensed for Sound, Air and Fan Efficiency Grade
> UL 762 Listed



Wall Exhausters

Smoke & Heat Exhaust



Upblast Roof Exhausters

Model BCRUSH (Belt Driven)

Model BCRUSH is specifically designed for smoke control applications where temperatures can reach 1000°F and is designed to remove smoke from buildings in the event of a fire. The BCRUSH is UL listed for Smoke Control Systems, 500°F (260°C) for 4 hours and 1000°F (537°C) for 15 minutes.

> Available in 11 sizes from 110 to 480
> Airflow to 29,100 CFM
> Static pressure to 3.25" w.g.
> AMCA Licensed for Sound, Air and Fan Efficiency Grade
> UL listed for Smoke Control Systems

Unique Features

> Steel Wheel – Provides rigidity when exposed to high temperature airstreams.
> Multiple Cooling Tubes – Provide cooling by drawing outside air into the motor and drive compartment.
> Insulation – Bottom of motor compartment and wire-way are insulated with ceramic insulation rated to 2000°F.
> Dual Groove Drive – Oversized for added assurance.
> Aluminum Nameplate – For future identification.

INSTALLATIONS

General HVAC

Emergency Smoke Control

Kitchen/Restaurant Exhaust

Exploded View

Motor Cover Provides complete protection for the motor and drive assembly, while allowing quick access to these components without the need for tools.

Motor Housing Constructed from heavy-gauge aluminum for durability and appearance. Includes conduit tubing for routing electrical wiring through the outer shroud and into the motor compartment.

Motors ODP, TEFC and explosion proof, single and three phase motors are carefully matched to the fan load.

Vibration Isolation Motor and drive assembly is completely isolated from the fan supports by rubber isolators to reduce transmission of noise and vibration (all models except BCRUSH).

Drive (Belt Driven) Adjustable pitch V-belt drives with cast iron sheaves and heat resistant belts are selected at 150% of the driven motor horsepower. Drives on model BCRUSH are dual groove as standard.

Bearings (Belt Driven) Heavy-duty re-greaseable pillow block ball bearings are specifically designed for air handling applications to provide an average life (L-50) of 500,000 hours or more at maximum cataloged operating speeds.

Shaft (Belt Driven) Precision ground and polished with a first critical speed of at least 125% of the fan's maximum operating speed.

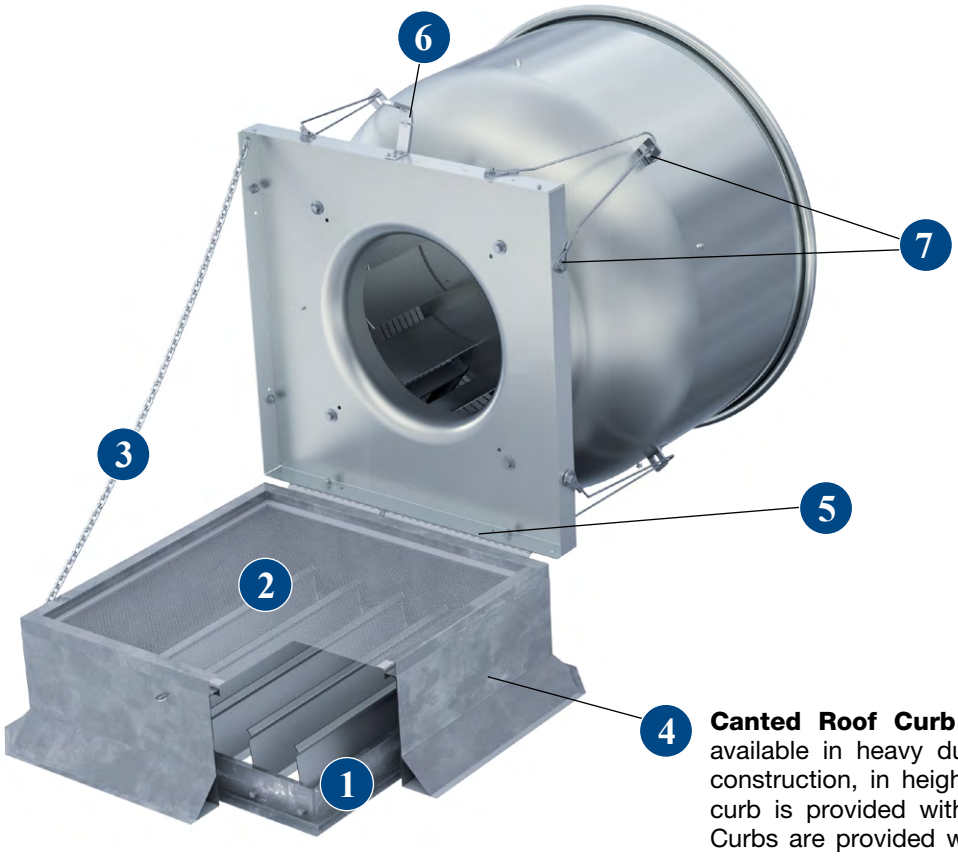
Galvanized Birdscreen Protects the wheel, inlet, and internal components from entry of birds. Optional on models BCRUR and DCRUR. Standard on 'WR' models.

Wheel Quiet and efficient non-overloading, heavy-gauge wheels with backwardly curved blades are precisely matched to a deep spun venturi. All wheels are statically and dynamically balanced to ensure smooth and quiet operation.

Fan Shroud Heavy-gauge spun aluminum with rolled bead edge provides rigidity. Motor cooling tubes are incorporated into the exterior of shroud to draw outside air into the motor and drive compartment.

Curb Cap One-piece curb cap/inlet venturi assembly provides protection from weather. Pre-punched mounting holes provide easy and accurate attachment to the roof curb.

OPTIONS/ACCESSORIES



1 **Backdraft Damper (DCRU, BCRU)** with automatic or motorized operation, feature a felt seal on the edge of the damper blades for quiet operation. Damper frames are constructed of 19-gauge galvanized steel and blades are constructed of 26-gauge aluminum.

Motorized dampers are recommended for low CFM applications to assure unrestricted airflow. Motorized dampers are available with 115, 208, 230, 460, 575 or 24 volt service. End switches are available. When a motorized damper option is selected a 12" (or greater) high roof curb is required.

(DCRW, BCRW) with automatic or motorized operation, feature a vinyl seal on the edge of the damper blades for quiet operation. Damper frames are constructed of 20-gauge galvanized steel and blades are constructed of 26-gauge aluminum.

Motorized dampers are available with 115, 208, 230, 460, or 575 volt service, and have end switches as standard.

2 **Aluminum Insect Screen** Provides protection from entry of insects into wheel, inlet and interior of building. Available for DCRU, DCRW, BCRU and BCRW fans only.

3 **Retaining Chain** is available in conjunction with the curb hinge arrangement to stabilize the unit and to prevent damage from occurring to the unit while servicing and cleaning.

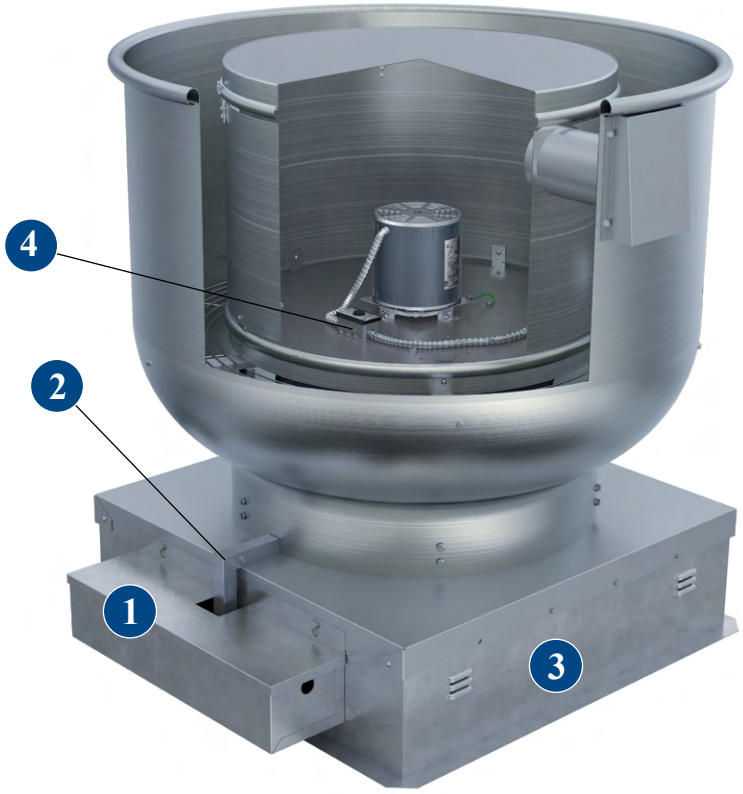
4 **Canted Roof Curb** Prefabricated roof curbs are available in heavy duty galvanized steel or aluminum construction, in heights of 8", 12" or 18". The canted curb is provided with a factory installed wood nailer. Curbs are provided with 1.5" of insulation as standard and feature continuously welded seams for added rigidity and moisture protection. Prefabricated curbs are also available in raised cant, pitched and peak models. See page 10 for additional information on roof curbs. Minimum 12" high curbs are recommended for use with motorized dampers.

5 **Curb Hinge** The curb hinge arrangement provides easy access to the exhaust fan, backdraft damper and duct for servicing and cleaning. The curb hinge is of the piano type, running the entire length of the fan's curb base. The curb hinge option ships loose and is designed for use with a standard canted curb only (1.5" less than fan base). This option cannot be used with self-flashing curbs. Available as an option on models DCRU, DCRUR, BCRU, BCRUR and BCRUSH.

6 **Security Hasp** is available in conjunction with the curb hinge arrangement to prevent removal of the unit from the roof curb and prevent entrance into the building through the roof's ductwork.

7 **Tie-Down Brackets** A quantity of four brackets are mounted to the fan shroud to allow the fan to be secured to the roof in areas where high winds are a concern. Guy wires are supplied and installed by others.

OPTIONS/ACCESSORIES



1 **Grease Box** Removable, for disposal of collected grease. Available for DCRUR and BCRUR fans only.

2 **Drain Connection (Downspout)** Removable, for disposal of collected grease. Available for DCRUR & BCRUR fans only.

3 **Vented Roof Curbs** Self-flashing style curbs with ventilation louvers allow ambient air in to cool and dilute grease- or smoke-laden airstreams. Available for DCRUR, BCRUR and BCRUSH fans only.

4 **Variable Speed Control** Variable speed control is an optional accessory on all DCRU, DCRUR, DCRW and DCRWR models with 115 volt, open type speed-controllable motors, to allow the adjustment of airflow for system balancing. Variable speed controllers are solid-state (Tri-ac) design and feature an RFI filter, minimum speed trim adjustment capability, and a built-in on/off line switch. The speed controller is designed to start the motor on high speed for better startup characteristics. Variable speed controls have the option of being shipped separately, factory installed, or field installed on the unit at a later date. Motor must be ODP 115V PSC or shaded pole type.

OTHER ACCESSORIES/OPTIONS:

- Special Coatings
- Straight Sided Roof Curb
- 2-Speed Switch (Single Phase, 1 HP and below)
- Firestat (Single Phase)
- AMCA Spark B
- Performance Baffle
- Aluminum Bird Screen
- Miami Dade Construction
- Stainless Steel Hardware
- Stainless Steel Shaft
- NEMA 4 Disconnect Switch (see page 11)
- NEMA 3R Disconnect Switch (see page 11)

Fan & Blower Twin City

ELECTRONICALLY COMMUTATED MOTORS

Model DCRU
with GridSmart™ EC Motor

Twin City Fan & Blower offers its own line of custom engineered Electronically Commutated (EC) motors. Electronic commutation is the latest motor technology to be used in direct drive fans. Also known in the industry as Brush Free or Brushless DC, the EC motors utilize an electronic circuit board to control the functionality of the motor. The motor operates off of single phase AC power, which is converted to DC power within the motor's circuitry. TCF has motor options available for 115V, 208-230V or 277V single phase electrical power. The result is a highly efficient motor, even at part load, with an expanded speed control range and a variety of speed control options from which to choose. EC motors are available in ODP, TENV and TEFC enclosures.

GRIDSMART™ EC MOTORS

Benefits

- Efficiencies up to 85%
- Constant efficiency as the motor speed is varied
- Up to 66% energy savings over traditional PSC motors
- Performance range comparable to a belt drive fan with reduced maintenance benefits of a direct drive fan
- 80% usable turndown range as compared with 40% maximum on PSC motors
- Soft start gives fans smooth, quiet start
- Lower operating temperatures result in longer life and reduces energy consumption
- Heavy-duty ball bearings are permanently lubricated
- Elimination of VFD results in lower initial cost

Fan & Blower Twin City

EC Motor Options

1/6HP to 1HP

- 1/6HP: 115V, single phase
- 1/4HP – 1HP: 115V, 208-230V, 277V, single phase
- ODP or TENV enclosure
- Motor mounted speed control dial as standard
- 0-10VDC control leads as standard
- Available with remote mounted speed control dial

1HP & 2HP

- 1HP: 115V, 208-230V, single phase
- 2HP: 208-230V, single phase
- TEFC enclosure (totally enclosed fan cooled)
- Available with motor mounted speed dial or 0-10VDC control lead

1HP & 2HP
GridSmart™ EC Motors

1/6HP to 1HP
GridSmart™ EC Motors

NEMA 1 Disconnect Switch

A NEMA 1 disconnect switch provides positive electrical shutoff during fan cleaning or maintenance of fan. DCRU, DCRW, BCRU and BCRW fans are provided with a NEMA 1 type disconnect switch in the motor compartment when ODP or TEFC motors are used.

NEMA 1 Disconnect Switch

NEMA 3R Disconnect Switch

DCRUR, DCRWR, BCRUR, BCRWR and BCRUSH fans are provided with a NEMA 3R rain-tight disconnect switch, externally mounted when ODP or TEFC motors are used. NEMA 3R, rain proof, disconnects are available shipped loose for field mounting and wiring or factory mounted and wired on models DCRU, DCRW, BCRU and BCRW.

