



HY-BLAST AXCENTRIX

Model: HY High Velocity Fume Exhaust Direct Drive and Belt Drive

MOVING YOUR WAY

Hy-Blast Axcentrix

Introduction



FANSIZER® Product Selection Software

FanSizer software allows you to select the best centrifugal or axial unit for your application. Input CFM and static pressure, and FanSizer will make the optimum selection. It allows you to complete job schedules which you can store, modify and print in seconds. Features include: online help, on-screen product drawings and dimensions, and complete text specifications. In addition, you can convert job schedules to ASCII code for use with other programs like word processing.

FANCAD® Library of CAD Drawings

FanCad is a library of drawings for use with computeraided design (CAD) systems. FanCad's pre-drawn details can save hours of drafting time. Included are all popular PennBarry fans and related items.

FanSizer and FanCad are registered trademarks.

Table of Contents

Introduction
General Information2
Features and Benefits4
Selection Criteria5
Modular Plenum Box Options 6
Performance Data7
Sample Specifications9
Limited Warranty 10

Visit Our Web Site

Point your internet web browser to **www.PennBarry.com** for up-to-the-minute information including:

- On-line catalog
- List of nearest PennBarry representatives
- What's New
- HVAC "Hot Links"

©2005 PennBarry™ All rights reserved.

Following publication of this catalog changes may have been made in standard equipment, options and the like that would not be included. We reserve the right to make changes at any time, without notice, to models, specifications, options, availability, etc. This bulletin illustrates the appearance of PennBarry products at the time of publication and we reserve the right to make changes in design and construction at anytime without notice. Your local sales representative is the best source for current information.

General Information

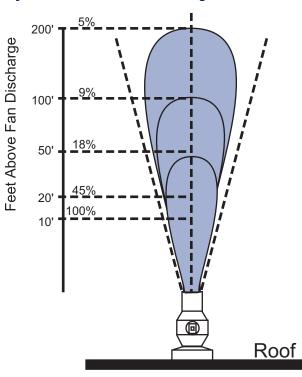
Hy-Blast Axcentrix

Hy-Blast Axcentrix Objective

The Hy-Blast Axcentrix fan is designed to meet and exceed your requirements for exhausting unwanted fumes from laboratory hoods or industrial processes. These unique air handling models remove the contaminants up and away from the facility by vertically exhausting the fumes using high fan outlet velocity.



Hy-Blast Axcentrix Fan Discharge



Exhaust High Above Roof

The Hy-Blast Axcentrix has the ability to attain outlet velocities of 3000 to 6000 FPM with an intense velocity pattern. This unique pattern allows the velocity profile to maintain its speed through a greater height because it is less affected by normal daily cross winds. With this unique pattern, the exhaust fumes will penetrate through the building envelope and disperse high into the atmosphere preventing re-entrainment into building inlets. At 6000 FPM discharge velocity the intense velocity pattern continues so that at a height of 200" (in still air) the exhaust velocity continues moving at 270 FPM.

Jet Throw - In Still Air

At Feet Above Fan Discharge	Velocity (FPM)										
0'	3000	4000	5000	6000							
10'	3000	4000	5000	6000							
20'	1350	1800	2260	2700							
30'	900	1200	1500	1800							
50'	540	720	900	1080							
65'	320	550	700	830							
100'	270	360	450	540							
200'	135	180	220	270							

Hy-Blast Axcentrix

Frequently Asked Questions

What Is "Throw" Or "Effective Stack Height"?

This is the point (measured in feet) from the roof line where the effluent discharge begins to "break-up" or be dispersed into the atmosphere (or O FPM-OV). The total "Jet Throw" is a calculated number determined by physical laws and formulas as found in the ASHRAE Publications. The determining factors for any fan manufacturer are the fan's outlet velocity, total air volume being discharged, and the density of the plume discharge pattern (which varies with manufacturers).

What Are The Current Standards For Fume Hood Discharge Velocity?

ANSI-Z95 calls for a minimum of 3000 FPM fan outlet velocity, while ASHRAE currently recommends 2600 FPM. To obtain an adequate plume-height and to insure a maximum level of entrainment, a high discharge velocity is required. PennBarry has provided fume hood exhaust fans with outlet velocities from 3000 to 6500 FPM as required by the designer.

