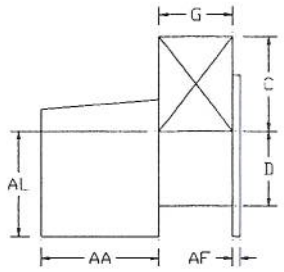
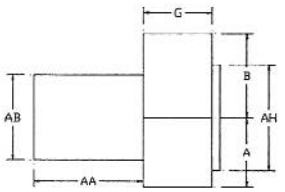
TAG: [1] SX-RF-2

ACME ENGINEERING & MANUFACTURING CORPORATION
P. O. Box 978
Muskogee, OK 74402

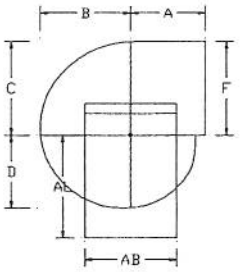
Project:	NOB Cape town
Location:	South Africa
Architect:	ZGF
Engineer:	Flack + Kurtz Inc.
Contractor:	Hensel Phelps International
Submitted by:	TOAC/MOREX, INC.
Date:	8/24/2004



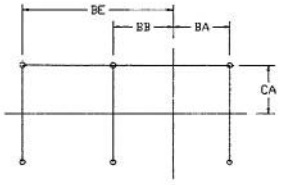
Elevation View



Plan View



Side View



Foundation Plan

3000SW Single-Width Backward Inclined Centrifugal Fan

Standard Construction Features:
- See Catalog
- L-50 200,000 Hour bearing life

Options & Accessories:
- Access Door
- Companion Flanges (Inlet & Outlet)
- Flanged Ends (Inlet & Outlet)
- Cooling Wheel (Shaft Cooler)
- 1.5 Service Factor Belt Drive, Fixed Pitch Motor Pulley
- Inlet Screen
- NEMA 3R Disconnect Switch, mounted
- Shaft Seal
- Spark Resistant, AMCA C
- Standard Drain
- Weather Cover
- High/Premium Efficiency Motor, Class F Insu, SF1.15
- Spare V-Belt set

DIMENSIONS (mm)

A	B	C	D	E	F	G	AA	AB	AF	AH	AL	BA	BB	BE	CA	
614	764	809	639	831	809	600	799	635	57	953	864	332	356	889	292	

FAN INFORMATION

Class	Arrangement	Discharge	Rotation
1	10	TH	CW

FAN FOUNDATION

Boltholes	Bolt Diameter
6	0.625

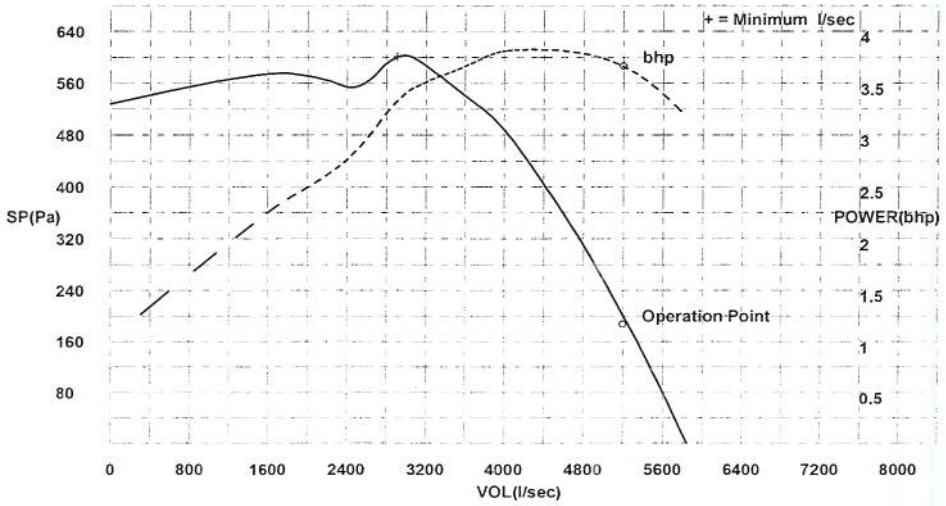
PERFORMANCE (Altitude = 42.00 meter, Temperature = 21.00 Degrees Celsius, Density = 1.200 kg/m3)

Qty	Model Size	Volume (l/sec)	SP (Pa)	Speed (rpm)	TS (m/s)	OV (m/s)	Power (bhp)	Motor Information						
								HP	Volts	Ph	Hz	Encl	RPM	Sp/Wdg
1	3030SW	5200	187.00	822	32	10	3.67	5	380	3	50	ODP	1425	1

SOUND (*In free space @ 5 feet / 1.5 meters)

Octave Bands	1	2	3	4	5	6	7	8	LwA	dBA*	Sones*
Sound Power	88	90	87	83	80	74	67	61	85	74	22

The sound power level ratings shown are in decibels referred to 10-12 watt calculated per AMCA Standard 301. Values shown for this model shown are for inlet Lwi sound power levels for Installation Type B: Free Inlet, Ducted Outlet. Ratings do not include the effects of duct end correction.

