



# AXIAL FLOW FANS

## MINE VENTILATION FANS AND SILENCERS SPECIFICATIONS 2010



**SABS**  
ISO 9002





# Axial Flow Fans

Reg No. 2003/014903/07

Mine Ventilation Fan Repairs and Manufacturing – Standard & Flameproof

**SABS**  
ISO 9002

**Emergency Number: 082-376-1631** (in the event that you are unable to get through on land lines, we have emergency cell lines that are linked to our switchboard)

Contact Person	Department	Contact Number
Kobie Ross	Senior Sales Executive – Gauteng, North West Province & Free State	Available on 24 hour breakdown: 082-773-7035 (Cell)
Kobie Human (Mrs)	Fan Collection and Delivery Enquiries	087 751 4426 – Tel 086 684 5822 – Fax
Ronel Greyling (Mrs)	New Fan Sales	087 751 4426 – Tel 086 684 5822 – Fax
Piet Bronkhorst	Factory Manager	011 751 4426 – Tel 086 684 5822 – Fax
Gideon Magaxa	Director	087 751 4426 – Tel 086 684 5822 – Fax 082 376 1631 – Cell
Craig Zerbst	Managing Director	087 751 4426 – Tel 086 684 5822 – Fax 082 778 6812 – Cell
Dorothy Zerbst (Mrs)	Director	087 751 4426 – Tel 086 684 5822 – Fax
Thulani Duba	Transport Manager	087 751 4426 – Tel 086 684 5822 – Fax 073 662 9244 – Cell

# Axial Flow Fans

## COMPANY PROFILE



### Who We Are

#### Our History

For nearly 30 years Axial Flow has paid close attention to customers needs. We have a proud history of delivering results. In the process, a unique business culture has emerged that drives our Employees and Company as a whole to perform at their absolute best.

We are committed to providing our clients with the best equipment for their specific requirements. Over the years we have carefully analyzed the needs of our clients and attempted to integrate these requirements into the best possible solutions package available.

### What We Do

Axial Flow manufactures and repairs the following items:

Standard Auxiliary Ventilation Fans  
Sound Attenuated Auxiliary Fans  
Airjet Fans  
Sound Attenuated Airjet Fans  
Fan Silencers  
Durafan (patent pending)  
All the above items are available in Flameproof and Standard Configuration

All products manufactured and repaired are covered within the scope of our S.A.B.S. quality certification.

### How We Do It

Our Client's are our number one priority – and in order to ensure that they remain satisfied our levels of service have to be extremely high. We pride ourselves on our service delivery.

### Our Clients and Our People

Our Client Base consists of the major Mining Houses in South Africa. We service the North West Province, Mpumalanga, Limpopo, Gauteng, Freestate, Kwa Zulu Natal, as well as Zambia and Zimbabwe.

### Our Leadership

We believe that we have assembled a group of leaders that will guide Axial Flow Fans and its Clients.

Craig R. Zerbst (Managing Director)  
Dorothy J. Zerbst (Financial Director)  
Gideon B. Magaxa (Operations Director)  
Petrus H. Bronkhorst (Factory Manager)  
Thulani Duba (Transport Manager)  
Jacoba Human (Office Manager)  
Kobie Ross (National Sales Manager)



# **S.A.B.S. Certificates**

# SABS

## *Certificate of Registration*

*This is to certify that the Quality System Management of*

**AXIAL FLOW EMPOWERMENT AND  
DEVELOPMENT COMPANY  
(PTY) LTD  
(TRADING AS AXIAL FLOW FANS)  
SPRINGS**

*has been assessed and found to  
satisfy the requirements of*

**ISO 9001:2008  
QUALITY MANAGEMENT SYSTEMS**


*in respect of*

**THE MANUFACTURING AND REPAIR OF FLAMEPROOF  
VENTILATION FANS AND THE DESIGN, DEVELOPMENT AND  
MANUFACTURING OF NON-FLAMEPROOF VENTILATION FANS**

**NO PERMISSIBLE EXCLUSIONS**

This certificate, including the schedule which forms an integral part thereof,

- is issued without alteration;
- is identified by the applicable registration number;
- is subject to any condition or limitation contained therein;
- is valid subject to ongoing compliance with certification requirements;
- bears the embossed SABS Commercial seal. In the absence of the seal, the certificate and the schedule shall be invalid; and
- the certificate may be authenticated by referring to the register of "Certified Clients" on the SABS Commercial website ([www.sabs.co.za](http://www.sabs.co.za))

Registration Number	<b>LS 0946</b>
Effective Date	<b>11 November 2009</b>
Expiry Date	<b>10 November 2012</b>
Date of Original Registration	<b>17 February 1993</b>
Director	



SABS COMMERCIAL (Pty) Ltd.  
1 De Lange Rd, Goudensig, Pretoria,  
Republic of South Africa





# SABS

## *Permit to Apply Certification Mark*

Subject to the provisions of the Standards Act, 2008  
(Act 8 of 2008), the relevant regulations made thereunder and the permit  
conditions contained in the under mentioned schedules, this permit authorizes

**AXIAL FLOW EMPOWERMENT AND  
DEVELOPMENT COMPANY (PTY) LTD  
(TRADING AS AXIAL FLOW FANS)  
SPRINGS**

to apply the certification mark



in respect of the mark specification:

**SANS 60079-0 & 1:2009**

**TO: EXPLOSIVE ATMOSPHERES**

**PART 0: EQUIPMENT – GENERAL**

**REQUIREMENTS**

**PART 1: EQUIPMENT PROTECTION BY**

**FLAMEPROOF ENCLOSURES “d”**

This permit, including schedules 1 to 3 which form an integral part thereof;

- is issued without alteration;
- is identified by the applicable permit number;
- is subject to any condition or limitation contained therein;
- is valid subject to ongoing compliance with permit conditions.
- bears the embossed SABS Commercial seal. In the absence of the seal, the Permit and the schedules shall be invalid; and
- the permit may be authenticated by referring to the register of “Certified Clients” on the SABS Commercial website ([www.sabs.co.za](http://www.sabs.co.za))

Permit Number 2907/4271

Effective Date 14 July 2010

Expiry Date 7 February 2013

Date of Original Registration 27 January 1988

Director \_\_\_\_\_

A handwritten signature in black ink, appearing to be a stylized representation of the letters 'S' and 'D'.

SABS COMMERCIAL (Pty) Ltd.  
1 Dr Lategan Rd. Groenkloof, Pretoria,  
Republic of South Africa



# SABS

## *Permit to Apply Certification Mark*

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(Act 8 of 2008), the relevant regulations made thereunder and the permit  
conditions contained in the under mentioned schedules, this permit authorizes

**AXIAL FLOW EMPOWERMENT AND  
DEVELOPMENT COMPANY (PTY) LTD  
(TRADING AS AXIAL FLOW FANS)  
SPRINGS**

to apply the certification mark



in respect of the mark specification:

**SANS 1561-1:2006  
TO: REWOUND AND REFURBISHED  
ROTATING ELECTRICAL MACHINES  
PART 1: LOW-VOLTAGE THREE-PHASE  
INDUCTION MOTORS**

This permit, including schedules 1 to 3 which form an integral part thereof;

- is issued without alteration;
- is identified by the applicable permit number;
- is subject to any condition or limitation contained therein;
- is valid subject to ongoing compliance with permit conditions.
- bears the embossed SABS Commercial seal. In the absence of the seal, the Permit and the schedules shall be invalid; and
- the permit may be authenticated by referring to the register of "Certified Clients" on the SABS Commercial website ([www.sabs.co.za](http://www.sabs.co.za))