How Is Entrainment Of Outside Air Obtained?

By discharging a large volume of air in a high velocity, outside air is "entrained" into the exhaust air flow, usually in the range of two to three times the exhaust volume from the system. This "effect" is determined by physical laws, and can be achieved at the fan's discharge point or through the use of extraneous nozzles.

What About Fan Balance Requirements Mentioned In Most Specifications?

PennBarry balances its fans to exacting requirements. First the impeller is dynamically balanced in 2-planes on either a Hines or Schenck electronic balance machine. Then each fan is test run at the operating speed for trim balancing of the combined rotating components. We use IRD, PMC or Schenck portable balance equipment for the final trim balance. In both cases the balance specifications are based on ANSI-S2.19 (ISO 1940), which is a standard for the balance quality of rotating rigid bodies. For fans the balance quality grade is G6.3, which PennBarry strictly adheres to.

Do AMCA Standards Cover The Fume Hood Exhaust Fan Testing?

Yes, AMCA Standards cover the air (Standard #210) and sound level (Standard #300) testing of the air moving device utilized in fume hood exhaust systems. However, there are no AMCA (or ASHRAE) Standards at present for the testing of entrainment and throw which are calculated entities based upon the laws of physics. PennBarry is a long time member of AMCA and tests all its fans in accordance with AMCA Standards.

What Does Manifolding Refer To?

In recent years the trend has been to "manifold" fume hood exhaust systems where the discharge ducts from many hoods are "ganged" together and the exhaust force is provided by a large fan (or fans) mounted in a plenum box. This type of system provides for improved dispersal of the effluent and simpler installations. The method of one exhaust fan per hood was more popular in past designs, but is still specified in many situations. PennBarry can provide fans for either single fan or ganged installations.

Should Noise Me More Of A Concern With Manifold Systems?

All air moving devices make noise, regardless of the manufacturer. To insure that the individual fan's sound power levels are correct, depend on fan manufacturers who are members of AMCA and test their fans in accordance with AMCA Standard #300.

Features and Benefits

Hy-Blast Axcentrix

Direct Drive & Belt Drive Models

The Hy-Blast Axcentrix is available in both direct drive and belt drive models, each with eleven fan sizes: 17" to 45".

The Hy-Blast Axcentrix direct drive unit is built with the motor out of the exhaust stream (unlike other direct drive fans). This unique feature allows simple low maintenance operations as well as special constructions for up to 1000°F continuous exhaust temperatures!

The belt drive versions of the Hy-Blast Axcentrix deliver greater performance versatility and are often more efficient in matching a specific requirement.

Air volume capabilities range from 2500 CFM up through 55,000 CFM. Included is a special high velocity short stack discharge that may incorporate an inner cone for some air volume and discharge velocity requirements. The Hy-Blast Axcentrix may be stack mounted, mounted on a roof curb (with optional curb cap), or mounted on an optional mixing plenum.

Whatever your air handling application, we have the direct drive or belt drive Hy-Blast Axcentrix model to accommodate your needs.

Low Noise

A specially designed mixed flow impeller operates at noise levels lower than other type wheels. The wheel design also has a performance characteristic that eliminates the chance of a system surge caused by the fan.

Superior Corrosion Protection

The Hy-Blast Axcentrix fans can be built with a variety of coatings and with a variety of materials to provide maximum corrosion protection. Special coatings such as epoxy, phenolic, epoxy phenolic and Teflon are available. The entire unit is available in aluminum, 304 stainless steel or 316 stainless steel. With this much versatility you will be assured of getting the best protection to satisfy your requirements.

Ease of Maintenance

The unique housing design of the Hy-Blast Axcentrix offers a standard removable housing cone section to allow for inspection and cleaning of the fan wheel without the removal of the fan from the system. This is a special feature that permits personnel to come into minimum contact with the duct system and whatever contaminants that might be present in the system.

Air Entrainment/Dilution

Thanks to the Hy-Blast Axcentrix high-velocity discharge and unique intense velocity pattern, two times the discharge volume will be entrained within the first four discharge diameters. At twelve discharge diameters over six times the discharge volume will be entrained. This allows a rapid dilution of any discharge contaminants.

