

SDZ Makeup Air Unit Roof Supply Fan



SDZ Cabinet Blower are designed to provide efficient and reliable operation for commercial and extractive industry. Our products are manufactured with state of the art laser, forming, spinning and welding equipment and ensure our quality control testing to ensure trouble free start-up. Our SDZ Cabinet Blower are including industry leading design features to ensure your ventilation equipment has the latest technologies available

EVERY RCU HAS BEEN TEST FOR THREE DIFFERENT PLANES BEFORE PACKAGE.

Typical application includes:



kitchen air

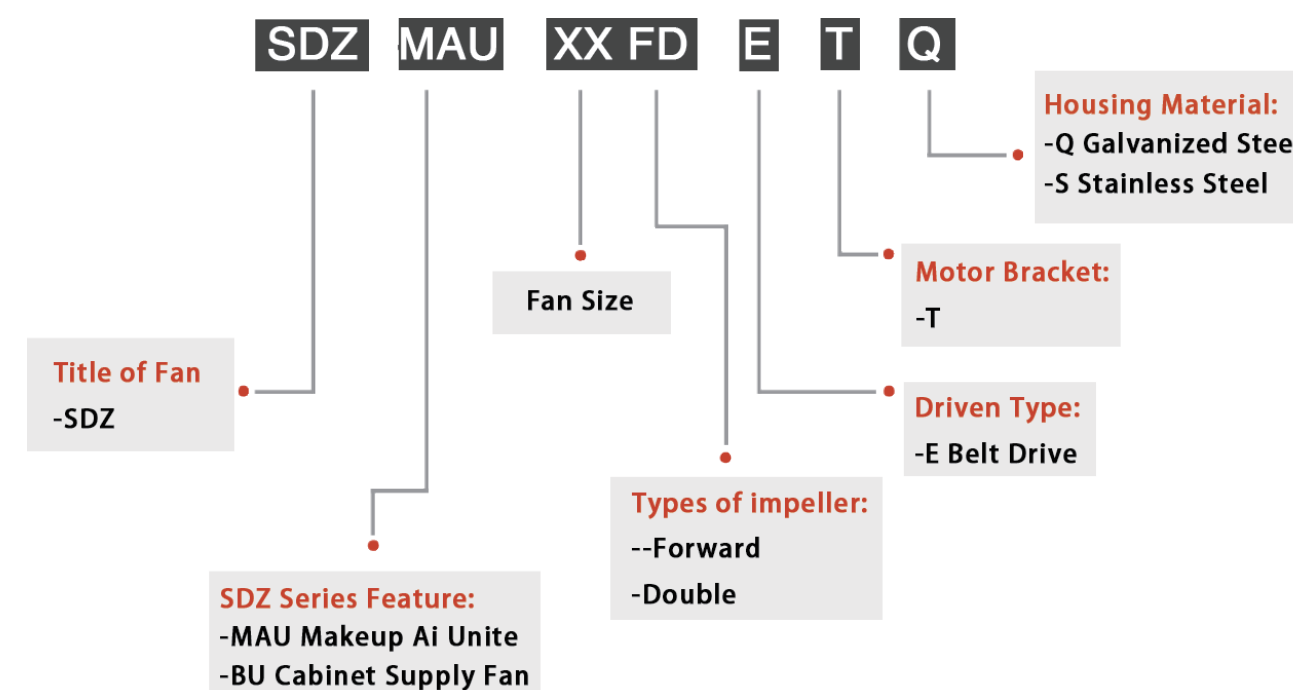


Low noise Industry

Main feature with SDZ Cabinet Blower

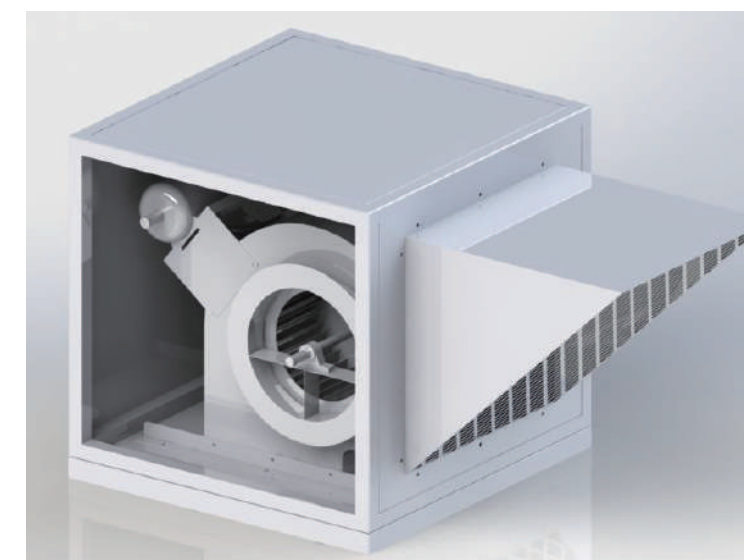
- Full mold, full welded structure, galvanized sheet or stainless steel housing
- Technology axial impeller with higher efficiency and lower noise
- Compact design, easy to install
