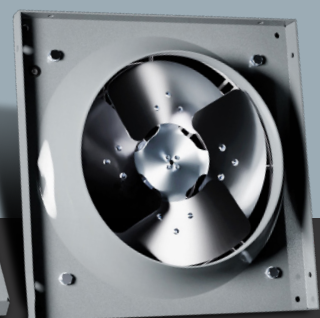
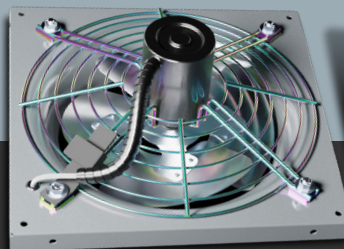
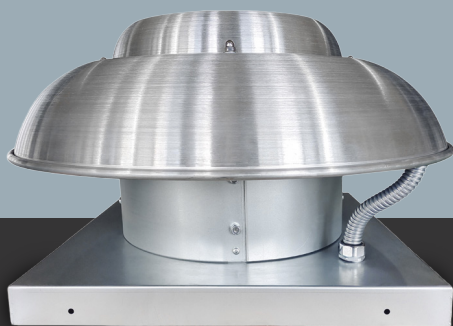




Designed In USA.

HEAVY DUTY SYSTEMS AIR EQUIPMENT_{60hz}

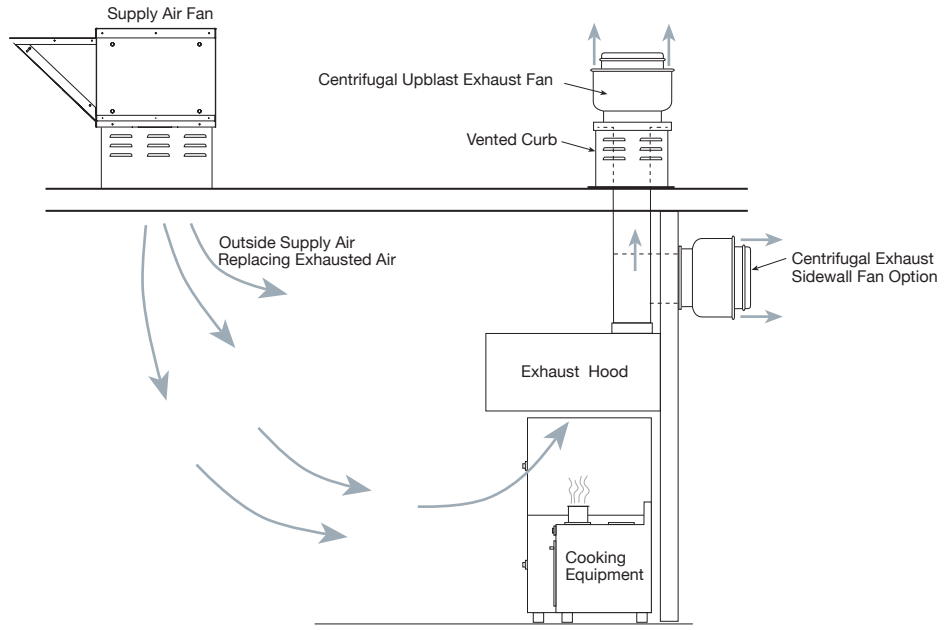


PERFORMANCE.
DURABILITY.
VALUE.



This drawing shows a typical commercial kitchen ventilation system that consists of a roof mounted upblast exhaust fan and a supply fan.

Exhaust fan variations include sidewall exhaust fan (also shown) when penetrating the roof is not practical. A utility blower is recommended when higher static pressure capability is required to pull exhaust through long duct runs (typically 3 stories or more).



FAN SIZING

Exhaust

When not specified by local codes, the following guidelines may be used to determine the minimum kitchen hood exhaust cfm. Some local codes require 100 cfm/ft² of hood area for wall style hoods.

Supply

Recommended supply airflow is 90% of exhaust cfm. The remaining 10% of supply air will be drawn from areas adjacent to the kitchen, which helps prevent undesirable kitchen odors from drifting into areas such as the dining room.

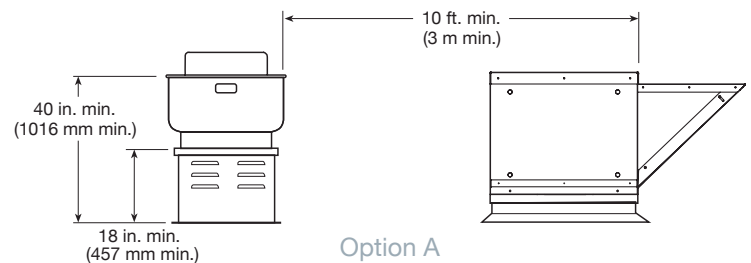
DUTY LEVEL	TYPE OF COOKING EQUIPMENT	CFM/FT ² OF HOOD
Light	Oven, Range, Kettle	50
Medium	Fryer, Griddle	75
Heavy	Charbroiler, Electric Broiler	100
Static pressure typically ranges from 0.625 to 1.0 in. for one story buildings.		

CONSIDERATIONS

The National Fire Protection Association specifies minimum distance criteria for restaurant exhaust and supply fans:

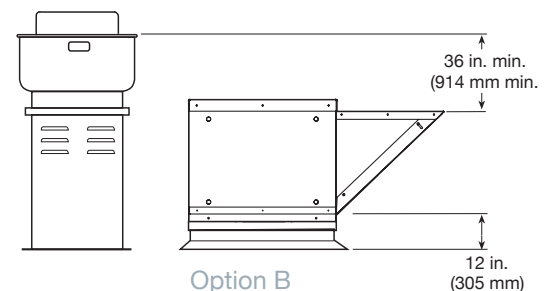
Option A

1. Roof deck to top of exhaust fan windband:
40 inches (1016 mm) minimum
2. Roof deck to top of curb:
18 inches (457 mm) minimum
3. Supply fan intake:
10 feet (3048 mm) minimum from all exhaust fans



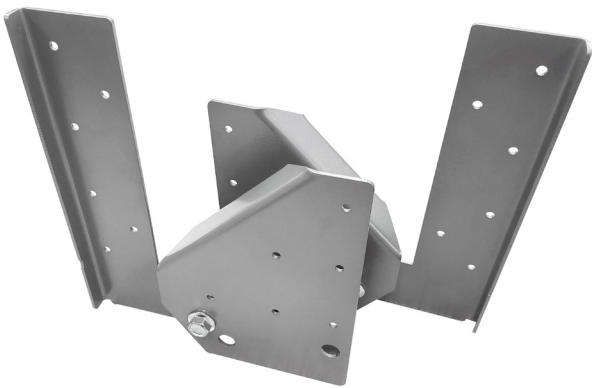
Option B

For applications where the 10 feet (3048 mm) horizontal distance cannot be met, vertical separation between exhaust and supply must be at least 36 inches (914 mm)



**GREASE TRAP**

Coated with corrosion resistant epoxy resin, the grease trap is designed to collect grease residue to avoid drainage on to roof surface

**HINGE KIT**

Coated with corrosion resistant epoxy resin, the hinge kit allows maintenance personnel to gain access to wheel and ductwork for regular inspection and cleaning

**STAINLESS STEEL U-TYPE HOOD FILTER**

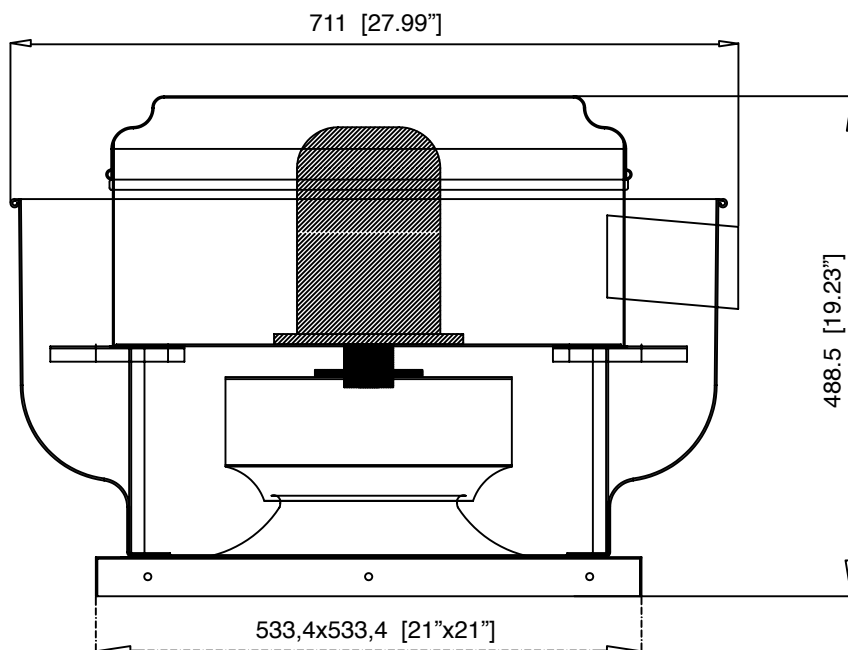
This hood filter features welded stainless steel construction with rugged drop handles. Ensures that solids and grease are deposited directly into baffles and drains out. Easy to clean with detergent and water, also dishwasher safe.



DD-X-A-.25hp-11-AL

STANDARD FEATURES

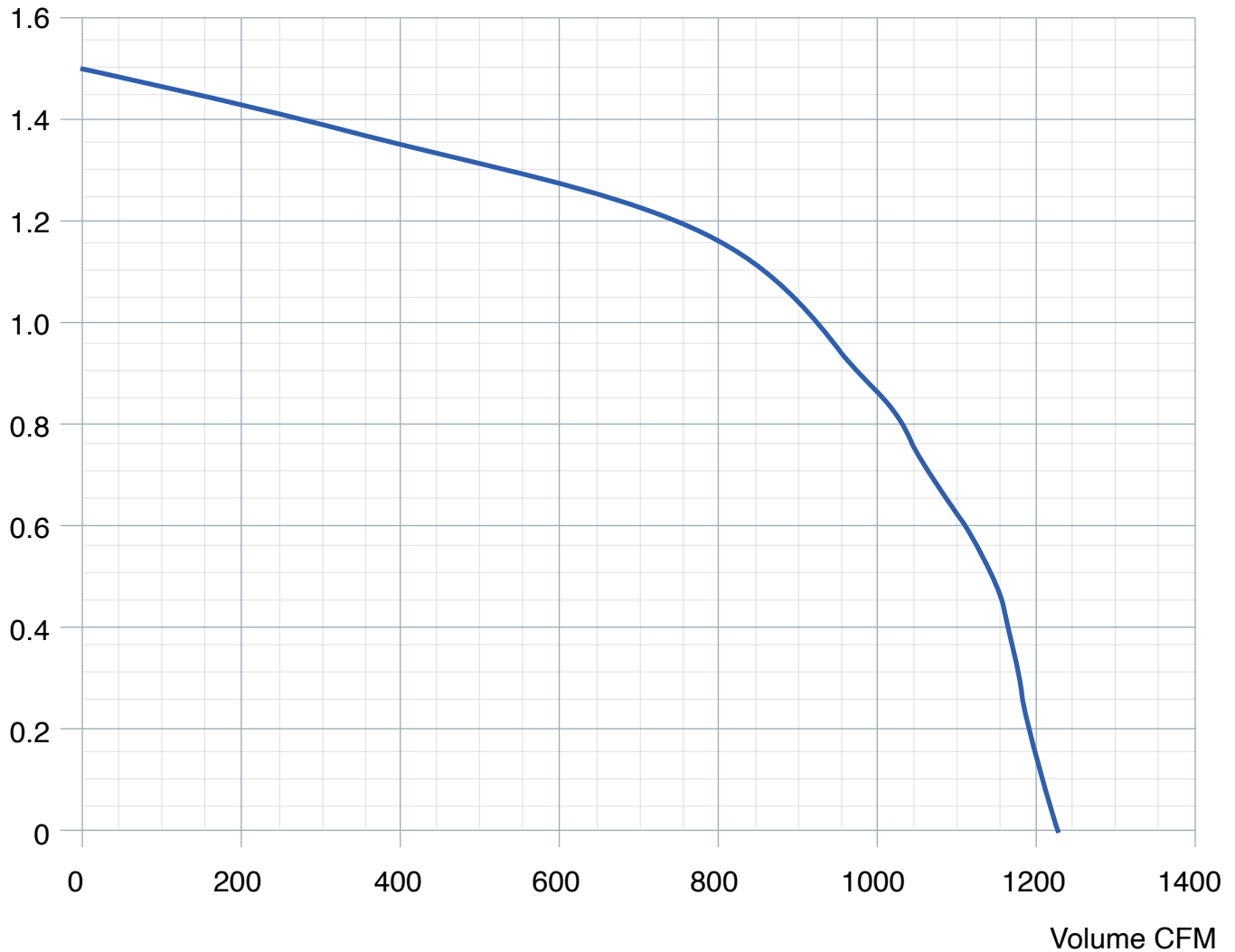
- Exhaust fan specifically designed for roof or sidewall mounted applications where contaminated or grease laden exhaust air can be discharged directly upward, away from the roof or wall surface
- Heavy duty aluminum construction, durable and weather resistant
 - Coated with corrosion resistant epoxy resin
- Vibration Isolators support the drive frame and blower assembly for long life and minimal sound transmission into the building
- Direct Drive
- Base with prepunched mounting holes for easy attachment to roof curb
- Drain/Grease Trough - Allows for one-point drainage of water, grease and other residues
- Comes with Grease Collector and Hinge Kit



MODEL	POWER	AC MOTOR 1Ø	FAN SPEED	IMPELLER DIA
DD-X-A-.25hp-11-AL	0.25HP	208V-230V/60Hz	1720RPM	11inch
	0.25HP	110V-120V/60Hz		