Mixing Plenum (Optional)

The Hy-Blast Axcentrix is available for mounting on an optional Mixing Plenum (suitable for roof curb mounting). The Mixing Plenum can serve two functions. First, through damper control, clean bleed air can be induced into the system to allow for greater dilution of the contaminated exhaust streams. Second, also through damper control, a constant high velocity discharge may be maintained as multiple downstream lab hoods are cycled on or off for service. Controlled flow may be pneumatically, electrically or manually modulated. The mixing plenum includes dampers, damper rain hoods with birdscreens, and a service access door.

Spark Resistant

The Hy-Blast Axcentrix is supplied as standard with an aluminum mixed flow wheel for optimum performance, low noise levels and increased motor bearing life on direct drive units. The Axcentrix unit with the aluminum wheel is both AMCA type "B" and type "C" spark resistant.

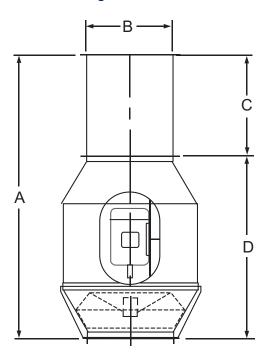
Slyde Out Motor Base

The Slyde Out Motor Base is an accessory which allows the motor and wheel to slide out of the housing for inspection, cleaning, and/or maintenance without dismounting the entire fan.

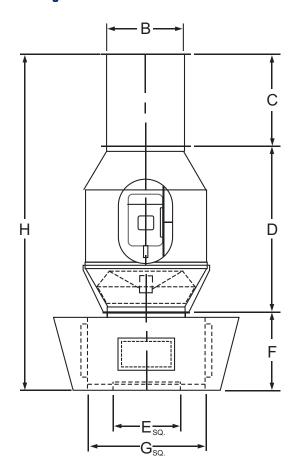
Selection Criteria

Hy-Blast Axcentrix

For Stack Mounting



With Mixing Plenum

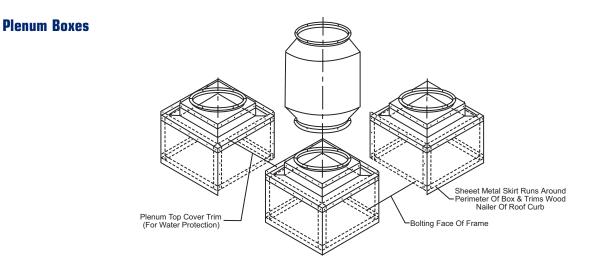


Dimensions

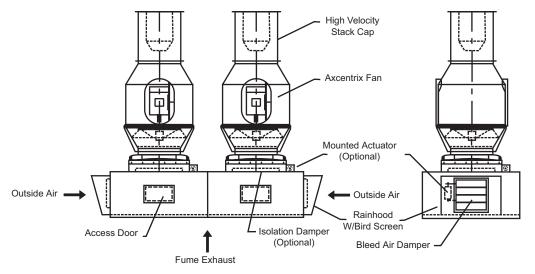
Size	Α	В	С	D	E	F	G	Н
17	60 1⁄8	17 1⁄8	22	38 7⁄8	24	23 1⁄2	36	84 ¾
20	67 <u></u> %	20 ¼	24	43 ¾	26	28 ½	40	95 1⁄8
23	77	23 ¼	28	49	26	28 ½	40	105 ½
26	87 ½	25 ¾	32	55 ½	26	28 ½	40	116
28	94 1⁄8	28 ¼	34	60 1⁄8	28	28 ½	40	123 3⁄8
30	100	30 3⁄8	36	64	30	32 ½	48	132 ½
33	110 ½	33 3⁄8	40	70 ½	34	32 ½	48	143
36	122 ¾	36 3⁄8	44	78 ¾	36	32 ½	48	155 ¼
38	127	38 ½	46	81	38	32 ½	48	159 ½
40	133	40 1⁄2	48	85	40	36 ½	56	169 ½
45	151 ¾	45 ½	54	97 ¾	48	36 ½	56	187 3⁄8