Permit Number 2907/10341

Effective Date 14 July 2010

Expiry Date 7 February 2013

Date of Original Registration 13 November 2001

Director 



**SABS COMMERCIAL (Pty) Ltd.**  
1 Dr Lategan Rd. Groenkloof, Pretoria,  
Republic of South Africa





**FAN SILENCERS**

# Axial Flow Fans

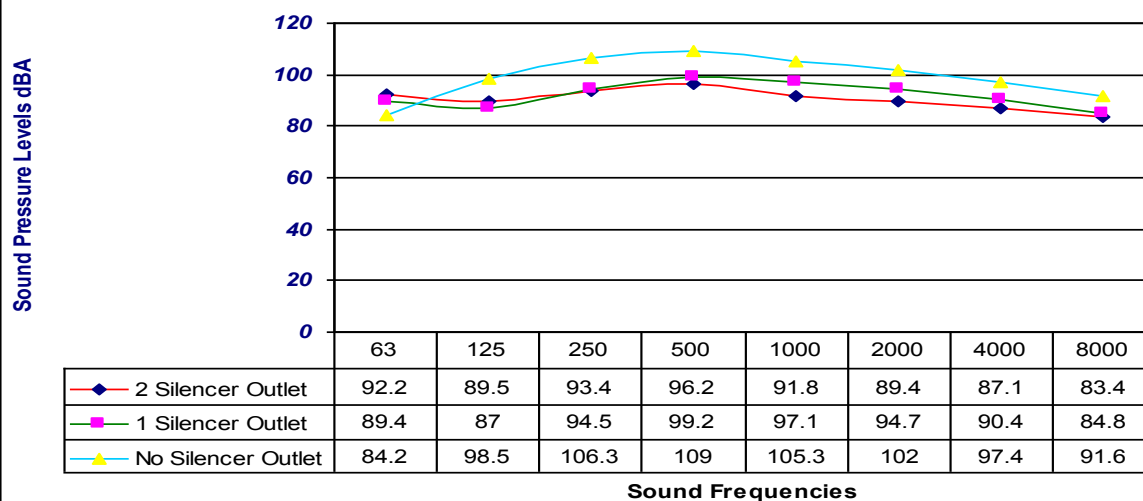


## FAN SILENCER SPECIFICATIONS

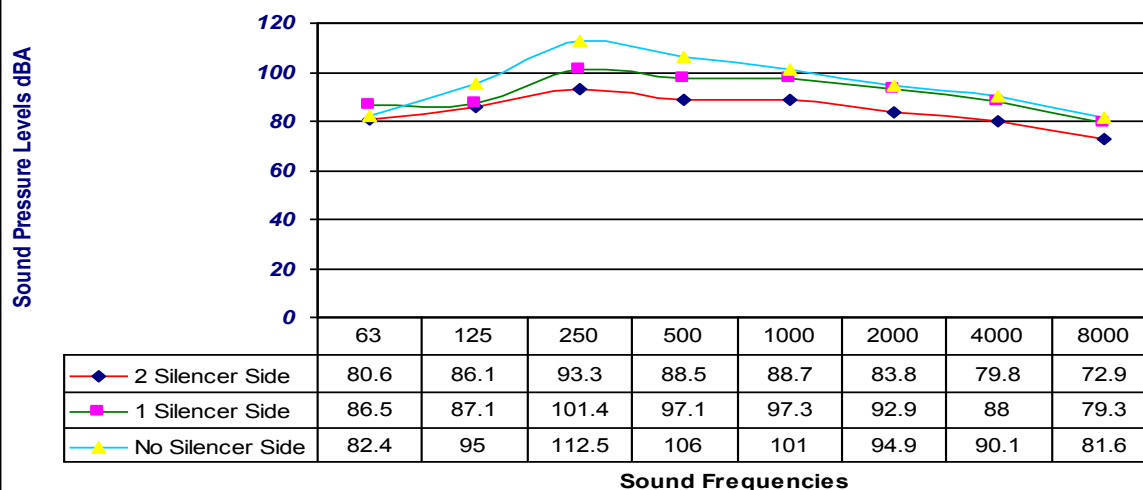
### 570MM DIAMETER FAN SILENCER

- ⇒ 570mm diameter casing
- ⇒ 1300mm long
- ⇒ 1,6mm casing thickness
- ⇒ 300WA Mild Steel
- ⇒ Flanges – 50x6
- ⇒ Fill – 475x50mm Energylite faced with black sonic liner and 60kg/m<sup>3</sup> Insulboard
- ⇒ Expanded metal – 6318F
- ⇒ Silencer Weight – 75 kg

**Sound Pressure Levels - 1 Meter from Outlet**



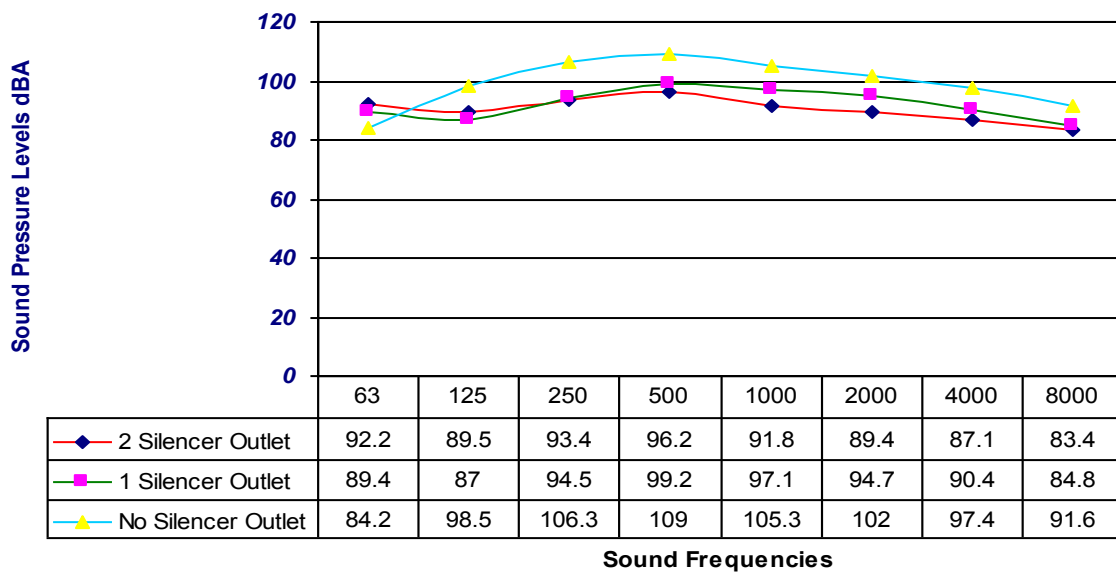
**Sound Pressure Levels - 1 Meter from Side**



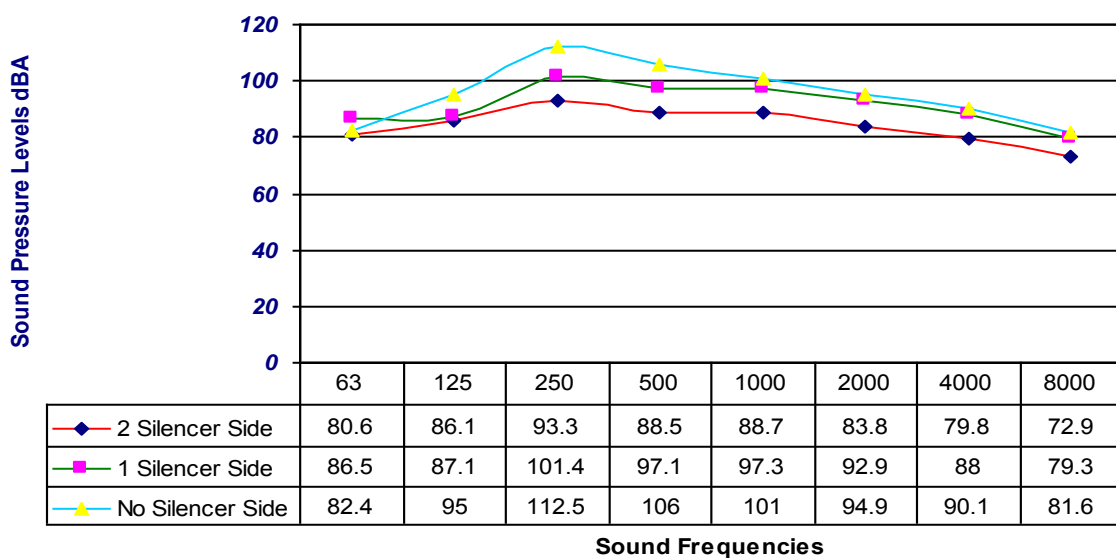
### 760MM DIAMETER FAN SILENCER

- ⇒ 760mm diameter casing
- ⇒ 1300mm long
- ⇒ 1,6mm casing thickness
- ⇒ 300WA Mild Steel
- ⇒ Flanges – 50x6
- ⇒ Fill – 475x50mm Energylite faced with black sonic liner and 60kg/m<sup>3</sup> Insulboard
- ⇒ Expanded metal – 6318F
- ⇒ Silencer Weight – 95.5 kg