NEMA 4 Disconnect Switch

A NEMA 4 disconnect switch (optional) is mounted externally and is water- and dust-tight. Switch is available shipped loose for field mounting and wiring or factory mounted and wired. NEMA 3R enclosure is also available.

NEMA 3R Disconnect Switch

NEMA 7/9 Disconnect Switch

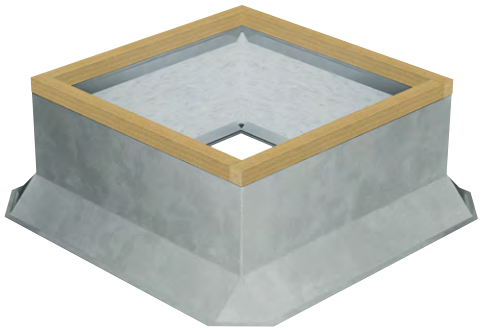
NEMA 7/9 disconnect switches are provided as standard on fan packages with explosion proof motors. The NEMA 7/9 switch is designed for use with fans operating in hazardous environments. When explosion proof motors are specified, NEMA 7/9 disconnects will be shipped loose for field mounting and wiring. (Not shown.)

MODEL	STANDARD DISCONNECT SWITCH			
	NEMA 1	NEMA 3R	NEMA 4	NEMA 7/9
DCRU	Standard	Optional	Optional	Standard, w/EXP motor*
DCRUR	—	Standard	Optional	Standard, w/EXP motor*
DCRW	Standard	Optional	Optional	Standard, w/EXP motor*
DCRWR	—	Standard	Optional	Standard, w/EXP motor*
BCRU	Standard	Optional	Optional	Standard, w/EXP motor*
BCRUR	—	Standard	Optional	Standard, w/EXP motor*
BCRW	Standard	Optional	Optional	Standard, w/EXP motor*
BCRWR	—	Standard	Optional	Standard, w/EXP motor*
BCRUSH	—	Standard	Optional	Standard, w/EXP motor*

* Always ships loose

NEMA 4 Disconnect Switch

Overview



Canted Roof Curbs

- Constructed of 18-gauge galvanized steel with continuous welded seams
- Large 3" built-in 45° cant to accommodate roofing material to top of curb. Cant is beveled at corners for better support of roofing material
- Wood nailer (1½") secured to top ledge
- Lined with 1½" fiberglass fire-resistant, sound-absorbing insulation
- Damper shelf standard
- Options: Aluminum (16-gauge) construction, burglar security bars, metal liner (galvanized or aluminum), special heights up to 24", single or double pitched curbs for sloping roofs

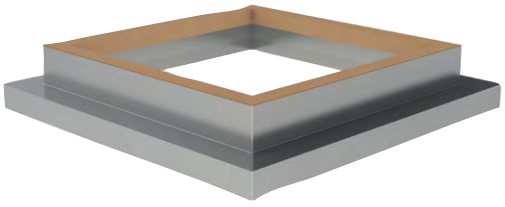
Self Flashing & Straight Sided Roof Curbs

- Constructed of 18-gauge galvanized steel with continuous welded seams
- Wide base plate (flashing) to insure watertight seal to roof
- Top ledge covered with 3⁄16" polystyrene gasket for weather seal and to reduce metal-to-metal conducted noise
- Lined with 1½" fiberglass fire-resistant, sound-absorbing insulation
- Damper shelf standard
- Straight-sided roof curbs are constructed with the same features as the self-flashing curbs, but are one dimensional to allow for field supplied cants and roofing material to be brought up to the top of the curb
- Options: Aluminum (16-gauge) construction, burglar security bars, metal liner (galvanized or aluminum), special heights up to 24", wood nailer (1½") secured to top ledge in lieu of polystyrene gasket, single or double pitched curbs for sloping roofs

Self Flashing Vented Roof Curbs

For High Temperature Applications

- Completely assembled unit, easier to install and less expensive than a field constructed curb
- Constructed of 18-gauge galvanized steel with continuous welded seams and wide base flashing for watertight seal to roof
- Meets NFPA-96 code requirements
- Top ledge covered with 3⁄16" polystyrene gasket
- Furnished with ventilation slots



Curb Adapters

- Constructed of heavy-gauge galvanized steel with continuous welded seams
- Top ledge covered with 3⁄16" polystyrene gasket to reduce metal-to-metal conducted noise and act as a weather seal
- Available in enlarger or reducer (shown) models

Direct Drive

DCRU / DCRUR / DCRW / DCRWR

EC MOTOR SIZE	EC MOTOR MTR HP	PSC MOTOR SIZE	PSC MOTOR MTR HP	RPM	STATIC PRESSURE (INCHES W.G.) 0	0.125	0.25	0.375	0.50	0.625	0.75	1.00	1.25	1.50
					CFM / BHP / Sone									
---	---	071B	1/8	860	193 / 0.01 / 3.9									
---	---	072B	1/8	1160	260 / 0.04 / 4.3	184 / 0.04 / 4.1								
---	---	073B	1/8	1650	370 / 0.10 / 5.3	320 / 0.10 / 5.0	264 / 0.10 / 4.1	185 / 0.10 / 4.2						
073BE	1/6	---	---	1750	392 / 0.12 / 5.9	345 / 0.12 / 5.7	294 / 0.12 / 4.5	226 / 0.12 / 5.0						
083BE	1/4	081B	1/8	860	259 / 0.11 / 2.6	80 / 0.12 / 3.2								
		082B	1/8	1160	494 / 0.10 / 6.6	424 / 0.10 / 6.2	330 / 0.10 / 6.1							
		083B	1/3	1750	763 / 0.20 / 9.1	715 / 0.21 / 9.1	664 / 0.21 / 8.8	610 / 0.22 / 8.1	545 / 0.22 / 8.3	472 / 0.22 / 8.6	390 / 0.21 / 8.2			
093BE	1/4	091B	1/8	860	591 / 0.04 / 6.7	408 / 0.04 / 6.5								
		092B	1/8	1160	797 / 0.09 / 7.5	667 / 0.10 / 6.8	518 / 0.10 / 7.1	306 / 0.09 / 6.4						
		093B	1/3	1750	1295 / 0.24 / 10.6	1208 / 0.25 / 10.6	1113 / 0.26 / 10.0	1009 / 0.27 / 9.1	899 / 0.27 / 9.4	766 / 0.27 / 9.5	608 / 0.26 / 9.1			
110BE	1/2	110B	1/8	860	805 / 0.04 / 4.9	698 / 0.05 / 4.3	566 / 0.05 / 4.5							
			1/8	1160	1086 / 0.10 / 8.2	1008 / 0.11 / 8.0	926 / 0.11 / 7.0	833 / 0.11 / 7.2	720 / 0.11 / 7.0	537 / 0.10 / 6.1				
			1/2	1750	1638 / 0.35 / 15.7	1588 / 0.36 / 15.7	1536 / 0.37 / 15.7	1482 / 0.37 / 14.2	1427 / 0.38 / 13.5	1371 / 0.38 / 12.9	1311 / 0.39 / 12.9	1173 / 0.39 / 14.0	1005 / 0.39 / 12.1	
120BE	3/4	120B	1/8	860	1109 / 0.06 / 6.3	982 / 0.07 / 5.6	862 / 0.07 / 5.5	691 / 0.07 / 4.9						
			1/4	1160	1495 / 0.16 / 10.0	1399 / 0.17 / 9.9	1309 / 0.17 / 8.6	1225 / 0.18 / 8.5	1122 / 0.18 / 9.2	997 / 0.18 / 8.8				
			3/4	1750	2256 / 0.54 / 18.5	2190 / 0.55 / 18.5	2127 / 0.57 / 18.5	2065 / 0.58 / 17.5	2006 / 0.59 / 16.4	1950 / 0.60 / 16.1	1895 / 0.61 / 15.5	1773 / 0.62 / 16.0	1620 / 0.63 / 17.1	1448 / 0.62 / 16.0
140BE	1, 2	140B	1/8	860	1676 / 0.11 / 8.6	1512 / 0.12 / 7.8	1358 / 0.13 / 7.3	1155 / 0.13 / 7.7						
			1/2	1160	2261 / 0.27 / 13.6	2138 / 0.29 / 13.6	2019 / 0.30 / 12.0	1907 / 0.31 / 11.2	1785 / 0.32 / 11.8	1634 / 0.32 / 12.2	1465 / 0.32 / 11.1			
		---	---	1750	3411 / 0.94 / 27	3329 / 0.96 / 27	3248 / 0.98 / 27	3168 / 1.00 / 26	3089 / 1.02 / 24	3012 / 1.04 / 22	2938 / 1.06 / 21	2786 / 1.09 / 21	2608 / 1.10 / 22	2397 / 1.10 / 22
160BE	1	160B	1/4	860	2167 / 0.18 / 11.3	1914 / 0.19 / 9.4	1769 / 0.20 / 8.7	1597 / 0.20 / 9.5	1380 / 0.20 / 8.6					
			1/2	1160	2923 / 0.43 / 17.2	2700 / 0.46 / 17.0	2561 / 0.47 / 14.3	2453 / 0.48 / 13.4	2344 / 0.49 / 13.4	2216 / 0.49 / 14.3	2075 / 0.49 / 14.5	1713 / 0.49 / 11.2		
	1	---	---	1200	3024 / 0.48 / 18.1	2805 / 0.50 / 18.1	2665 / 0.52 / 15.2	2559 / 0.53 / 14.2	2456 / 0.54 / 14.2	2337 / 0.54 / 15.1	2206 / 0.55 / 15.3	1886 / 0.55 / 13.4		
	2	---	---	1750	4410 / 1.48 / 33	4234 / 1.53 / 33	4105 / 1.56 / 33	3997 / 1.58 / 29	3906 / 1.60 / 27	3830 / 1.61 / 26	3759 / 1.63 / 26	3619 / 1.65 / 25	3462 / 1.68 / 26	3288 / 1.69 / 27
180BE	1	180B	1/2	860	2866 / 0.29 / 11.9	2685 / 0.31 / 11.9	2504 / 0.32 / 10.6	2321 / 0.33 / 9.6	2091 / 0.34 / 10.1	1839 / 0.34 / 9.9	1550 / 0.33 / 8.8			
			1	1100	3665 / 0.61 / 16.4	3524 / 0.63 / 16.4	3382 / 0.65 / 16.7	3240 / 0.66 / 15.5	3102 / 0.68 / 14.8	2955 / 0.69 / 14.2	2780 / 0.71 / 14.7	2389 / 0.71 / 15.1	1931 / 0.68 / 13.2	
	1			1160	3865 / 0.71 / 17.6	3731 / 0.73 / 17.6	3597 / 0.75 / 18.5	3462 / 0.77 / 17.5	3330 / 0.79 / 16.4	3196 / 0.81 / 15.8	3047 / 0.82 / 15.8	2685 / 0.84 / 16.8	2296 / 0.83 / 15.6	
	2	---	---	1400	4665 / 1.25 / 23	4554 / 1.28 / 23	4443 / 1.30 / 23	4331 / 1.33 / 23	4219 / 1.35 / 22	4109 / 1.37 / 22	4000 / 1.39 / 22	3773 / 1.43 / 22	3496 / 1.46 / 22	3188 / 1.48 / 23

EC Motor is an Electronically Commutated Motor.
PSC Motor is a Permanent Split Capacitor Motor.

NOTES:
1. Performance certified is for Installation Type A: Free inlet, free outlet.
2. Power rating (BHP) does not include transmission losses.
3. Performance ratings do not include the effects of appurtenances (accessories).
4. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301.
5. Values shown are for Installation Type A: Free inlet hemispherical sone levels.
6. All sizes are available with variable speed control.

Fan Efficiency Grade

MODEL	FAN SIZE	OUTLET AREA (ft²)	FEG
DCRU/DCRUR/ DCRW/DCRWR	140B	2.68	FEG63
	140BE	2.68	FEG63
	160B	2.68	FEG60
	160BE	2.68	FEG60
	180B	3.86	FEG60
	180BE	3.86	FEG60
BCRU/BCRUR/ BCRW/BCRWR/ BCRUSH	140B	2.68	FEG63
	160BMP	2.68	FEG60
	160BHP	2.68	FEG63
	180BMP	3.86	FEG60
	180BHP	3.86	FEG63

MODEL	FAN SIZE	OUTLET AREA (ft²)	FEG
BCRU/BCRUR/ BCRW/BCRWR/ BCRUSH	210B	6.07	FEG63
	210BHP	6.07	FEG67
	240B	6.07	FEG60
	240BHP	6.07	FEG63
	300B	9.23	FEG71
	300BHP	9.23	FEG71
	360B	11.91	FEG63
	360BHP	11.91	FEG67
	420B	14.29	FEG67
	480B	16.91	FEG63