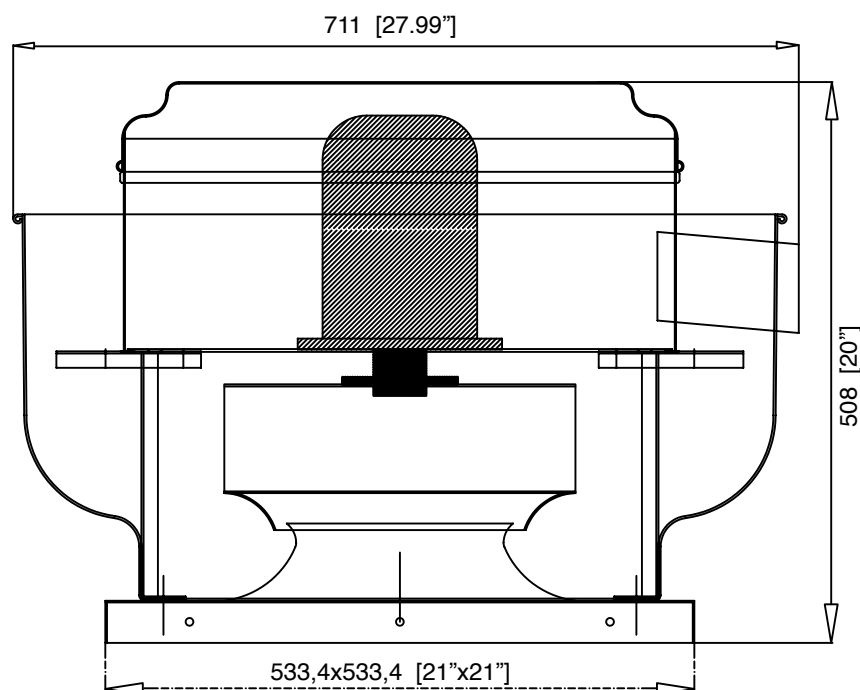
Static Pressure In. Wg

— DD-X-A-.25hp-11-AL





DD-X-A-.50hp-12.5-AL



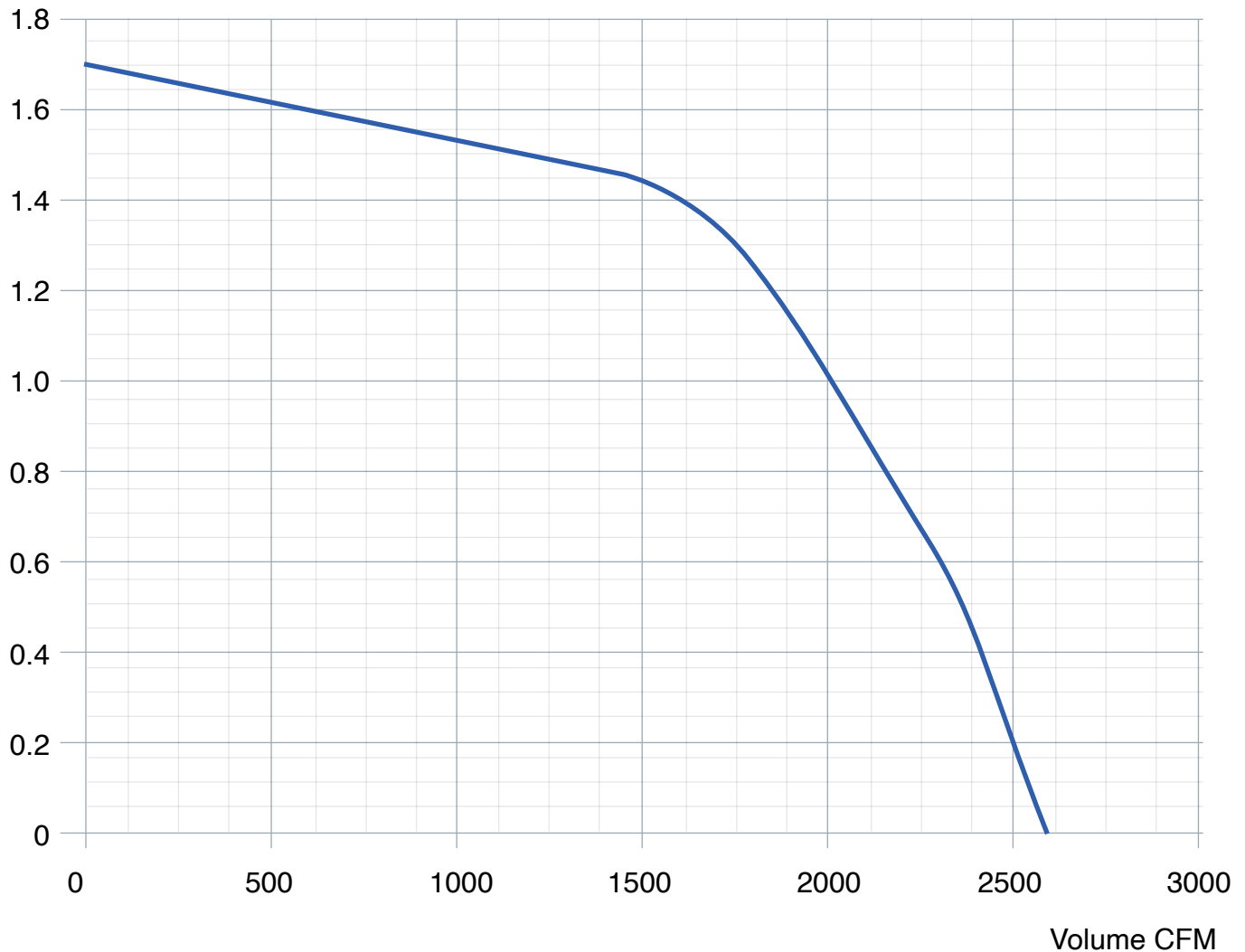
STANDARD FEATURES

- Exhaust fan specifically designed for roof or sidewall mounted applications where contaminated or grease laden exhaust air can be discharged directly upward, away from the roof or wall surface
- Heavy duty aluminum construction, durable and weather resistant
 - Coated with corrosion resistant epoxy resin
- Vibration Isolators support the drive frame and blower assembly for long life and minimal sound transmission into the building
- Direct Drive
- Base with prepunched mounting holes for easy attachment to roof curb
- Drain/Grease Trough - Allows for one-point drainage of water, grease and other residues
- Comes with Grease Collector and Hinge Kit

MODEL	POWER	AC MOTOR 1Ø	FAN SPEED	IMPELLER DIA
DD-X-A-.50hp-12.5-AL	0.5HP	220V/60Hz	1720RPM	12.5inch
	0.5HP	120V/60Hz		

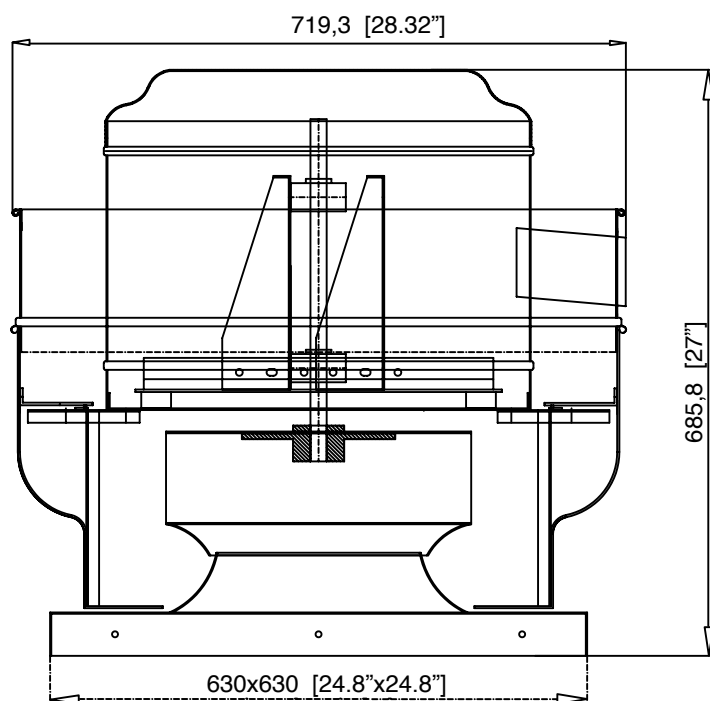
Static Pressure In. Wg

— DD-X-A-.50hp-12.5-AL





BD-X-B-.75hp-14-AL / BD-X-B-1hp-14-AL



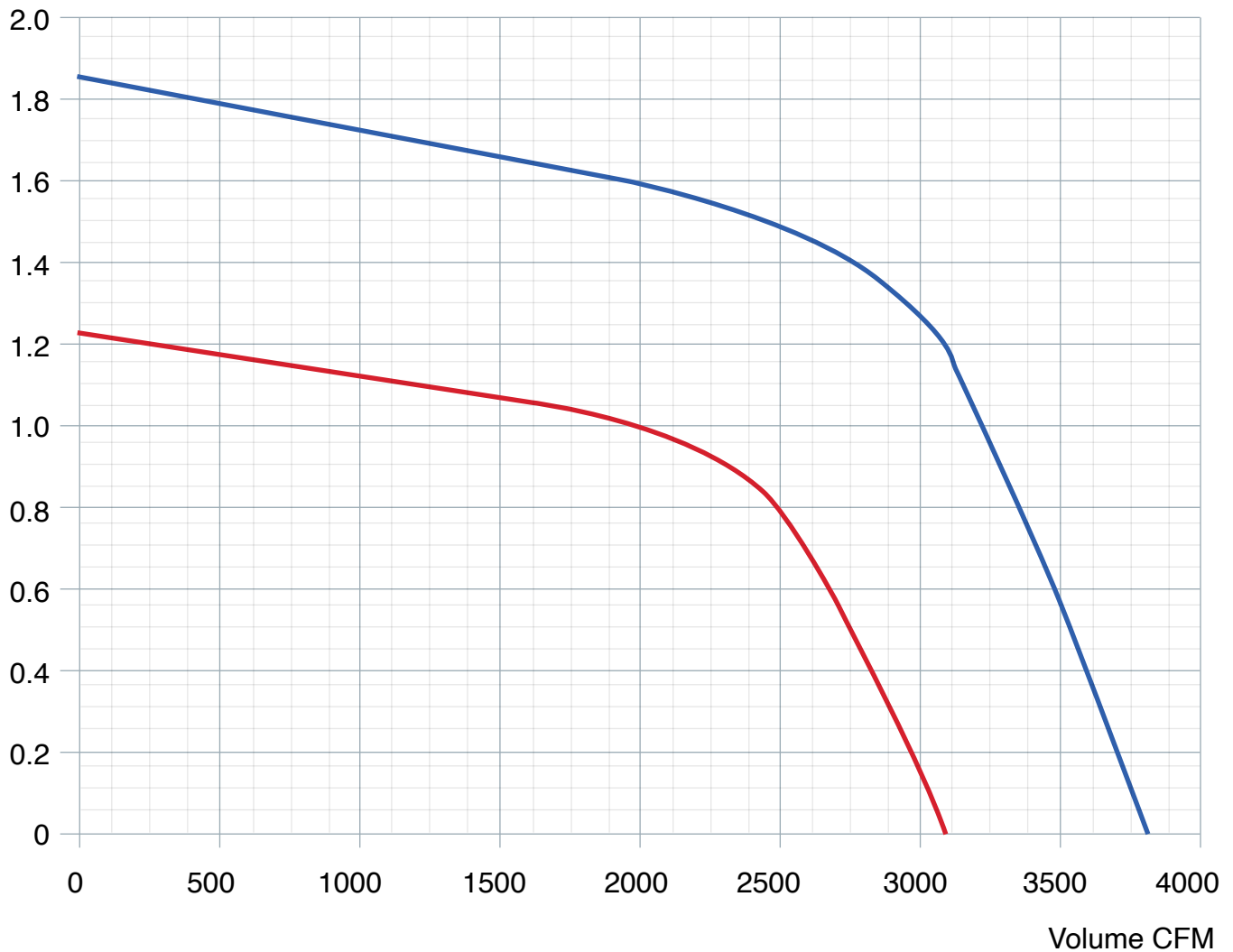
STANDARD FEATURES

- Exhaust fan specifically designed for roof or sidewall mounted applications where contaminated or grease laden exhaust air can be discharged directly upward, away from the roof or wall surface
- Heavy duty aluminum construction, durable and weather resistant
 - Coated with corrosion resistant epoxy resin
- Vibration Isolators support the drive frame and blower assembly for long life and minimal sound transmission into the building
- Belt Drive
- Base with prepunched mounting holes for easy attachment to roof curb
- Drain/Grease Trough - Allows for one-point drainage of water, grease and other residues
- Comes with Grease Collector and Hinge Kit

MODEL	POWER	AC MOTOR 1Ø	FAN SPEED	IMPELLER DIA
BD-X-B-.75hp-14-AL	0.75HP	208V-230V/60Hz	1400RPM	14inch
	0.75HP	115v/60 or 230/60		
BD-X-B-1hp-14-AL	1.0HP	208V-230V/60Hz	1720RPM	
	1.0HP	115v/60 or 230/60		

Static Pressure In. Wg

— BD-X-B-1hp-14-AL
— BD-X-B-.75hp-14-AL



sales@heavydutysystems.com

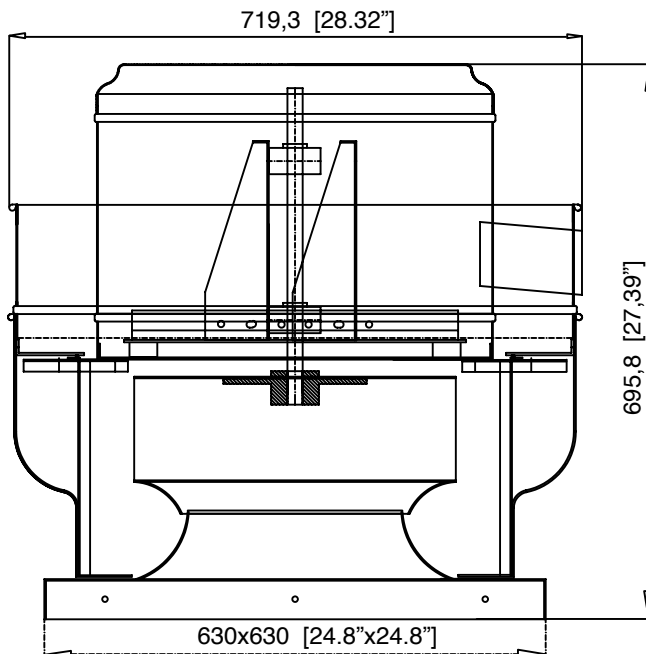


Designed In USA.

PERFORMANCE. DURABILITY. VALUE.



BD-X-B-1hp-16-AL / BD-X-B-1.5hp-16-AL



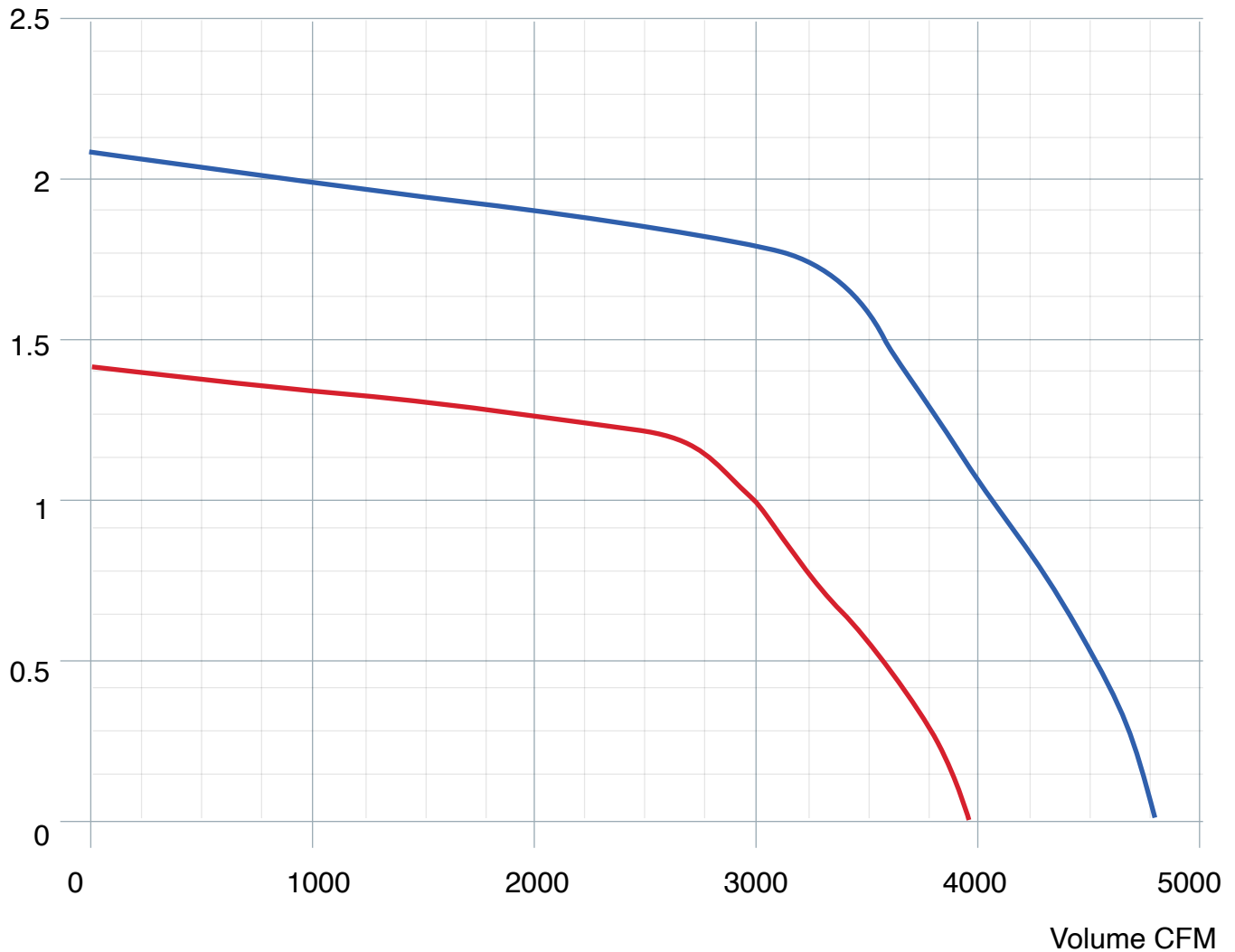
STANDARD FEATURES

- Exhaust fan specifically designed for roof or sidewall mounted applications where contaminated or grease laden exhaust air can be discharged directly upward, away from the roof or wall surface
- Heavy duty aluminum construction, durable and weather resistant
 - Coated with corrosion resistant epoxy resin
- Vibration Isolators support the drive frame and blower assembly for long life and minimal sound transmission into the building
- Belt Drive
- Base with prepunched mounting holes for easy attachment to roof curb
- Drain/Grease Trough - Allows for one-point drainage of water, grease and other residues
- Comes with Grease Collector and Hinge Kit