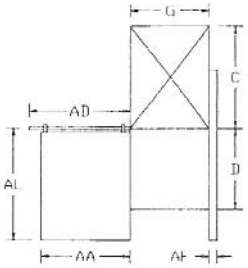


Manufacturer reserves the right to change specifications without notice. These are typical drawings for dimensional purpose only and are correct within limits for normal installation requirements. They do not necessarily show actual construction.

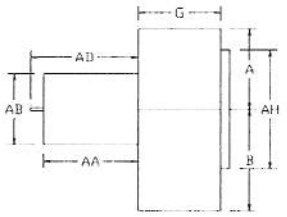
TAG: [1] SX-RF-3

ACME ENGINEERING &
MANUFACTURING CORPORATION
P. O. Box 978
Muskogee, OK 74402

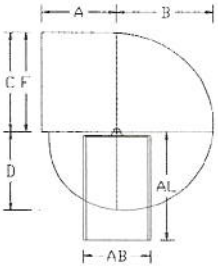
Project:	NOB Cape town
Location:	South Africa
Architect:	ZGF
Engineer:	Flack + Kurtz Inc.
Contractor:	Hensel Phelps International
Submitted by:	TOAC/MOREX, INC.
Date:	8/24/2004



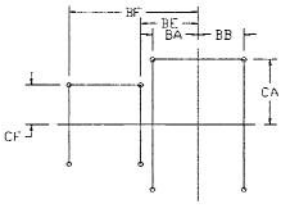
Elevation View



Plan View



Side View



Foundation Plan

3000SW Single-Width Backward Inclined Centrifugal Fan

Standard Construction Features:

- See Catalog
- L-50-200,000 Hour bearing life

Options & Accessories:

- Access Door
- Companion Flanges (Inlet & Outlet)
- Flanged Ends (Inlet & Outlet)
- Cooling Wheel (Shaft Cooler)
- 1.5 Service Factor Belt Drive, Fixed Pitch Motor Pulley
- Inlet Screen
- NEMA 3R Disconnect Switch, mounted
- Shaft Seal
- Spark Resistant, AMCA C
- Standard Drain
- Weather Cover
- High/Premium Efficiency Motor, Class F Insu, SF1.15
- Spare V-Belt set

DIMENSIONS (mm)

A	B	C	D	E	F	G	AA	AB	AD	AF	AH	AL	BA	BB	BE	BF	CA	CF	
732	928	983	776	996	983	734	848	643	959	80	1080	1073	398	398	506	1136	591	360	

FAN INFORMATION

Class	Arrangement	Discharge	Rotation
1	10	TH	CCW

FAN FOUNDATION

Boltholes	Bolt Diameter
8	0.875

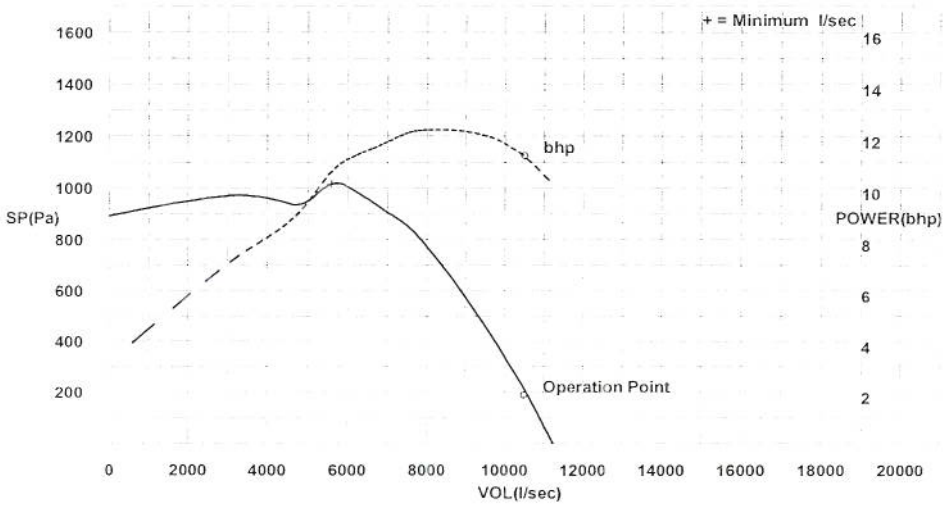
PERFORMANCE (Altitude = 42.00 meter, Temperature = 21.00 Degrees Celsius, Density = 1.200 kg/m3)

Qty	Model Size	Volume (l/sec)	SP (Pa)	Speed (rpm)	TS (m/s)	OV (m/s)	Power (bhp)	Motor Information						
								HP	Volts	Ph	Hz	Encl	RPM	Sp/Wdg
1	3037SW	10500	187.00	878	42	14	11.24	15	380	3	50	ODP	1425	1

SOUND (*In free space @ 5 feet / 1.5 meters)

Octave Bands	1	2	3	4	5	6	7	8	LwA	dBA*	Sones*
Sound Power	100	97	95	91	89	83	76	70	94	82	38

The sound power level ratings shown are in decibels referred to 10-12 watt calculated per AMCA Standard 301. Values shown for this model shown are for inlet Lwi sound power levels for Installation Type B: Free Inlet, Ducted Outlet. Ratings do not include the effects of duct end correction.