Belt Driven

110B BCRU / BCRUR / BCRUSH / BCRW / BCRWR

Max. Motor Frame = 56

HP	RPM	STATIC PRESSURE (INCHES W.G.)											
		0	0.125	0.25	0.375	0.50	0.625	0.75	0.875	1.00	1.125	1.25	1.50
		CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone
1/4	625	585 0.02 2.7	423 0.02 2.4										
	750	702 0.03 3.9	576 0.03 3.1	384 0.03 2.8									
	925	866 0.05 5.6	767 0.06 5.1	652 0.06 5.1	485 0.06 4.2								
	1025	959 0.07 6.7	871 0.08 6.3	774 0.08 5.6	653 0.08 5.9	433 0.07 5.0							
	1125	1053 0.09 7.7	973 0.10 7.6	887 0.10 6.6	789 0.10 7.0	666 0.10 6.4							
	1250	1170 0.13 9.3	1098 0.13 9.2	1023 0.14 8.0	942 0.14 7.6	846 0.14 8.3	732 0.14 7.4						
	1330	1245 0.15 10.3	1178 0.16 10.3	1107 0.17 9.2	1033 0.17 8.5	950 0.17 9.0	853 0.17 9.0	732 0.17 7.7					
	1375	1287 0.17 10.6	1222 0.18 10.6	1154 0.18 9.8	1084 0.19 9.0	1006 0.19 9.1	915 0.19 9.5	811 0.19 8.7	643 0.17 8.1				
	1515	1418 0.23 12.6	1360 0.23 12.6	1299 0.24 11.8	1236 0.25 10.8	1170 0.25 10.3	1097 0.25 10.7	1015 0.25 11.2	923 0.25 10.6	802 0.24 9.3			
1/3	1585	1484 0.26 13.3	1428 0.27 13.3	1370 0.28 13.1	1310 0.28 11.8	1248 0.28 11.2	1182 0.29 11.2	1108 0.29 12.0	1025 0.29 12.0	932 0.29 10.6	800 0.27 9.9		
	1670	1563 0.30 14.7	1510 0.31 14.7	1456 0.32 14.2	1399 0.33 13.3	1341 0.33 12.5	1281 0.33 12.0	1214 0.34 12.7	1141 0.34 12.9	1061 0.34 12.8	970 0.34 11.3	841 0.32 10.9	
1/2	1795	1680 0.38 16.3	1631 0.39 16.3	1581 0.40 16.3	1529 0.40 15.1	1475 0.41 14.2	1421 0.41 13.6	1363 0.42 13.6	1301 0.42 14.2	1233 0.42 14.4	1159 0.42 14.3	1078 0.42 13.3	825 0.38 12.0
	1920	1797 0.46 17.8	1751 0.47 17.8	1704 0.48 17.8	1656 0.49 17.5	1607 0.50 16.5	1557 0.50 15.6	1505 0.51 15.1	1451 0.51 15.1	1392 0.51 15.3	1392 0.51 16.1	1261 0.52 16.1	1106 0.51 14.0

120B BCRU / BCRUR / BCRUSH / BCRW / BCRWR

Max. Motor Frame = 56

HP	RPM	STATIC PRESSURE (INCHES W.G.)											
		0	0.125	0.25	0.375	0.50	0.625	0.75	0.875	1.00	1.125	1.25	1.50
		CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone
1/4	650	838 0.03 3.5	677 0.03 3.0										
	975	1257 0.09 7.6	1143 0.10 7.1	1042 0.11 6.5	918 0.11 7.0	753 0.10 5.6							
	1305	1682 0.22 11.6	1596 0.23 11.6	1513 0.24 10.8	1438 0.25 10.2	1362 0.26 10.1	1268 0.26 10.8	1159 0.26 10.6	1035 0.25 9.5				
1/3	1370	1766 0.26 12.5	1683 0.27 12.5	1604 0.28 11.8	1531 0.29 11.0	1460 0.29 10.6	1379 0.30 11.2	1282 0.31 11.8	1174 0.30 11.3	1040 0.29 9.6			
	1435	1850 0.30 13.6	1771 0.31 13.6	1695 0.32 12.8	1623 0.33 12.0	1556 0.33 11.4	1485 0.34 11.5	1399 0.35 12.2	1300 0.35 12.5	1195 0.34 11.7	1047 0.33 10.3		
1/2	1545	1992 0.37 14.9	1918 0.38 14.9	1847 0.39 14.6	1779 0.40 13.8	1715 0.41 13.1	1653 0.42 12.9	1583 0.43 13.0	1502 0.43 13.8	1411 0.43 14.0	1314 0.43 13.6	1200 0.42 12.1	
	1655	2133 0.46 16.6	2064 0.47 16.6	1998 0.48 16.6	1933 0.49 15.5	1872 0.50 14.6	1814 0.51 14.4	1754 0.52 14.3	1688 0.52 14.4	1612 0.53 15.2	1527 0.53 15.4	1438 0.53 15.3	1202 0.51 13.1

140B BCRU / BCRUR / BCRUSH / BCRW / BCRWR

Max. Motor Frame = 143T

HP	RPM	STATIC PRESSURE (INCHES W.G.)											
		0	0.125	0.25	0.375	0.50	0.625	0.75	0.875	1.00	1.125	1.25	1.50
		CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone
1/4	850	1657 0.11 8.4	1491 0.12 7.7	1334 0.13 7.2	1126 0.13 7.3								
	1080	2105 0.22 12.1	1973 0.23 12.0	1847 0.25 10.4	1726 0.25 10.2	1578 0.26 10.9	1402 0.26 10.2						
1/3	1140	2222 0.26 12.9	2097 0.27 12.9	1976 0.29 11.7	1862 0.30 11.0	1732 0.30 11.6	1577 0.31 11.8						
	1200	2339 0.30 14.2	2220 0.32 14.2	2104 0.33 12.8	1995 0.34 12.0	1882 0.35 12.0	1745 0.36 12.7	1586 0.36 12.1					
1/2	1305	2543 0.39 16.8	2434 0.41 16.8	2327 0.42 15.5	2224 0.43 13.9	2125 0.45 13.5	2015 0.45 13.8	1885 0.46 14.6	1739 0.46 13.9				
	1370	2670 0.45 18.5	2566 0.47 18.5	2464 0.48 17.5	2364 0.50 15.6	2269 0.51 14.6	2171 0.52 14.6	2058 0.53 15.2	1926 0.53 15.2	1785 0.53 14.5			
3/4	1475	2875 0.56 21	2778 0.58 21	2682 0.60 21	2589 0.61 18.0	2499 0.63 17.1	2411 0.64 16.1	2318 0.65 16.6	2210 0.66 16.7	2089 0.66 17.5	1958 0.66 16.6		
	1565	3050 0.67 23	2959 0.69 23	2869 0.71 23	2780 0.73 21	2693 0.74 19.0	2611 0.76 17.8	2527 0.77 17.6	2436 0.78 18.0	2332 0.79 18.7	2217 0.79 18.8	2094 0.79 18.1	
1	1650	3216 0.79 25	3129 0.81 25	3043 0.83 25	2959 0.85 23	2876 0.86 21	2796 0.88 19.8	2718 0.89 19.1	2637 0.91 19.1	2547 0.92 19.6	2447 0.92 20	2338 0.93 20	2102 0.92 18.4
	1720	3352 0.89 27	3269 0.92 27	3187 0.94 27	3105 0.95 25	3025 0.97 23	2947 0.99 21	2872 1.01 21	2796 1.02 20	2716 1.03 20	2627 1.04 21	2529 1.05 22	2310 1.05 21

NOTES: 1. Performance certified is for Installation Type A: Free inlet, free outlet. 2. Power rating (BHP) does not include transmission losses. 3. Performance ratings do not include the effects of appurtenances (accessories). 4. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. 5. Values shown are for Installation Type A: Free inlet hemispherical sone levels.

Belt Driven

140BHP BCRU / BCRUR / BCRUSH / BCRW / BCRWR

Max. Motor Frame = 56

HP	RPM	STATIC PRESSURE (INCHES W.G.)											
		0.50	0.625	0.75	0.875	1.00	1.125	1.25	1.50	1.75	2.00	2.25	2.50
		CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone
1/4	1450	1095 0.22 9.6	1015 0.22 10.4	924 0.22 10.2	816 0.22 8.8								
	1525	1181 0.25 10.5	1109 0.26 11.0	1028 0.26 11.3	938 0.26 10.7	823 0.25 9.3							
1/3	1600	1265 0.29 11.3	1199 0.29 11.3	1127 0.30 12.0	1046 0.30 12.1	956 0.30 11.2	836 0.29 10.3						
	1680	1352 0.34 12.6	1292 0.34 12.1	1227 0.34 12.7	1155 0.34 12.9	1075 0.35 12.8	987 0.34 11.8	866 0.33 10.9					
1/2	1810	1491 0.42 14.3	1437 0.42 14.0	1381 0.43 13.6	1319 0.43 14.3	1253 0.43 14.5	1180 0.43 14.5	1102 0.43 13.7	870 0.40 12.3				
	1940	1628 0.51 16.9	1578 0.52 15.9	1527 0.52 15.1	1474 0.52 15.1	1417 0.53 15.4	1355 0.53 16.1	1288 0.53 16.2	1139 0.53 14.7	895 0.48 13.4			
3/4	2075	1767 0.62 18.6	1722 0.63 17.8	1675 0.63 17.1	1627 0.64 16.8	1577 0.64 16.6	1524 0.65 17.0	1467 0.65 17.7	1341 0.65 17.7	1197 0.64 15.6	960 0.59 14.8		
	2205	1900 0.74 21	1857 0.75 19.8	1814 0.76 18.9	1770 0.76 18.6	1725 0.77 17.9	1677 0.77 17.9	1627 0.77 18.1	1519 0.78 19.1	1397 0.78 19.0	1256 0.77 16.6	1031 0.71 16.5	

160B BCRU / BCRUR / BCRUSH / BCRW / BCRWR

Max. Motor Frame = 143T

HP	RPM	STATIC PRESSURE (INCHES W.G.)											
		0	0.125	0.25	0.375	0.50	0.625	0.75	0.875	1.00	1.125	1.25	1.50
		CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone
1/4	780	2207 0.17 8.6	1989 0.18 8.1	1708 0.19 7.4	1299 0.18 7.3								
	865	2448 0.24 10.2	2255 0.25 10.0	2023 0.26 8.7	1714 0.26 9.3	1291 0.24 8.4							
1/3	900	2547 0.27 11.1	2363 0.28 11.1	2145 0.29 9.4	1866 0.29 10.0	1496 0.28 9.3							
	950	2688 0.31 12.1	2515 0.33 12.0	2315 0.34 10.7	2071 0.34 10.5	1753 0.34 10.9	1324 0.31 9.4						
1/2	1000	2830 0.36 13.4	2666 0.38 13.4	2481 0.39 12.0	2263 0.40 11.4	1984 0.40 12.1	1638 0.38 11.1						
	1100	3113 0.48 15.5	2966 0.50 15.5	2803 0.52 14.6	2620 0.53 13.5	2404 0.53 13.6	2137 0.53 14.6	1819 0.51 13.3	1338 0.45 12.3				
3/4	1160	3283 0.57 16.9	3144 0.59 16.9	2992 0.60 16.1	2824 0.61 15.1	2632 0.62 15.0	2401 0.62 15.7	2130 0.61 15.4	1805 0.59 13.6				
	1250	3538 0.71 19.3	3409 0.73 19.3	3271 0.75 18.7	3121 0.76 18.2	2955 0.77 17.1	2766 0.78 17.2	2541 0.78 18.3	2286 0.77 17.6	1988 0.74 15.9	1546 0.67 15.2		
1	1320	3736 0.84 21	3615 0.86 21	3486 0.88 21	3347 0.89 19.8	3195 0.91 19.2	3028 0.92 19.0	2835 0.92 19.3	2612 0.91 19.6	2363 0.90 19.2	2074 0.87 17.1	1655 0.79 16.6	
	1380	3905 0.96 23	3790 0.98 23	3668 1.00 23	3537 1.02 22	3396 1.03 21	3242 1.04 20	3071 1.05 20	2872 1.05 22	2651 1.04 21	2404 1.02 20	2118 0.99 18.1	

160BMP BCRU / BCRUR / BCRUSH / BCRW / BCRWR

Max. Motor Frame = 143T

HP	RPM	STATIC PRESSURE (INCHES W.G.)											
		0	0.125	0.25	0.375	0.50	0.625	0.75	0.875	1.00	1.25	1.50	1.75
		CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone
1/4	825	2079 0.16 10.5	1823 0.17 8.7	1671 0.17 8.1	1483 0.18 8.9	1233 0.18 6.9							
	930	2344 0.22 12.5	2097 0.24 10.7	1958 0.25 10.0	1812 0.25 10.0	1636 0.26 10.7	1412 0.23 8.6						
1/3	975	2457 0.26 13.2	2215 0.27 11.7	2077 0.28 10.7	1944 0.29 10.6	1786 0.29 11.4	1595 0.30 10.5	1343 0.29 8.4					
	1020	2570 0.29 14.2	2333 0.31 13.0	2195 0.32 11.5	2073 0.33 11.0	1928 0.33 12.1	1760 0.34 11.9	1552 0.34 9.8					
1/2	1100	2772 0.37 16.0	2543 0.39 15.1	2404 0.40 13.0	2293 0.41 12.4	2169 0.42 12.6	2028 0.42 13.5	1866 0.42 13.3	1669 0.42 11.0				
	1185	2986 0.46 18.0	2765 0.48 17.7	2626 0.50 15.2	2520 0.51 14.2	2414 0.52 14.1	2292 0.52 14.4	2157 0.53 15.2	2005 0.53 14.7	1823 0.53 12.7			
3/4	1265	3188 0.56 19.7	2971 0.59 19.7	2834 0.60 17.0	2730 0.61 16.0	2634 0.62 15.5	2528 0.63 15.5	2410 0.64 16.5	2281 0.64 16.7	2136 0.64 16.4	1766 0.63 12.8		
	1345	3389 0.67 22	3183 0.70 22	3044 0.72 19.1	2939 0.73 17.8	2848 0.74 17.1	2755 0.75 17.0	2650 0.76 17.1	2537 0.77 18.0	2414 0.77 18.8	2122 0.78 16.5		
1	1415	3566 0.78 24	3365 0.82 24	3227 0.84 21	3121 0.85 19.5	3032 0.86 18.6	2947 0.87 18.5	2854 0.88 18.6	2751 0.89 18.7	2641 0.89 19.8	2391 0.90 19.9	2073 0.89 16.2	
	1490	3755 0.91 26	3560 0.95 26	3424 0.97 24	3317 0.99 22	3229 1.00 20	3147 1.01 20	3064 1.02 19.4	2972 1.03 19.5	2872 1.04 20	2653 1.05 22	2392 1.05 20	2055 1.03 17.9

NOTES:

1. Performance certified is for Installation Type A: Free inlet, free outlet.
2. Power rating (BHP) does not include transmission losses.
3. Performance ratings do not include the effects of appurtenances (accessories).
4. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301.
5. Values shown are for Installation Type A: Free inlet hemispherical sone levels.