MODEL	POWER	AC MOTOR 1Ø	FAN SPEED	IMPELLER DIA
BD-X-B-1hp-16-AL	1.0HP	208V-230V/60Hz	1400RPM	16inch
	1.0HP	110V-120V/60Hz		
BD-X-B-1.5hp-16-AL	1.5HP	208V-230V/60Hz	1720RPM	
	1.5HP	110V-120V/60Hz		

Static Pressure In. Wg

— BD-X-B-1.5hp-16-AL
 — BD-X-B-1hp-16-AL



sales@heavydutysystems.com

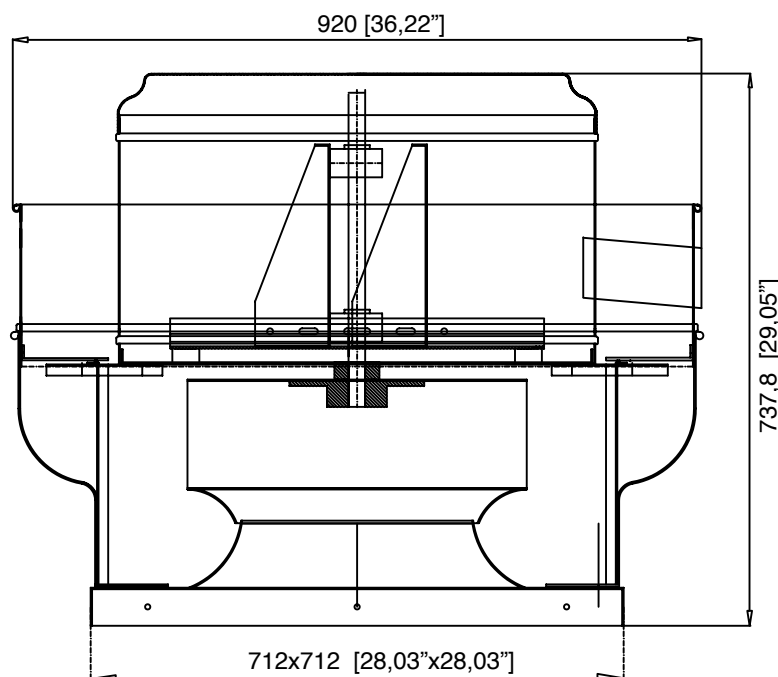


Designed In USA.

PERFORMANCE. DURABILITY. VALUE.



BD-X-B-1.5hp-18-AL / BD-X-B-2hp-18-AL



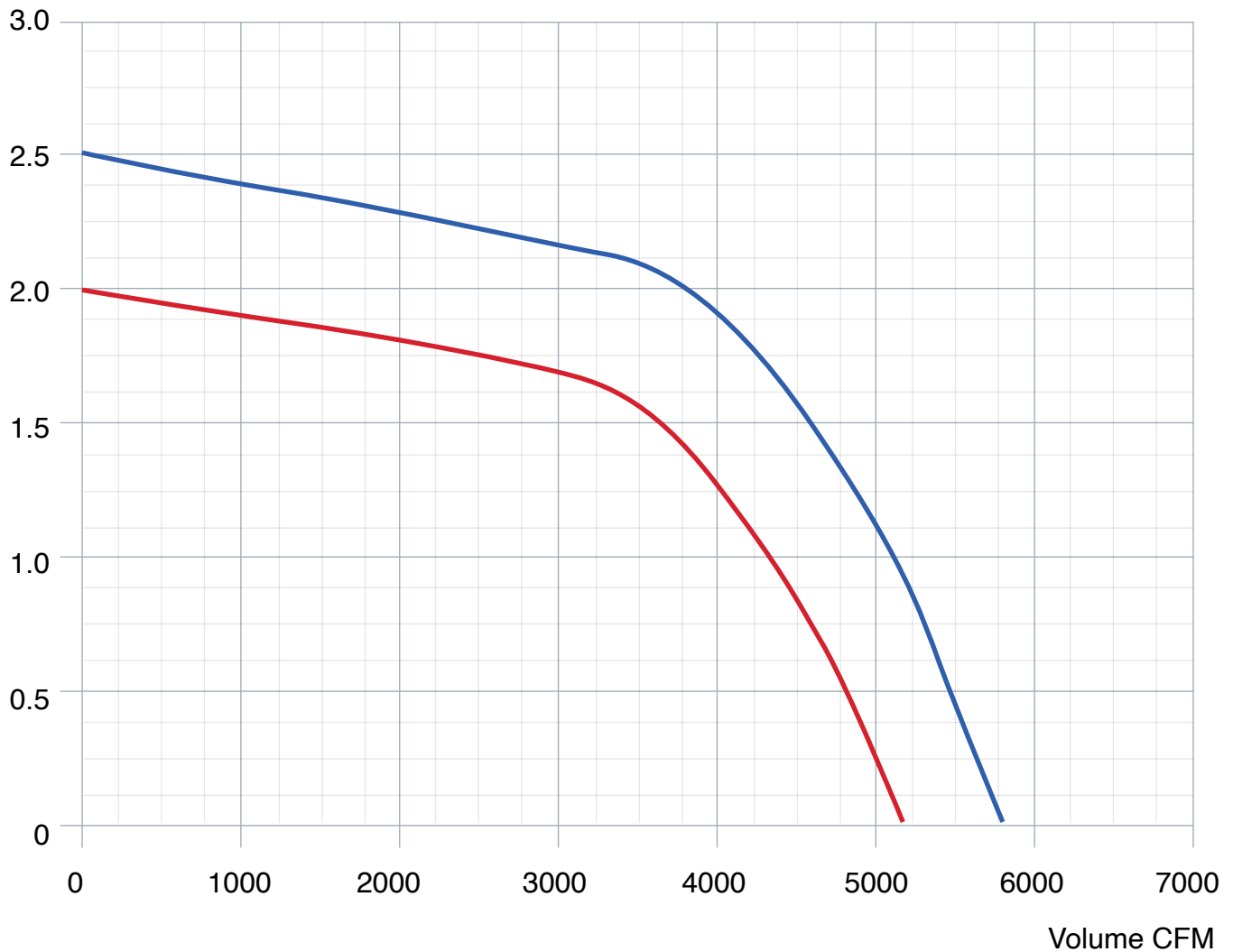
STANDARD FEATURES

- Exhaust fan specifically designed for roof or sidewall mounted applications where contaminated or grease laden exhaust air can be discharged directly upward, away from the roof or wall surface
- Heavy duty aluminum construction, durable and weather resistant
 - Coated with corrosion resistant epoxy resin
- Vibration Isolators support the drive frame and blower assembly for long life and minimal sound transmission into the building
- Belt Drive
- Base with prepunched mounting holes for easy attachment to roof curb
- Drain/Grease Trough - Allows for one-point drainage of water, grease and other residues
- Comes with Grease Collector and Hinge Kit

MODEL	POWER	AC MOTOR 1Ø	FAN SPEED	IMPELLER DIA
BD-X-B-1.5hp-18-AL	1.5HP	115v/60 or 230/60	1250RPM	18inch
	1.5HP	208V-230V/60Hz		
BD-X-B-2hp-18-AL	2.0HP	208V-230V/60Hz	1400RPM	

Static Pressure In. Wg

— BD-X-B-2hp-18-AL
 — BD-X-B-1.5hp-18-AL



sales@heavydutysystems.com

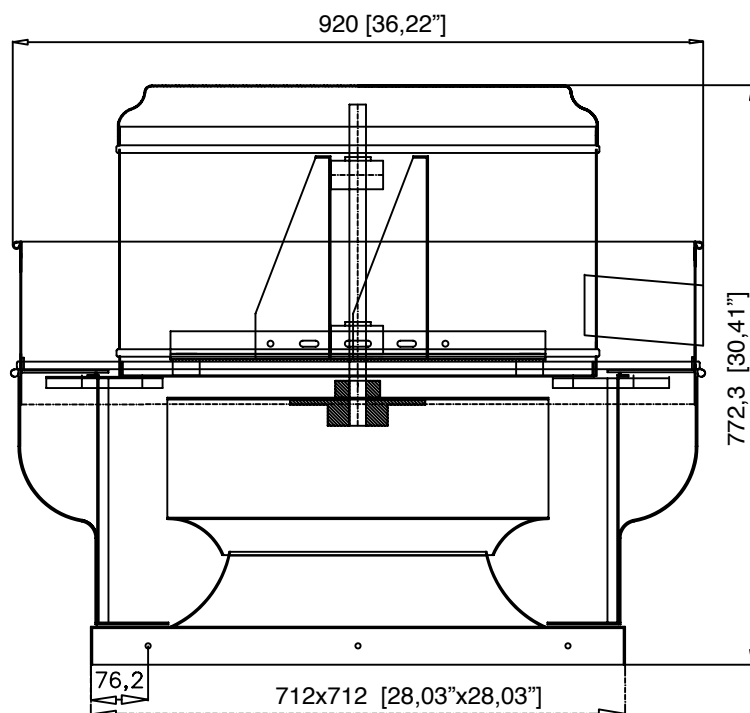


Designed In USA.

PERFORMANCE. DURABILITY. VALUE.



BD-X-B-1.5hp-20-AL / BD-X-B-2hp-20-AL



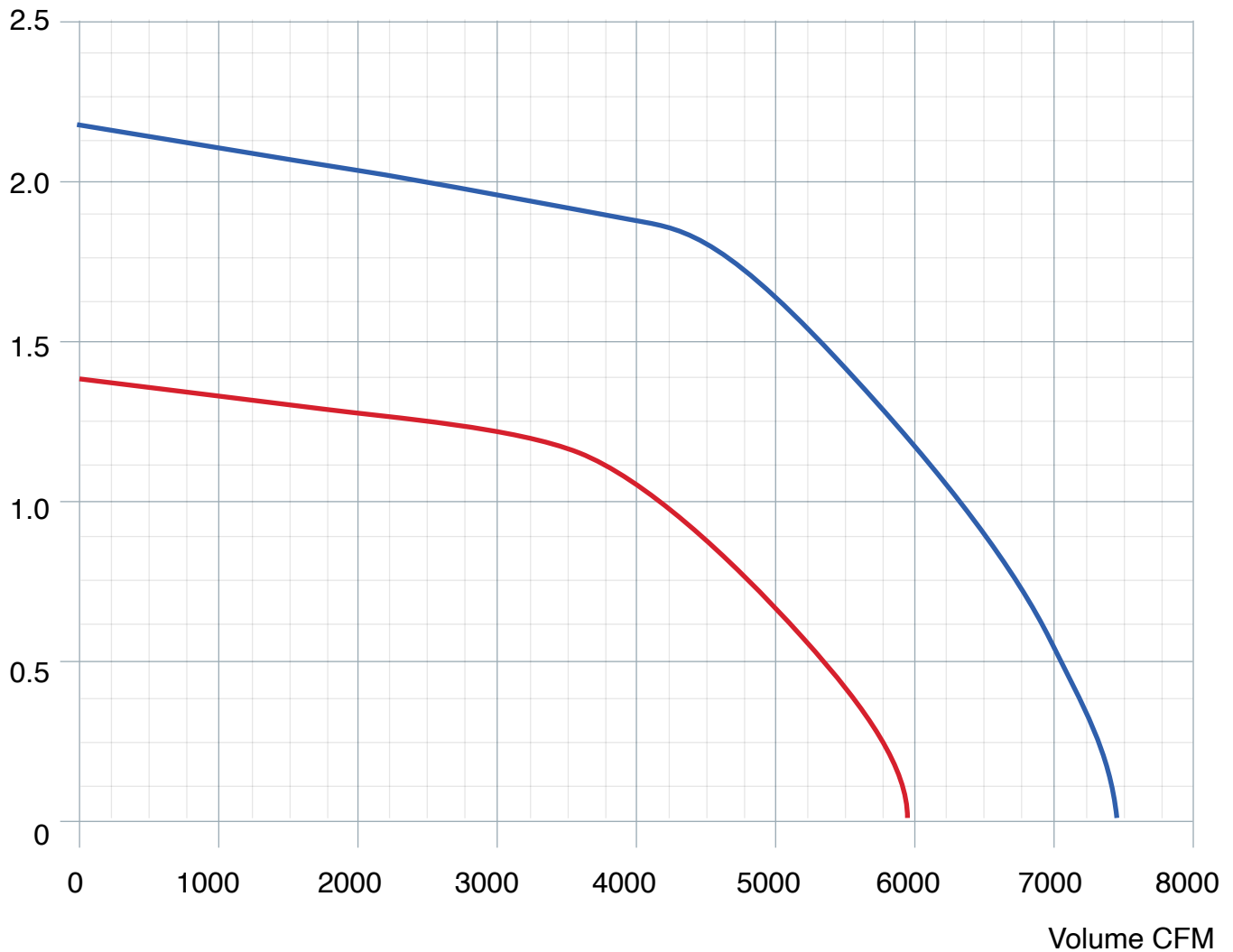
STANDARD FEATURES

- Exhaust fan specifically designed for roof or sidewall mounted applications where contaminated or grease laden exhaust air can be discharged directly upward, away from the roof or wall surface
- Heavy duty aluminum construction, durable and weather resistant
 - Coated with corrosion resistant epoxy resin
- Vibration Isolators support the drive frame and blower assembly for long life and minimal sound transmission into the building
- Belt Drive
- Base with prepunched mounting holes for easy attachment to roof curb
- Drain/Grease Trough - Allows for one-point drainage of water, grease and other residues
- Comes with Grease Collector and Hinge Kit

MODEL	POWER	AC MOTOR 1Ø	FAN SPEED	IMPELLER DIA
BD-X-B-1.5hp-20-AL	1.5HP	208V-230V/60Hz	1000RPM	20inch
	1.5HP	110V-120V/60Hz		
BD-X-B-2hp-20-AL	2.0HP	208V-230V/60Hz	1250RPM	