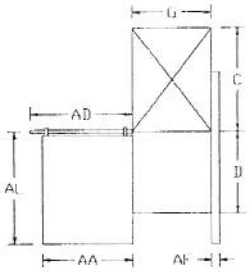


Manufacturer reserves the right to change specifications without notice. These are typical drawings for dimensional purpose only and are correct within limits for normal installation requirements. They do not necessarily show actual construction.

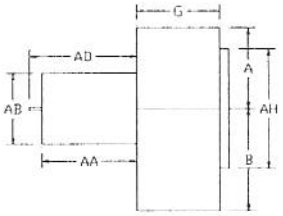
TAG: [1] SX-RF-5

ACME ENGINEERING &
MANUFACTURING CORPORATION
P. O. Box 978
Muskogee, OK 74402

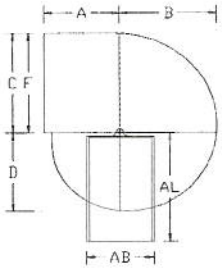
Project:	NOB Cape town
Location:	South Africa
Architect:	ZGF
Engineer:	Flack + Kurtz Inc.
Contractor:	Hensel Phelps International
Submitted by:	TOAC/MOREX, INC.
Date:	8/24/2004



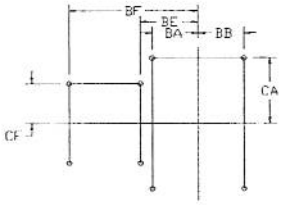
Elevation View



Plan View



Side View



Foundation Plan

3000SW Single-Width Backward Inclined Centrifugal Fan

Standard Construction Features:

- See Catalog
- L-50-200,000 Hour bearing life

Options & Accessories:

- Access Door
- Companion Flanges (Inlet & Outlet)
- Flanged Ends (Inlet & Outlet)
- Cooling Wheel (Shaft Cooler)
- 1.5 Service Factor Belt Drive, Fixed Pitch Motor Pulley
- Inlet Screen
- NEMA 3R Disconnect Switch, mounted
- Shaft Seal
- Spark Resistant, AMCA C
- Standard Drain
- Weather Cover
- High/Premium Efficiency Motor, Class F Insu, SF1.15
- Spare V-Belt set

DIMENSIONS (mm)

A	B	C	D	E	F	G	AA	AB	AD	AF	AH	AL	BA	BB	BE	BF	CA	CF	
732	928	983	776	996	983	734	848	643	959	80	1080	1073	398	398	506	1136	591	360	

FAN INFORMATION

Class	Arrangement	Discharge	Rotation
1	10	TH	CCW

FAN FOUNDATION

Boltholes	Bolt Diameter
8	0.875

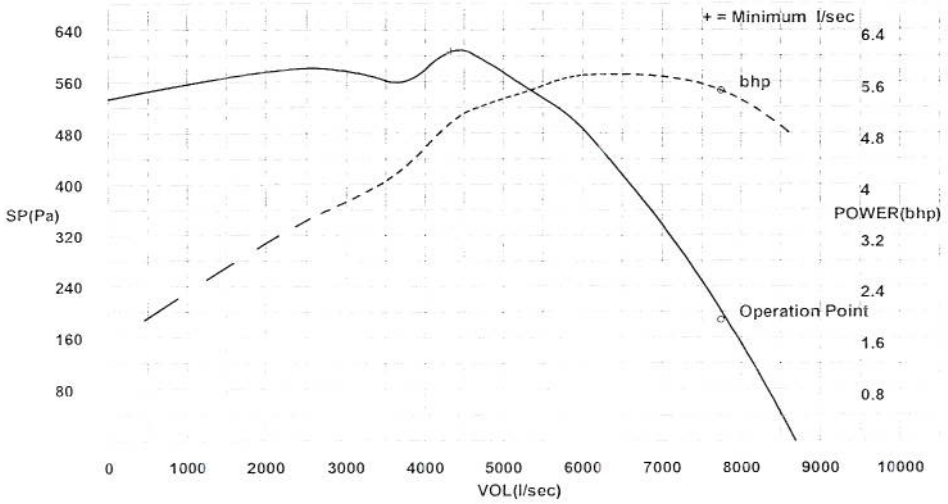
PERFORMANCE (Altitude = 42.00 meter, Temperature = 21.00 Degrees Celsius, Density = 1.200 kg/m3)

Qty	Model Size	Volume (l/sec)	SP (Pa)	Speed (rpm)	TS (m/s)	OV (m/s)	Power (bhp)	Motor Information						
								HP	Volts	Ph	Hz	Encl	RPM	Sp/Wdg
1	3037SW	7740	187.00	679	32	10	5.46	7.5	380	3	50	ODP	1425	1

SOUND (*In free space @ 5 feet / 1.5 meters)

Octave Bands	1	2	3	4	5	6	7	8	LwA	dBA*	Sones*
Sound Power	92	94	87	84	81	74	68	62	86	75	26

The sound power level ratings shown are in decibels referred to 10-12 watt calculated per AMCA Standard 301. Values shown for this model shown are for inlet Lwi sound power levels for Installation Type B: Free Inlet, Ducted Outlet. Ratings do not include the effects of duct end correction.