Belt Driven

160BHP BCRU / BCRUR / BCRUSH / BCRW / BCRWR

Max. Motor Frame = 143T

HP	RPM	STATIC PRESSURE (INCHES W.G.)											
		0.50	0.625	0.75	0.875	1.00	1.125	1.25	1.50	1.75	2.00	2.25	2.50
		CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone
1/4	950	1205 0.18 8.1											
	1085	1592 0.26 11	1417 0.26 10.2										
1/3	1155	1772 0.32 11.6	1620 0.32 11.9	1450 0.32 10.6									
	1195	1870 0.35 11.9	1731 0.35 12.7	1571 0.35 12									
1/2	1320	2158 0.46 13.8	2052 0.47 13.9	1926 0.47 14.7	1783 0.47 14.2	1630 0.47 12.6							
	1365	2258 0.51 14.3	2160 0.52 14.6	2045 0.52 15.2	1912 0.52 15.2	1770 0.52 14.4							
3/4	1500	2553 0.66 17.4	2467 0.67 16.7	2377 0.68 16.7	2274 0.69 17.6	2158 0.70 17.8	2031 0.69 17.2	1899 0.69 16					
	1560	2683 0.74 18.8	2600 0.75 17.8	2515 0.76 17.6	2424 0.78 17.8	2319 0.78 18.7	2203 0.78 18.7	2079 0.78 17.9					
1	1680	2940 0.91 22	2861 0.93 21	2784 0.94 19.8	2706 0.96 19.6	2621 0.97 19.8	2525 0.97 20	2421 0.98 21	2193 0.97 19.5				
	1715	3014 0.96 23	2936 0.98 21	2861 1.00 21	2785 1.01 20	2704 1.03 20	2615 1.03 21	2515 1.04 21	2296 1.04 21				

180B BCRU / BCRUR / BCRUSH / BCRW / BCRWR

Max. Motor Frame = 145T

HP	RPM	STATIC PRESSURE (INCHES W.G.)											
		0	0.125	0.25	0.375	0.5	0.625	0.75	0.875	1.00	1.25	1.50	1.75
		CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone
1/4	525	2469 0.12 5.9	1988 0.13 5.1	1251 0.12 4.7									
	665	3127 0.24 9.1	2758 0.25 8.5	2338 0.26 8.1	1736 0.25 7.9								
1/3	700	3292 0.28 10.1	2942 0.29 9.5	2558 0.30 8.7	2030 0.30 9.3								
	730	3433 0.32 10.8	3099 0.33 10.3	2738 0.34 9.3	2274 0.34 10.0	1629 0.31 8.5							
1/2	785	3692 0.39 12.3	3382 0.41 11.9	3056 0.42 10.6	2669 0.43 10.9	2149 0.41 10.7							
	840	3951 0.48 13.6	3662 0.50 13.1	3361 0.52 12.1	3025 0.52 11.7	2602 0.52 12.6	2074 0.49 10.9						
3/4	900	4233 0.59 15.0	3965 0.61 15.0	3685 0.63 13.5	3389 0.64 13.2	3039 0.64 13.7	2590 0.63 13.7	2065 0.59 11.6					
	965	4538 0.73 17.1	4289 0.75 17.1	4030 0.77 15.8	3763 0.79 14.9	3462 0.79 14.9	3107 0.79 15.9	2662 0.77 14.7	2146 0.71 13.1				
1	1010	4750 0.84 18.2	4512 0.86 18.2	4266 0.88 17.2	4013 0.90 16.2	3739 0.91 16.1	3423 0.91 17.0	3037 0.90 16.7	2600 0.87 15.4	1995 0.76 14.0			
	1060	4985 0.97 20	4759 0.99 20	4526 1.02 19.0	4286 1.04 17.9	4035 1.05 17.1	3751 1.05 17.9	3425 1.04 18.2	3024 1.03 17.7	2600 0.98 15.6			
1-1/2	1135	5338 1.19 22	5127 1.21 22	4910 1.24 21	4688 1.26 20	4461 1.28 19.7	4215 1.29 19.6	3940 1.29 20	3625 1.28 20	3248 1.26 19.5	2318 1.10 16.7		
	1210	5691 1.44 24	5493 1.47 24	5291 1.50 24	5084 1.52 23	4874 1.54 22	4655 1.56 21	4415 1.57 21	4151 1.56 22	3850 1.55 23	3133 1.49 20		
2	1270	5973 1.66 26	5785 1.69 26	5593 1.72 26	5396 1.75 25	5197 1.77 24	4993 1.80 23	4776 1.81 23	4539 1.81 23	4279 1.80 24	3640 1.77 23	2888 1.64 19.7	
	1330	6255 1.91 28	6076 1.94 28	5893 1.97 28	5706 2.00 27	5516 2.03 26	5324 2.05 25	5125 2.07 25	4909 2.08 25	4676 2.08 25	4129 2.05 26	3471 1.98 23	2543 1.71 21

NOTES:

1. Performance certified is for Installation Type A: Free inlet, free outlet.
2. Power rating (BHP) does not include transmission losses.
3. Performance ratings do not include the effects of appurtenances (accessories).
4. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301.
5. Values shown are for Installation Type A: Free inlet hemispherical sone levels.

Belt Driven

180BMP BCRU / BCRUR / BCRUSH / BCRW / BCRWR

Max. Motor Frame = 145T

HP	RPM	STATIC PRESSURE (INCHES W.G.)											
		0	0.125	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50
		CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone
1/4	650	2166 0.13 7.4	1926 0.14 6.9	1673 0.15 6.2									
	790	2632 0.22 10.4	2435 0.24 10.2	2240 0.25 8.9	1750 0.26 8.8								
1/3	830	2766 0.26 11.2	2578 0.28 11.2	2391 0.29 9.7	1946 0.31 9.6								
	870	2899 0.30 11.9	2720 0.32 11.9	2541 0.33 10.8	2139 0.35 10.3	1613 0.34 9.0							
1/2	930	3099 0.37 13.6	2932 0.38 13.6	2763 0.40 12.3	2414 0.42 11.1	1952 0.43 11.3							
	995	3315 0.45 13.9	3159 0.47 13.9	3002 0.48 14.1	2688 0.51 12.3	2279 0.53 13.0	1802 0.51 11.1						
3/4	1060	3532 0.54 15.4	3385 0.56 15.4	3238 0.58 15.7	2947 0.61 13.8	2593 0.64 14.2	2179 0.63 13.6						
	1130	3765 0.66 17.1	3628 0.68 17.1	3490 0.70 17.5	3216 0.73 15.6	2916 0.76 15.0	2538 0.78 15.9	2123 0.75 14.0					
1	1190	3965 0.77 18.4	3835 0.79 18.4	3703 0.81 18.7	3443 0.85 16.8	3175 0.88 16.3	2831 0.90 17.3	2463 0.90 16.8					
	1250	4165 0.89 19.7	4041 0.91 19.7	3916 0.94 19.7	3667 0.98 18.9	3419 1.01 18.2	3117 1.04 18.3	2772 1.05 19.0	2396 1.03 17.1				
1-1/2	1340	4465 1.09 22	4349 1.12 22	4223 1.14 22	3999 1.19 21	3771 1.23 20	3521 1.26 19.9	3211 1.29 21	2889 1.29 21	2529 1.26 19.0			
	1430	4765 1.33 24	4656 1.36 24	4547 1.38 24	4329 1.43 23	4113 1.48 22	3894 1.52 22	3635 1.55 23	3334 1.57 24	3031 1.56 24	2689 1.53 22		
2	1500	4998 1.53 26	4895 1.56 26	4791 1.59 26	4583 1.64 25	4376 1.69 24	4171 1.74 24	3945 1.77 24	3672 1.80 25	3383 1.81 25	3087 1.80 25	2751 1.75 23	
	1575	5248 1.78 28	5149 1.81 28	5051 1.84 28	4852 1.89 27	4654 1.94 26	4461 1.99 25	4258 2.03 25	4020 2.07 26	3748 2.10 27	3475 2.10 27	3186 2.07 25	2861 2.02 24

180BHP BCRU / BCRUR / BCRUSH / BCRW / BCRWR

Max. Motor Frame = 145T

HP	RPM	STATIC PRESSURE (INCHES W.G.)											
		0.50	0.625	0.75	0.875	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75
		CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone
1/4	875	1475 0.21 9.3	1193 0.21 8.4										
	935	1692 0.26 10.8	1484 0.26 10.0										
1/3	980	1848 0.30 11.5	1655 0.30 11.5	1428 0.30 10.2									
	1030	2014 0.34 11.9	1837 0.35 12.4	1649 0.35 11.9									
1/2	1105	2251 0.42 12.6	2097 0.42 13.8	1928 0.43 13.8	1751 0.43 12.9	1498 0.42 12.1							
	1180	2480 0.51 14.0	2343 0.51 14.2	2194 0.52 15.1	2034 0.52 15.1	1867 0.53 14.4							
3/4	1265	2731 0.62 15.7	2608 0.63 15.1	2477 0.63 16.1	2337 0.64 17.0	2187 0.64 16.8	1843 0.64 14.6						
	1350	2976 0.75 17.4	2865 0.76 17.0	2747 0.76 17.1	2623 0.77 17.6	2490 0.78 18.3	2207 0.79 17.5	1812 0.76 15.9					
1	1415	3159 0.85 18.8	3056 0.87 18.3	2946 0.87 17.7	2832 0.88 18.4	2711 0.89 19.3	2447 0.90 19.3	2159 0.90 17.0					
	1485	3354 0.98 20	3258 0.99 19.4	3156 1.01 19.0	3050 1.01 19.0	2939 1.02 19.6	2699 1.04 21	2441 1.05 19.7	2119 1.03 17.3				
1-1/2	1595	3656 1.21 22	3569 1.22 22	3477 1.24 21	3382 1.25 21	3284 1.26 21	3074 1.27 22	2844 1.29 22	2602 1.30 21	2305 1.28 19.0			
	1705	3953 1.47 24	3873 1.48 24	3791 1.50 24	3705 1.51 23	3616 1.52 22	3428 1.54 23	3226 1.56 24	3008 1.57 25	2781 1.58 23	2512 1.57 20		
2	1790	4181 1.69 26	4106 1.71 26	4028 1.72 25	3948 1.74 25	3866 1.75 24	3692 1.78 24	3507 1.80 25	3308 1.81 26	3096 1.82 25	2879 1.83 24	2611 1.82 21	
	1870	4394 1.92 27	4322 1.94 27	4249 1.96 27	4174 1.97 26	4097 1.99 26	3934 2.01 25	3762 2.04 26	3580 2.06 27	3384 2.07 28	3180 2.08 27	2968 2.09 25	2701 2.07 22

NOTES:

1. Performance certified is for Installation Type A: Free inlet, free outlet.
2. Power rating (BHP) does not include transmission losses.
3. Performance ratings do not include the effects of appurtenances (accessories).
4. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301.
5. Values shown are for Installation Type A: Free inlet hemispherical sone levels.

Belt Driven

210B BCRU / BCRUR / BCRUSH / BCRW / BCRWR

Max. Motor Frame = 145T

HP	RPM	STATIC PRESSURE (INCHES W.G.)											
		0	0.125	0.25	0.375	0.50	0.625	0.75	1.00	1.25	1.50	1.75	2.00
		CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone
1/4	500	3288 0.14 8.5	2895 0.16 6.9	2472 0.19 6.7	1957 0.20 5.4								
	550	3616 0.19 10.0	3260 0.21 8.9	2892 0.24 7.8	2462 0.26 7.3	1861 0.26 6.5							
1/3	570	3748 0.21 10.7	3404 0.24 9.6	3053 0.26 8.2	2648 0.28 8.4	2167 0.29 6.9							
	600	3945 0.24 11.6	3619 0.27 10.8	3288 0.30 8.9	2919 0.32 9.5	2506 0.34 7.3	1843 0.32 7.7						
1/2	650	4274 0.31 13.2	3974 0.34 12.5	3669 0.37 10.3	3348 0.40 10.4	2982 0.42 10.1	2580 0.43 8.7	1899 0.40 8.7					
	695	4570 0.38 14.8	4289 0.41 14.8	4005 0.44 12.1	3714 0.48 11.3	3389 0.50 12.1	3037 0.52 10.6	2611 0.53 9.8					
3/4	750	4931 0.47 16.3	4672 0.51 16.3	4408 0.55 14.0	4144 0.58 12.8	3861 0.61 13.3	3547 0.64 13.4	3219 0.66 11.5	2183 0.62 11.4				
	795	5227 0.56 18.0	4983 0.60 18.0	4735 0.64 16.0	4486 0.68 14.4	4229 0.71 14.2	3947 0.75 15.1	3642 0.77 14.3	2906 0.78 12.4				
1	830	5457 0.64 19.3	5223 0.68 19.3	4986 0.72 17.7	4747 0.76 15.5	4506 0.80 15.1	4246 0.84 16.0	3962 0.87 16.0	3351 0.90 13.2	2284 0.82 13.2			
	875	5753 0.75 20	5531 0.79 20	5307 0.84 19.1	5080 0.88 17.2	4854 0.92 15.7	4617 0.96 16.2	4359 0.99 17.2	3803 1.04 15.1	3030 1.04 14.4			
1-1/2	950	6246 0.96 22	6042 1.01 22	5836 1.05 22	5628 1.10 19.7	5419 1.14 18.0	5209 1.19 17.2	4988 1.23 17.7	4499 1.31 18.7	3976 1.34 15.7	3180 1.32 16.3		
	1000	6575 1.12 24	6381 1.17 24	6186 1.22 24	5988 1.27 21	5790 1.31 20	5592 1.36 18.8	5389 1.41 18.4	4944 1.49 19.5	4457 1.55 18.7	3915 1.57 17.4	3019 1.49 17.4	
2	1050	6904 1.29 25	6719 1.35 25	6533 1.40 25	6346 1.45 23	6157 1.50 21	5968 1.55 20	5778 1.60 19.5	5371 1.69 21	4920 1.77 21	4448 1.81 18.0	3818 1.81 18.7	2892 1.65 18.6
	1100	7232 1.49 26	7056 1.54 26	6879 1.60 26	6700 1.65 25	6520 1.70 24	6340 1.76 22	6160 1.81 21	5785 1.91 21	5369 2.00 22	4925 2.06 21	4455 2.08 19.4	3721 2.06 19.9