**Sound Pressure Levels - 1 Meter from Outlet**



**Sound Pressure Levels - 1 Meter from Side**



**SOUND**

**ATTENUATED**

**AUXILIARY FANS**

### Item Components

- \* 406 mm diameter inner mild steel perforated plate casing
- \* 590 mm diameter outer mild steel casing
- \* 4.0 kW - 475 - 575 volt - 2 pole Padmount Motor
- \* Terminal box fitted with cable gland
- \* Mild steel impeller
- \* Mild steel perforated plate diffuser
- \* Screen on intake side
- \* Two mild steel Flanges
- \* Air movement, and impeller direction arrows
- \* Stiffening Bars
- \* Lifting lugs

### Options and Variations

- \* Fan can be fitted with intake and outlet screens
- \* Screens can be ordered to be galvanised
- \* Fan can be fitted with skids
- \* Fan can be made into "Airjet Type" - providing a greater velocity of air movement - typically used for front-end development

### Item Specifications

- \* Casing thickness: 5 mm
- \* Casing length: 1000 mm
- \* Unit weight: 180 kg
- \* 2980 R.P.M - IP55 - Class "F" insulation
- \* Locked rotor current: 9.5 Amps
- \* Absorbed power: 2.2 kW
- \* Terminal box fitted on exterior of casing
- \* Impeller is dynamically balanced
- \* Eighteen impeller blades
- \* Thirteen diffuser blades
- \* 10 mm flange thickness - width: 50 mm
- \* 6 Flange holes - 457 P.C.D.
- \* Fan Number positioning: either single spot, or two spots at 180 degrees apart
- \* Fan Numbering: either single welded or cut out of mild steel
- \* Paint Base Coat: Red Oxide Epoxy Primer
- \* First and Second Coat: Quick Drying Enamel
- \* Cable Gland: Number 1
- \* Terminal Block: D90

### Unit Price

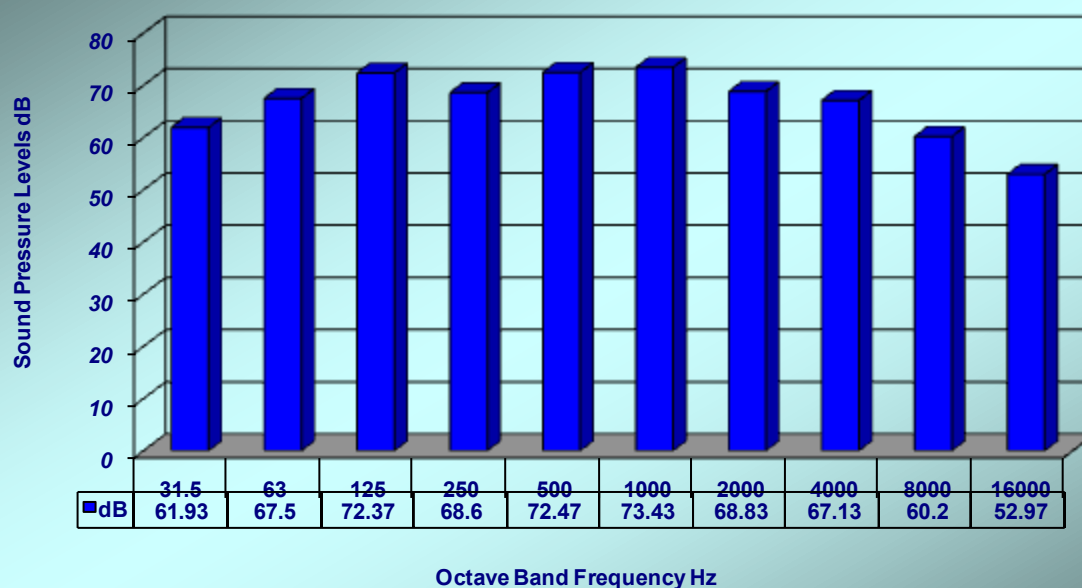
P.O.A.

### Fan Performance Curve

### Sound Pressure Levels



Sound Pressure Levels



The above results were independently measured by the S.A.B.S. Acoustic Service Division on our premises in November 2000. The readings were taken at three points, three meters from the unit, and averaged out to produce the above sound pressure graph.

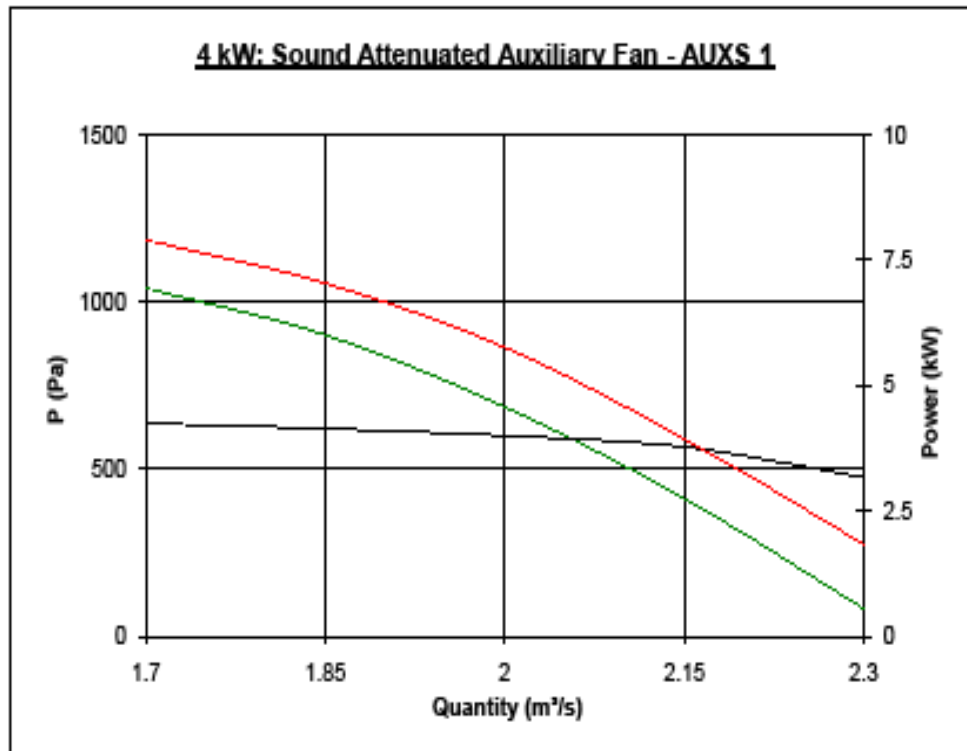


# AXIAL FLOW FANS

Reg. No. 2003/014903/07

Factory: 7 Boniface Road  
Selection Park Industrial Sites  
Springs  
Tel.: (011) 362-6808/9/10

Postal Address: P.O. Box 11302  
SELCOURT  
Springs  
Fax: (011) 815-2001



Fan Diameter: 406mm - inner

For Sound Pressure Levels - see accompanying test results.

Fan Density: 1.2kg/m³

**Key:**

Total Pressure: Red

Static Pressure: Green

kW / Power: Black

*Specifications with 0 silencers and 0 screens*

### Item Components

- \* 570 mm diameter inner mild steel perforated plate casing
- \* 730 mm diameter outer mild steel casing
- \* 7.5 kW - 475 - 575 volt - 2 pole Padmount Motor
- \* Terminal box fitted with cable gland
- \* Mild steel impeller
- \* Mild steel perforated plate diffuser
- \* Screen on intake side
- \* Two mild steel Flanges
- \* Air movement, and impeller direction arrows
- \* Stiffening Bars
- \* Lifting lugs

### Options and Variations

- \* Fan can be fitted with intake and outlet screens
- \* Screens can be ordered to be galvanised
- \* Fan can be fitted with skids
- \* Fan can be made into "Airjet Type" - providing a greater velocity of air movement - typically used for front-end development

### Item Specifications

- \* Casing thickness: 6 mm
- \* Casing length: 1500 mm
- \* Unit weight: 380 kg
- \* 2980 R.P.M - IP55 - Class "F" insulation
- \* Locked rotor current: 15.5 Amps
- \* Absorbed power: 5.5 kW
- \* Terminal box fitted on exterior of casing
- \* Impeller is dynamically balanced
- \* Eight impeller blades
- \* Eleven diffuser blades
- \* 12 mm flange thickness - width: 50 mm
- \* 9 Flange holes - 620 P.C.D.
- \* Fan Number positioning: either single spot, or two spots at 180 degrees apart
- \* Fan Numbering: either single welded or cut out of mild steel
- \* Paint Base Coat: Red Oxide Epoxy Primer
- \* First and Second Coat: Quick Drying Enamel
- \* Cable Gland: Number 1
- \* Terminal Block: D90