Modular Plenum Box Options

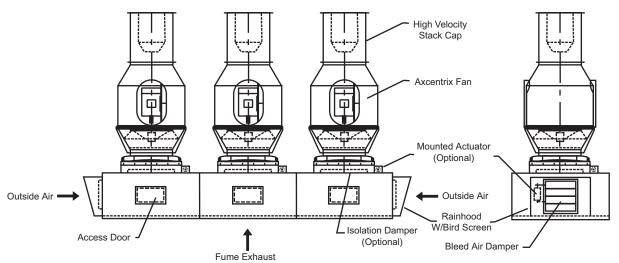
Hy-Blast Axcentrix



2 Fan Plenum Arrangement







Performance Data

Hy-Blast Axcentrix

Fan Size	Catalog Number	Motor HP	Motor RPM	CFM O.V.	Free Del.	1	1 ½	2	2 ½	3	3 ½	4	4 ½
17"	HY17AX-3	3	1750	CFM O.V.	5235 5235	4200 4200	3550 3550	2850 2850					
20"	HY20AX-2	2	1160	CFM O.V.	6050 3805	3950 2484							
20	HY20AX-7½	7½	1750	CFM O.V.	8525 6268	7395 5438	6670 4904	5905 4342	5100 3750	4217 3101	3390 2493		
23"	HY23AX-5 5	5	1160	CFM O.V.	9200 4840	6850 3605	5410 2847						
23	HY23AX-15	15	1750	CFM O.V.	12970 6170	11660 5552	10946 5212	10140 4829	9240 4400	8331 3967	7370 3510	6360 3029	5400 2571
	HY26AX-3	3	870	CFM O.V.	8700 4143	5715 2721							
26"	HY26AX-7½	71⁄2	1160	CFM O.V.	13420 4247	11724 3710	10500 3323	8810 2788					
	HY26AX-25	25	1750	CFM O.V.	21450 6788	19260 6095	18690 5915	18065 5717	17332 5485	16540 5234	15635 4948	14624 4628	13415 4245
	HY28AX-5	5	870	CFM O.V.	10866 5174	7652 3644	5392 2568						
28"	HY28AX-10	10	1160	CFM O.V.	16761 4411	14935 3930	13747 3618	12168 3202	10114 2662				
	HY28AX-30	30	1750	CFM O.V.	26791 7050	24432 6429	23638 6221	22993 6051	22279 5863	21476 5652	20619 5426	19645 5170	18570 4887
	HY30AX-7½	71⁄2	870	CFM O.V.	15980 4261	12840 3424	10400 2773						
30"	HY30AX-15	15	1160	CFM O.V.	21300 5680	19120 5099	17932 4782	16562 4417	14750 3933	12400 3307	9620 2565		
	HY30AX-50*	50	1750	CFM O.V.	34420 6843	33194 6599	32560 6473	31915 6325	31120 6187	30235 6011	29460 5857	28410 5648	

Fan Size	Catalog Number	Motor HP	Motor RPM	CFM O.V.	Free Del.	5	5 ½	6	6 ½	7	7 1⁄2	8	8 ½
17"	HY17AX-3	3	1750	CFM O.V.	5235 5235								
20"	HY20AX-2	2	1160	CFM O.V.	6050 3805								
20	HY20AX-7½	7½	1750	CFM O.V.	8525 6268								
23"	HY23AX-5	5	1160	CFM O.V.	9200 4840								
25	HY23AX-15	15	1750	CFM O.V.	12970 6170								
	HY26AX-3	3	870	CFM O.V.	8700 4143								
26"	HY26AX-7½	7½	1160	CFM O.V.	13420 4247								
	HY26AX-25	25	1750	CFM O.V.	21450 6788	12030 3807	10300 3259	8500 2690					
	HY28AX-5	5	870	CFM O.V.	10866 5174								
28"	HY28AX-10	10	1160	CFM O.V.	16761 4411								
	HY28AX-30	30	1750	CFM O.V.	26791 7050	17328 4560	15920 4189	14280 3758	12399 3263	10473 2756			
	HY30AX-7½	7½	870	CFM O.V.	15980 4261								
30"	HY30AX-15	15	1160	CFM O.V.	21300 5680								
	HY30AX-50*	50	1750	CFM O.V.	34420 6843	26618 5292	25440 5058	24198 4810	22645 4502	20915 4158	18810 3740	16550 3290	14100 2803

For additional applications contact factory. Outlet Velocity is at discharge of high velocity short stack. CFM is actual fan voume at short stack discharge and includes the pressure drop through the discharge stack. *Discharge stack of fan does not include bullet to increase velocity, due to existing high velocity.