210BHP BCRU / BCRUR / BCRUSH / BCRW / BCRWR

Max. Motor Frame = 182T

HP	RPM	STATIC PRESSURE (INCHES W.G.)											
		0.5	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25
		CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone
1/2	730	2726 0.38 9.7	2180 0.42 8.8										
	790	3117 0.45 10.8	2628 0.51 10.3	2040 0.53 10.1									
3/4	850	3491 0.54 11.3	3041 0.61 12.5	2574 0.66 11.1	1800 0.63 11.4								
	895	3762 0.61 12.1	3344 0.69 13.5	2913 0.75 12.3	2400 0.77 12.3								
1	950	4085 0.72 13.4	3705 0.79 14.2	3296 0.87 14.3	2876 0.92 13.3	2287 0.91 14.0							
	990	4317 0.80 14.8	3959 0.87 14.8	3569 0.96 15.4	3180 1.02 14.2	2720 1.05 14.7							
1-1/2	1050	4661 0.94 16.5	4330 1.01 15.7	3972 1.10 17.0	3602 1.19 16.8	3224 1.23 15.6	2751 1.25 16.4						
	1135	5141 1.15 19.1	4837 1.24 18.1	4520 1.32 18.3	4181 1.43 19.5	3840 1.51 18.8	3489 1.56 18.1	3064 1.58 18.6	2302 1.49 18.4				
2	1200	5504 1.34 21	5216 1.43 19.4	4924 1.52 19.3	4611 1.62 21	4286 1.73 21	3967 1.80 20	3624 1.85 19.8	3213 1.86 20	2503 1.77 20			
	1250	5781 1.50 23	5503 1.59 21	5226 1.68 20	4934 1.78 21	4625 1.90 22	4314 1.99 22	4006 2.06 21	3658 2.10 22	3235 2.10 22			
3	1330	6221 1.77 26	5958 1.88 24	5699 1.98 22	5434 2.07 22	5152 2.19 24	4859 2.31 25	4568 2.41 24	4279 2.48 23	3957 2.52 24	3584 2.53 24	3031 2.47 24	
	1430	6765 2.16 29	6520 2.28 27	6278 2.39 25	6036 2.50 25	5786 2.60 26	5522 2.73 27	5250 2.87 28	4978 2.97 27	4711 3.05 26	4430 3.11 26	4111 3.15 27	3739 3.15 27

NOTES:

1. Performance certified is for Installation Type A: Free inlet, free outlet.
2. Power rating (BHP) does not include transmission losses.
3. Performance ratings do not include the effects of appurtenances (accessories).
4. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301.
5. Values shown are for Installation Type A: Free inlet hemispherical sone levels.

Belt Driven

240B BCRU / BCRUR / BCRUSH / BCRW / BCRWR

Max. Motor Frame = 145T

HP	RPM	STATIC PRESSURE (INCHES W.G.)											
		0	0.125	0.25	0.375	0.50	0.625	0.75	0.875	1.00	1.25	1.50	1.75
		CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone
1/4	420	3969 0.15 6.7	3503 0.19 6.2	2928 0.22 6.5	1910 0.21 5.0								
	445	4206 0.18 7.2	3768 0.22 7.0	3260 0.25 7.0	2498 0.26 5.5								
1/3	470	4442 0.21 8.1	4031 0.26 7.8	3571 0.29 7.5	2931 0.31 6.9								
	485	4584 0.23 8.3	4186 0.28 8.1	3748 0.31 7.8	3163 0.34 7.9	2207 0.32 6.4							
1/2	530	5009 0.30 9.7	4648 0.35 9.6	4259 0.40 8.9	3797 0.43 9.5	3176 0.45 7.8	2085 0.40 7.3						
	560	5293 0.36 10.5	4953 0.41 10.5	4588 0.46 9.7	4182 0.50 9.9	3651 0.52 9.8	2917 0.51 8.3						
3/4	600	5671 0.44 12.0	5355 0.50 12.0	5019 0.55 11.1	4661 0.59 10.9	4223 0.63 11.3	3675 0.65 10.3	2863 0.61 9.5					
	635	6001 0.52 13.1	5704 0.58 13.1	5389 0.64 12.4	5059 0.69 11.9	4683 0.73 12.1	4214 0.76 12.5	3640 0.77 10.4	2730 0.70 10.4				
1	660	6238 0.59 13.8	5952 0.65 13.8	5651 0.71 13.3	5337 0.76 12.7	4993 0.80 12.8	4572 0.84 13.4	4070 0.86 12.5	3391 0.84 11.4				
	705	6663 0.71 15.3	6396 0.78 15.3	6118 0.85 14.9	5827 0.91 14.2	5522 0.96 14.1	5173 1.00 14.6	4753 1.04 15.2	4267 1.05 14.2	3612 1.02 13.4			
1-1/2	750	7088 0.86 16.8	6838 0.93 16.8	6578 1.00 16.6	6308 1.07 16.2	6029 1.12 15.4	5728 1.17 15.8	5376 1.22 16.3	4967 1.25 16.7	4500 1.27 15.7	2966 1.12 15.3		
	810	7655 1.08 19.1	7424 1.16 19.1	7186 1.24 19.1	6939 1.31 18.3	6684 1.38 18.0	6421 1.43 17.6	6135 1.49 17.7	5806 1.54 18.6	5430 1.58 19.0	4512 1.58 18.5		
2	850	8033 1.25 20	7814 1.34 20	7587 1.42 20	7354 1.49 19.6	7113 1.56 19.2	6867 1.63 18.9	6608 1.68 18.9	6321 1.74 19.4	5993 1.79 21	5221 1.84 20	4087 1.75 19.8	
	890	8411 1.44 22	8202 1.53 22	7987 1.61 22	7765 1.69 22	7537 1.77 21	7305 1.84 20	7065 1.90 20	6808 1.96 21	6521 2.01 21	5841 2.10 22	4996 2.10 21	3602 1.89 21

240BHP BCRU / BCRUR / BCRUSH / BCRW / BCRWR

Max. Motor Frame = 182T

HP	RPM	STATIC PRESSURE (INCHES W.G.)											
		0.50	0.625	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00
		CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone
1/2	600	2837 0.39 9.8	2384 0.41 8.5	1774 0.39 8.6									
	650	3330 0.47 11.6	2953 0.50 10.9	2523 0.52 9.9									
3/4	700	3789 0.56 12.6	3464 0.60 13.3	3104 0.63 12.3	2184 0.63 11.3								
	745	4181 0.65 13.2	3894 0.70 14.1	3578 0.73 14.4	2844 0.78 12.2								
1	780	4473 0.73 13.5	4213 0.78 14.4	3924 0.82 15.2	3264 0.89 13.0	2394 0.87 13.0							
	825	4838 0.83 14.1	4607 0.89 14.7	4348 0.94 15.6	3765 1.02 15.3	3078 1.06 13.9	1820 0.92 13.1						
1-1/2	880	5273 0.98 15.3	5066 1.04 15.3	4841 1.09 16.0	4329 1.19 17.0	3741 1.27 15.3	3043 1.28 1.52						
	940	5741 1.16 16.5	5549 1.22 16.2	5352 1.28 16.5	4904 1.40 17.9	4395 1.50 18.0	3819 1.56 15.9	3125 1.55 16.5					
2	990	6127 1.32 17.8	5944 1.39 17.6	5761 1.46 17.3	5359 1.58 18.2	4900 1.69 19.3	4390 1.79 18.4	3818 1.84 17.1	3090 1.79 17.3				
	1035	6473 1.48 19.2	6295 1.55 18.6	6121 1.62 18.2	5753 1.76 18.5	5333 1.88 19.6	4870 1.99 19.9	4355 2.07 18.3	3781 2.10 18.4	2985 2.00 18.4			
3	1110	6969 1.75 22	6798 18.2 21	6633 1.89 20	6300 2.04 19.8	5931 2.18 21	5519 2.30 22	5072 2.41 22	4580 2.50 20	4040 2.52 20	3328 2.43 20		
	1185	7612 2.13 25	7450 2.21 25	7293 2.29 23	6987 2.45 22	6670 2.61 22	6316 2.75 24	5931 2.88 25	5518 3.00 25	5069 3.10 23	4585 3.15 23	4021 3.12 23	3210 2.94 23

NOTES:

1. Performance certified is for Installation Type A: Free inlet, free outlet.
2. Power rating (BHP) does not include transmission losses.
3. Performance ratings do not include the effects of appurtenances (accessories).
4. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301.
5. Values shown are for Installation Type A: Free inlet hemispherical sone levels.

Belt Driven

300B BCRU / BCRUR / BCRUSH / BCRW / BCRWR

Max. Motor Frame = 184T

HP	RPM	STATIC PRESSURE (INCHES W.G.)											
		0	0.125	0.25	0.375	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
		CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone
1/3	365	5626 0.17 7.4	4852 0.21 6.0	4145 0.26 5.8									
	390	6011 0.21 8.5	5269 0.25 7.0	4640 0.30 6.3	3686 0.33 6.3								
1/2	430	6628 0.27 9.9	5934 0.32 8.7	5383 0.38 7.5	4716 0.43 7.9	3459 0.43 6.3							
	460	7090 0.34 11.3	6431 0.38 10.2	5908 0.45 8.7	5338 0.51 8.7	4545 0.55 8.7							
3/4	500	7707 0.43 13.1	7091 0.48 12.3	6589 0.55 10.3	6105 0.62 9.7	5522 0.68 10.4							
	530	8169 0.51 14.3	7582 0.56 13.8	7092 0.63 11.7	6652 0.71 10.9	6141 0.78 11.3	4406 0.82 9.1						
1	550	8478 0.58 15.3	7908 0.62 15.3	7426 0.69 12.6	7004 0.78 11.8	6532 0.85 11.7	5163 0.94 11.6						
	575	8863 0.66 16.6	8314 0.71 16.3	7842 0.78 14.2	7436 0.86 13.1	7005 0.95 12.5	5882 1.06 13.7						
1-1/2	620	9557 0.82 18.8	9042 0.87 18.8	8589 0.95 16.9	8198 1.04 15.7	7823 1.13 14.8	6926 1.28 15.7	5433 1.33 13.1					
	660	10173 0.99 21	9686 1.05 21	9252 1.12 19.1	8868 1.21 17.6	8518 1.31 16.7	7736 1.49 16.5	6688 1.61 17.5					
2	700	10790 1.19 23	10328 1.24 23	9911 1.31 22	9534 1.40 19.8	9199 1.51 18.6	8501 1.71 18.1	7654 1.86 19.2	6328 1.93 17.3				
	725	11175 1.32 25	10727 1.37 25	10321 1.45 23	9949 1.54 21	9619 1.64 20	8965 1.86 19.0	8188 2.03 20	7120 2.14 20				
3	780	12023 1.64 28	11604 1.70 28	11219 1.78 27	10862 1.87 24	10538 1.97 23	9944 2.21 22	9279 2.42 21	8499 2.58 23	7371 2.67 22			
	830	12794 1.98 31	12397 2.04 31	12031 2.12 31	11689 2.21 28	11369 2.31 26	10803 2.57 24	10220 2.81 23	9550 3.00 24	8741 3.16 25	7549 3.21 23		
5	900	13873 2.52 35	13505 2.59 35	13162 2.67 35	12838 2.76 33	12532 2.87 31	11983 3.12 27	11470 3.40 27	10905 3.65 26	10275 3.85 27	9526 4.02 28	8490 4.11 26	
	985	15183 3.31 40	14845 3.37 40	14526 3.46 40	14224 3.56 40	13935 3.67 37	13401 3.92 34	12925 4.22 31	12453 4.52 30	11929 4.79 30	11359 5.01 31	10713 5.20 32	9897 5.35 32

300BHP BCRU / BCRUR / BCRUSH / BCRW / BCRWR

Max. Motor Frame = 184T

HP	RPM	STATIC PRESSURE (INCHES W.G.)											
		0.50	0.625	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00
		CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone
1/2	480	3604 0.42 7.5	2806 0.42 7.8										
	515	4180 0.50 8.9	3631 0.53 8.7	2693 0.51 8.8									
3/4	550	4707 0.58 10.3	4258 0.62 9.8	3689 0.64 10.0									
	590	5280 0.68 11.4	4892 0.73 11.8	4451 0.78 10.8	2891 0.75 11.4								
1	600	5420 0.71 11.5	5042 0.76 11.9	4622 0.81 11.4	3313 0.82 11.9								
	645	6035 0.84 12.4	5696 0.90 13.2	5339 0.96 13.5	4466 1.04 13.4								
1-1/2	700	6753 1.02 14.0	6463 1.10 14.3	6146 1.16 15.2	5457 1.28 15.4	4536 1.33 16.0							
	740	7256 1.17 15.4	6998 1.25 15.2	6710 1.32 16.0	6091 1.46 16.7	5357 1.55 17.1	4232 1.55 17.4						
2	760	7503 1.24 16.2	7259 1.33 15.8	6986 1.41 16.1	6393 1.55 17.1	5716 1.66 17.1	4803 1.70 18.1						
	815	8172 1.48 18.7	7959 1.57 18.0	7723 1.66 17.6	7192 1.83 18.7	6620 1.96 18.6	5948 2.07 19.5	5035 2.09 20					
3	900	9185 1.89 22	9002 2.00 20	8808 2.11 20	8372 2.30 19.7	7881 2.48 21	7364 2.63 21	6777 2.75 20	6063 2.82 22	4969 2.76 22			
	930	9537 2.06 23	9363 2.17 22	9180 2.28 21	8772 2.49 20	8308 2.68 21	7818 2.84 22	7285 2.98 21	6663 3.09 22	5862 3.12 22	4414 2.92 22		
5	1020	10584 2.62 25	10431 2.74 25	10271 2.86 24	9931 3.10 22	9545 3.32 22	9118 3.53 23	8674 3.72 24	8203 3.88 23	7675 4.01 23	7064 4.10 23	6267 4.1 23	4905 3.87 23
	1110	11619 3.27 28	11482 3.41 28	11340 3.54 27	11042 3.81 26	10718 4.06 25	10358 4.30 25	9965 4.53 26	9560 4.73 26	9137 4.92 26	8681 5.08 25	8172 5.21 25	7588 5.29 25

NOTES:

1. Performance certified is for Installation Type A: Free inlet, free outlet.
2. Power rating (BHP) does not include transmission losses.
3. Performance ratings do not include the effects of appurtenances (accessories).
4. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301.
5. Values shown are for Installation Type A: Free inlet hemispherical sone levels.