- It is designed for direct connection in line with standard diameter circular ducting
- Chinese Energy Saving label
- ISO9001:2000 controllable standard

SDZ Supply Fan Model Number Code

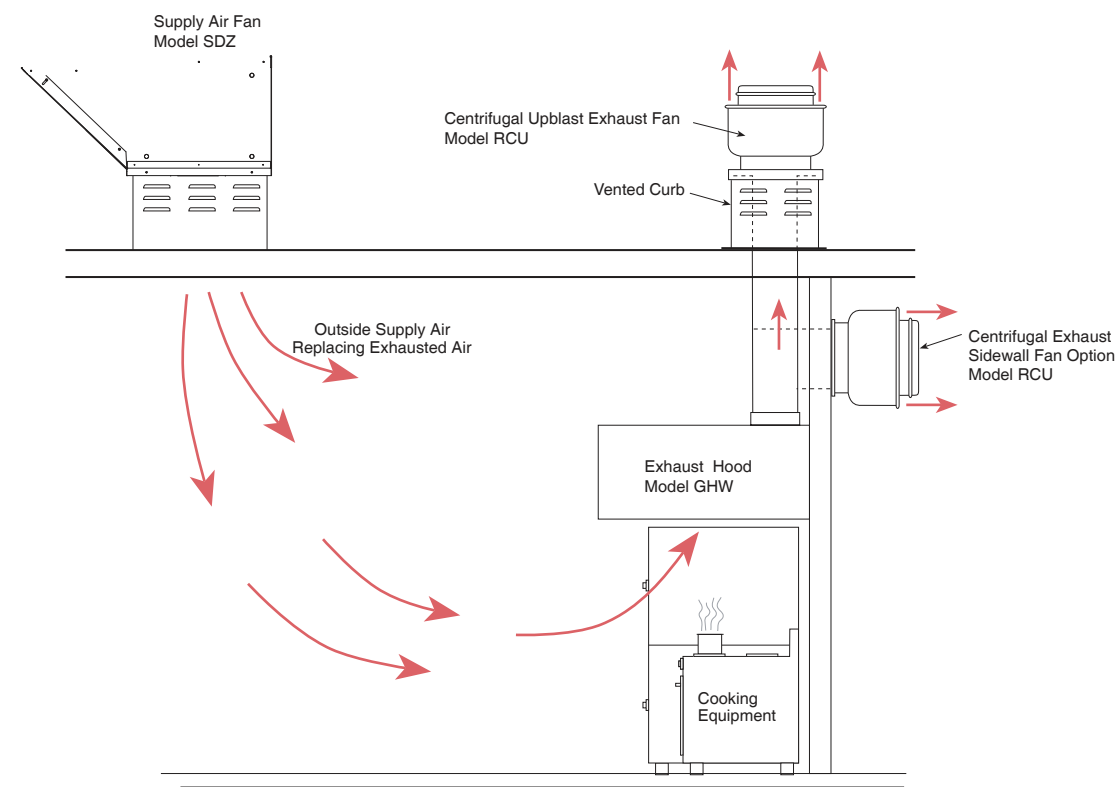


SDZ-MUA-XXFD Structure

SDZ-MUA Series : The product is made in carbon steel with double-inlet wheel, which is cutting by laser to ensure high-precision mold line. Driven cavity cover adopts galvanized material, which can open with hands, and convenient to daily cleaning maintenance. Different ways of motor with different transmission need to select different motor bracket. The impeller adopts laser cutting technology and die stretch forming. A different work environment needs to adopt different impeller material. Carbon steel, stainless steel and aluminum alloy impeller are optional. Impeller balance test grades are in strict accordance with the G4.0 ISO1940, and meet its requirements.