### Unit Price

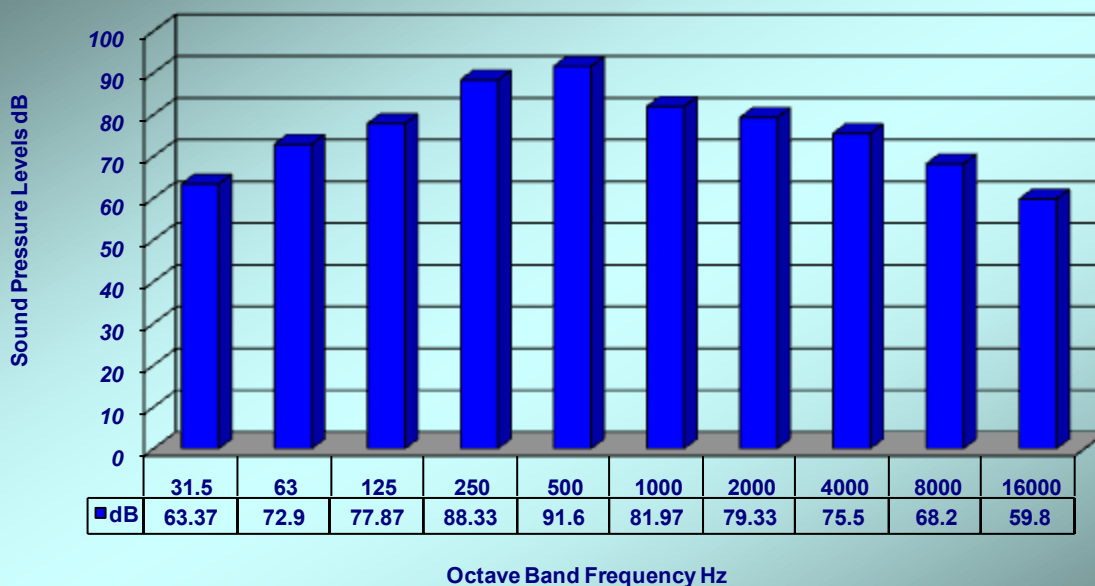
P.O.A.

### Fan Performance Curve

### Sound Pressure Levels



Sound Pressure Levels



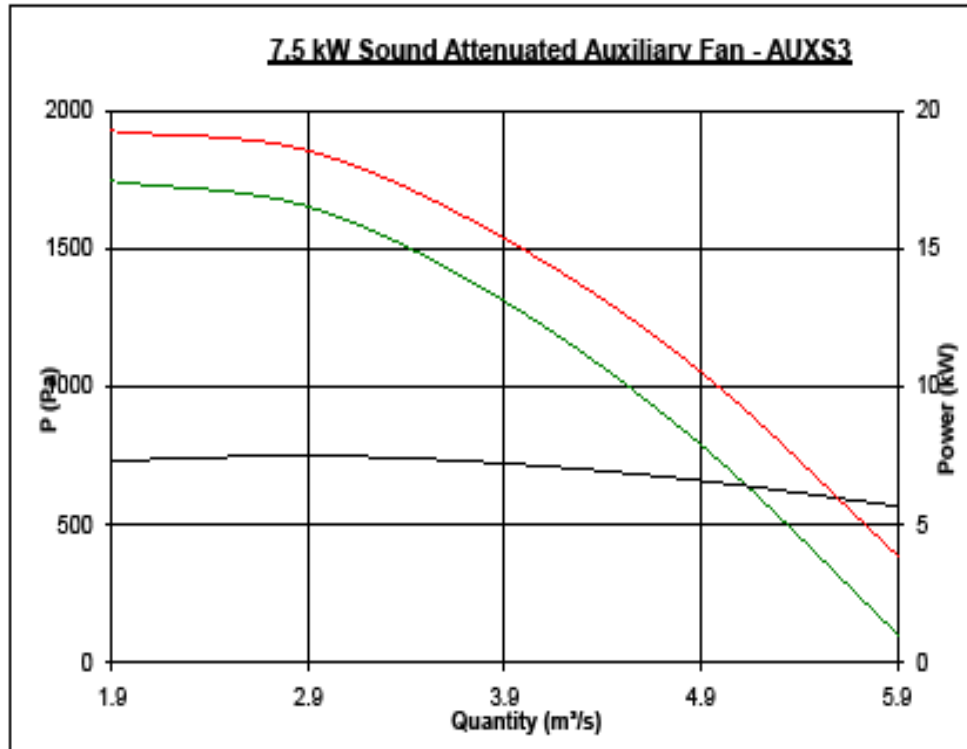
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Springs  
Fax: (011) 815-2001



Fan Diameter: 570mm - inner

For Sound Pressure Levels - see accompanying test results.

Fan Density: 1.2kg/m³

**Key:**

Total Pressure: Red

Static Pressure: Green

kW / Power: Black

*Specifications with 0 silencers and 0 screens*

### Item Components

- \* 570 mm diameter inner mild steel perforated plate casing
- \* 730 mm diameter outer mild steel casing
- \* 11.0 kW - 475 - 575 volt - 2 pole Padmount Motor
- \* Terminal box fitted with cable gland
- \* Mild steel impeller
- \* Mild steel perforated plate diffuser
- \* Screen on intake side
- \* Two mild steel Flanges
- \* Air movement, and impeller direction arrows
- \* Stiffening Bars
- \* Lifting lugs

### Options and Variations

- \* Fan can be fitted with intake and outlet screens
- \* Screens can be ordered to be Galvanised
- \* Fan can be fitted with skids
- \* Fan can be made into "Airjet Type" - providing a greater velocity of air movement - typically used for front-end development

### Item Specifications

- \* Casing thickness: 6 mm
- \* Casing length: 1500 mm
- \* Unit weight: 430 kg
- \* 2980 R.P.M - IP55 - Class "F" insulation
- \* Locked rotor current: 17.5 Amps
- \* Absorbed power: 7.5 kW
- \* Terminal box fitted on exterior of casing
- \* Impeller is dynamically balanced
- \* Sixteen impeller blades
- \* Eleven diffuser blades
- \* 12 mm flange thickness - width: 50 mm
- \* 9 Flange holes - 622 P.C.D.
- \* Fan Number positioning: either single spot, or two spots at 180 degrees apart
- \* Fan Numbering: either single welded or cut out of mild steel
- \* Paint Base Coat: Red Oxide Epoxy Primer
- \* First and Second Coat: Quick Drying Enamel
- \* Cable Gland: Number 2
- \* Terminal Block: D90

### Unit Price

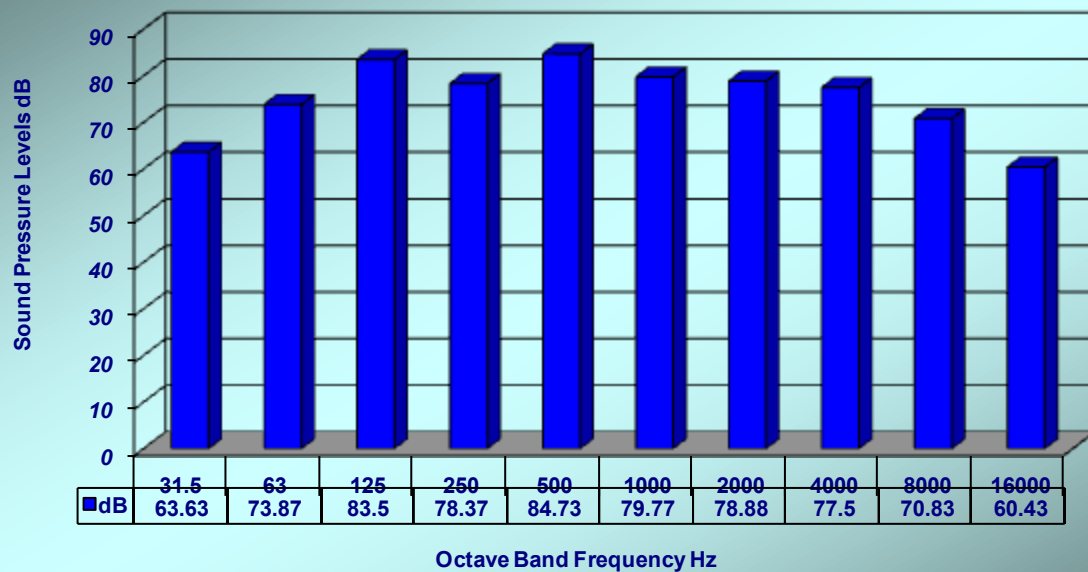
P.O.A.