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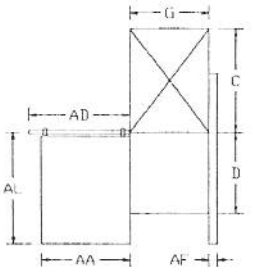
Fri Aug 27 11:57:30 2004, Version 10.0.0 (10.0.0)

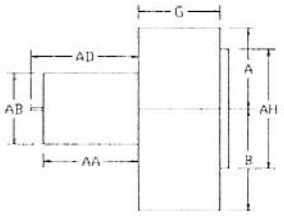
TAG: [1] SX-RF-6

ACME ENGINEERING &
MANUFACTURING CORPORATION
P. O. Box 978
Muskogee, OK 74402

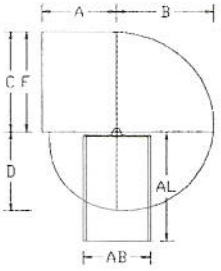
Project:	NOB Cape town
Location:	South Africa
Architect:	ZGF
Engineer:	Flack + Kurtz Inc.
Contractor:	Hensel Phelps International
Submitted by:	TOAC/MOREX, INC.
Date:	8/24/2004



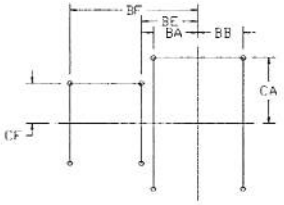
Elevation View



Plan View



Side View



Foundation Plan

3000SW Single-Width Backward Inclined Centrifugal Fan

Standard Construction Features:
- See Catalog
- L-50-200,000 Hour bearing life

Options & Accessories:
- Access Door
- Companion Flanges (Inlet & Outlet)
- Flanged Ends (Inlet & Outlet)
- Cooling Wheel (Shaft Cooler)
- 1.5 Service Factor Belt Drive, Fixed Pitch Motor Pulley
- Inlet Screen
- NEMA 3R Disconnect Switch, mounted
- Shaft Seal
- Spark Resistant, AMCA C
- Standard Drain
- Weather Cover
- High/Premium Efficiency Motor, Class F Insu, SF1.15
- Spare V-Belt set

DIMENSIONS (mm)

A	B	C	D	E	F	G	AA	AB	AD	AF	AH	AL	BA	BB	BE	BF	CA	CF	
732	928	983	776	996	983	734	848	643	959	80	1080	1073	398	398	506	1136	591	360	

FAN INFORMATION

Class	Arrangement	Discharge	Rotation
1	10	TH	CCW

FAN FOUNDATION

Boltholes	Bolt Diameter
8	0.875

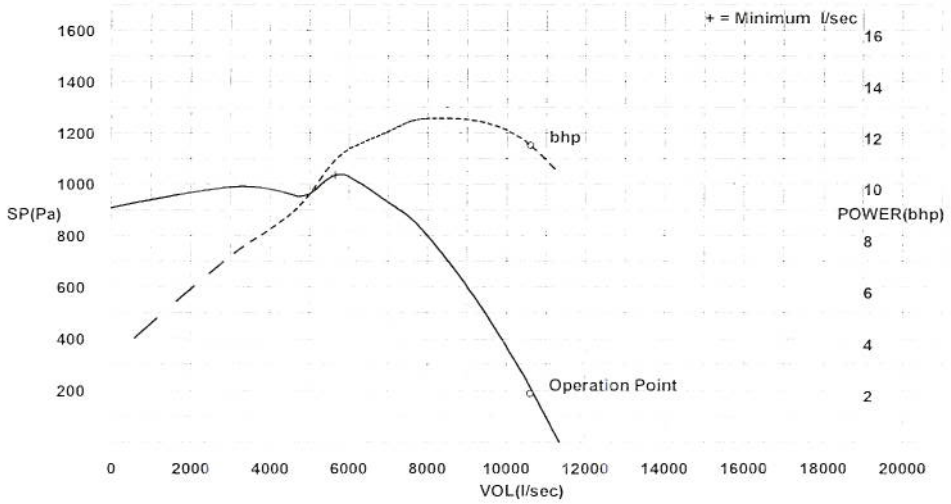
PERFORMANCE (Altitude = 42.00 meter, Temperature = 21.00 Degrees Celsius, Density = 1.200 kg/m3)

Qty	Model Size	Volume (l/sec)	SP (Pa)	Speed (rpm)	TS (m/s)	OV (m/s)	Power (bhp)	Motor Information						
								HP	Volts	Ph	Hz	Encl	RPM	Sp/Wdg
1	3037SW	10600	187.00	886	43	14	11.51	15	380	3	50	ODP	1425	1

SOUND (*In free space @ 5 feet / 1.5 meters)

Octave Bands	1	2	3	4	5	6	7	8	LwA	dBA*	Sones*
Sound Power	100	97	96	91	89	83	77	70	94	82	39

The sound power level ratings shown are in decibels referred to 10-12 watt calculated per AMCA Standard 301. Values shown for this model shown are for inlet Lwi sound power levels for Installation Type B: Free Inlet, Ducted Outlet. Ratings do not include the effects of duct end correction.