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 ,the Following Guidelines May Be Used to Determine The Minimum Kitchen Hood Exhaust Cfm. Some Require 100 CFM/ft² Of Hood Area For Wall Style Hoods.

Supply

Recommended Supply Airflow Is 80% Of Exhaust Cfm. The Remaining 20% 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 Minimum Distance Criteria For Restaurant Exhaust And Supply Fans:

Option A

1. Roof Deck To Top Of Exhaust Fan Windband:

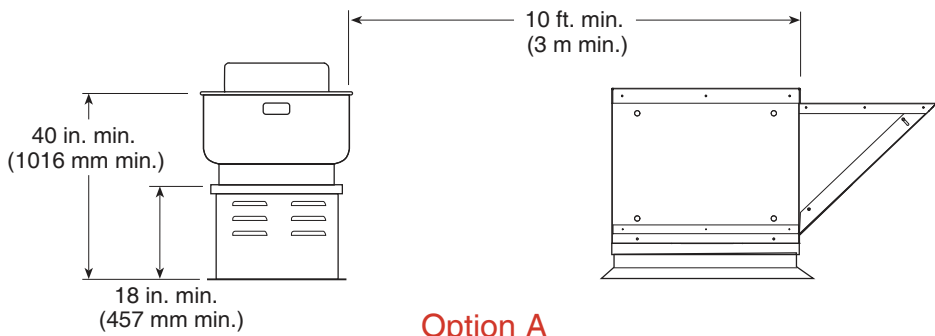
40 inches (1016 Mm) minimum

2. Roof Deck To Top Of Curb:

18 Inches (457 mm) minimum

3. Supply Fan Intake:

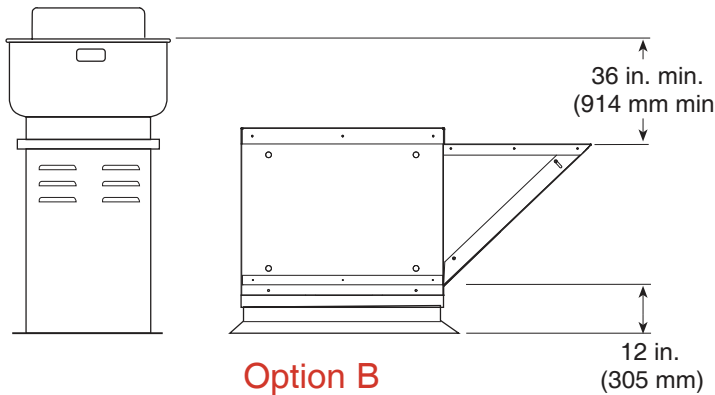
10 Feet (3048 Mm) Minimum From All Exhaust Fans



Option A

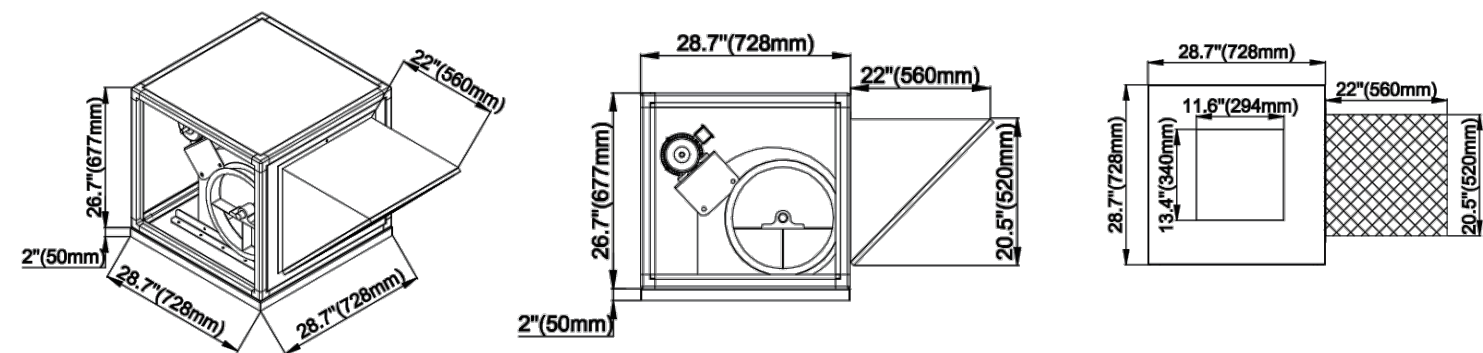
Option B

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)