### Fan Performance Curve

### Sound Pressure Levels



### Sound Pressure Levels



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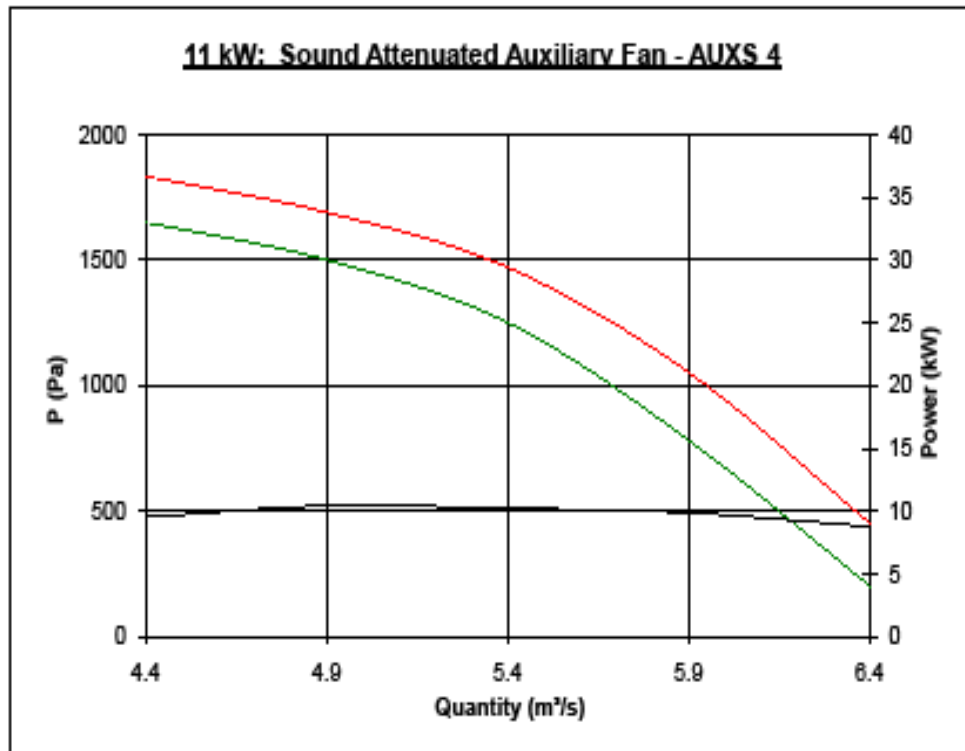


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Postal Address: P.O. Box 11302  
SEL COURT  
Springs  
Fax: (011) 815-2001



Fan Diameter: 570mm - inner

For Sound Pressure Levels - see accompanying test results.

Fan Density: 1.2kg/m³

**Key:**

Total Pressure: Red

Static Pressure: Green

kW / Power: Black



### Item Components

- \* 570 mm diameter inner mild steel perforated plate casing
- \* 730 mm diameter outer mild steel casing
- \* 15.0 kW - 475 - 575 volt - 2 pole Padmount Motor
- \* Terminal box fitted with cable gland
- \* Mild steel impeller
- \* Mild steel perforated plate diffuser
- \* Screen on intake side
- \* Two mild steel Flanges
- \* Air movement, and impeller direction arrows
- \* Stiffening Bars
- \* Lifting lugs

### Options and Variations

- \* Fan can be fitted with intake and outlet screens
- \* Screens can be ordered to be Galvanised
- \* Fan can be fitted with skids
- \* Fan can be made into "Airjet Type" - providing a greater velocity of air movement - typically used for front-end development

### Item Specifications

- \* Casing thickness: 6 mm
- \* Casing length: 1500 mm
- \* Unit weight: 440 kg
- \* 2980 R.P.M - IP55 - Class "F" insulation
- \* Locked rotor current: 24.5 Amps
- \* Absorbed power: 9.5 kW
- \* Terminal box fitted on exterior of casing
- \* Impeller is dynamically balanced
- \* Sixteen impeller blades
- \* Ten diffuser blades
- \* 12 mm flange thickness - width: 50 mm
- \* 8 Flange holes - 620 P.C.D.
- \* Fan Number positioning: either single spot, or two spots at 180 degrees apart
- \* Fan Numbering: either single welded or cut out of mild steel
- \* Paint Base Coat: Red Oxide Epoxy Primer
- \* First and Second Coat: Quick Drying Enamel
- \* Cable Gland: Number 2
- \* Terminal Block: D90

### Unit Price

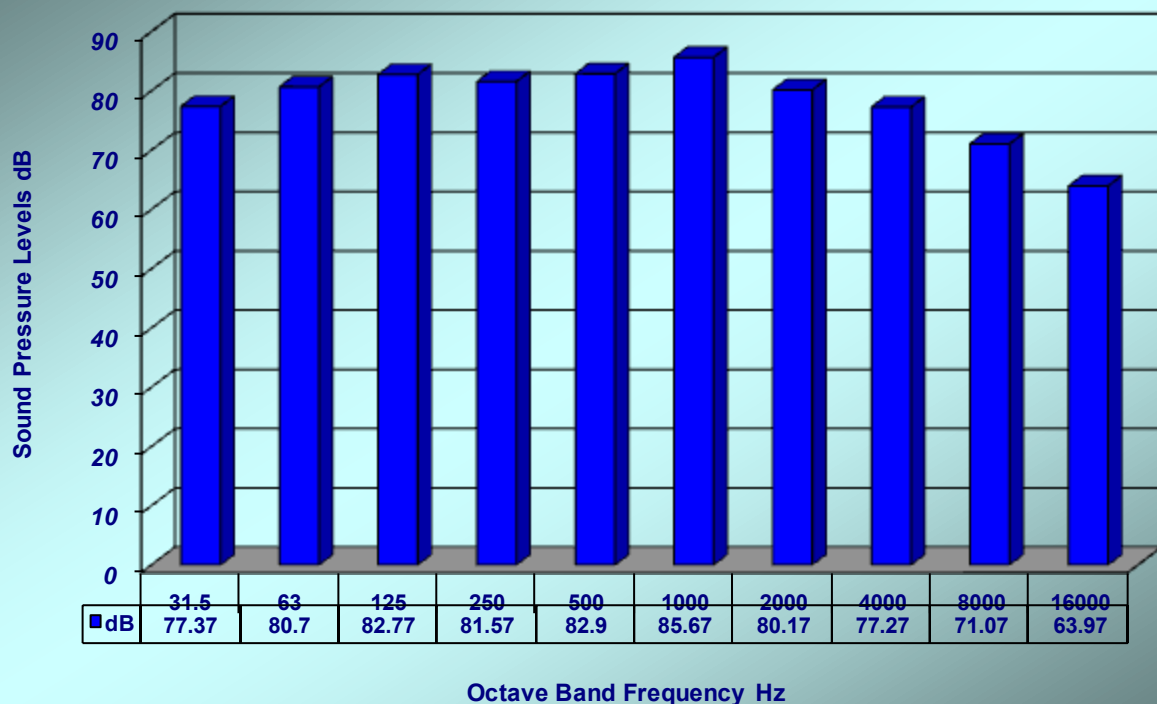
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### Fan Performance Curve