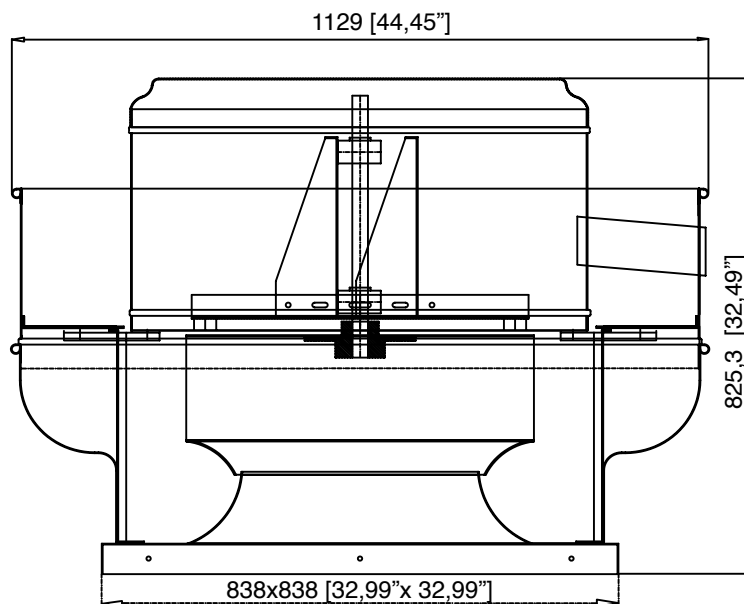
Static Pressure In. Wg

— BD-X-B-2hp-20-AL
— BD-X-B-1.5hp-20-AL





BD-X-B-2hp-22-AL



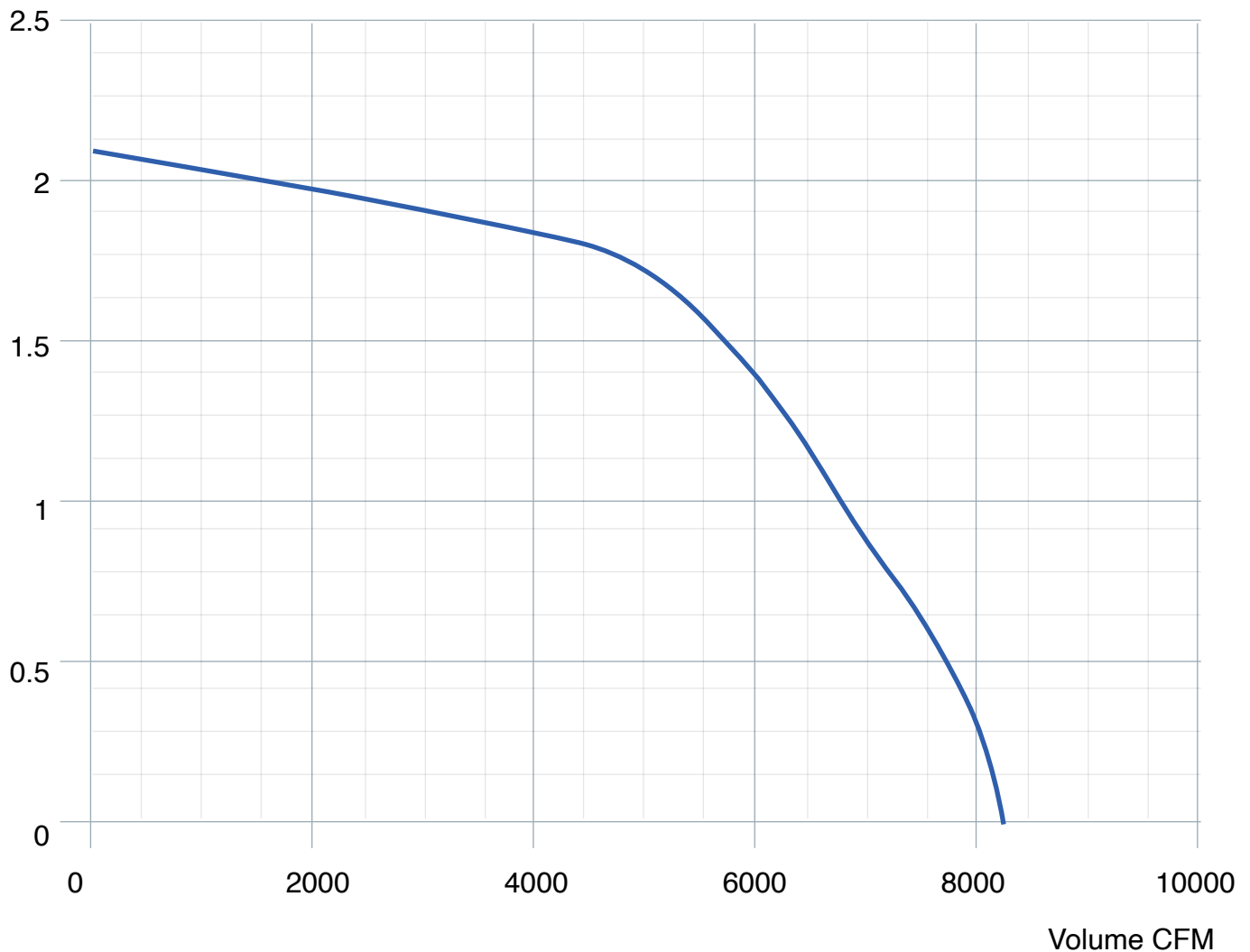
STANDARD FEATURES

- Exhaust fan specifically designed for roof or sidewall mounted applications where contaminated or grease laden exhaust air can be discharged directly upward, away from the roof or wall surface
- Heavy duty aluminum construction, durable and weather resistant
 - Coated with corrosion resistant epoxy resin
- Vibration Isolators support the drive frame and blower assembly for long life and minimal sound transmission into the building
- Belt Drive
- Base with prepunched mounting holes for easy attachment to roof curb
- Drain/Grease Trough - Allows for one-point drainage of water, grease and other residues
- Comes with Grease Collector and Hinge Kit

MODEL	POWER	AC MOTOR 1Ø	FAN SPEED	IMPELLER DIA
BD-X-B-2hp-22-AL	2.0HP	208V-230V/60Hz	1000RPM	22inch

Static Pressure In. Wg

BD-X-B-2hp-22-AL

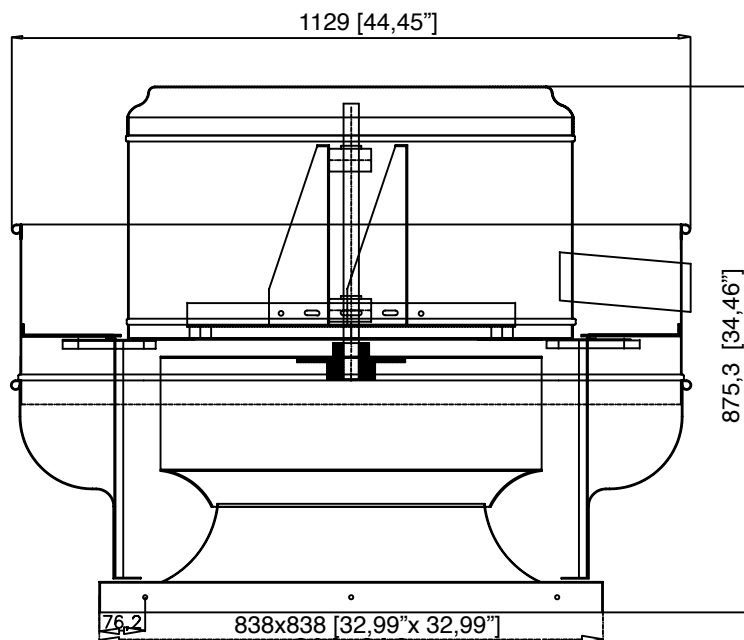
sales@heavydutysystems.com

Designed In USA.

PERFORMANCE. DURABILITY. VALUE.



BD-X-B-2hp-25-AL



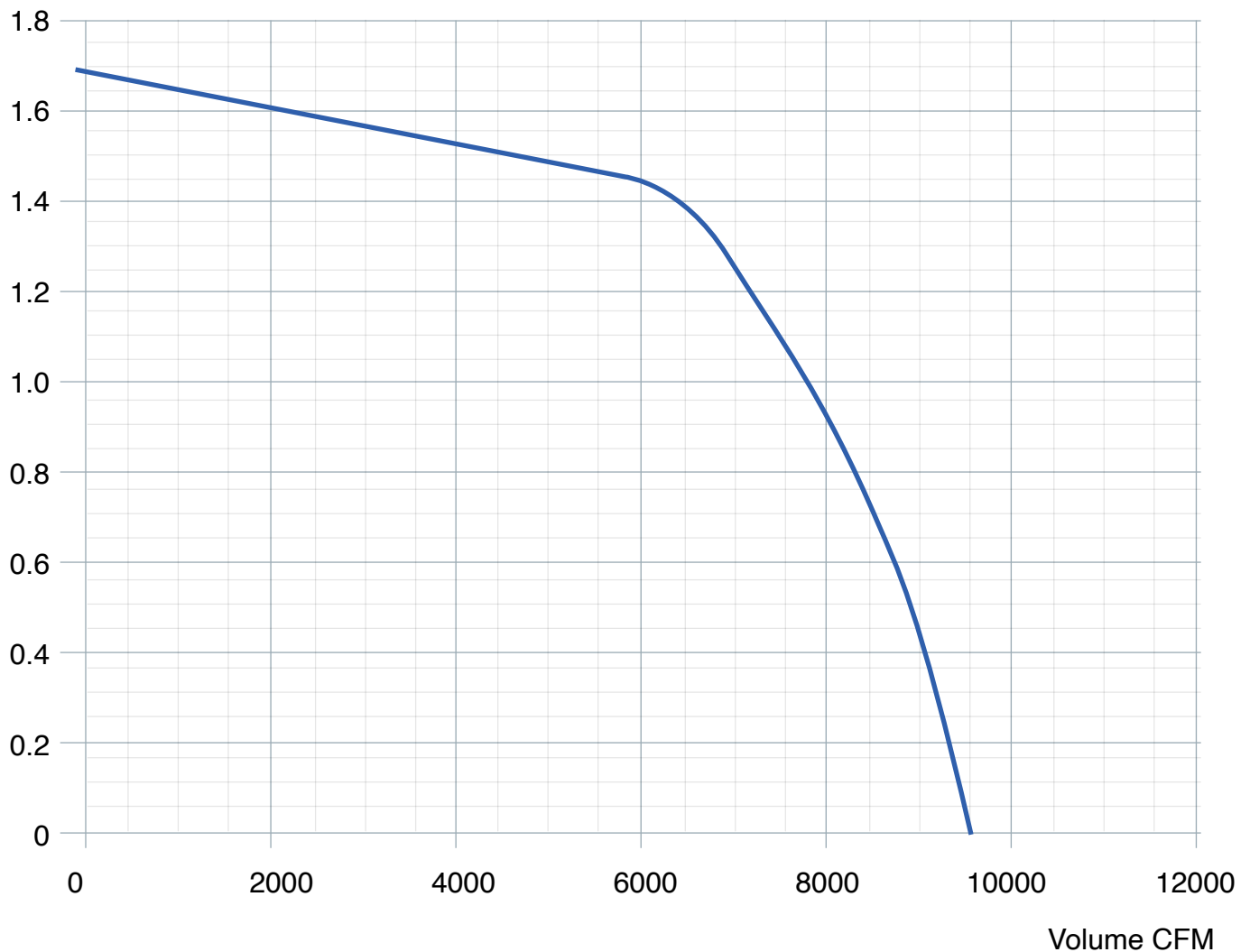
STANDARD FEATURES

- Exhaust fan specifically designed for roof or sidewall mounted applications where contaminated or grease laden exhaust air can be discharged directly upward, away from the roof or wall surface
- Heavy duty aluminum construction, durable and weather resistant
 - Coated with corrosion resistant epoxy resin
- Vibration Isolators support the drive frame and blower assembly for long life and minimal sound transmission into the building
- Belt Drive
- Base with prepunched mounting holes for easy attachment to roof curb
- Drain/Grease Trough - Allows for one-point drainage of water, grease and other residues
- Comes with Grease Collector and Hinge Kit

MODEL	POWER	AC MOTOR 1Ø	FAN SPEED	IMPELLER DIA
BD-X-B-2hp-25-AL	2.0HP	208V-230V/60Hz	900RPM	25inch

Static Pressure In. Wg

BD-X-B-2hp-25-AL

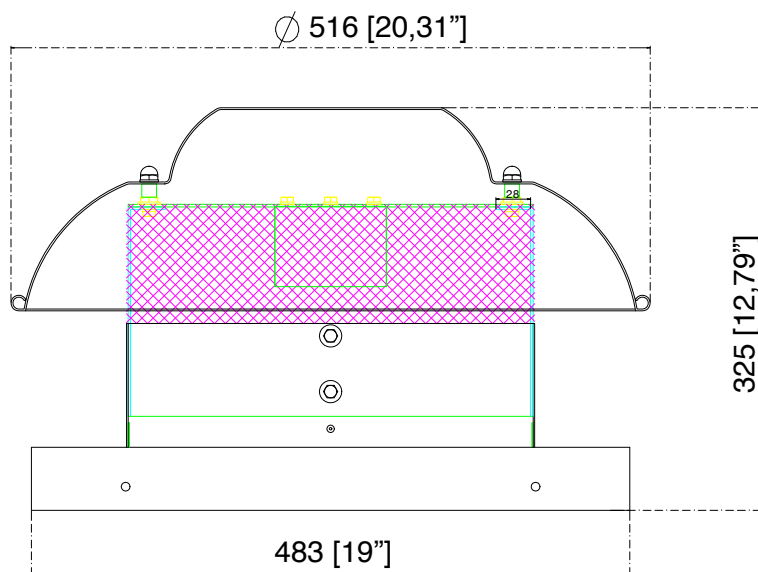
sales@heavydutysystems.com

Designed In USA.

PERFORMANCE. DURABILITY. VALUE.



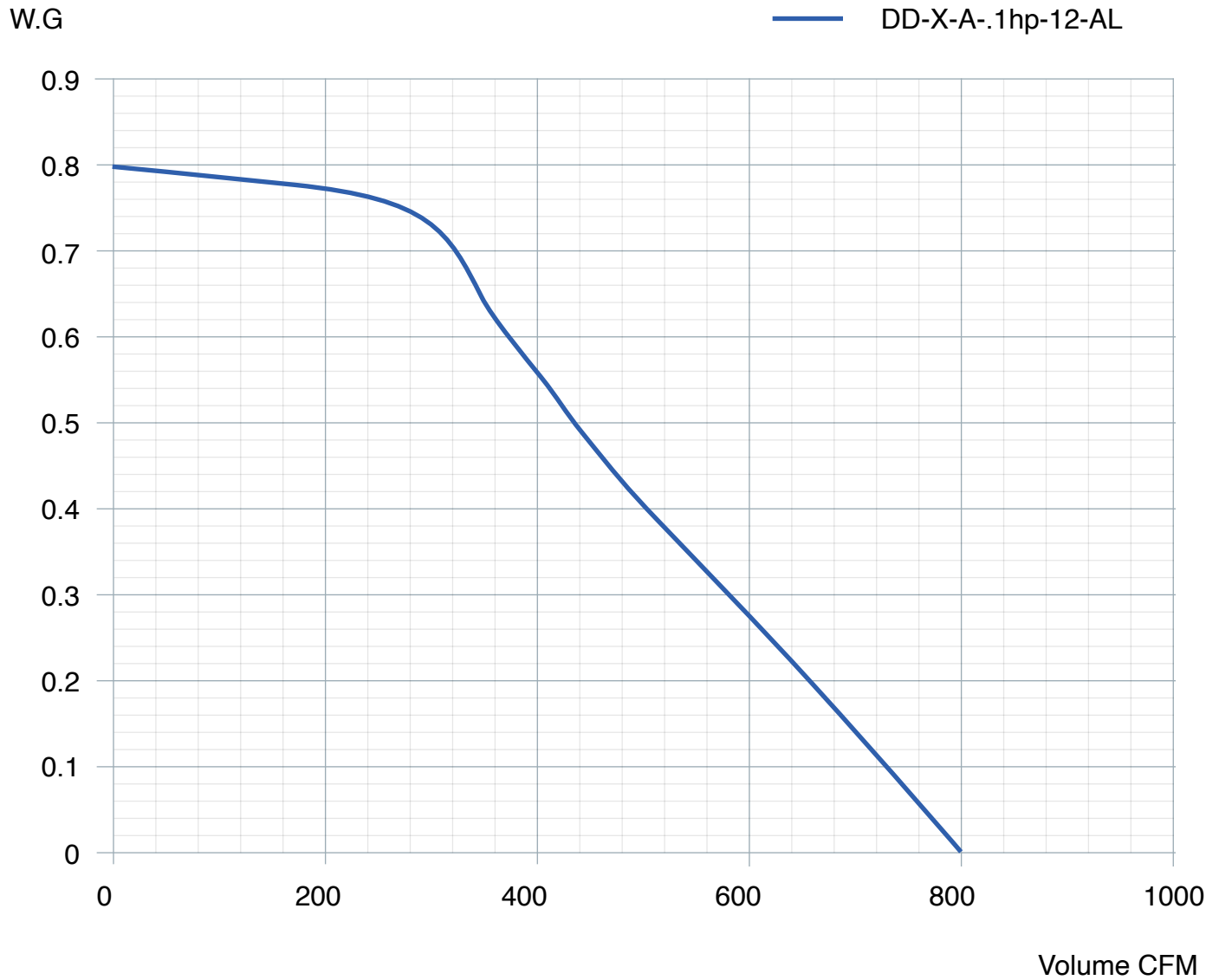
DD-X-A-.1hp-12-AL



STANDARD FEATURES

- Direct-Drive exhaust fan that can be used anywhere general air exhaust is required
- Commercial kitchens, office buildings, bakeries, laundries, factories, warehouses, foundries, locker rooms, etc.
- Aluminum housing coated with corrosion resistant epoxy resin for rust free weather resistant durability
- Vibration Isolators support the drive frame and blower assembly for long life and minimal sound transmission into the building