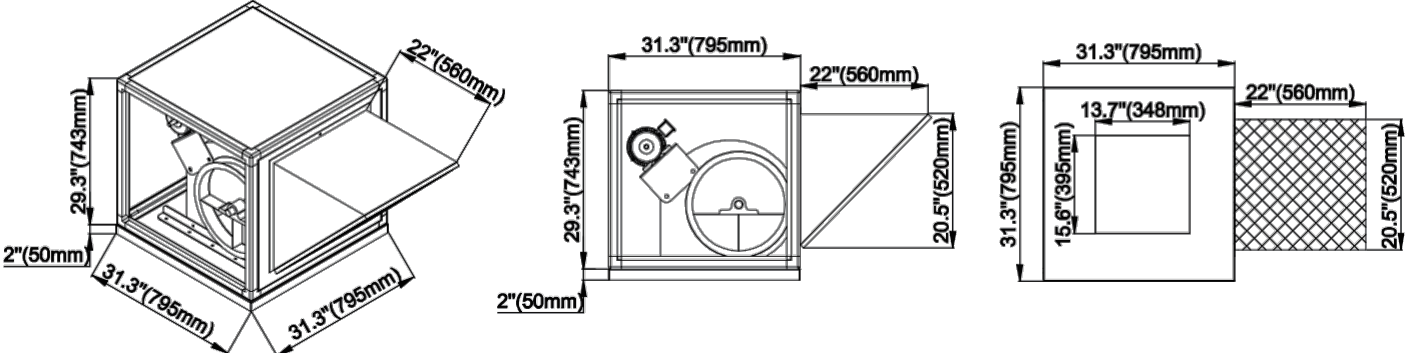
Option B

SDZ-MUA 10

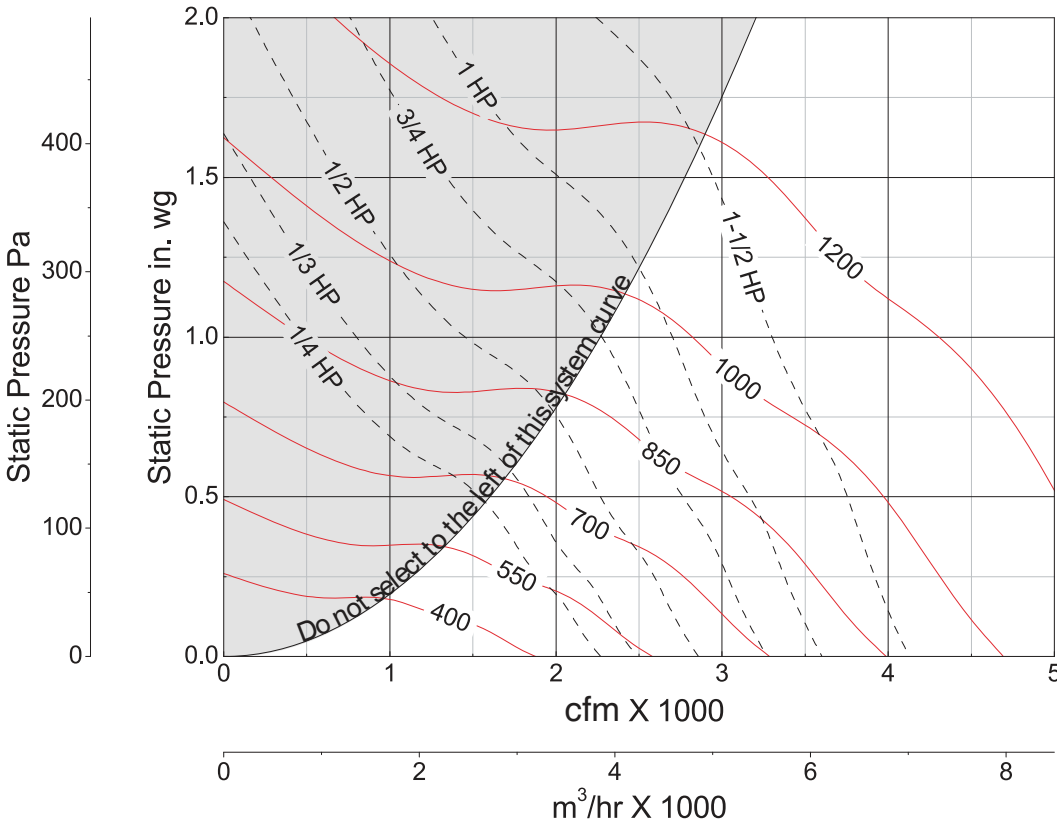
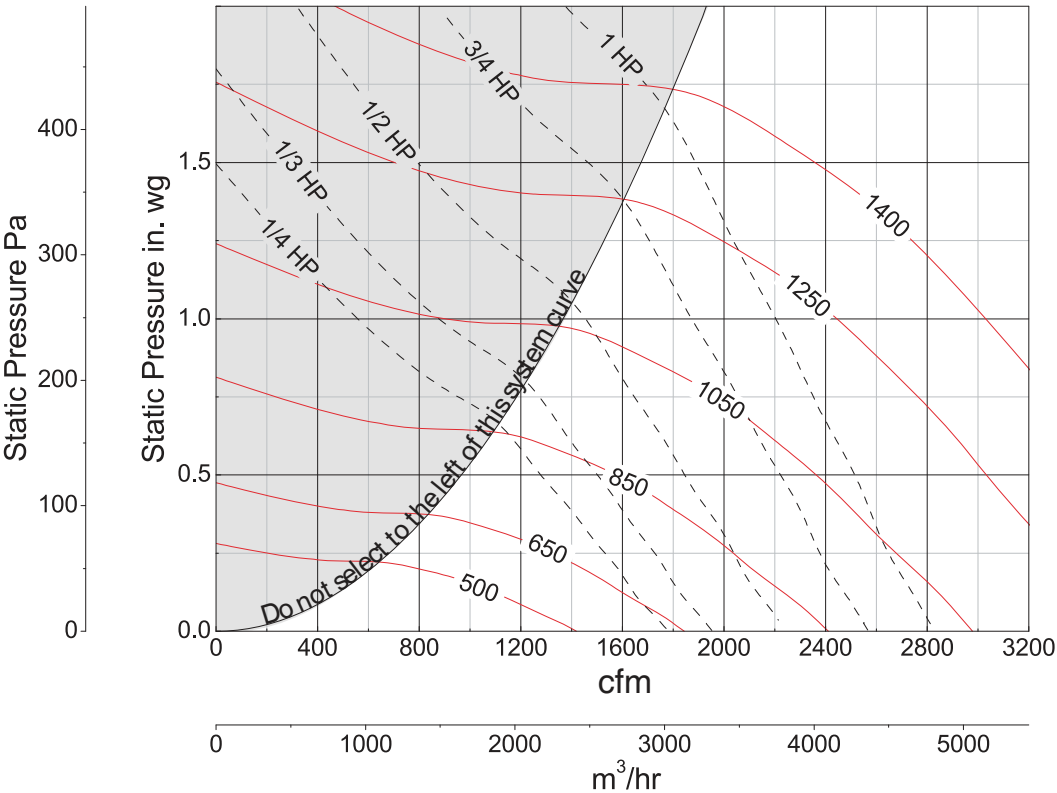


Model	Power	AC motor 1Ø	AC motor 3Ø	Fan Speed	Impeller Dia
SDZ10	0.75HP	220V/60Hz	220V/60Hz	950RPM (recommend)	10inch
	0.75HP		380V/60Hz		
	1HP	220V/60Hz	220V/60Hz	1050RPM (optional)	
	1HP		380V/60Hz		