Performance Data

Hy-Blast Axcentrix

Fan Size	Catalog Number	Motor HP	Motor RPM	CFM O.V.	Free Del.	1	1 ½	2	2 ½	3	3 ½	4	4 ½	
				CFM	16869	11701								
	HY33AX-5	5	690	0.V.	4498	3120								
33"	HY33AX-10	10	870	CFM	21269	17815	15546	12673						
	HT33AA-10	10	070	0.V.	5672	4751	4146	3379						
	HY33AX-25	25	1160	CFM	28350	25952	24697	23320	21728	19751	17182	14260	11550	
	11133AX-23	25	1100	0.V.	6915	6330	6024	5688	5300	4871	4191	3478	2817	
	HY36AX-7½	71/2	690	CFM	21900	16928	13024							
	11130/07-172	172	030	0.V.	5341	4129	3177							
36"	HY36AX-15	15	870	CFM	27613	23846	21837	1890	15453	10872				
		10	010	0.V.	6735	5816	5326	4612	3769	2652				
	HY36AX-40	0 40	1160	CFM	36806	34190	32866	31442	29868	28097	25923	23232	20226	
	11100,0110		1100	0.V.	6816	6216	5976	5717	5431	5109	4713	4224	3677	
	HY38AX-10	AX-10 10	690	CFM	25757	20700	16770							
		10	000	0.V.	5151	4140	3354							
38"	HY38AX-20	20	870	CFM	32476	28488	26494	23646	20490	16082				
	11100,0120	20	010	0.V.	6495	5698	5299	4729	4098	3216				
	HY38AX-50	50	1160	CFM	43288	40519	39135	37665	36130	34415	32324	30022	27051	
			55			0.V.	6660	6234	6021	5795	5558	5295	4973	4619
	HY40AX-15	HY40AX-15 1	15	690	CFM	30600	25670	22055	16780					
	111 10/07 10	10	000	0.V.	4435	3720	3196	2432						
40"	HY40AX-25	25	870	CFM	38600	34960	32820	30210	27230	23115	18050			
			0.0	0.V.	5594	5067	4757	4378	3946	3350	2616			
	HY404X-60*	HY40AX-60*	60	1160	CFM	54722	52420	49995	49575	48000	46220	44365	42183	39810
	111 10, 01 00	00	1100	0.V.	6145	5857	5588	5539	5363	5164	4957	4713	4448	
	HY45AX-25	25	690	CFM	43569	38042	34671	30035	24046					
45"			000	0.V.	5586	4877	4445	3851	3083					
	HY45AX-50	50	870	CFM	54960	50879	48665	45863	43191	39849	35858	30622	25087	
	11 40/07 00	00	010	0.V.	7046	6523	6239	5885	5537	5109	4572	3926	3216	

Fan Size	Catalog Number	Motor HP	Motor RPM	CFM O.V.	Free Del.	5	5 ½	6	6 ½	7	7 1/2	8	8 ½
	HY33AX-5	5	690	CFM	16869								
				0.V.	4498								
33"	HY33AX-10	10	870	CFM O.V.	21269 5672								
	HY33AX-25	25	1160	CFM O.V.	28350 6915								
	HY36AX-7½	7½	690	CFM O.V.	21900 5341								
36"	HY36AX-15	15	870	CFM O.V.	27613 6735								
	HY36AX-40	40	1160	CFM O.V.	36806 6816	16890 3071	13921 2531						
	HY38AX-10	10	690	CFM O.V.	25757 5151								
38"	HY38AX-20	20	870	CFM O.V.	32476 6495								
	HY38AX-50	50	1160	CFM O.V.	43288 6660	23875 3673	20388 3137	17383 2674					
	HY40AX-15	15	690	CFM O.V.	30600 4435								
40"	HY40AX-25	25	870	CFM O.V.	38600 5594								
	HY40AX-60*	60	1160	CFM O.V.	54722 6145	36818 4114	33524 3746	29370 3282	24416 2728				
45"	HY45AX-25	25	690	CFM O.V.	43569 5586								
45"	HY45AX-50	50	870	CFM O.V.	54960 7046	19700 2526							