### Sound Pressure Levels



Sound Pressure Levels



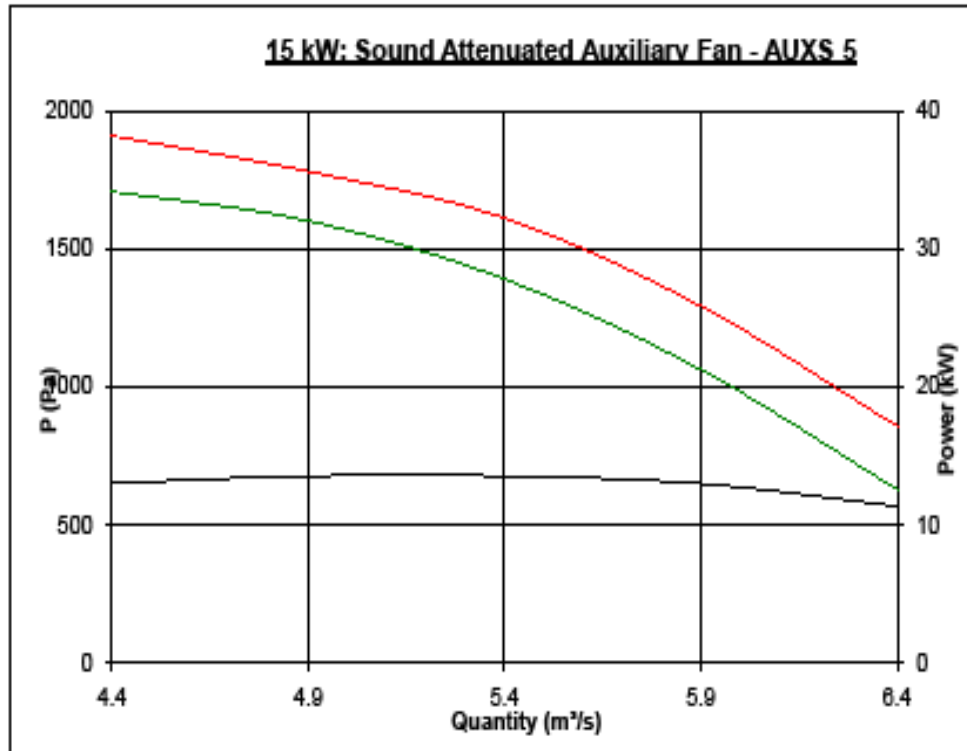
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Tel.: (011) 362-6808/9/10

Postal Address: P.O. Box 11302  
SELCOURT  
Springs  
Fax: (011) 815-2001




Fan Inner Diameter: 570mm - inner

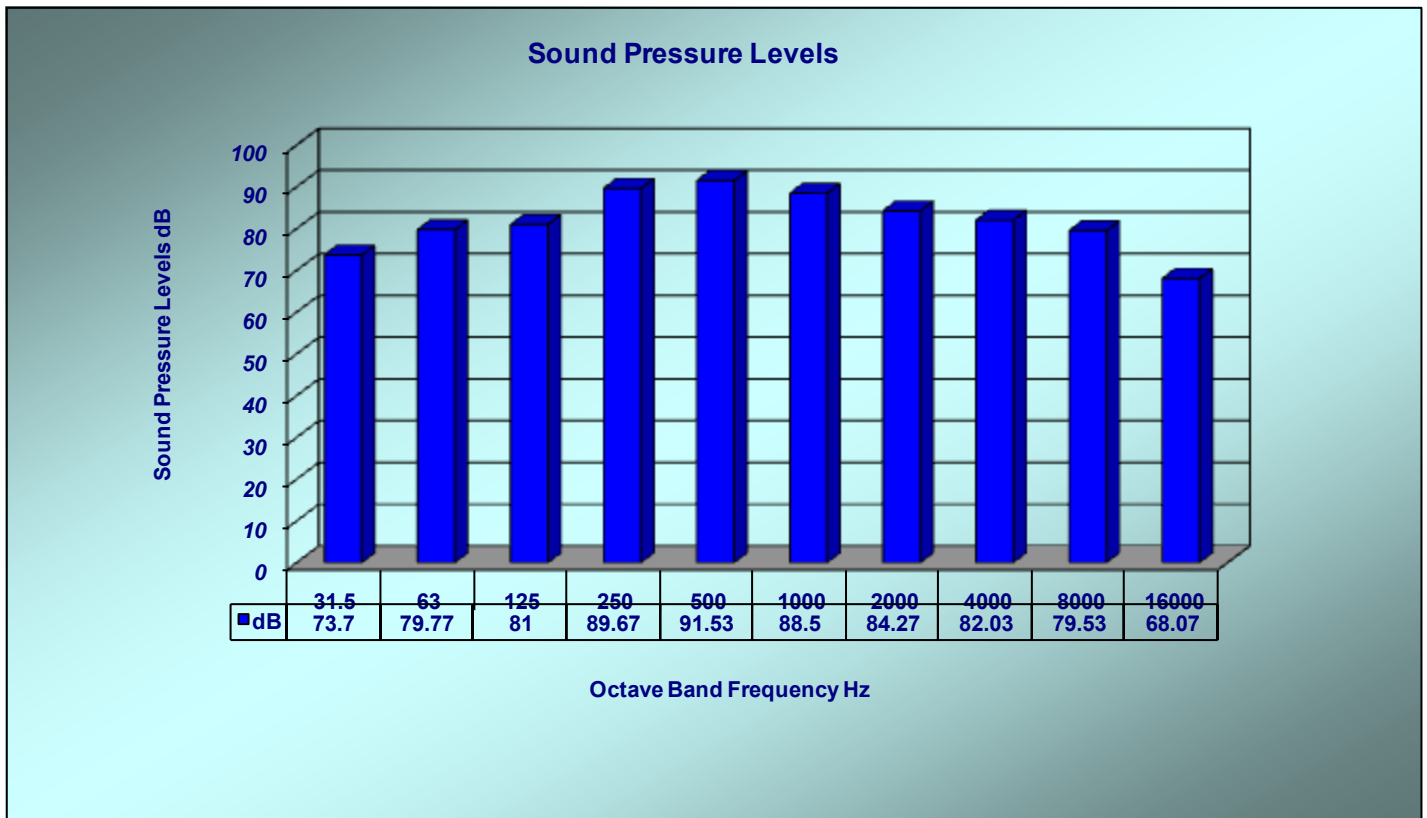
For Sound Pressure Levels - see accompanying test results.

Fan Density: 1.2kg/m³

**Key:**

Total Pressure: Red  
Static Pressure: Green  
kW / Power: Black

Item Components	Item Specifications	Unit Price
<ul style="list-style-type: none"> <li>* 570 OR 760 mm diameter inner mild steel perforated plate casing</li> <li>* 730 or 950 mm diameter outer mild steel casing</li> <li>* 18.5 kW - 475 - 575 volt - 2 pole Padmount Motor</li> <li>* Terminal box fitted with cable gland</li> <li>* Mild steel impeller</li> <li>* Mild steel perforated plate diffuser</li> <li>* Screen on intake side</li> <li>* Two mild steel Flanges</li> <li>* Air movement, and impeller direction arrows</li> <li>* Stiffening Bars</li> <li>* Lifting lugs</li> </ul>	<ul style="list-style-type: none"> <li>* Casing thickness: 6 mm</li> <li>* Casing length: 1500 mm</li> <li>* Unit weight: 525 kg</li> <li>* 2980 R.P.M - IP55 - Class "F" insulation</li> <li>* Locked rotor current: 31.5 Amps</li> <li>* Absorbed power: 12.0 kW</li> <li>* Terminal box fitted on exterior of casing</li> <li>* Impeller is dynamically balanced</li> <li>* Sixteen impeller blades</li> <li>* Eleven diffuser blades</li> <li>* 12 mm flange thickness - width: 50 mm</li> <li>* 9 or 12 Flange holes - 622 or 812 P.C.D.</li> <li>* Fan Number positioning: either single spot, or two spots at 180 degree apart</li> <li>* Fan Numbering: either single welded or cut out of mild steel</li> <li>* Paint Base Coat: Red Oxide Epoxy Primer</li> <li>* First and Second Coat: Quick Drying Enamel</li> <li>* Cable Gland: Number 2</li> <li>* Terminal Block: D160</li> </ul>	<div>P.O.A.</div> <div>Fan Performance Curve</div> <div>Sound Pressure Levels</div> 
Options and Variations		
<ul style="list-style-type: none"> <li>* Fan can be fitted with intake and outlet screens</li> <li>* Screens can be ordered to be Galvanised</li> <li>* Fan can be fitted with skids</li> <li>* Fan can be made into "Airjet Type" - providing a greater velocity of air movement - typically used for front-end development</li> </ul>		