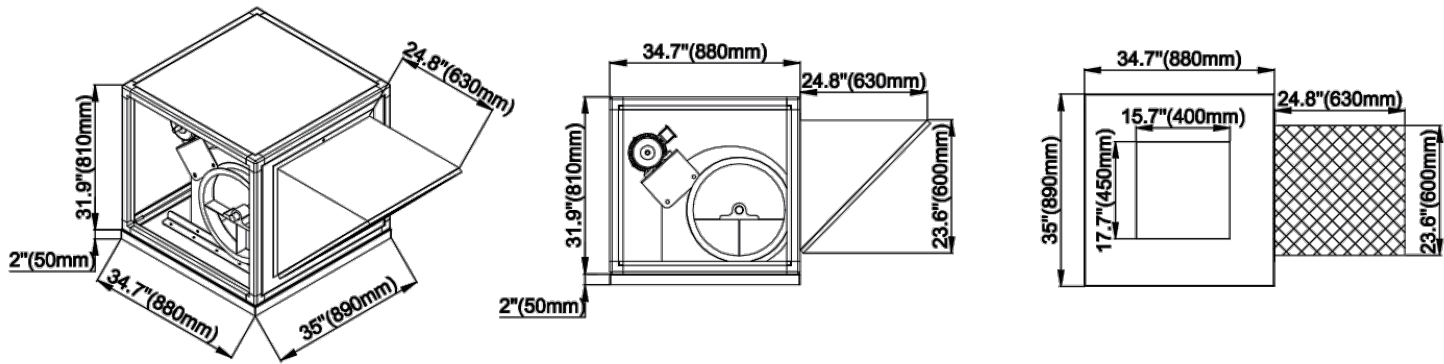
SDZ-MUA 12



Model	Power	AC motor 1Ø	AC motor 3Ø	Fan Speed	Impeller Dia
SDZ12	1HP	220V/60Hz	220V/60Hz	820RPM (recommend)	12inch
	1HP		380V/60Hz		
	1.5HP	220V/60Hz	220V/60Hz	950RPM (optional)	
	1.5HP		380V/60Hz		