MODEL	VOLTAGE	POWER	ROTATION SPEED
DD-X-A-.1hp-12-AL	115v/60 or 230/60	1/10HP	1520RPM

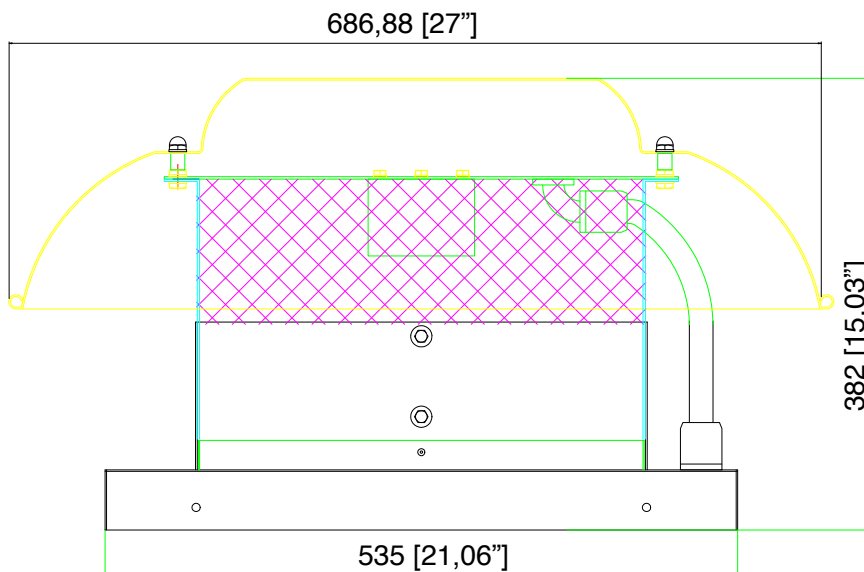




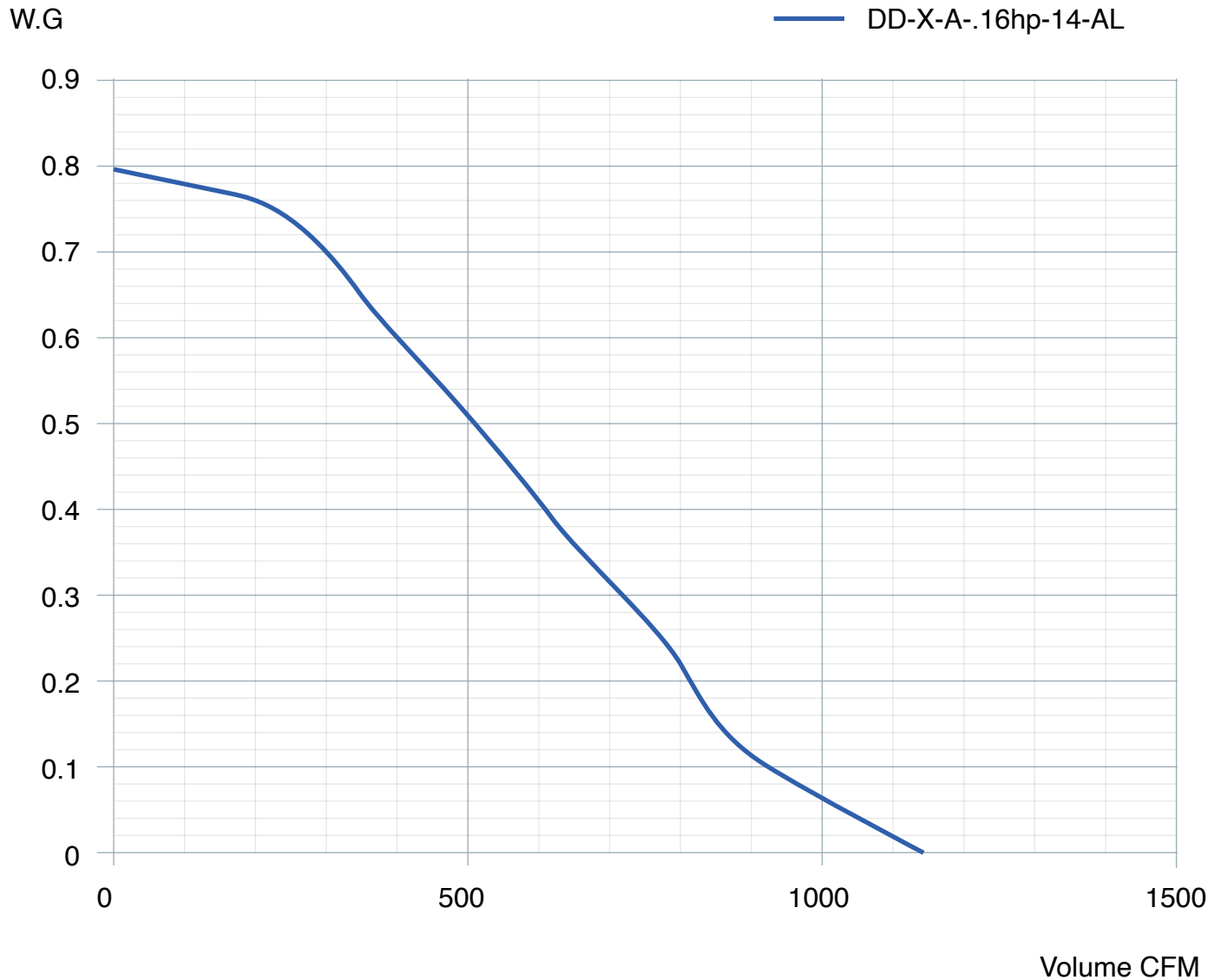
DD-X-A-.16hp-14-AL

STANDARD FEATURES

- Direct-Drive exhaust fan that can be used anywhere general air exhaust is required
- Commercial kitchens, office buildings, bakeries, laundries, factories, warehouses, foundries, locker rooms, etc.
- Aluminum housing coated with corrosion resistant epoxy resin for rust free weather resistant durability
- Vibration Isolators support the drive frame and blower assembly for long life and minimal sound transmission into the building



MODEL	VOLTAGE	POWER	ROTATION SPEED
DD-X-A-.16hp-14-AL	115v/60 or 230/60	1/6HP	1100RPM

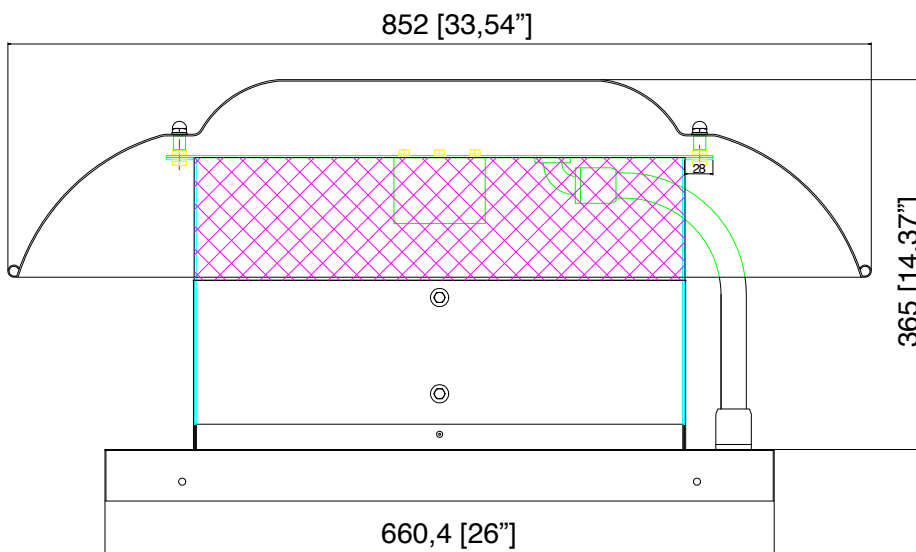




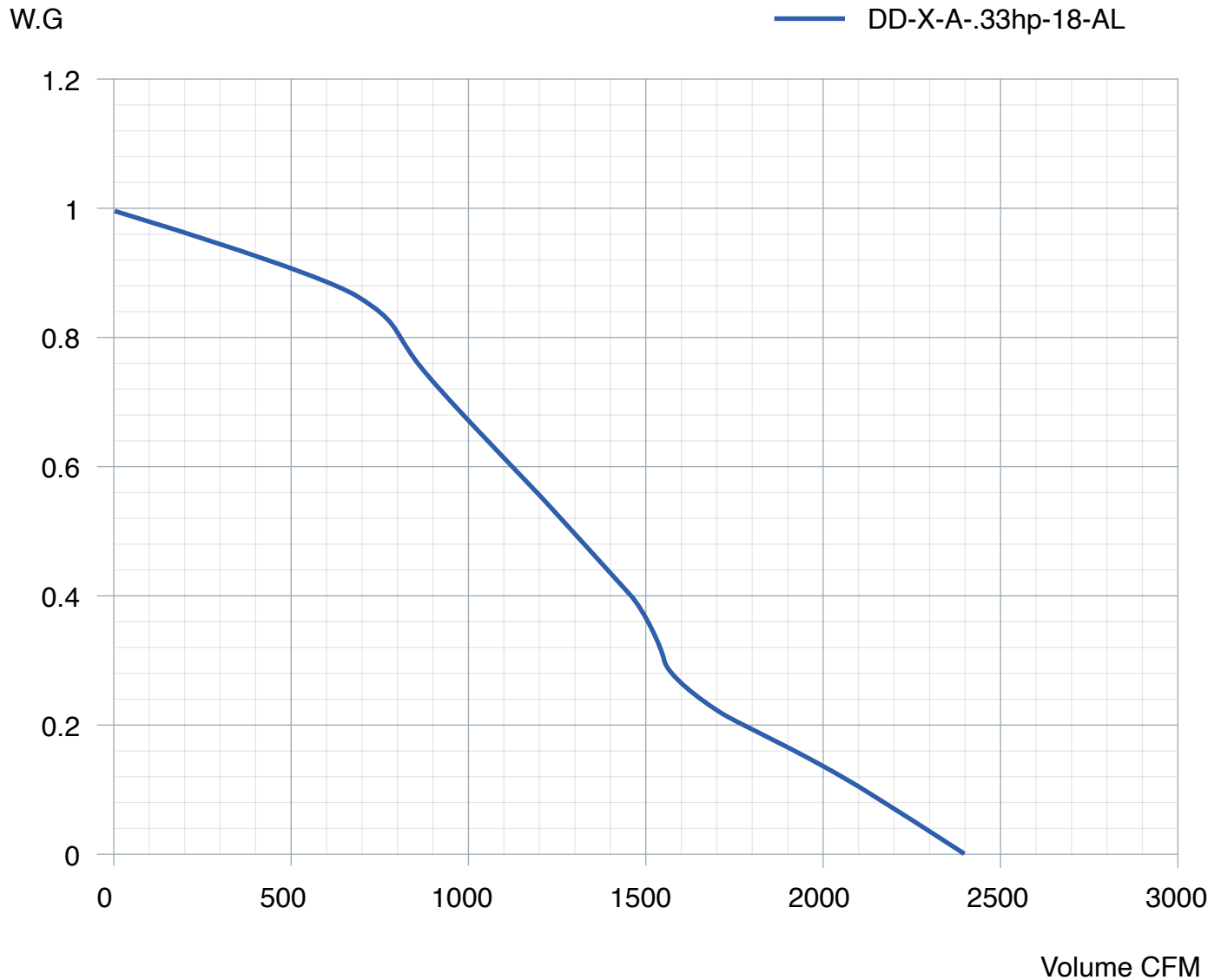
DD-X-A-.33hp-18-AL

STANDARD FEATURES

- Direct-Drive exhaust fan that can be used anywhere general air exhaust is required
- Commercial kitchens, office buildings, bakeries, laundries, factories, warehouses, foundries, locker rooms, etc.
- Aluminum housing coated with corrosion resistant epoxy resin for rust free weather resistant durability
- Vibration Isolators support the drive frame and blower assembly for long life and minimal sound transmission into the building



MODEL	VOLTAGE	POWER	ROTATION SPEED
DD-X-A-.33hp-18-AL	115v/60 or 230/60	1/3HP	1100RPM

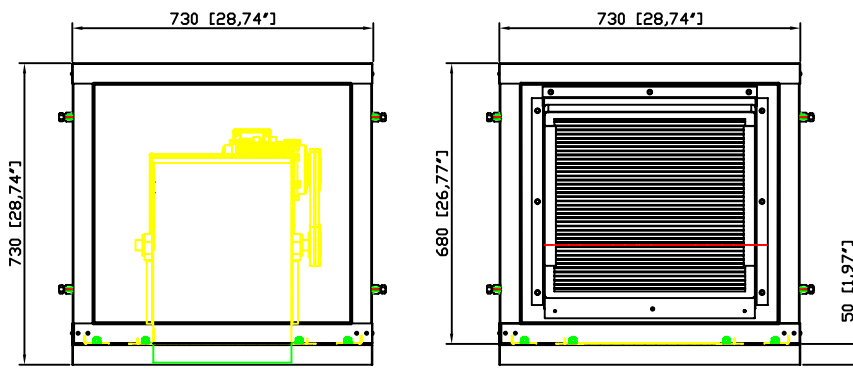
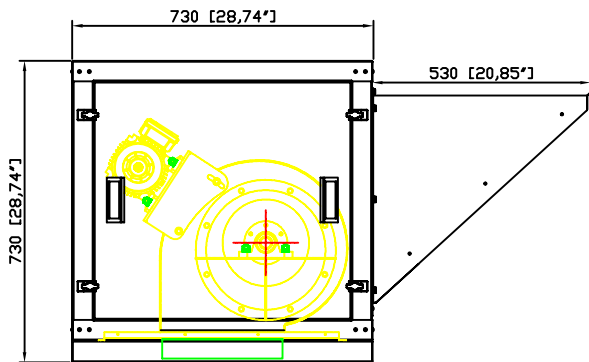
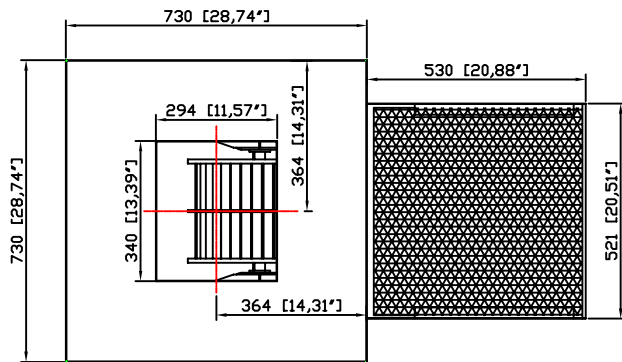