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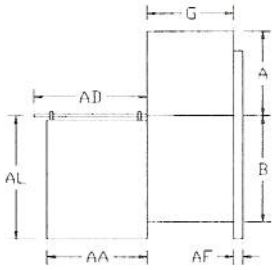
Fri Aug 27 12:03:46 2004, Version 10.0.0 (10.0.0)

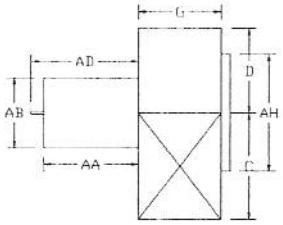
TAG: [1] SX-RF-8

ACME ENGINEERING &
MANUFACTURING CORPORATION
P. O. Box 978
Muskogee, OK 74402

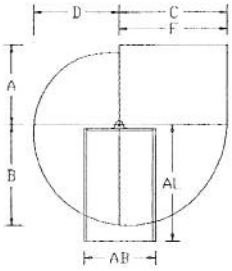
Project:	NOB Cape town
Location:	South Africa
Architect:	ZGF
Engineer:	Flack + Kurtz Inc.
Contractor:	Hensel Phelps International
Submitted by:	TOAC/MOREX, INC.
Date:	8/24/2004



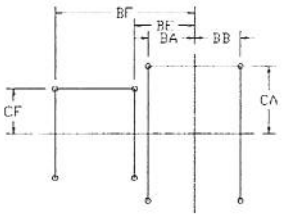
Elevation View



Plan View



Side View



Foundation Plan

3000SW Single-Width Backward Inclined Centrifugal Fan

Standard Construction Features:
- See Catalog
- L-50-200,000 Hour bearing life

Options & Accessories:
- Access Door
- Companion Flanges (Inlet & Outlet)
- Flanged Ends (Inlet & Outlet)
- Cooling Wheel (Shaft Cooler)
- 1.5 Service Factor Belt Drive, Fixed Pitch Motor Pulley
- Inlet Screen
- NEMA 3R Disconnect Switch, mounted
- Shaft Seal
- Spark Resistant, AMCA C
- Standard Drain
- Weather Cover
- High/Premium Efficiency Motor, Class F Insu, SF1.15
- Spare V-Belt set

DIMENSIONS (mm)

A	B	C	D	E	F	G	AA	AB	AD	AF	AH	AL	BA	BB	BE	BF	CA	CF	
689	840	890	703	907	877	667	848	643	959	80	1016	1073	364	364	472	1102	546	360	

FAN INFORMATION

Class	Arrangement	Discharge	Rotation
1	10	UB	CCW

FAN FOUNDATION

Boltholes	Bolt Diameter
8	0.875

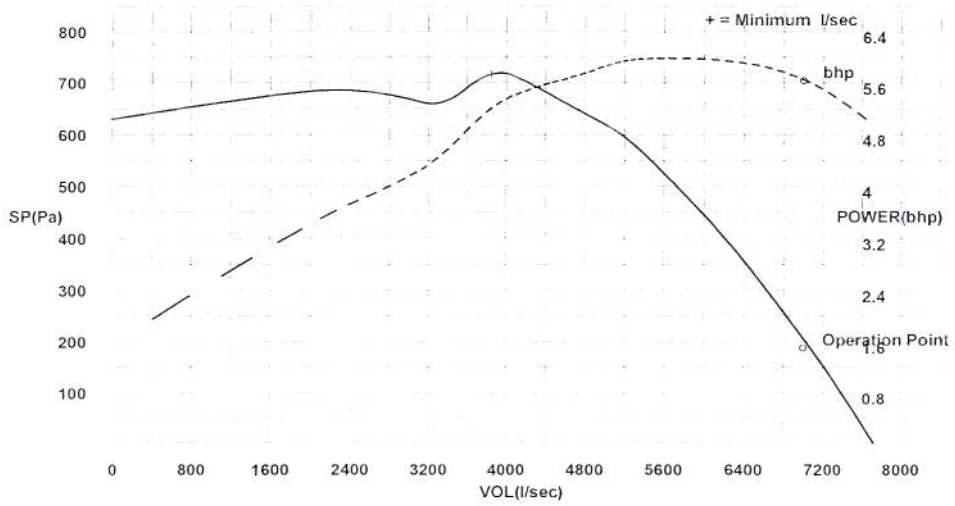
PERFORMANCE (Altitude = 42.00 meter, Temperature = 21.00 Degrees Celsius, Density = 1.200 kg/m3)

Qty	Model Size	Volume (l/sec)	SP (Pa)	Speed (rpm)	TS (m/s)	OV (m/s)	Power (bhp)	Motor Information						
								HP	Volts	Ph	Hz	Encl	RPM	Sp/Wdg
1	3033SW	7000	187.00	816	35	12	5.63	7.5	380	3	50	ODP	1425	1

SOUND (*In free space @ 5 feet / 1.5 meters)

Octave Bands	1	2	3	4	5	6	7	8	LwA	dBA*	Sones*
Sound Power	94	93	90	86	83	77	71	65	88	77	27

The sound power level ratings shown are in decibels referred to 10-12 watt calculated per AMCA Standard 301. Values shown for this model shown are for inlet Lwi sound power levels for Installation Type B: Free Inlet, Ducted Outlet. Ratings do not include the effects of duct end correction.