Belt Driven

360B BCRU / BCRUR / BCRUSH

Max. Motor Frame = 184T

HP	RPM	STATIC PRESSURE (INCHES W.G.)											
		0	0.125	0.25	0.375	0.50	0.75	0.875	1.00	1.125	1.25	1.50	1.75
		CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone
1/2	300	9106 0.31 8.7	7953 0.38 7.2	6246 0.44 6.7	3068 0.36 5.4								
	320	9714 0.38 10.0	8645 0.46 8.7	7220 0.53 7.7	4962 0.51 6.4								
3/4	340	10321 0.45 11.4	9326 0.54 10	8110 0.62 8.5	6174 0.63 8.1								
	360	10928 0.54 12.4	9997 0.63 12	8911 0.72 9.4	7270 0.76 9.9	4901 0.70 8.2							
1	380	11535 0.63 13.9	10659 0.72 13.7	9664 0.82 10.8	8270 0.89 10.9	6400 0.88 9.2							
	400	12142 0.74 14.9	11315 0.83 14.9	10390 0.94 12.2	9217 1.02 12.1	7548 1.04 11.4	5207 0.94 9.9						
1-1/2	420	12749 0.85 16.2	11966 0.96 16.2	11098 1.06 13.4	10082 1.16 12.5	8617 1.20 13.1	6860 1.18 10.9						
	460	13963 1.12 18.6	13254 1.23 18.6	12481 1.35 16.6	11636 1.47 14.7	10557 1.56 14.7	9135 1.58 14.7	7509 1.54 12.6	4855 1.31 11.9				
2	480	14570 1.27 19.9	13893 1.39 19.9	13161 1.51 18.2	12369 1.63 16.5	11435 1.74 15.7	10158 1.79 16.4	8684 1.78 14.7	6866 1.69 13.6				
	494	14995 1.39 21	14339 1.51 21	13632 1.63 19.4	12871 1.76 17.4	12009 1.88 16.4	10843 1.95 16.8	9471 1.95 16.5	7929 1.91 14.5	5402 1.64 13.7			
	505	15329 1.48 21	14688 1.61 21	14000 1.73 20	13262 1.86 17.9	12443 1.98 16.9	11371 2.07 17.6	10065 2.09 17.4	8603 2.06 14.9	6481 1.87 14.6			
3	550	16695 1.92 25	16109 2.05 25	15489 2.18 25	14828 2.32 22	14128 2.46 20	13334 2.59 19.9	12304 2.68 20	11110 2.70 20	9784 2.67 18.2	5821 2.24 16.6		
	575	17454 2.19 26	16895 2.33 26	16306 2.47 26	15682 2.61 25	15026 2.76 23	14312 2.91 21	13451 3.02 22	12365 3.08 22	11186 3.08 21	8327 2.91 18.1		
5	630	19124 2.88 32	18616 3.03 32	18085 3.19 32	17530 3.34 30	16947 3.50 28	16340 3.66 27	15682 3.82 25	14915 3.95 25	13964 4.03 26	11797 4.04 24	9133 3.83 22	
	685	20793 3.70 38	20327 3.87 38	19845 4.03 38	19343 4.20 38	18821 4.37 36	18278 4.54 33	17715 4.72 31	17111 4.90 30	16429 5.04 30	14669 5.20 30	12634 5.19 28	10251 4.99 24

360BHP BCRU / BCRUR / BCRUSH

Max. Motor Frame = 213T

HP	RPM	STATIC PRESSURE (INCHES W.G.)											
		0.50	0.625	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00
		CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone
1	420	6363 0.79 9.1	5408 0.83 8.3	3478 0.74 8.1									
	450	7209 0.93 10.6	6513 1.00 10.1	5477 1.02 9.6									
1-1/2	480	8024 1.08 11.4	7415 1.16 12.0	6695 1.23 10.8									
	503	8640 1.20 12.1	8057 1.29 12.9	7451 1.38 12.9	5428 1.39 11.7								
	515	8956 1.27 12.8	8385 1.36 13.6	7810 1.45 13.7	6099 1.53 12.3								
2	530	9345 1.36 13.6	8791 1.46 13.8	8242 1.55 14.6	6787 1.67 13.0								
	570	10346 1.62 15.3	9861 1.73 15.3	9344 1.84 16.2	8264 2.02 15.6	6514 2.06 14.8							
3	600	11067 1.84 17.1	10638 1.96 16.9	10153 2.07 16.9	9174 2.28 18.0	7897 2.42 16.3	5501 2.24 15.8						
	655	12345 2.29 21	11996 2.43 19.9	11596 2.56 19.7	10703 2.80 20	9791 3.02 20	8558 3.15 18.4	6490 3.00 18.5					
5	700	13367 2.70 23	13057 2.86 23	12717 3.00 22	11916 3.27 22	11081 3.52 23	10183 3.74 22	8930 3.86 21	6922 3.66 21				
	775	15038 3.51 27	14773 3.69 26	14493 3.85 25	13862 4.18 24	13118 4.47 24	12365 4.74 26	11584 5.00 25	10611 5.19 24	9274 5.22 24	7137 4.83 24		
7-1/2	820	16026 4.07 30	15782 4.26 30	15526 4.44 28	14969 4.79 27	14310 5.11 26	13590 5.41 27	12882 5.70 27	12125 5.96 27	11180 6.15 26	9924 6.19 26	8056 5.87 26	
	885	17441 4.99 33	17221 5.19 33	16992 5.39 32	16506 5.77 31	15959 6.14 29	15328 6.48 29	14660 6.81 30	14005 7.12 31	13322 7.41 31	12525 7.65 30	11510 7.78 29	10198 7.72 30

NOTES:
1. Performance certified is for Installation Type A: Free inlet, free outlet.
2. Power rating (BHP) does not include transmission losses.
3. Performance ratings do not include the effects of appurtenances (accessories).
4. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301.
5. Values shown are for Installation Type A: Free inlet hemispherical sone levels.

Belt Driven

420B BCRU / BCRUSH

Max. Motor Frame = 213T

HP	RPM	STATIC PRESSURE (INCHES W.G.)											
		0	0.125	0.25	0.375	0.50	0.625	0.75	1.00	1.25	1.50	1.75	2.00
		CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone
1/2	230	9194 0.24 5.4	8009 0.32 4.3	6065 0.38 4									
	260	10393 0.35 6.9	9364 0.44 6	8097 0.54 6.2									
3/4	290	11592 0.48 8.6	10684 0.59 8	9667 0.70 7.2	8042 0.77 7								
1	320	12791 0.65 10.5	11977 0.76 10.1	11084 0.88 8.6	10008 1.00 9.7	8157 1.03 7.8							
1-1/2	365	14590 0.96 12.9	13884 1.09 12.9	13122 1.23 11.4	12313 1.37 11.2	11292 1.49 12	9693 1.53 10.7						
2	405	16189 1.31 15.2	15557 1.46 15.2	14886 1.61 14.4	14176 1.76 13.4	13420 1.91 13.6	12439 2.04 14.3	11003 2.09 12.7					
3	435	17388 1.62 16.6	16802 1.78 16.6	16185 1.94 16.4	15533 2.10 14.6	14859 2.27 14.5	14107 2.43 15.4	13082 2.54 15.4	9819 2.52 12.8				
	460	18387 1.92 17.8	17834 2.09 17.8	17256 2.26 17.6	16648 2.43 16.4	16019 2.60 15.5	15356 2.78 16	14574 2.93 17	12131 3.07 14.6				
5	505	20186 2.54 19.9	19684 2.73 19.9	19164 2.91 19.9	18622 3.10 18.8	18057 3.28 17.7	17481 3.47 17.4	16874 3.67 17.6	15280 3.97 18.7	12817 4.05 15.5			
	550	21985 3.28 22	21525 3.48 22	21051 3.69 22	20562 3.89 22.0	20056 4.09 21	19532 4.29 19.5	19002 4.50 19.2	17833 4.91 20.0	16119 5.18 20	13768 5.23 18		
7-1/2	590	23583 4.05 25	23156 4.27 25	22717 4.48 25	22266 4.70 25.0	21801 4.92 24	21322 5.13 23	20832 5.35 22	19817 5.81 22	18599 6.21 23	16790 6.43 23	14511 6.44 20	
	630	25182 4.94 27	24783 5.17 27	24374 5.40 27	23955 5.63 27	23525 5.86 27	23084 6.09 26	22630 6.32 25	21705 6.80 24	20704 7.27 25	19426 7.65 26	17623 7.84 25	15446 7.84 22

480B BCRU / BCRUSH

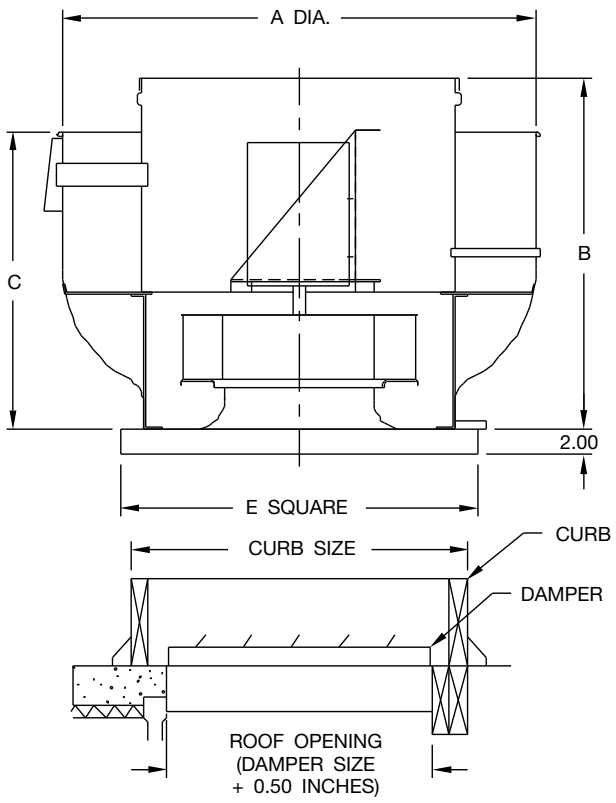
Max. Motor Frame = 213T

HP	RPM	STATIC PRESSURE (INCHES W.G.)											
		0	0.125	0.25	0.375	0.50	0.625	0.75	0.875	1.125	1.00	1.25	1.50
		CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone
1/2	195	10945 0.28 4.9	9191 0.37 4.1	5902 0.39 3.1									
	210	11787 0.35 5.7	10139 0.44 5.0	7771 0.52 4.6									
3/4	240	13471 0.53 7.4	11992 0.63 6.7	10523 0.73 6.8	7433 0.74 4.7								
1	265	14874 0.71 8.9	13524 0.82 8.3	12298 0.93 7.6	10274 1.03 7.8	5367 0.80 5.2							
1-1/2	305	17119 1.08 11.7	15938 1.21 11.7	14837 1.34 10.3	13724 1.47 10.2	11769 1.58 10.3	8678 1.46 7.5						
2	335	18803 1.43 14.2	17723 1.58 14.2	16688 1.72 12.4	15742 1.86 11.9	14525 2.00 12.6	12580 2.10 11.9	9692 1.95 9.4					
3	355	19925 1.70 15.3	18905 1.86 15.3	17916 2.01 14.2	17013 2.16 13.2	16048 2.30 13.2	14490 2.45 13.7	12557 2.49 12.2	8406 2.08 10.1				
	380	21329 2.09 17.3	20373 2.26 17.3	19444 2.42 16.2	18572 2.58 15.0	17735 2.73 14.7	16681 2.89 14.9	15024 3.03 15.1	13180 3.05 13.5	9183 2.58 12.0			
5	420	23574 2.82 20	22707 3.01 20	21860 3.19 20	21035 3.37 17.8	20277 3.54 17.3	19510 3.71 17.2	18564 3.88 17.5	17141 4.06 17.6	15543 4.13 17.3	13549 4.04 14.8	8741 3.23 13.8	
	455	25538 3.59 23	24737 3.79 23	23951 3.99 23	23180 4.18 21	22446 4.37 19.9	21756 4.56 19.3	21036 4.74 19.0	20155 4.93 19.8	18891 5.12 20	17415 5.24 19.9	15845 5.23 17.9	
7-1/2	490	27503 4.48 25	26757 4.70 25	26025 4.91 25	25304 5.12 25	24598 5.33 23	23940 5.53 22	23300 5.73 21	22624 5.93 21	21817 6.13 22	20713 6.34 23	19342 6.51 23	16340 6.48 19.3
	520	29187 5.35 28	28483 5.59 28	27791 5.82 28	27109 6.04 28	26437 6.26 26	25791 6.48 25	25184 6.69 24	24577 6.90 23	23930 7.11 23	23162 7.32 24	22143 7.55 25	19588 7.84 24

NOTES:
1. Performance certified is for Installation Type A: Free inlet, free outlet.
2. Power rating (BHP) does not include transmission losses.
3. Performance ratings do not include the effects of appurtenances (accessories).
4. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301.
5. Values shown are for Installation Type A: Free inlet hemispherical sone levels.

Fan & Blower
Twin City

Models DCRU, DCRUR



* Damper not available on DCRUR.