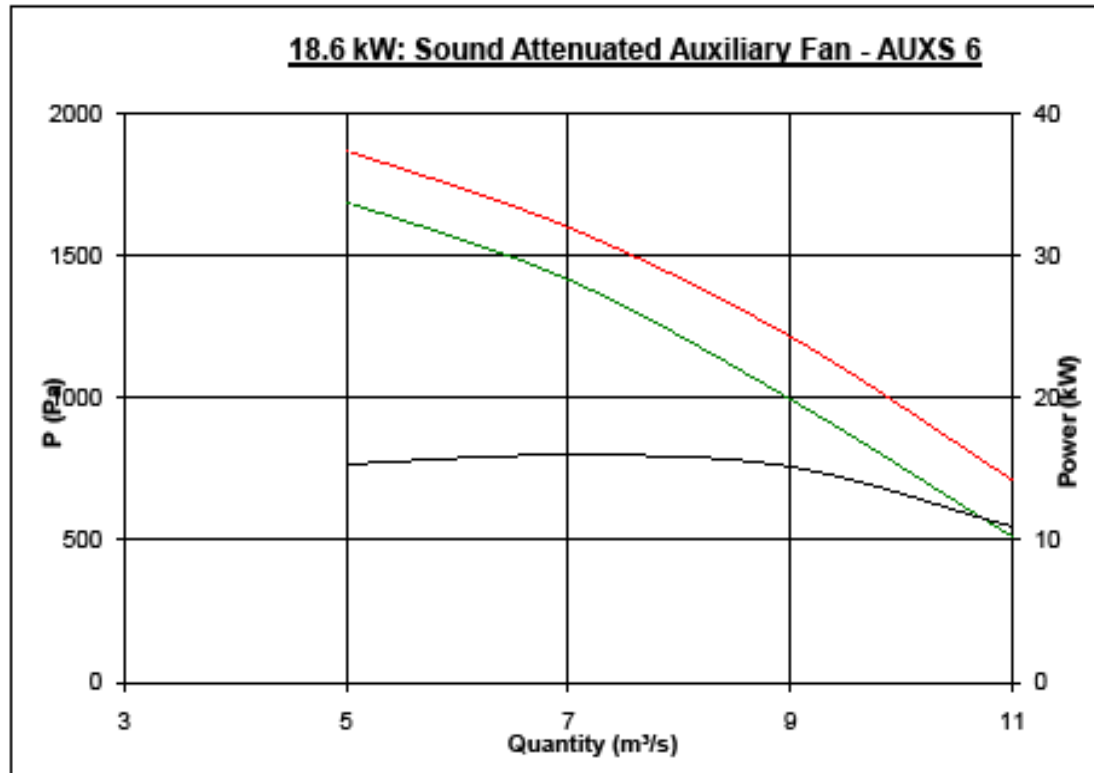
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Springs  
Tel.: (011) 362-6808/9/10

Postal Address: P.O. Box 11302  
SELCOURT  
Springs  
Fax: (011) 815-2001



Fan Diameter: **760mm - inner diameter**  
For Sound Pressure Levels - see accompanying test results.


Fan Density: **1.2kg/m³**

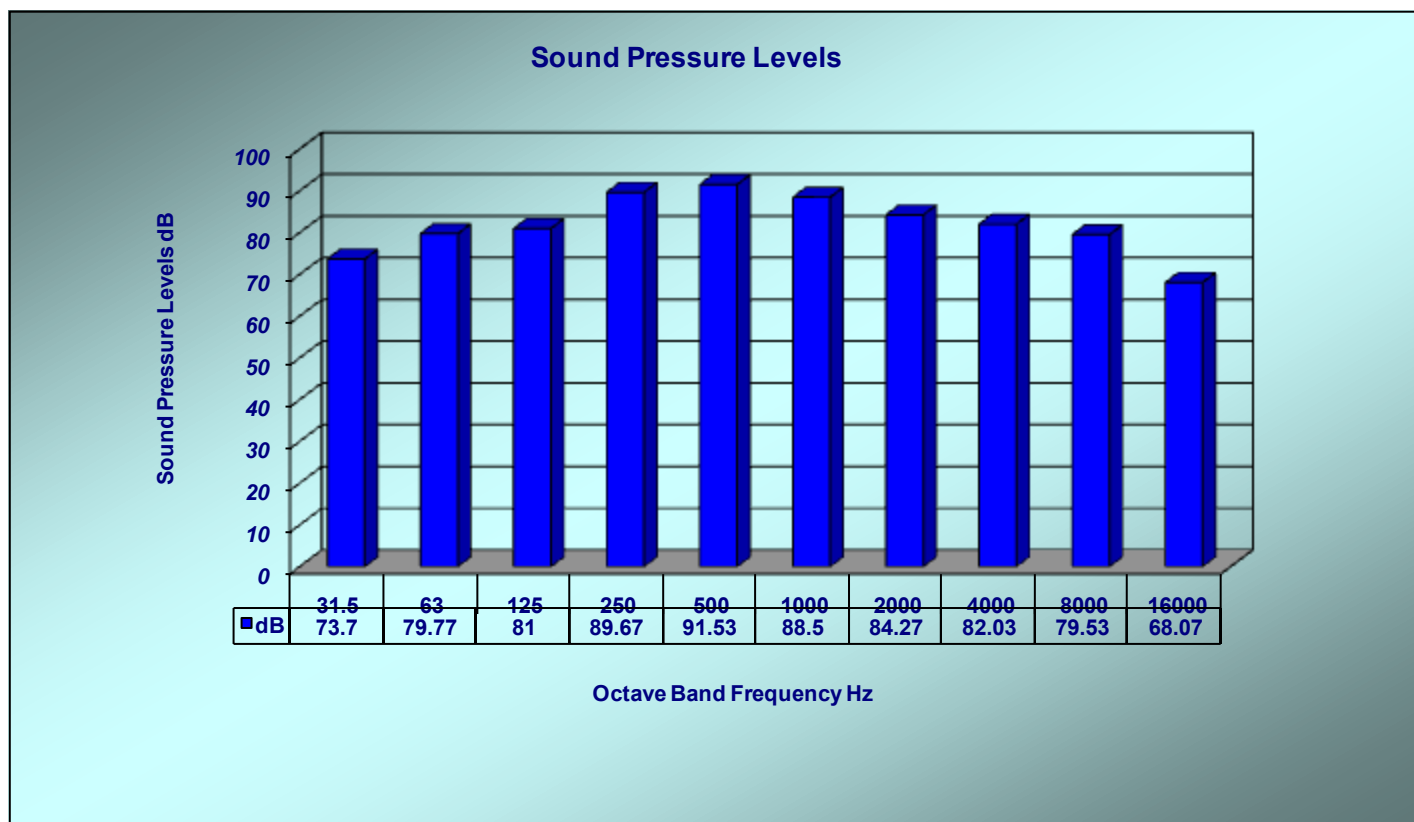
**Key:**

Total Pressure: **Red**  
Static Pressure: **Green**  
kW / Power: **Black**

***Specifications with 0 silencers and 0 screens***



Item Components	Item Specifications	Unit Price
<ul style="list-style-type: none"> <li>* 760 mm diameter inner mild steel perforated plate casing</li> <li>* 950 mm diameter outer mild steel casing</li> <li>* 22.0 kW - 475 - 575 volt - 2 pole Padmount Motor</li> <li>* Terminal box fitted with cable gland</li> <li>* Mild steel impeller</li> <li>* Mild steel perforated plate diffuser</li> <li>* Screen on intake side</li> <li>* Two mild steel Flanges</li> <li>* Air movement, and impeller direction arrows</li> <li>* Stiffening Bars</li> <li>* Lifting lugs</li> </ul>	<ul style="list-style-type: none"> <li>* Casing thickness: 6 mm</li> <li>* Casing length: 1480 mm</li> <li>* Unit weight: 540 kg</li> <li>* 2980 R.P.M - IP55 - Class "F" insulation</li> <li>* Locked rotor current: 38.5 Amps</li> <li>* Absorbed power: 15.5 kW</li> <li>* Terminal box fitted on exterior of casing</li> <li>* Impeller is dynamically balanced</li> <li>* Five impeller blades</li> <li>* Ten diffuser blades</li> <li>* 12 mm flange thickness - width: 50 mm</li> <li>* 12 Flange holes - 808 P.C.D.</li> <li>* Fan Number positioning: either single spot, or two spots at 180 degree apart</li> <li>* Fan Numbering: either single welded or cut out of mild steel</li> <li>* Paint Base Coat: Red Oxide Epoxy Primer</li> <li>* First and Second Coat: Quick Drying Enamel</li> <li>* Cable Gland: Number 2</li> <li>* Terminal Block: D160</li> </ul>	<div>P.O.A.</div> <div>Fan Performance Curve</div> <div>Sound Pressure Levels</div> 
Options and Variations		
<ul style="list-style-type: none"> <li>* Fan can be fitted with intake and outlet screens</li> <li>* Screens can be ordered to be Galvanised</li> <li>* Fan can be fitted with skids</li> <li>* Fan can be made into "Airjet Type" - providing a greater velocity of air movement - typically used for front-end development</li> </ul>		



The above results were independently measured by the S.A.B.S. Accoustic Service Division on our premises in November 2000. The readings were taken at three points, three meters from the unit, and averaged out to produce the above sound pressure graph.