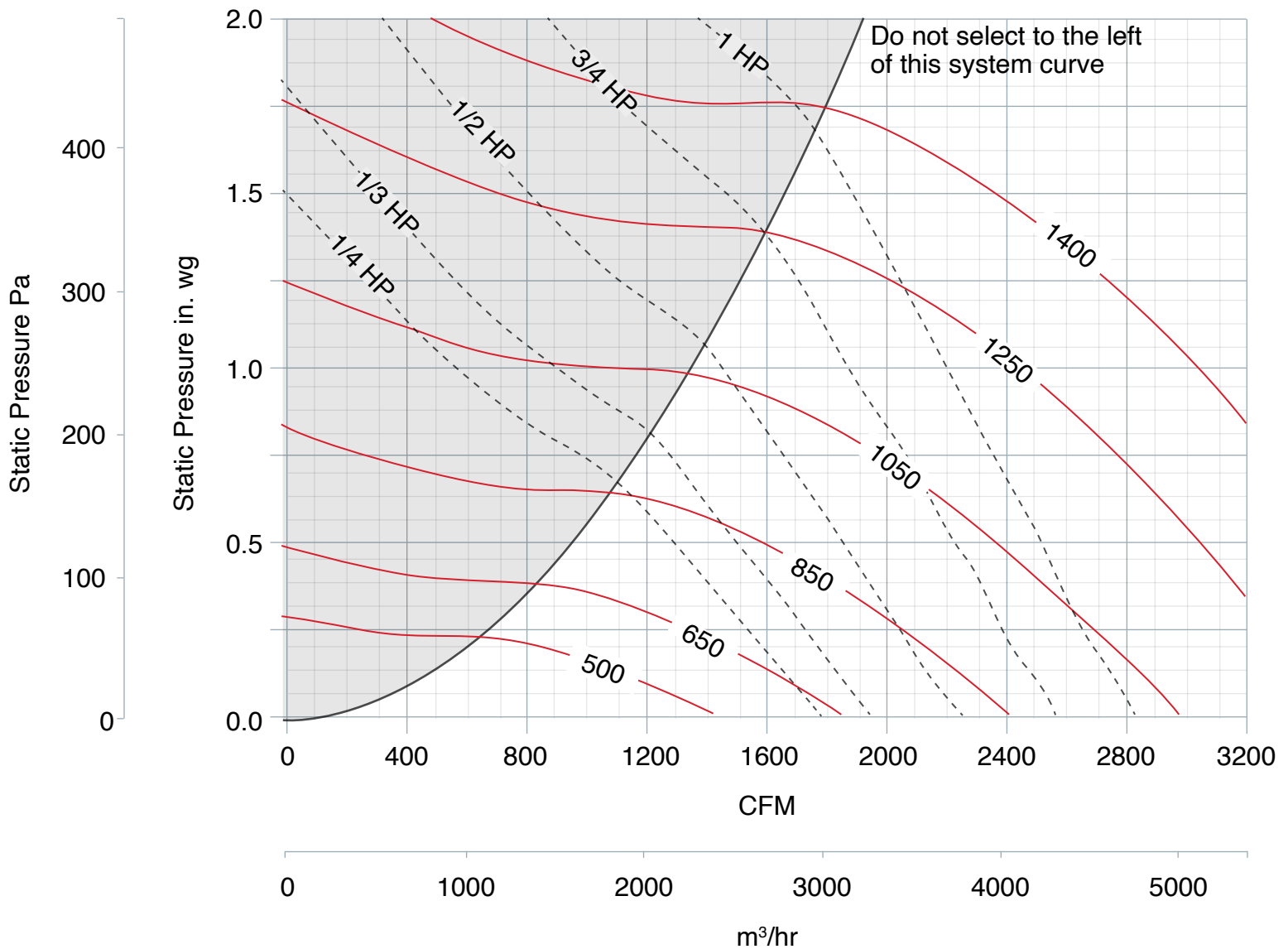
BD-MUA-.75hp-10-Q / BD-MUA-1hp-10-Q

STANDARD FEATURES

- Filtered belt-drive air supply fan designed to provide non-tempered make-up air to commercial or industrial buildings, including commercial kitchen applications
- Heavy duty galvanized steel construction, durable and weather resistant
- Coated with corrosion resistant epoxy resin
- Permanent, washable aluminum filters
- Filter racks are designed to allow filters to slide out easily
- Base with prepunched mounting holes for easy attachment to roof curb
- Vibration Isolators support the drive frame and blower assembly for long life and minimal sound transmission into the building



MODEL	POWER	AC MOTOR 1Ø	FAN SPEED	IMPELLER DIA
BD-MUA-.75hp-10-Q	0.75HP	208V-230V/60Hz	950RPM	10inch
	0.75HP	110V-120V/60Hz		
BD-MUA-1hp-10-Q	1.0HP	208V-230V/60Hz	1050RPM	
	1.0HP	110V-120V/60Hz		



sales@heavydutysystems.com



Designed In USA.

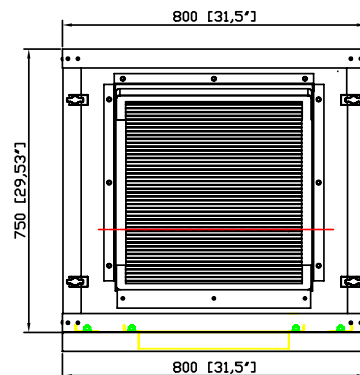
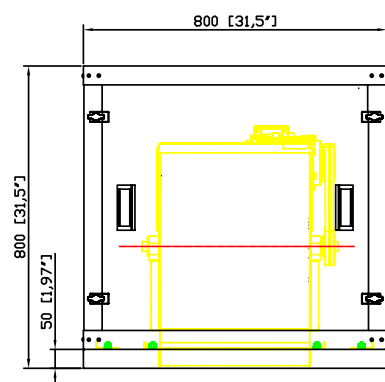
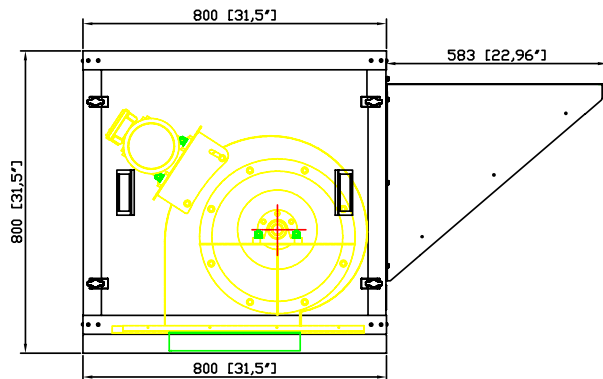
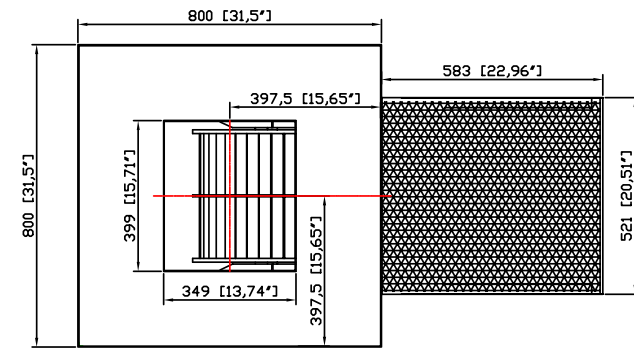
PERFORMANCE. DURABILITY. VALUE.



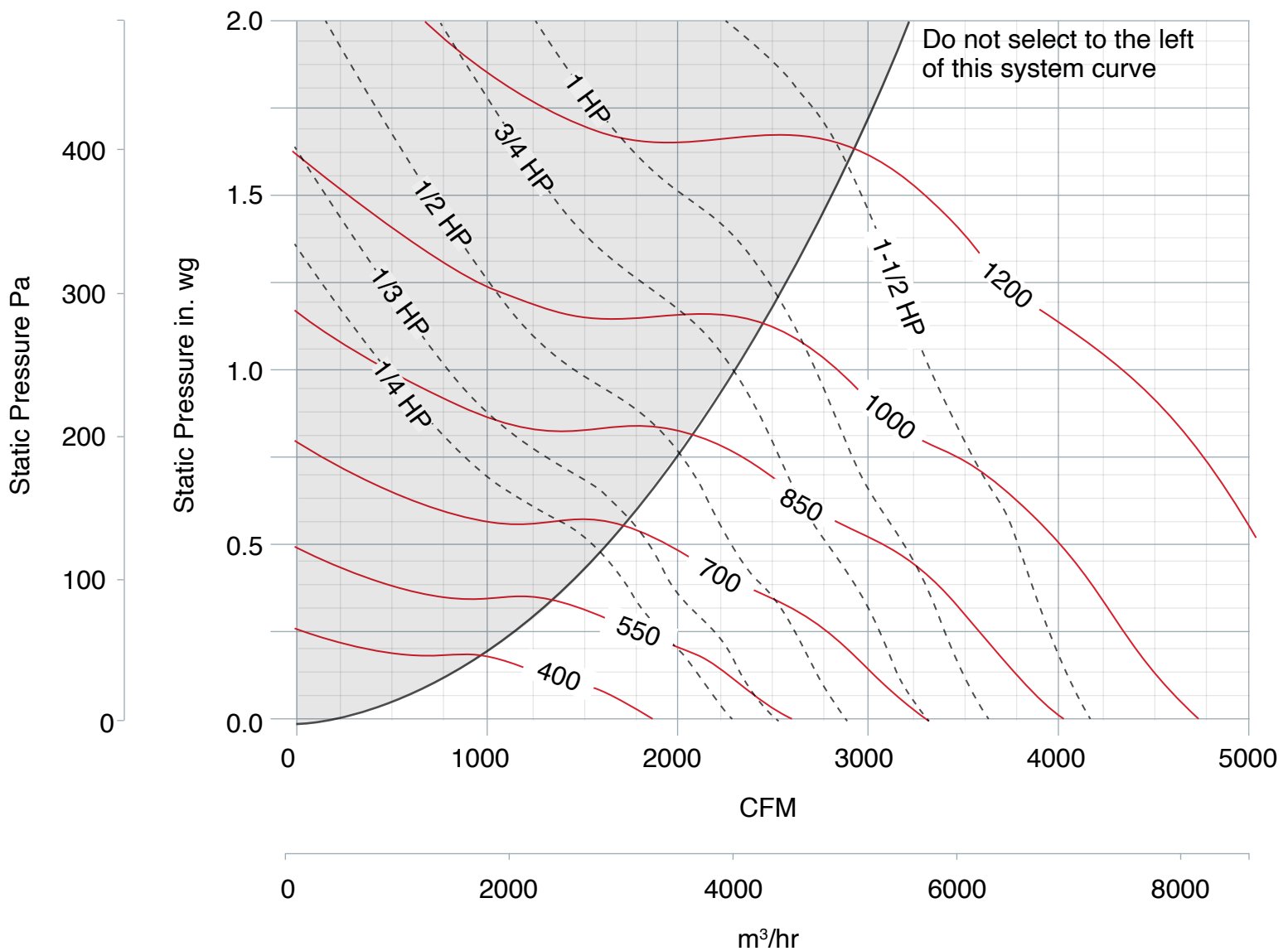
BD-MUA-1hp-12-Q / BD-MUA-1.5hp-12-Q

STANDARD FEATURES

- Filtered belt-drive air supply fan designed to provide non-tempered make-up air to commercial or industrial buildings, including commercial kitchen applications
- Heavy duty galvanized steel construction, durable and weather resistant
- Coated with corrosion resistant epoxy resin
- Permanent, washable aluminum filters
- Filter racks are designed to allow filters to slide out easily
- Base with prepunched mounting holes for easy attachment to roof curb
- Vibration Isolators support the drive frame and blower assembly for long life and minimal sound transmission into the building



MODEL	POWER	AC MOTOR 1Ø	FAN SPEED	IMPELLER DIA
BD-MUA-1hp-12-Q	1HP	208V-230V/60Hz	820RPM	12inch
	1HP	110V-120V/60Hz		
BD-MUA-1.5hp-12-Q	1.5HP	208V-230V/60Hz	950RPM	
	1.5HP	110V-120V/60Hz		



sales@heavydutysystems.com



Designed In USA.

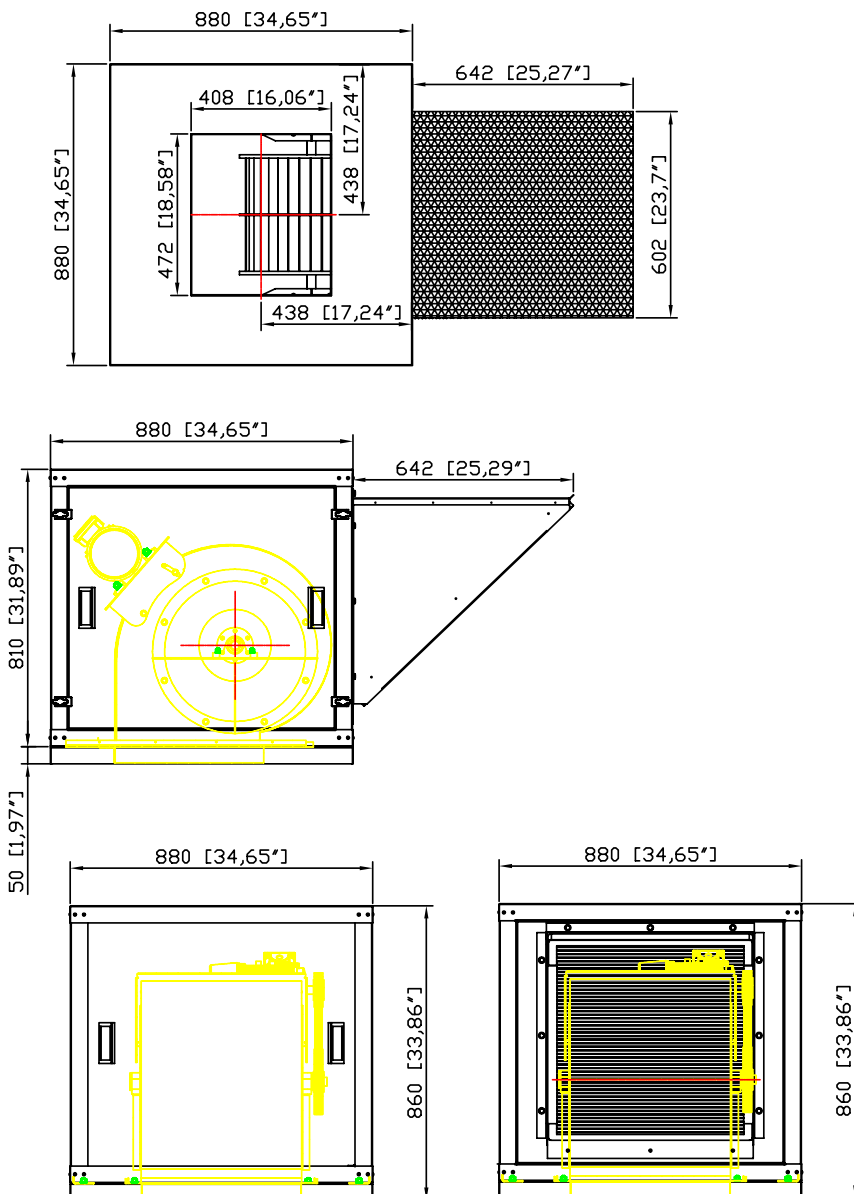
PERFORMANCE. DURABILITY. VALUE.