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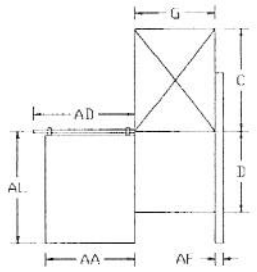
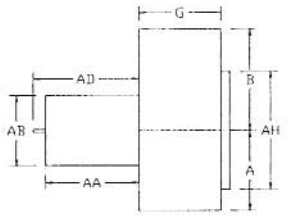
TAG: [1] SX-RF-7

ACME ENGINEERING &
MANUFACTURING CORPORATION
P. O. Box 978
Muskogee, OK 74402

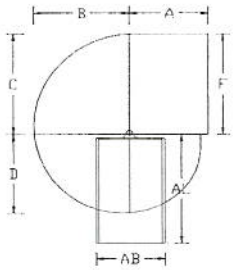
Project:	NOB Cape town
Location:	South Africa
Architect:	ZGF
Engineer:	Flack + Kurtz Inc.
Contractor:	Hensel Phelps International
Submitted by:	TOAC/MOREX, INC.
Date:	8/24/2004



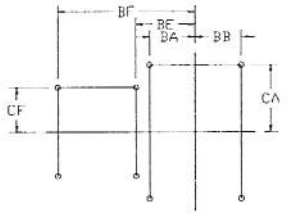
Elevation View



Plan View



Side View



Foundation Plan

3000SW Single-Width Backward Inclined Centrifugal Fan

Standard Construction Features:

- See Catalog
- L-50-200,000 Hour bearing life

Options & Accessories:

- Access Door
- Companion Flanges (Inlet & Outlet)
- Flanged Ends (Inlet & Outlet)
- Cooling Wheel (Shaft Cooler)
- 1.5 Service Factor Belt Drive, Fixed Pitch Motor Pulley
- Inlet Screen
- NEMA 3R Disconnect Switch, mounted
- Shaft Seal
- Spark Resistant, AMCA C
- Standard Drain
- Weather Cover
- High/Premium Efficiency Motor, Class F Insu, SF1.15
- Spare V-Belt set

DIMENSIONS (mm)

A	B	C	D	E	F	G	AA	AB	AD	AF	AH	AL	BA	BB	BE	BF	CA	CF	
689	840	890	703	907	877	667	848	643	959	80	1016	1073	364	364	472	1102	546	360	

FAN INFORMATION

Class	Arrangement	Discharge	Rotation
1	10	TH	CW

FAN FOUNDATION

Boltholes	Bolt Diameter
8	0.875

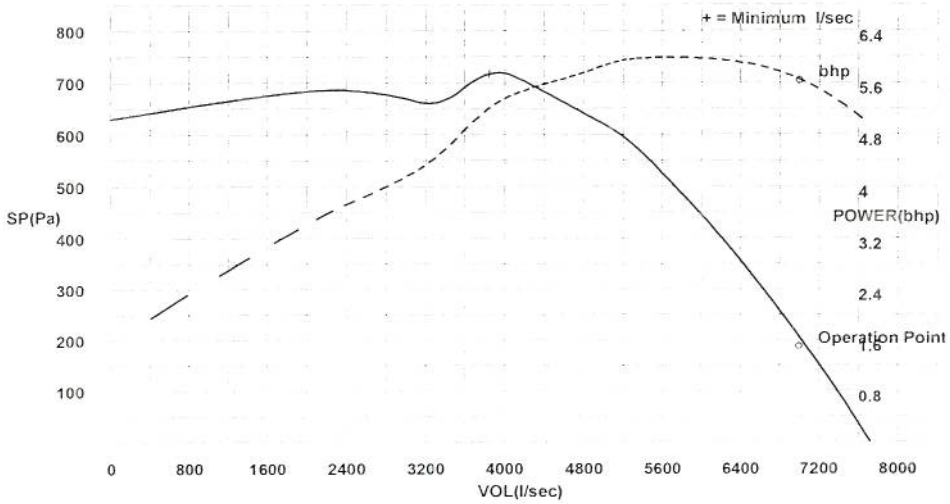
PERFORMANCE (Altitude = 42.00 meter, Temperature = 21.00 Degrees Celsius, Density = 1.200 kg/m3)

Qty	Model Size	Volume (l/sec)	SP (Pa)	Speed (rpm)	TS (m/s)	OV (m/s)	Power (bhp)	Motor Information						
								HP	Volts	Ph	Hz	Encl	RPM	Sp/Wdg
1	3033SW	7000	187.00	816	35	12	5.63	7.5	380	3	50	ODP	1425	1

SOUND (*In free space @ 5 feet / 1.5 meters)

Octave Bands	1	2	3	4	5	6	7	8	LwA	dBA*	Sones*
Sound Power	94	93	90	86	83	77	71	65	88	77	27

The sound power level ratings shown are in decibels referred to 10-12 watt calculated per AMCA Standard 301. Values shown for this model shown are for inlet Lwi sound power levels for Installation Type B: Free Inlet, Ducted Outlet. Ratings do not include the effects of duct end correction.