For additional applications contact factory. Outlet Velocity is at discharge of high velocity short stack. CFM is actual fan voume at short stack discharge and includes the pressure drop through the discharge stack.

*Discharge stack of fan does not include bullet to increase velocity, due to existing high velocity.

Sample Specifications

Hy-Blast Axcentrix

General 1.0

1.1 Fans shall be tested and rated in accordance with AMCA air performance standards.

1.2 All motors and electrical components shall comply to NEMA, UL or other governing body.

1.3 Fan performance rating shall be based on methods and standards as developed by AMCA in standard 210.

1.4 The minimum outlet velocity shall not be below 2500FPM as per ASHRAE recommendation.

1.5 The fan's tested and rated inlet volume as based on AMCA's established test methods shall be the volume used to determine the outlet velocity of the fan.

Products 2.0

2.1 Fan shall be of axial type configuration with a bifurcated housing and mixed flow impeller.

2.2 Fan shall be direct drive or belt drive as indicated on schedule.

2.3 Fan housing shall be of all welded construction with a flanged inlet and outlet, and shall be constructed completely of carbon steel, stainless steel (type 316 or 304) or aluminum as indicated on fan schedule.

2.3.1 The fan housing shall have an integrally designed removable section to allow for impeller inspection or removal while the fan assembly remains installed.

2.3.2 The fan shall incorporate a short stack, velocity nozzle with construction matching that of the fan.

2.3.3 The fan shall be capable of supporting additional duct stack height of up to 20 feet if the application requires such due to building envelope, local codes or regional codes and the duct is properly guy wired.

2.4 Motor shall be separated from the air stream, located in an easy accessible and visible chamber which bifurcates the fan housing and air stream.

2.5 The fan shall perform at elevated temperatures without any additional external cooling fans other than its own integral mounted cooling wheels.

2.6 Impeller shall be of mixed flow type and of all welded aluminum construction.

2.6.1 The mixed flow impeller shall consist of a combination axial/backward curved blades in combination with a conical formed backplate.

2.6.2 Impeller shall have a non-stall performance characteristics with stable operation at any point on the fan curve.

2.7 The electric motor shall be as specified on fan schedule. The motor shall be of a typical NEMA-T frame type and readily available within the motor industry unless specified otherwise due to applications warranting a custom built motor.

2.8 Fan shall be of AMCA spark resistant construction type "B" and "C".

2.9 Fan shall be coated with enamel as standard or any other available coating as made available by coating suppliers and as indicated on the fan schedule.

2.10 All fans shall be test run at the given operating speed for trim balancing of the combined rotating components. The balance specifications are based on ANSI-S2.19 (ISO 1940), which is a standard for the balance of rotating rigid bodies. The fan balance shall be quality grade G6.3. A permanent quality assurance shall be attached to each fan recording the final dynamic balance reading attained at the manufacturer.

2.11 All joints shall be sealed with PTFE Teflon gasketing and fastened using 316 stainless steel hardware.

Accessories 3.0

3.1 Fan manufacturer shall supply a NEMA rated disconnect when required as shown on the fan schedule.

3.2 The motor chamber shall have either a louvered or bird screen cover as shown on the fan schedule.

3.3 The fan manufacturer shall supply a galvanized roof curb with rigid insulation and a wood nailer as shown on the fan schedule.

3.4 The inlet air bleed plenum section shall be provided by the fan manufacturer.

3.4.1 Inlet bleed air plenum shall include a bolted access door for inspection of plenum interior.

3.4.2 Plenum construction shall be heavy gauge continuously welded. Single or double wall construction as specified on the fan schedule.

3.4.3 Bleed air (bypass) damper shall be either single thickness or airfoil, opposed bladed as specified. Material of construction shall be as shown on the fan schedule. Damper shall be protected by a rainhood with birdscreen.