Dimensional Data and Weights

MODEL		A	B	C	E	AVG. UNIT WT. (LB.)
EC MTR	PSC MTR					
073BE	071-073B	22.00	24.44	18.00	17.00	100
083BE	081-083B	22.00	24.44	18.00	17.00	100
093BE	091-093B	22.00	26.13	18.00	20.00	120
110BE	110B	30.00	28.31	28.00	24.00	135
120BE	120B	30.00	27.19	28.00	24.00	135
140BE	140B	30.00	27.68	28.00	24.00	145
160BE	160B	30.00	29.81	28.00	24.00	180
180BE	180B	36.00	29.17	30.00	30.00	180

Dampers and Roof Curbs

MODEL		DAMPER SIZE*	STANDARD CURB SIZE	SELF FLASH CURB SIZE	ROOF OPENING
DCRU	DCRUR				
073BE	073BE	10 x 10	15½ x 15½	16½ x 16½	10½ x 10½
083BE	083BE	10 x 10	15½ x 15½	16½ x 16½	10½ x 10½
093BE	093BE	14 x 14	18½ x 18½	19½ x 19½	14½ x 14½
110BE	110BE	18 x 18	22½ x 22½	23½ x 23½	18½ x 18½
120BE	120BE	18 x 18	22½ x 22½	23½ x 23½	18½ x 18½
140BE	140BE	18 x 18	22½ x 22½	23½ x 23½	18½ x 18½
160BE	160BE	18 x 18	22½ x 22½	23½ x 23½	18½ x 18½
180BE	180BE	24 x 24	28½ x 28½	29½ x 29½	24½ x 24½

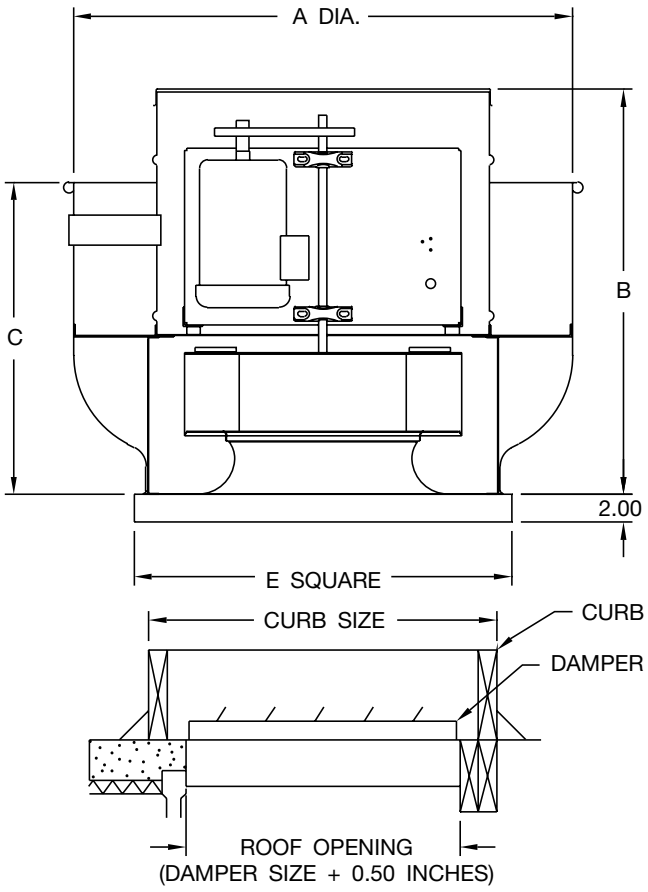
*DCRU Only

D-4407E
D-4408E

Notes:

1. All dimensions are in inches unless otherwise noted.
2. Dimensions are not to be used for construction.
3. Damper sizes are nominal.
4. Outside dimensions of roof curb should be 1" to 1.50" less than inside curb cap dimension 'E', depending on thickness of flashing material used. If curb hinges are used, specify 1.50" difference.
5. DCRUR (Kitchen Exhaust) provided with self flashing, vented, 12" high curb, built to 'standard' curb size dimensions above.

Models BCRU, BCRUR



* Damper not available on BCRUR.

Dimensional Data and Weights

MODEL		A	B	C	E	AVG. UNIT WT. (LBS.)
BCRU	BCRUR					
110B	110B	30.00	28.56	28.00	24.00	135
120B	120B	30.00	27.19	28.00	24.00	135
140B	140B	30.00	27.68	28.00	24.00	145
140BHP	140BHP	30.00	28.58	28.00	24.00	135
160B	160B	30.00	29.81	28.00	24.00	180
160BHP	160BHP	30.00	27.68	28.00	24.00	135
160BMP	160BMP	30.00	28.44	28.00	24.00	180
180B	180B	36.00	32.31	30.00	30.00	180
180BMP	180BMP	36.00	29.19	30.00	30.00	180
180BHP	180BHP	36.00	31.00	30.00	30.00	180
210B	210B	45.00	35.61	28.25	34.00	245
210BHP	210BHP	45.00	32.94	28.25	34.00	245
240B	240B	45.00	37.56	28.25	34.00	245
240BHP	240BHP	45.00	34.31	28.25	34.00	245
300B	300B	54.00	38.25	31.00	40.00	365
300BHP	300BHP	54.00	34.88	31.00	40.00	365
360B	360B	63.00	43.88	34.00	46.00	375
360BHP	360HP	63.00	39.68	34.00	46.00	375
420B	—	69.00	46.75	36.00	52.00	385
480B	—	75.00	49.13	39.00	58.00	490

Dampers and Roof Curbs

MODEL		DAMPER	STANDARD	SELF FLASH	ROOF
BCRU	BCRUR	SIZE*	CURB SIZE	CURB SIZE	OPENING
110B	110B	18 x 18	22½ x 22½	23½ x 23½	18½ x 18½
120B	120B	18 x 18	22½ x 22½	23½ x 23½	18½ x 18½
140B	140B	18 x 18	22½ x 22½	23½ x 23½	18½ x 18½
160B	160B	18 x 18	22½ x 22½	23½ x 23½	18½ x 18½
180B	180B	24 x 24	28½ x 28½	29½ x 29½	24½ x 24½
210B	210B	28 x 28	32½ x 32½	33½ x 33½	28½ x 28½
240B	240B	28 x 28	32½ x 32½	33½ x 33½	28½ x 28½
300B	300B	34 x 34	38½ x 38½	39½ x 39½	34½ x 34½
360B	360B	40 x 40	44½ x 44½	45½ x 45½	40½ x 40½
420B	—	46 x 46	50½ x 50½	51½ x 51½	46½ x 46½
480B	—	50 x 50	56½ x 56½	57½ x 57½	50½ x 50½

*BCRU Only

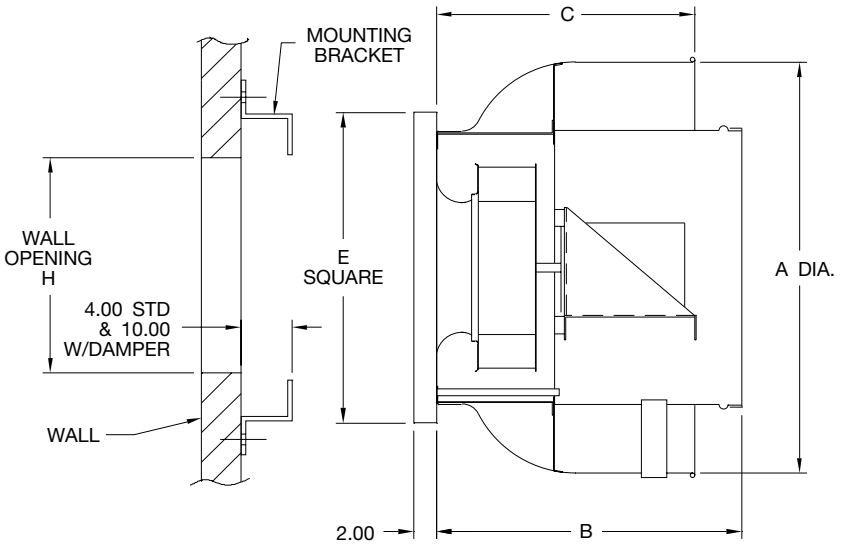
D-4401H
D-4402H

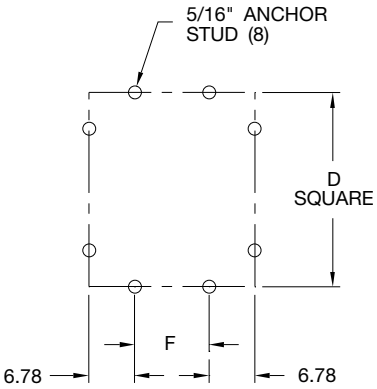
Notes:

1. All dimensions are in inches unless otherwise noted.
2. Dimensions are not to be used for construction.
3. Damper sizes are nominal.
4. BCRUR (Kitchen Exhaust) provided with self flashing, vented, 12" high curb, built to 'standard' curb size dimensions above.

Fan & Blower Twin City

Models DCRW, DCRWR





MOUNTING BRACKET HOLE MOUNTING PATTERN

* Damper not available on DCRWR.

Dimensional Data and Weights

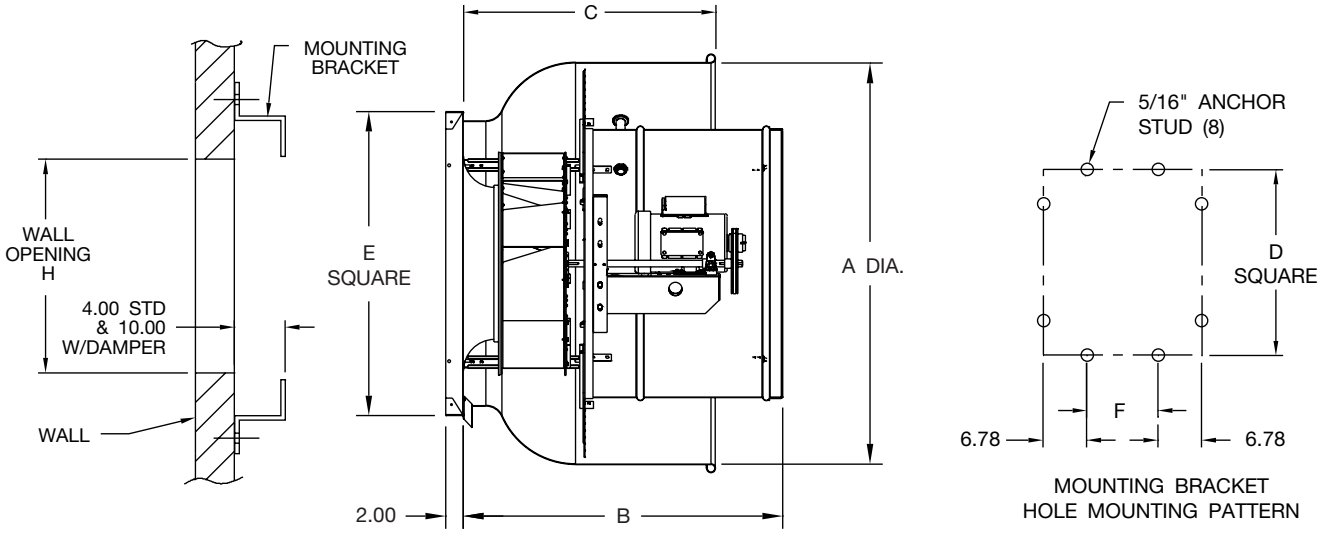
MODEL		A	B	C	D	E	F	AVG. UNIT WT. (LB.)	DAMPER SIZE*	WALL MTG. BRACKET	WALL OPENING (H)
EC MTR	PSC MTR										
073BE	**071-073B**	22.00	24.44	18.00	18.56	17.00	5.00	100	10 x 10	16¾ x 16¾	10½ x 10½
083BE	**081-083B**	22.00	24.44	18.00	18.56	17.00	5.00	100	10 x 10	16¾ x 16¾	10½ x 10½
093BE	**091-093B**	22.00	26.13	18.00	21.56	20.00	8.00	120	14 x 14	19¾ x 19¾	14½ x 14½
110BE	**110B**	30.00	28.31	28.00	25.56	24.00	12.00	135	17 x 17	23¾ x 23¾	17½ x 17½
120BE	**120B**	30.00	27.19	28.00	25.56	24.00	12.00	135	17 x 17	23¾ x 23¾	17½ x 17½
140BE	**140B**	30.00	27.68	28.00	25.56	24.00	12.00	145	17 x 17	23¾ x 23¾	17½ x 17½
160BE	**160B**	30.00	29.81	28.00	25.56	24.00	12.00	180	17 x 17	23¾ x 23¾	17½ x 17½
180BE	**180B**	36.00	29.17	30.00	31.56	30.00	18.00	180	24 x 24	29¾ x 29¾	24½ x 24½

*DCRW Only

D-4409H
D-4410F

Notes:
1. All dimensions are in inches unless otherwise noted.
2. Dimensions are not to be used for construction.
3. Damper sizes are nominal.

Models BCRW, BCRWR



* Damper not available on BCRWR.