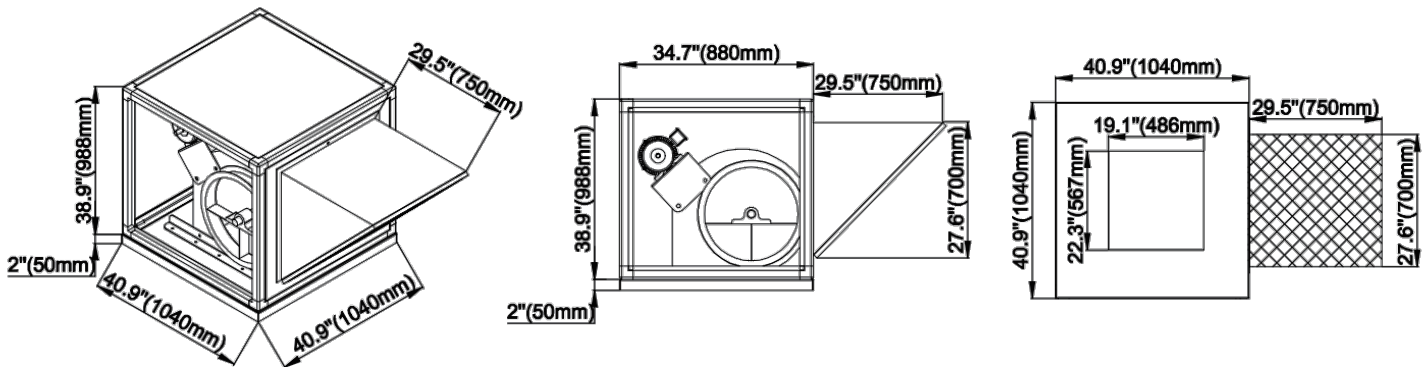


SDZ-MUA 15

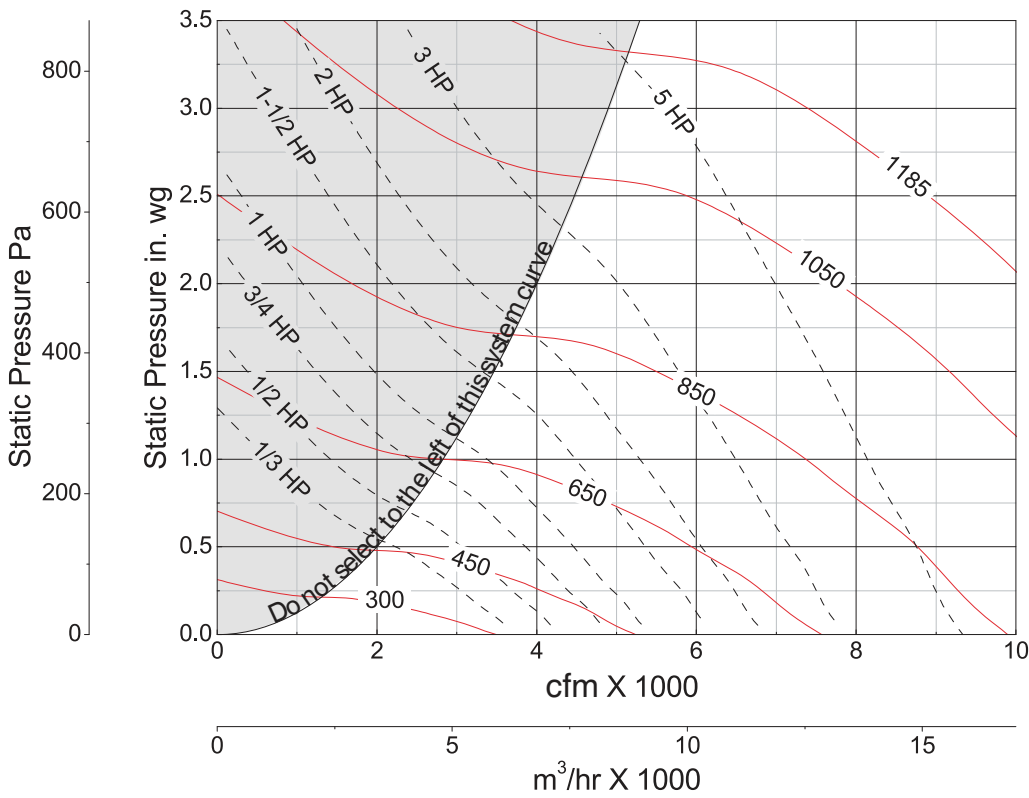
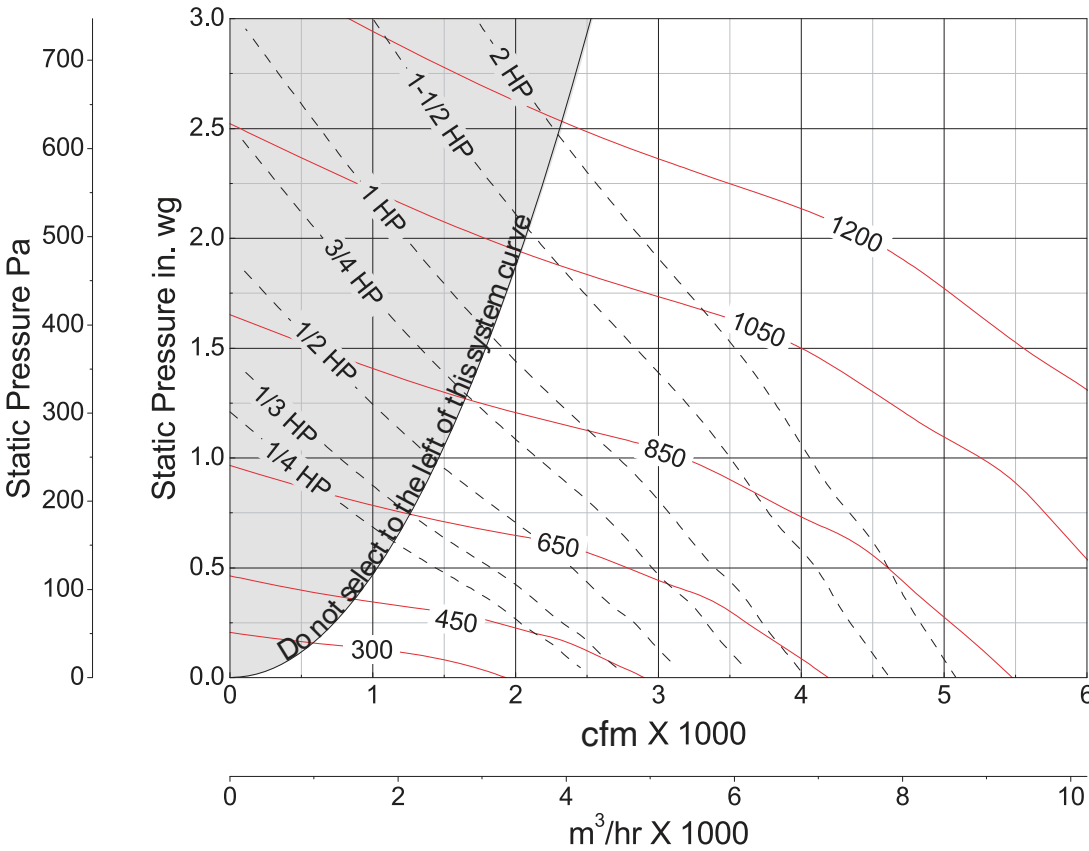