3.4.4 Isolation Damper when required shall be an opposed blade airfoil type. Material of the damper and an operator (if required) shall be as shown on the fan schedule.

Limited One Year Warranty

Hy-Blast Axcentrix

What Products Are Covered

PennBarry Fans and Ventilators (each, a "PennBarry Product")

One Year Limited Warranty For PennBarry Products

PennBarry warrants to the original commercial purchaser that the PennBarry Products will be free from defects in material and workmanship for a period of one (1) year from the date of shipment.

Exclusive Remedy

PennBarry will, at its option, repair or replace (without removal or installation) the affected components of any defective PennBarry Product; repair or replace (without removal or installation) the entire defective PennBarry Product; or refund the invoice price of the PennBarry Product. In all cases, a reasonable time period must be allowed for warranty repairs to be completed.

What You Must Do

In order to make a claim under these warranties:

- 1. You must be the original commercial purchaser of the PennBarry Product.
- 2. You must promptly notify us, within the warranty period, of any defect and provide us with any substantiation that we may reasonably request.
- 3. The PennBarry Product must have been installed and maintained in accordance with good industry practice and any specific PennBarry recommendations.

Exclusions

These warranties do not cover defects caused by:

- 1. Improper design or operation of the system into which the PennBarry Product is incorporated.
- 2. Improper installation.
- 3. Accident, abuse or misuse.
- 4. Unreasonable use (including any use for non-commercial purposes, failure to provide reasonable and necessary maintenance as specified by PennBarry, misapplication and operation in excess of stated performance characteristics).
- 5. Components not manufactured by PennBarry.

Limitations

- 1. In all cases, PennBarry reserves the right to fully satisfy its obligations under the Limited Warranties by refunding the invoice price of the defective PennBarry Product (or, if the PennBarry Product has been discontinued, of the most nearly comparable current product).
- 2. PennBarry reserves the right to furnish a substitute or replacement component or product in the event a PennBarry Product or any component of the product is discontinued or otherwise unavailable.
- 3. PennBarry's only obligation with respect to components not manufactured by PennBarry shall be to pass through the warranty made by the manufacturer of the defective component.

General

The foregoing warranties are exclusive and in lieu of all other warranties except that of title, whether written, oral or implied, in fact or in law (including any warranty of merchantability or fitness for a particular purpose).

PennBarry hereby disclaims any liability for special, punitive, indirect, incidental or consequential damages, including without limitation lost profits or revenues, loss of use of equipment, cost of capital, cost of substitute products, facilities or services, downtime, shutdown or slowdown costs.

The remedies of the original commercial purchaser set forth herein are exclusive and the liability of PennBarry with respect to the PennBarry Products, whether in contract, tort, warranty, strict liability or other legal theory shall not exceed the invoice price charged by PennBarry to its customer for the affected PennBarry Product at the time the claim is made.

Inquiries regarding these warranties should be sent to: PennBarry, 1401 North Plano Road, Richardson, TX 75081.

Hy-Blast Axcentrix

OTHER PENNBARRY PRODUCTS

CENTRIFUGAL PRODUCTS



Domex Centrifugal Roof Exhausters



Fumex Fatrap Kitchen Hood Centrifugal Roof Exhausters



Zephyr Ceiling and Inline Fans



Dynamo Centrifugal Blowers



Centrex Inliner Centrifugal Inline Fans



LC Dynafan Low Contour Centrifugal Roof Exhausters



ESI Efficient Silent Inline Fan



Fume Exhaust Curb Mounted Centrifugal Fans

AXIAL / GRAVITY PRODUCTS



Breezeway Propeller Wall Fans



Powered Airette Axial Roof Ventilators



HI-EX Power Roof Ventilator

Airette

Gravity Intake/Relief Hood



Tubeaxial Inline Fans



Domex Axial Axial Roof Ventilators



Vaneaxial Inline Fans



Axcentrix Bifurcator Fan

For more information contact your local PennBarry Sales Manufacturer Representative or visit us at www.PennBarry.com



©2005 PennBarry™ All Rights Reserved. February 2005