Dimensional Data and Weights

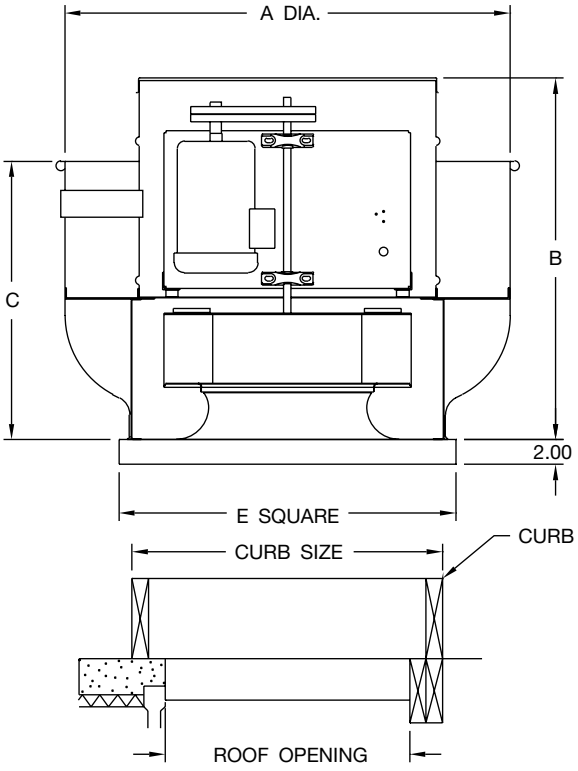
MODEL		A	B	C	D	E	F	AVG. UNIT	DAMPER	WALL MTG.	WALL
BCRW	BCRWR		MAX.					WT. (LB.)	SIZE*	BRACKET	OPENING (H)
110B	**110B**	30.00	28.56	28.00	25.56	24.00	12.00	135	17 x 17	23¾ x 23¾	17½ x 17½
120B	**120B**	30.00	27.19	28.00	25.56	24.00	12.00	135	17 x 17	23¾ x 23¾	17½ x 17½
140B	**140B**	30.00	28.56	28.00	25.56	24.00	12.00	145	17 x 17	23¾ x 23¾	17½ x 17½
160B	**160B**	30.00	29.81	28.00	25.56	24.00	12.00	180	17 x 17	23¾ x 23¾	17½ x 17½
180B	**180B**	36.00	32.31	30.00	31.56	30.00	18.00	180	24 x 24	29¾ x 29¾	24½ x 24½
210B	**210B**	45.00	35.61	28.25	35.56	34.00	22.00	245	27 x 27	33¾ x 33¾	27½ x 27½
240B	**240B**	45.00	37.56	28.25	35.56	34.00	22.00	245	27 x 27	33¾ x 33¾	27½ x 27½
300B	**300B**	54.00	38.25	31.00	41.56	40.00	28.00	365	33 x 33	39¾ x 39¾	33½ x 33½

*BCRW Only

D-4403L
D-4406G

Notes:
1. All dimensions are in inches unless otherwise noted.
2. Dimensions are not to be used for construction.
3. Damper sizes are nominal.

Model BCRUSH



Dimensional Data and Weights

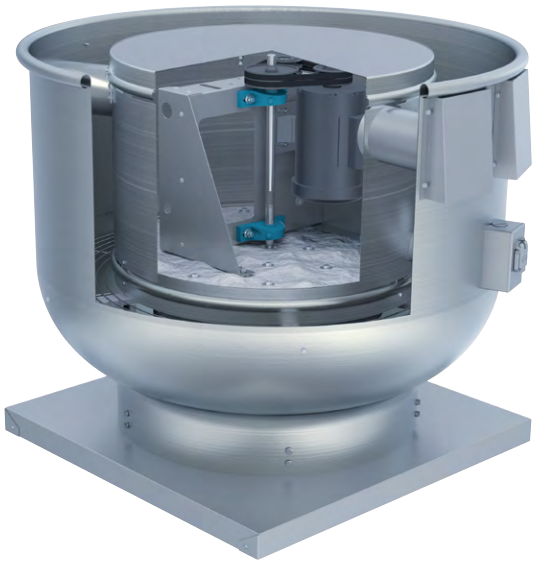
MODEL BCRUSH	A	B MAX.	C	E	AVG. UNIT WT. (LB.)
110B	30.00	28.56	28.00	24.00	153
120B	30.00	27.19	28.00	24.00	158
140B	30.00	28.56	28.00	24.00	173
160B	30.00	29.81	28.00	24.00	183
180B	36.00	32.31	30.00	30.00	223
210B	45.00	35.61	28.25	34.00	252
240B	45.00	37.56	28.25	34.00	272
300B	54.00	38.25	31.00	40.00	437
360B	63.00	43.88	34.00	46.00	629
420B	69.00	46.75	36.00	52.00	647
480B	75.00	49.13	39.00	58.00	823

Dampers and Roof Curbs

MODEL BCRUSH	STANDARD CURB SIZE	ROOF OPENING
110B	22½ x 22½	18½ x 18½
120B	22½ x 22½	18½ x 18½
140B	22½ x 22½	18½ x 18½
160B	22½ x 22½	18½ x 18½
180B	28½ x 28½	24½ x 24½
210B	32½ x 32½	28½ x 28½
240B	32½ x 32½	28½ x 28½
300B	38½ x 38½	34½ x 34½
360B	44½ x 44½	40½ x 40½
420B	50½ x 50½	46½ x 46½
480B	56½ x 56½	50½ x 50½

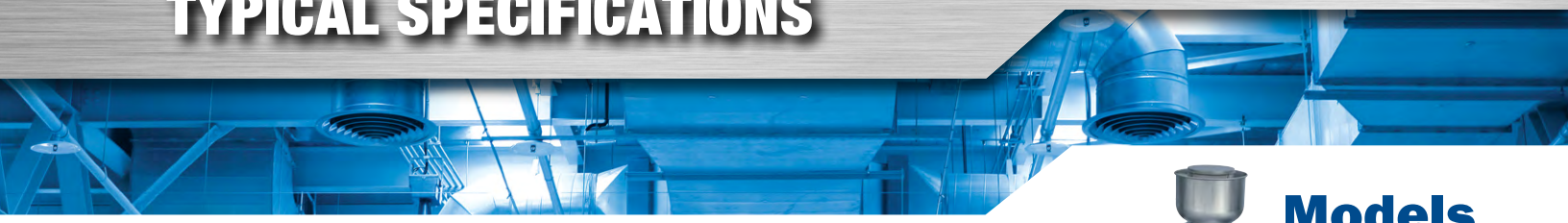
D-4401-1E

Notes:
1. Standard curb is self-flashing, vented.
2. All dimensions are in inches unless otherwise noted.
3. Dimensions are not to be used for construction.



Fan & Blower
Twin City

TYPICAL SPECIFICATIONS



Models

DCRU, DCRUR, DCRW, DCRWR

Roof and wall mounted exhaust fans shall be of the direct drive centrifugal type and shall be DCRU (upblast); DCRUR (upblast kitchen exhaust); DCRW (wall mount); and DCRWR (wall mount kitchen exhaust) as manufactured by Twin City Fan & Blower, Minneapolis, Minnesota.

PERFORMANCE — Fans shall be tested in accordance with AMCA 210 and AMCA 300 test codes for air moving devices and shall be guaranteed by the manufacturer to deliver rated published performance levels. Fans shall be licensed to bear the AMCA certified ratings seal for both sound and air. Models DCRU, and DCRW shall be cULus 705 listed. Models DCRUR and DCRWR shall be cULus 762 listed for the exhaust of grease-laden air.

CONSTRUCTION — Fans shall be constructed of aluminum for durability and appearance. Fan spinnings shall have a rolled bead edge for rigidity. Units shall have a deep venturi inlet to prevent snow and rain entry into the building. The curb cap shall include prepunched mounting holes for ease of installation. A conduit chase constructed of electrical metallic tubing shall be provided to the motor compartment. The curb base shall provide protection from weather. Lifting lugs shall be provided inside the motor compartment for ease of handling and installation. Fans shall bear a permanently attached nameplate displaying model and serial number of the unit for future identification.

MOTOR ASSEMBLY — Motor assembly shall be mounted on vibration isolators to eliminate vibration and noise transmission into the ductwork. Motors shall be mounted out of the exhaust airstream and shall have a cooling tube that provides air separate from the exhaust.

WHEEL — Fan wheels shall be of the centrifugal backward inclined type, constructed of aluminum and containing a matching inlet venturi for optimum unit performance. Wheels shall be statically and dynamically balanced.

MOTOR — Motors shall be heavy-duty ball bearing type, closely matched to the fan load. All single-phase ODP motors shall contain thermal overload protection. All motors shall be cULus recognized. Motors for use with speed control shall provide good speed controllability without any objectionable noise.

DISCONNECT SWITCH — A NEMA 1 disconnect switch shall be supplied with wiring leading from the motor to the junction box on models DCRU and DCRW. A NEMA 3R disconnect switch shall be supplied with wiring leading from the motor to a junction box located outside of the motor compartment on models DCRUR and DCRWR.

FINISH AND COATING — Fans shall be constructed of aluminum. Optional coatings shall be available.

ACCESSORIES — When specified, accessories such as backdraft damper, roof curb, curb hinge, retaining chain, security hasp, variable speed controller, NEMA 4 disconnect switch, 2-speed switch, firestat, aluminum bird screen, aluminum insect screen, and special coatings shall be provided by Twin City Fan & Blower to maintain one source responsibility.

FACTORY RUN TEST — All fans prior to shipment shall be completely assembled and test run as a unit at operating speed or maximum RPM allowed for the particular construction type. Each wheel shall be statically and dynamically balanced in accordance with ANSI/AMCA 204-96 "Balance Quality and Vibration Levels for Fans" to Fan Application Category BV-3, Balance Quality Grade G6.3. Balance readings shall be taken by electronic type equipment in the axial, vertical, and horizontal directions. Records shall be maintained and a written copy shall be available upon request.

GUARANTEE — The manufacturer shall guarantee the workmanship and materials for its roof and wall mounted centrifugal exhaust fans for at least one (1) year from startup or eighteen (18) months from shipment, whichever occurs first.

Fan & Blower Twin City

Models

BCRU, BCRUR, BCRW, BCRWR, BCRUSH

Roof and wall mounted exhaust fans shall be of the belt driven centrifugal type and shall be BCRU (upblast); BCRUR (upblast kitchen exhaust); BCRUSH (smoke and heat exhaust); BCRW (wall mount); and BCRWR (wall mount kitchen exhaust) as manufactured by Twin City Fan & Blower, Minneapolis, Minnesota.

PERFORMANCE — Fans shall be tested in accordance with AMCA 210 and AMCA 300 test codes for air moving devices and shall be guaranteed by the manufacturer to deliver rated published performance levels. Fans shall be licensed to bear the AMCA certified ratings seal for both sound and air. Models BCRU, and BCRW shall be cULus 705 listed. Models BCRUR and BCRWR shall be cULus 762 listed for the exhaust of grease-laden air. Model BCRUSH shall be UL listed for Smoke Control Systems (500°F for 4 hours and 1000°F for 15 minutes).

CONSTRUCTION — Models BCRU, BCRUR, BCRW, BCRWR and BCRUSH shall be constructed of aluminum for durability and appearance. Fan spinnings shall have a rolled bead edge for rigidity. Units shall have a deep venturi inlet to prevent snow and rain entry into the building. The curb cap shall include prepunched mounting holes for ease of installation. A conduit chase constructed of electrical metallic tubing shall be provided to the motor compartment. The curb base shall provide protection from weather. Lifting lugs shall be provided inside the motor compartment for ease of handling and installation. Fans shall bear a permanently attached nameplate displaying model and serial number of the unit for future identification. Model BCRUSH shall have aluminum nameplate. Fiberglass insulation on model BCRUSH shall line the bottom of the motor compartment to protect motor and drive components from heat.

MOTOR AND DRIVE ASSEMBLY — Motor and drive assembly shall be mounted on vibration isolators to eliminate vibration and noise transmission into the ductwork. Motors and drives shall be mounted out of the exhaust airstream and shall have a cooling tube that provides air separate from the exhaust. Model BCRUSH shall have a minimum of three cooling tubes.

WHEEL — Fan wheels shall be of the centrifugal backward inclined type, containing a matching inlet venturi for optimum unit performance. Fan wheels on models BCRU, BCRUR, BCRW and BCRWR shall be constructed of aluminum. Fan wheels on model BCRUSH shall be constructed of steel. Wheels shall be statically and dynamically balanced.

SHAFT — Fan shafts shall be precision-ground and polished. Shafts shall have a first critical speed of at least 125% of the fan's maximum operating speed.

BEARINGS — Bearings shall be of the one-piece, pillow block type with relubricable zerk fittings. Bearings shall be designed for air handling service with a minimum L-10 life in excess of 100,000 hours; L-50 500,000 hours at the maximum cataloged operating speed. Bearing mounting plate shall have self-aligning tabs for exact locating and alignment of bearings.

DRIVE — Drive assembly shall be constructed of heavy-gauge galvanized steel. Drives shall be sized for a minimum of 150% of driven horsepower. Machined, cast iron motor sheaves shall be adjustable for final system balance. Model BCRUSH shall have 2-groove drives.

MOTOR — Motors shall be heavy-duty ball bearing type, closely matched to the fan load. All single-phase ODP motors shall contain thermal overload protection. All motors shall be cULus recognized. Motor adjustment shall allow precise belt tensioning for optimum belt life and one-person adjustment and servicing.

DISCONNECT SWITCH — A NEMA 1 disconnect switch shall be supplied with wiring leading from the motor to the junction box on models BCRU and BCRW. A NEMA 3R disconnect switch shall be supplied with wiring leading from the motor to a junction box located outside of the motor compartment on models BCRUR, BCRWR and BCRUSH.

FINISH AND COATING — Models BCRU, BCRUR, BCRW, BCRWR and BCRUSH shall be constructed of aluminum. Optional coatings shall be available.

ACCESSORIES — When specified, accessories such as backdraft damper, roof curb, curb hinge, retaining chain, security hasp, NEMA 4 disconnect switch, 2-speed switch, firestat, steel premium grease fan construction, aluminum bird screen, aluminum insect screen, and special coatings shall be provided by Twin City Fan & Blower to maintain one source responsibility.

FACTORY RUN TEST — All fans prior to shipment shall be completely assembled and test run as a unit at operating speed or maximum RPM allowed for the particular construction type. Each wheel shall be statically and dynamically balanced in accordance with ANSI/AMCA 204-96 "Balance Quality and Vibration Levels for Fans" to Fan Application Category BV-3, Balance Quality Grade G6.3. Balance readings shall be taken by electronic type equipment in the axial, vertical, and horizontal directions on each of the bearings. Records shall be maintained and a written copy shall be available upon request.

GUARANTEE — The manufacturer shall guarantee the workmanship and materials for its roof and wall mounted centrifugal exhaust fans for at least one (1) year from startup or eighteen (18) months from shipment, whichever occurs first.

INDUSTRIAL & COMMERCIAL FANS

Centrifugal Fans | Utility Sets | Plenum & Plug Fans | Inline Centrifugal Fans
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