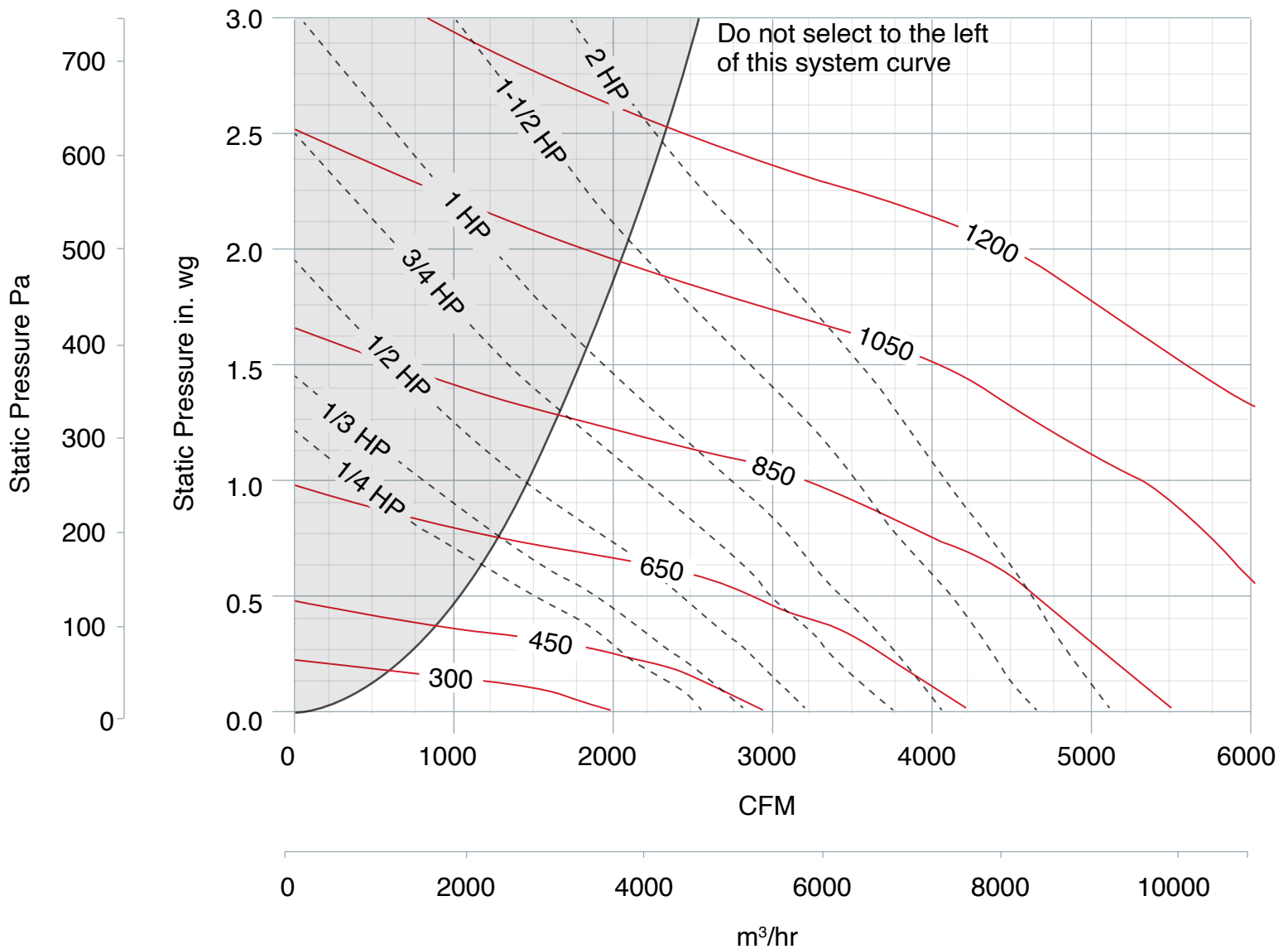
BD-MUA-1.5hp-15-Q / BD-MUA-2hp-15-Q

STANDARD FEATURES

- Filtered belt-drive air supply fan designed to provide non-tempered make-up air to commercial or industrial buildings, including commercial kitchen applications
- Heavy duty galvanized steel construction, durable and weather resistant
- Coated with corrosion resistant epoxy resin
- Permanent, washable aluminum filters
- Filter racks are designed to allow filters to slide out easily
- Base with prepunched mounting holes for easy attachment to roof curb
- Vibration Isolators support the drive frame and blower assembly for long life and minimal sound transmission into the building



MODEL	POWER	AC MOTOR 1Ø	FAN SPEED	IMPELLER DIA
BD-MUA-1.5hp-15-Q	1.5HP	208V-230V/60Hz	750RPM	15inch
	1.5HP	110V-120V/60Hz		
BD-MUA-2hp-15-Q	2HP	208V-230V/60Hz	920RPM	



sales@heavydutysystems.com



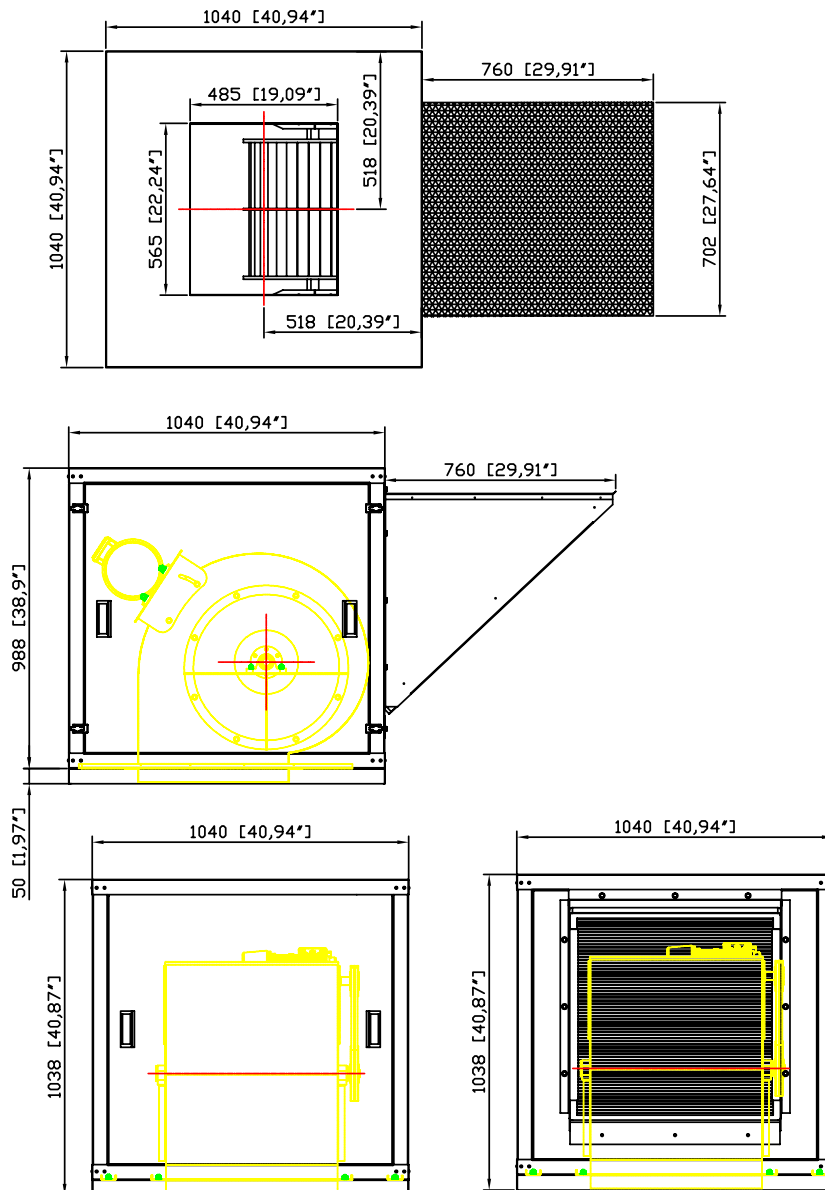
Designed In USA.

PERFORMANCE. DURABILITY. VALUE.

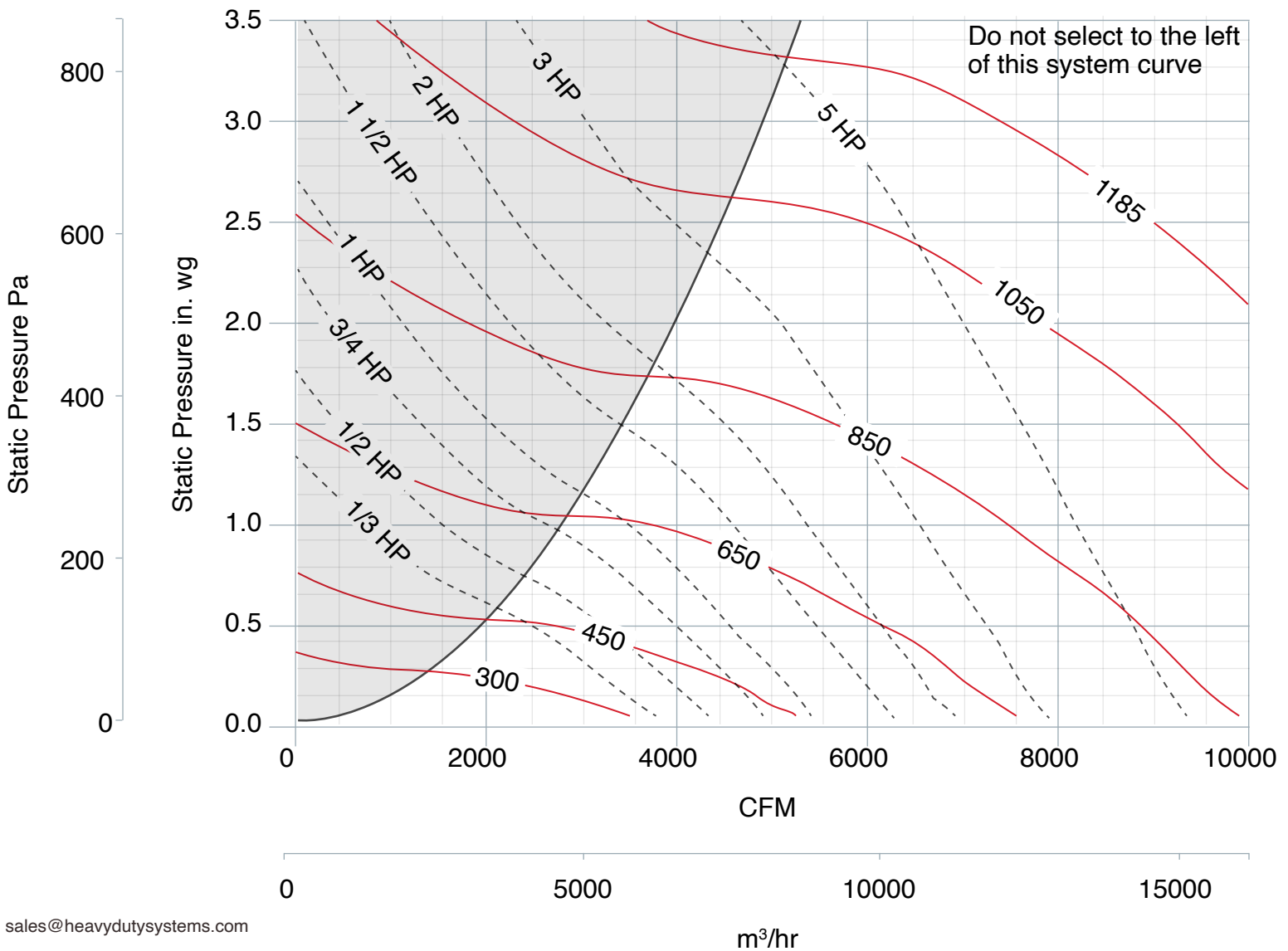

BD-MUA-1.5hp-18-Q / BD-MUA-2hp-18-Q / BD-MUA-3hp-18-Q

STANDARD FEATURES

- Filtered belt-drive air supply fan designed to provide non-tempered make-up air to commercial or industrial buildings, including commercial kitchen applications
- Heavy duty galvanized steel construction, durable and weather resistant
- Coated with corrosion resistant epoxy resin
- Permanent, washable aluminum filters
- Filter racks are designed to allow filters to slide out easily
- Base with prepunched mounting holes for easy attachment to roof curb
- Vibration Isolators support the drive frame and blower assembly for long life and minimal sound transmission into the building

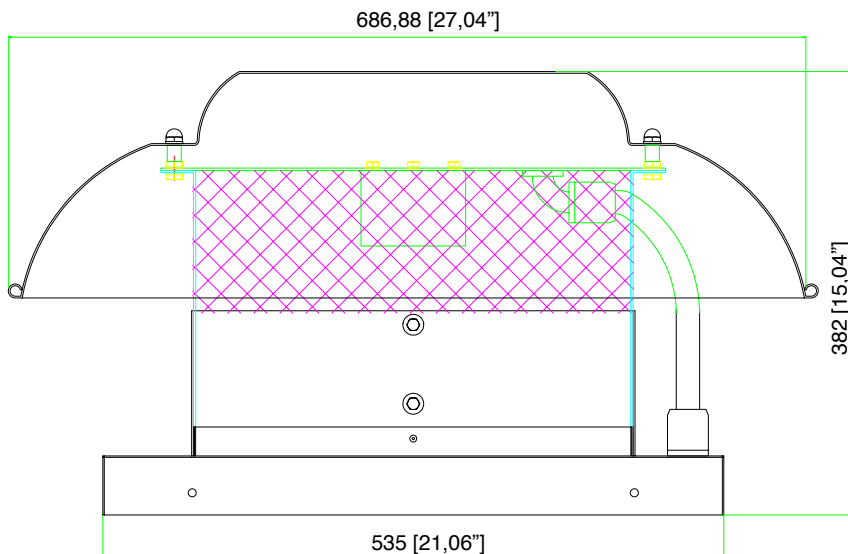


MODEL	POWER	AC MOTOR 1Ø	FAN SPEED	IMPELLER DIA
BD-MUA-1.5hp-18-Q	1.5HP	208V-230V/60Hz	610RPM	18inch
	1.5HP	110V-120V/60Hz		
BD-MUA-2hp-18-Q	2HP	208V-230V/60Hz	710RPM	
BD-MUA-3hp-18-Q	3HP	208V-230V/60Hz	810RPM	