Model	Power	AC motor 1Ø	AC motor 3Ø	Fan Speed	Impeller Dia
SDZ15	1.5HP	220V/60Hz	220V/60Hz	750RPM (recommend)	15inch
	1.5HP		380V/60Hz		
	2HP	220V/60Hz	220V/60Hz	920RPM (optional)	
	2HP		380V/60Hz		

SDZ-MUA 18



Model	Power	AC motor 1Ø	AC motor 3Ø	Fan Speed	Impeller Dia
SDZ18	1.5HP	220V/60Hz	220V/60Hz	610RPM (optional)	18inch
	1.5HP		380V/60Hz		
	2HP	220V/60Hz	220V/60Hz	710RPM (recommend)	
	2HP		380V/60Hz		
	3HP	None	220V/60Hz	800RPM (recommend)	
	3HP		380V/60Hz		



Usage Description

- 1. The Fan Is Mainly Use In Delivering The Clean Air Without The Place That With Easy Burning Materials, Explosive Materials And Powder
- 2. If The Fan Is Fed With External Rotor Machine And Sealed Ball Bearing. It Is Free Maintenance.
- 3. If The Fan Install In The Damping And Sobering Area, Continuous Operation Is Required For The Fan.
- 4. The Fan Can Be Installed In The Outdoor Or Damp Environment With Drainage System.
- 5. All The Fans Are Feeding With International Standard Motors, Which Are Single Phase 120V, 60Hz Or 220V, 50Hz And Three Phases 380V, 50Hz
- 6. Installation Is Available In Any Areas

Installation

- 1. Must Be Install According To The Air Flow Marking
- 2. Must Be Connect To The Piping Or Equip With Safety Accessories
- 3. Must Be Installing In A Proper Way And Make Sure The Outlet Is Without Any Unusual Materials.
- 4. Try To Installing The Fan As Easy As For The Maintenance Purpose
- 5. Fan Required Flanges In Order To Avoid The Piping Damage When Vibrated
- 6. Speed Controller Or Transformer Is Available To Connect To The Fan
- 7. Wiring Diagram Is In The Package.
- 8. Wiring Must Be Strictly Following The Wiring Diagram.
- 9. Electrical Installation Must Be Done By Professional Technicians.
- 10. Electrical Installation Must Be Connecting In The Special Control Box.

Operation

- Before Operation, Please Make Sure
- 1. The Real Maximum Current Cannot Be Exceed The National Standard Index:+5%.
 - 2. The Voltage Pulsation Is Between +6% --+10%
 - 3. No Exceptional Noise Produce When Operation.
 - 4. The Rotating Direction For Three Phase Motor Is The Same As The Marking.

Maintenance

- 1. Before Repair Or Maintenance The Fan, Please Make Sure The Fan Is Stop And The Fan Is Not Working In Overload Condition
- 2. When Disassemble The Larger Fan, Please Care For The Weight To Avoid Blocking And Scratching
- 3. Cleaning The Fan Once A Year, So That It Can Keep The Function And Avoid The Unnecessary Damage.
- 4. Ball Bearing Is Free Maintenance Except For The Necessary Updates.
- 5. When Cleaning The Fan, Please Do Not Use The High Pressure Washer Or Strong Solvent, And Do Not Take Out The Damaging Impeller
- 6. Make Sure The Fan Is Operating Without Any Noise

Failure Detection

- 1. Make Sure The Fan Is In The Load Condition.
- 2. Verify The Impeller Is Without Block.
- 3. Please Do Check With The Heat-variable Switch And Motor Protector. If The Switch Is Not In Connected, Please Do Check It. If Its Need To Restart Makes Sure The Power Supply Is Cut Off In A Few Minutes Until The Rated Current Is Not Higher Than 1.6A. If The Motor Has The Heat Protector, It Will Automatically Reset After Cool Down.
- 4. Make Sure The Capacitor Is Connected According To The Wiring Diagram.
- 5. Please Change The Capacitor At The First Time When The Fan Is Not Work.
- 6. Please Contact The Distributor If The Fan Is Still Not Work
- 7. When Send Back The Fan To The Distributor, Please Clean It And Make Sure The Cables Are

Guarantee

The Guarantee Is Valid Only With The Guideline Of This Manual.

Noise Level Test Method

1m/45° Free Zone, Without Connect The Ducting Noise Data