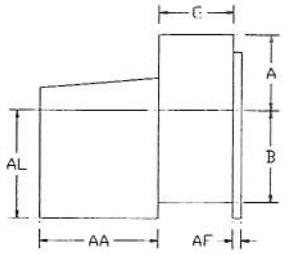
Manufacturer reserves the right to change specifications without notice. These are typical drawings for dimensional purpose only and are correct within limits for normal installation requirements. They do not necessarily show actual construction

Fri Aug 27 13:02 23 2004; Version 10.0.0 (10.0.0)

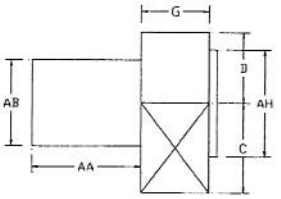
TAG: [1] GX-RF-1

ACME ENGINEERING & MANUFACTURING CORPORATION
P. O. Box 978
Muskogee, OK 74402

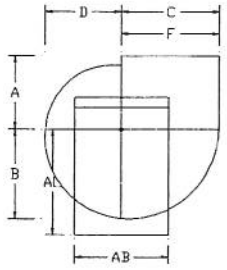
Project:	NOB Cape town
Location:	South Africa
Architect:	ZGF
Engineer:	Flack + Kurtz Inc.
Contractor:	Hensel Phelps International
Submitted by:	TOAC/MOREX, INC.
Date:	8/24/2004



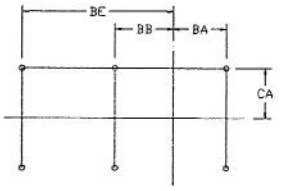
Elevation View



Plan View



Side View



Foundation Plan

3000SW — Single-Width Backward Inclined Centrifugal Fan

Standard Construction Features:
- See Catalog
- L-50-200,000 Hour bearing life

Options & Accessories:
- Access Door
- Companion Flanges (Inlet & Outlet)
- Flanged Ends (Inlet & Outlet)
- Cooling Wheel (Shaft Cooler)
- 1.5 Service Factor Belt Drive, Fixed Pitch Motor Pulley
- Inlet Screen
- NEMA 3R Disconnect Switch, mounted
- Shaft Seal
- Spark Resistant, AMCA C
- Standard Drain
- Weather Cover
- High/Premium Efficiency Motor, Class F Insu, SF1.15
- Spare V-Belt set

DIMENSIONS (mm)

A	B	C	D	E	F	G	AA	AB	AF	AH	AL	BA	BB	BE	CA	
657	688	729	576	755	716	546	799	635	57	838	787	305	329	862	292	

FAN INFORMATION

Class	Arrangement	Discharge	Rotation
1	10	UB	CCW

FAN FOUNDATION

Boltholes	Bolt Diameter
6	0.625

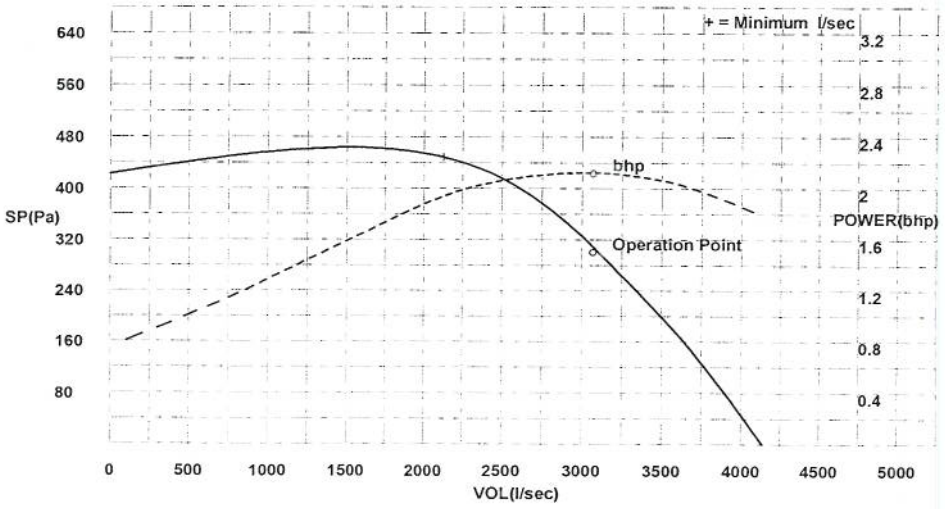
PERFORMANCE (Altitude = 42.00 meter, Temperature = 21.00 Degrees Celsius, Density = 1.200 kg/m3)

Qty	Model Size	Volume (l/sec)	SP (Pa)	Speed (rpm)	TS (m/s)	OV (m/s)	Power (bhp)	Motor Information						
								HP	Volts	Ph	Hz	Encl	RPM	Sp/Wdg
1	3027SW	3070	300.00	808	29	7	2.12	5	380	3	50	ODP	1425	1

SOUND (*In free space @ 5 feet / 1.5 meters)

Octave Bands	1	2	3	4	5	6	7	8	LwA	dBA*	Sones*
Sound Power	86	85	79	75	72	66	60	54	78	66	16

The sound power level ratings shown are in decibels referred to 10-12 watt calculated per AMCA Standard 301. Values shown for this model shown are for inlet Lwi sound power levels for Installation Type B: Free Inlet, Ducted Outlet. Ratings do not include the effects of duct end correction.