DD-MUA-A-.16hp-14-AL



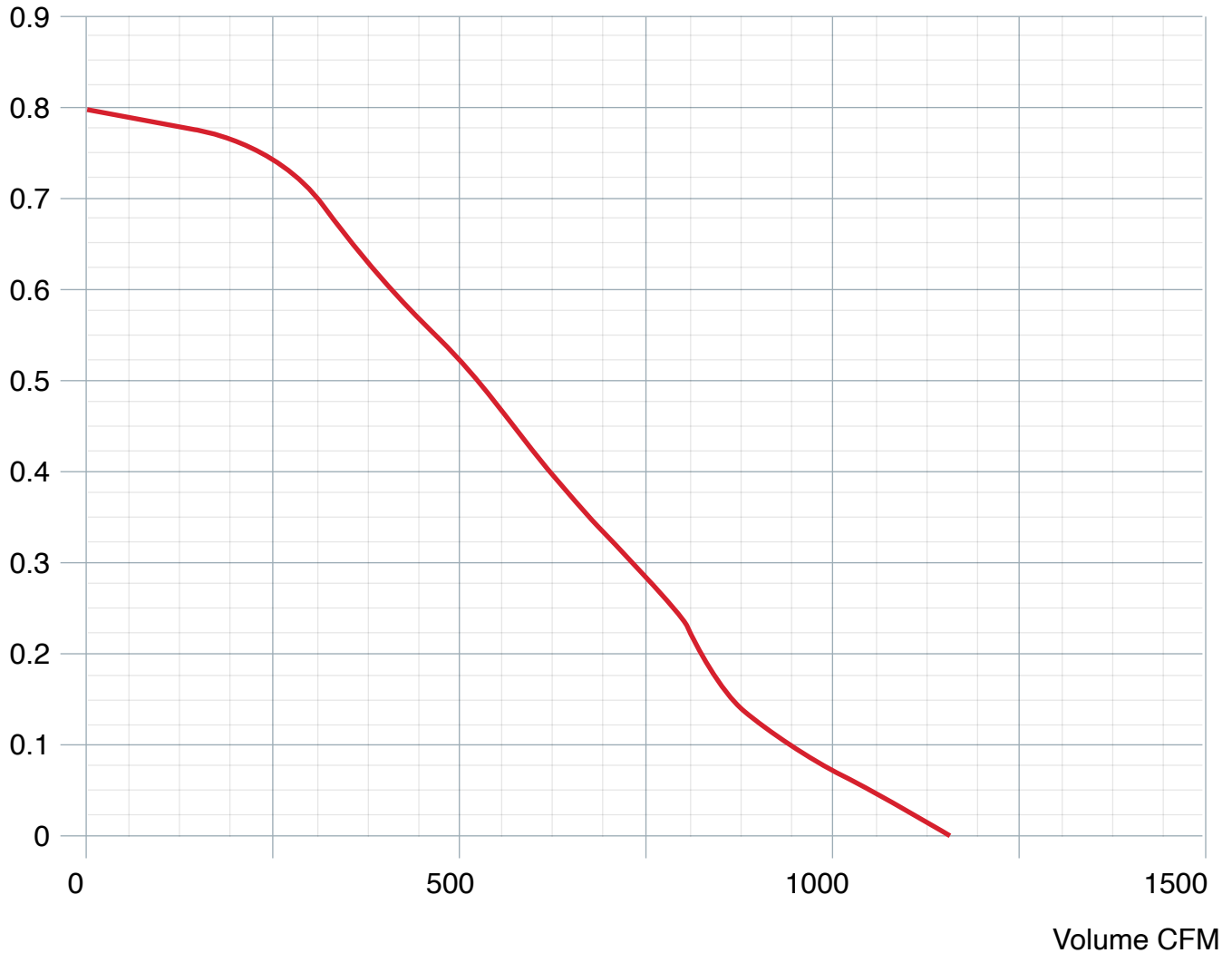
STANDARD FEATURES

- Direct-Drive make-up air supply that can be used anywhere fresh air is needed to replace exhaust air
 - Commercial kitchens, office buildings, bakeries, laundries, factories, warehouses, foundries, locker rooms, etc.
- Aluminum housing coated with corrosion resistant epoxy resin for rust free weather resistant durability
- Vibration Isolators support the drive frame and blower assembly for long life and minimal sound transmission into the building

MODEL	VOLTAGE	POWER	ROTATION SPEED
DD-MUA-A-.16hp-14-AL	110-220v/60	1/6HP	1100rpm

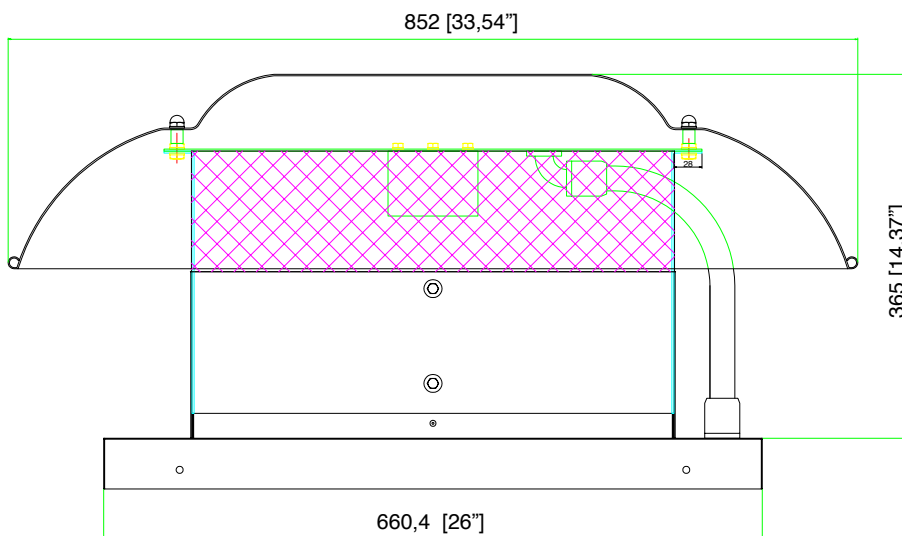
Static Pressure In. Wg

— DD-MUA-A-.16hp-14-AL





DD-MUA-A-.33hp-18-AL



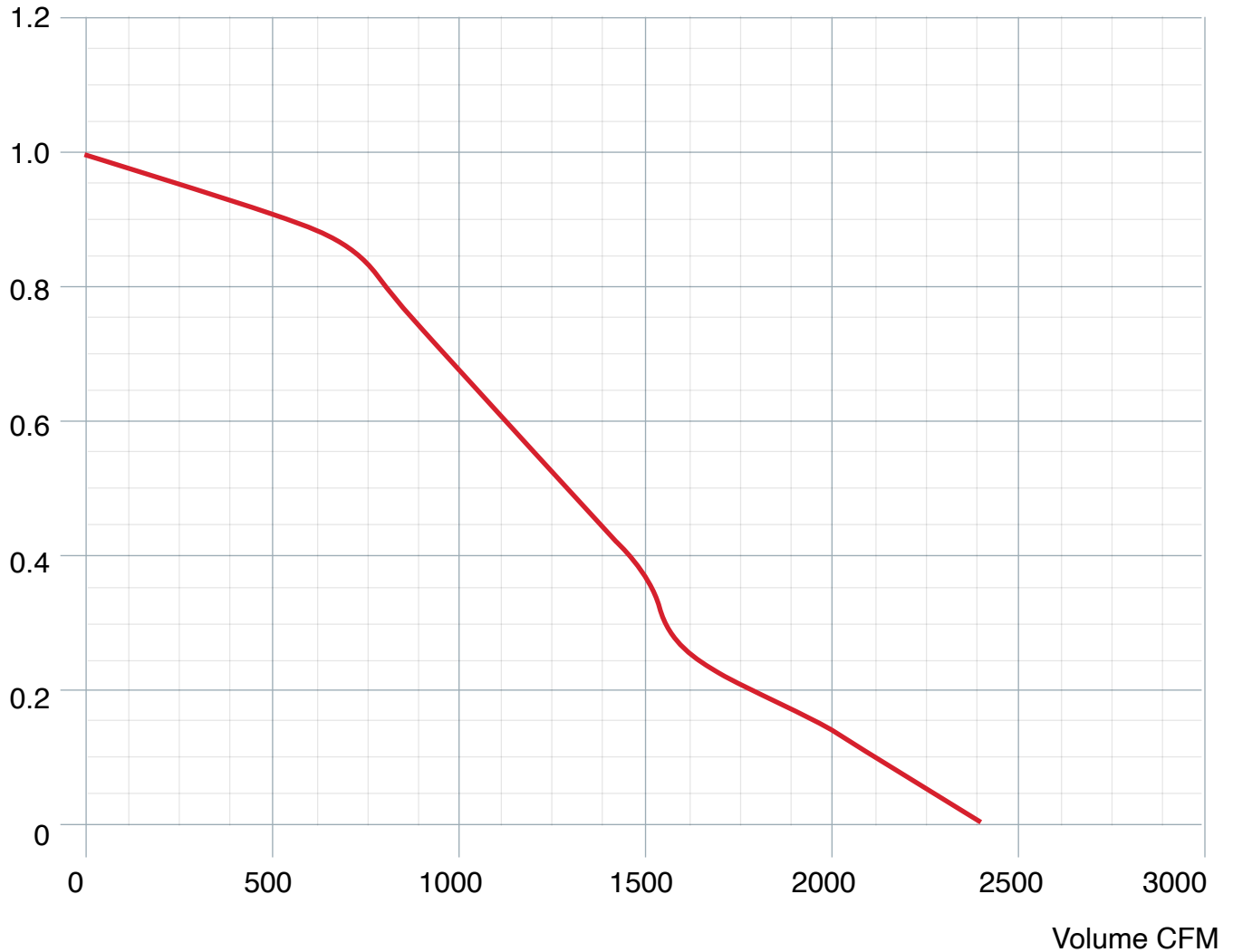
STANDARD FEATURES

- Direct-Drive make-up air supply that can be used anywhere fresh air is needed to replace exhaust air
 - Commercial kitchens, office buildings, bakeries, laundries, factories, warehouses, foundries, locker rooms, etc.
- Aluminum housing coated with corrosion resistant epoxy resin for rust free weather resistant durability
- Vibration Isolators support the drive frame and blower assembly for long life and minimal sound transmission into the building

MODEL	VOLTAGE	POWER	ROTATION SPEED
DD-MUA-A-.33hp-18-AL	110-220v/60	1/3HP	1100rpm

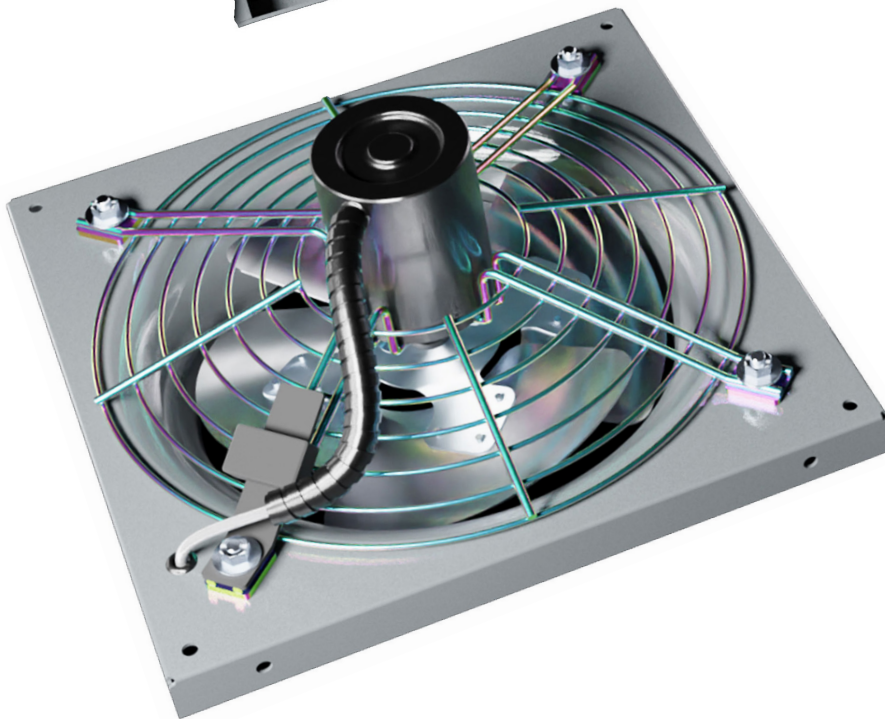
Static Pressure In. Wg

— DD-MUA-A-.33hp-18-AL

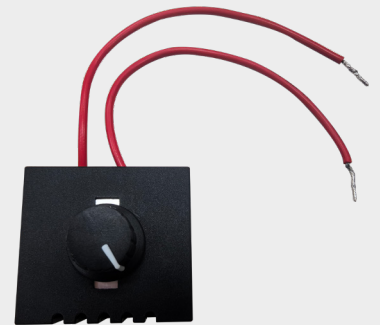
sales@heavydutysystems.com

Designed In USA.

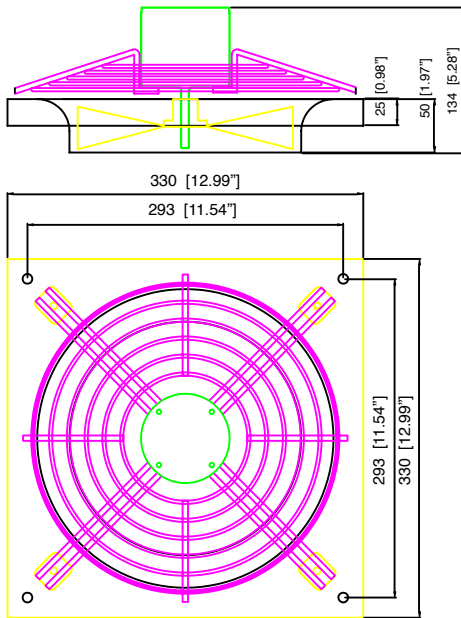
PERFORMANCE. DURABILITY. VALUE.

**SWF-08 / SWF-10 / SWF-12****STANDARD FEATURES**

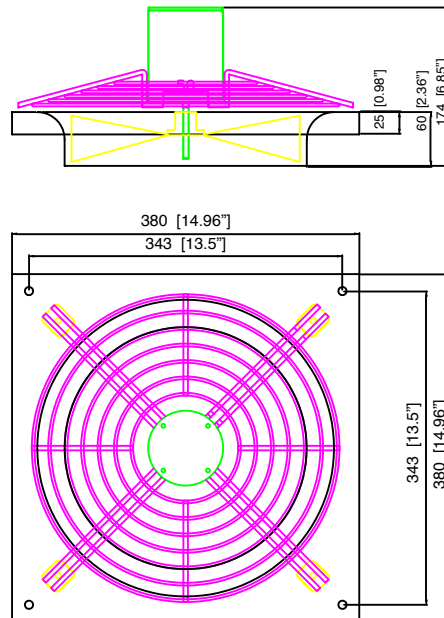
- Direct-drive sidewall propeller fan provides general exhaust or air supply in commercial and industrial applications
- Heavy duty galvanized steel construction coated with corrosion resistant epoxy resin
- Units feature corrosion resistant aluminum propellers
- Optional variable speed control available (in 110-120/60/1 setup only)



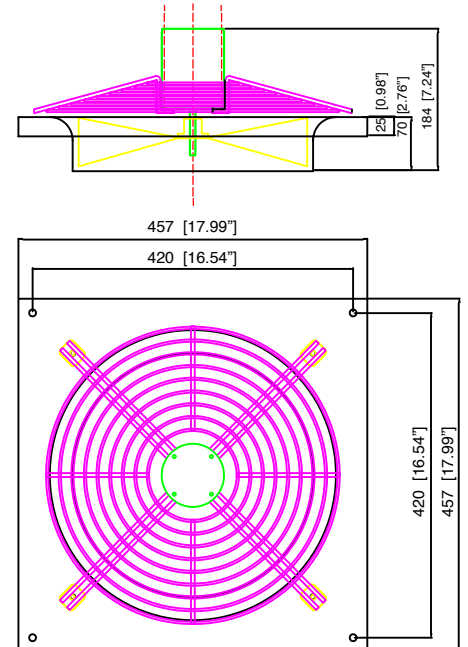
Optional Variable Speed Controller



SWF-08



SWF-10



SWF-12

MODEL	VOLTAGE	POWER	FAN RPM	IMPELLER DIA
SWF-.03hp-08	110-120v/60hz/1-ph	1/30HP	1740	8inch
SWF-.04hp-10	110-120v/60hz/1-ph	1/25HP	1720	10inch
SWF-.04hp-12	110-120v/60hz/1-ph	1/25HP	1730	12inch
SWF-.05hp-08	220-240v/60hz/1-ph	1/20HP	1520	8inch
SWF-.1hp-10	220-240v/60hz/1-ph	1/10HP	1730	10inch
SWF-.1hp-12	220-240v/60hz/1-ph	1/10HP	1660	12inch

sales@heavydutysystems.com



Designed In USA.

PERFORMANCE. DURABILITY. VALUE.



PERFORMANCE. DURABILITY. VALUE.

sales@heavydutysystems.com

www.heavydutysystems.com