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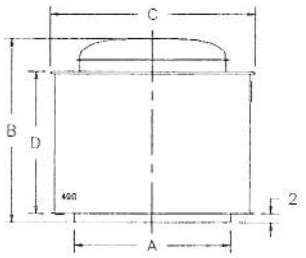
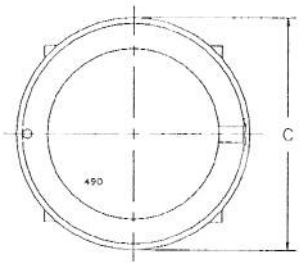
TAG: [1] SX-RF-4

ACME ENGINEERING &
MANUFACTURING CORPORATION
P. O. Box 978
Muskogee, OK 74402

Project:	NOB Cape town
Location:	South Africa
Architect:	ZGF
Engineer:	Flack + Kurtz Inc.
Contractor:	Hensel Phelps International
Submitted by:	TOAC/MOREX, INC.
Date:	8/24/2004



Elevation View



Plan View

PNURF Belt Drive Upblast Exhauster

Standard Construction Features:

- Backward inclined non-overloading aluminum wheel
- Disconnect switch - NEMA1
- Galvanized birdscreen · Quick release hood latches
- Galvanized curb cap · Integral drain hole
- Heavy gauge aluminum housing
- Pre-lubricated bearings in duplex split pillow block housing rated at 200,000 hours - 5-year limited warranty
- Two-year limited warranty
- W/Variable pitch drives designed for 1.5 Service Factor

Options & Accessories:

- W/Aluminum Birdscreen
- Gravity Damper ARH 54
- High/Premium Efficiency Motor, Class F Insu, SF1.15
- Spare V-Belt set

DIMENSIONS (mm)

A	B	C	D	Roof Opening	
1524	1473	2026	1323	1410 x 1410	

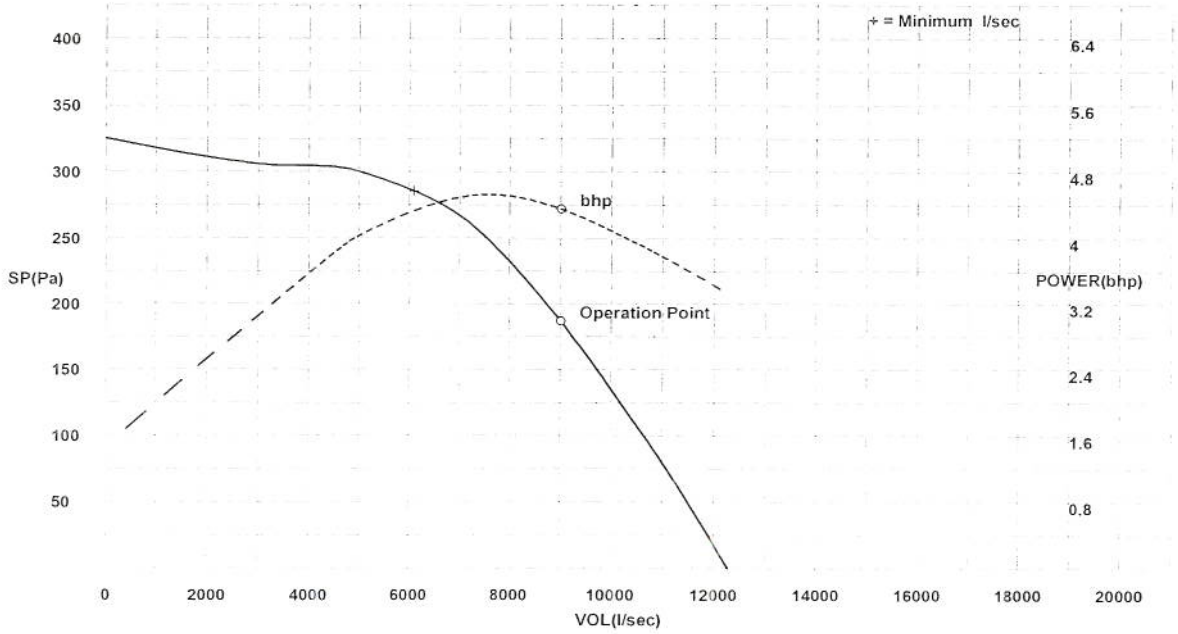
PERFORMANCE (Altitude = 42.00 meter, Temperature = 21.00 Degrees Celsius, Density = 1.200 kg/m3)

Qty	Model Size	Volume (l/sec)	SP (Pa)	Speed (rpm)	TS (m/s)	OV (m/s)	Power (bhp)	Motor Information						
								HP	Volts	Ph	Hz	Encl	RPM	Sp/Wdg
1	PNU490RFN	9020	187.00	403	26	6	4.35	5	380	3	50	ODP	1425	1

SOUND (*In free space @ 5 feet / 1.5 meters)

Octave Bands	1	2	3	4	5	6	7	8	LwA	dBA*	Sones*
Sound Power	85	86	76	72	71	67	64	61	77	65	16

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. Values shown are for Installation Type A: Free Inlet fan sone levels.



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