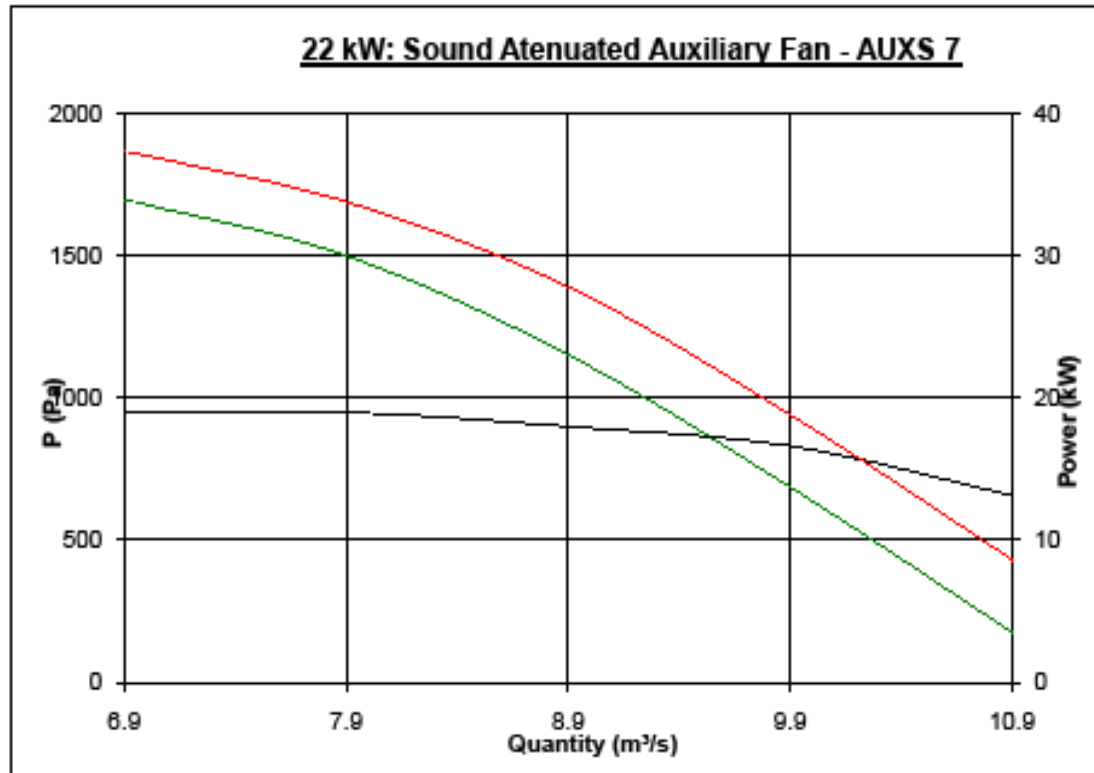


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Selection Park Industrial Sites  
Springs  
Tel.: (011) 362-6808/9/10

Postal Address: P.O. Box 11302  
SELCOURT  
Springs  
Fax: (011) 815-2001




Fan Diameter: **760mm - inner**  
For Sound Pressure Levels - see accompanying test results.

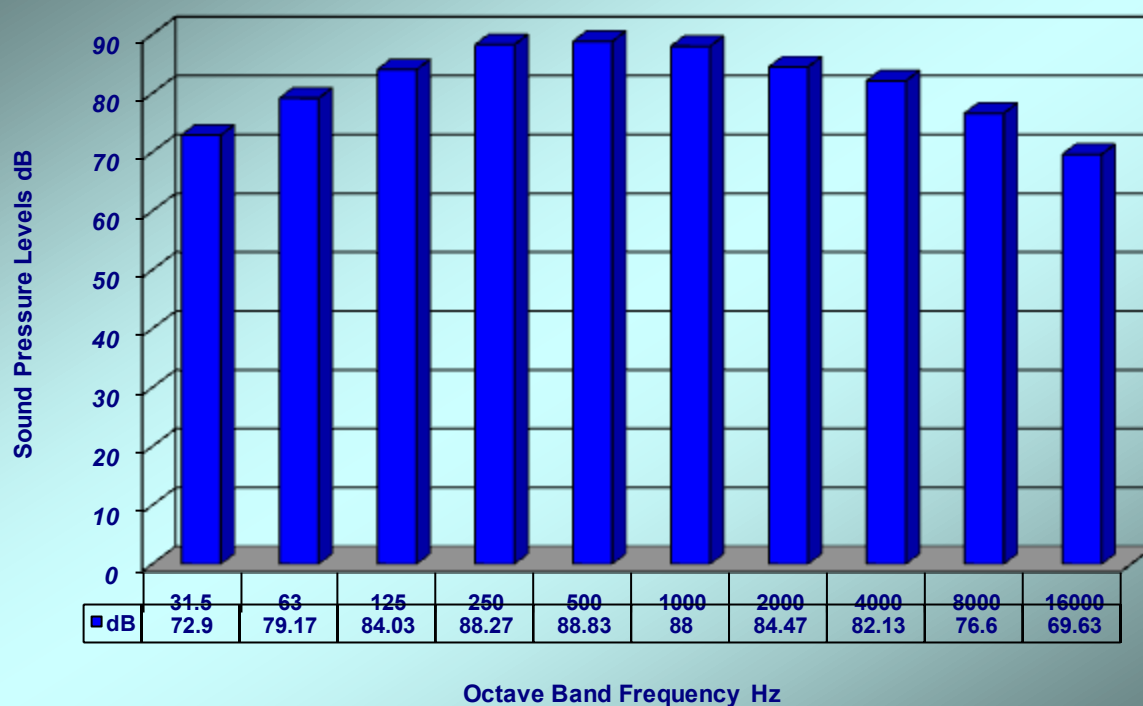
Fan Density: **1.2kg/m³**

**Key:**

Total Pressure: **Red**  
Static Pressure: **Green**  
kW / Power: **Black**

Item Components	Item Specifications	Unit Price
<ul style="list-style-type: none"> <li>* 760 mm diameter inner mild steel perforated plate casing</li> <li>* 950 mm diameter outer mild steel casing</li> <li>* 45.0 kW - 475 - 575 volt - 2 pole Padmount Motor</li> <li>* Terminal box fitted with cable gland</li> <li>* Mild steel impeller</li> <li>* Mild steel perforated plate diffuser</li> <li>* Screen on intake side</li> <li>* Two mild steel Flanges</li> <li>* Air movement, and impeller direction arrows</li> <li>* Stiffening Bars</li> <li>* Lifting lugs</li> </ul>	<ul style="list-style-type: none"> <li>* Casing thickness: 6 mm</li> <li>* Casing length: 2180 mm</li> <li>* Unit weight: 820 kg</li> <li>* 2980 R.P.M - IP55 - Class "F" insulation</li> <li>* Locked rotor current: 60.5 Amps</li> <li>* Absorbed power: 31.5 kW</li> <li>* Terminal box fitted on exterior of casing</li> <li>* Impeller is dynamically balanced</li> <li>* Five impeller blades</li> <li>* Ten diffuser blades</li> <li>* 12 mm flange thickness - width: 50 mm</li> <li>* 12 Flange holes - 808 P.C.D.</li> <li>* Fan Number positioning: either single spot, or two spots at 180 degrees apart</li> <li>* Fan Numbering: either single welded or cut out of mild steel</li> <li>* Paint Base Coat: Red Oxide Epoxy Primer</li> <li>* First and Second Coat: Quick Drying Enamel</li> <li>* Cable Gland: Number 2</li> <li>* Terminal Block: D160</li> </ul>	<div>P.O.A.</div> <div>Fan Performance Curve</div> <div>Sound Pressure Levels</div> 
Options and Variations		
<ul style="list-style-type: none"> <li>* Fan can be fitted with intake and outlet screens</li> <li>* Screens can be ordered to be Galvanised</li> <li>* Fan can be fitted with skids</li> <li>* Fan can be made into "Airjet Type" - providing a greater velocity of air movement - typically used for front-end development</li> </ul>		

**Sound Pressure Levels**



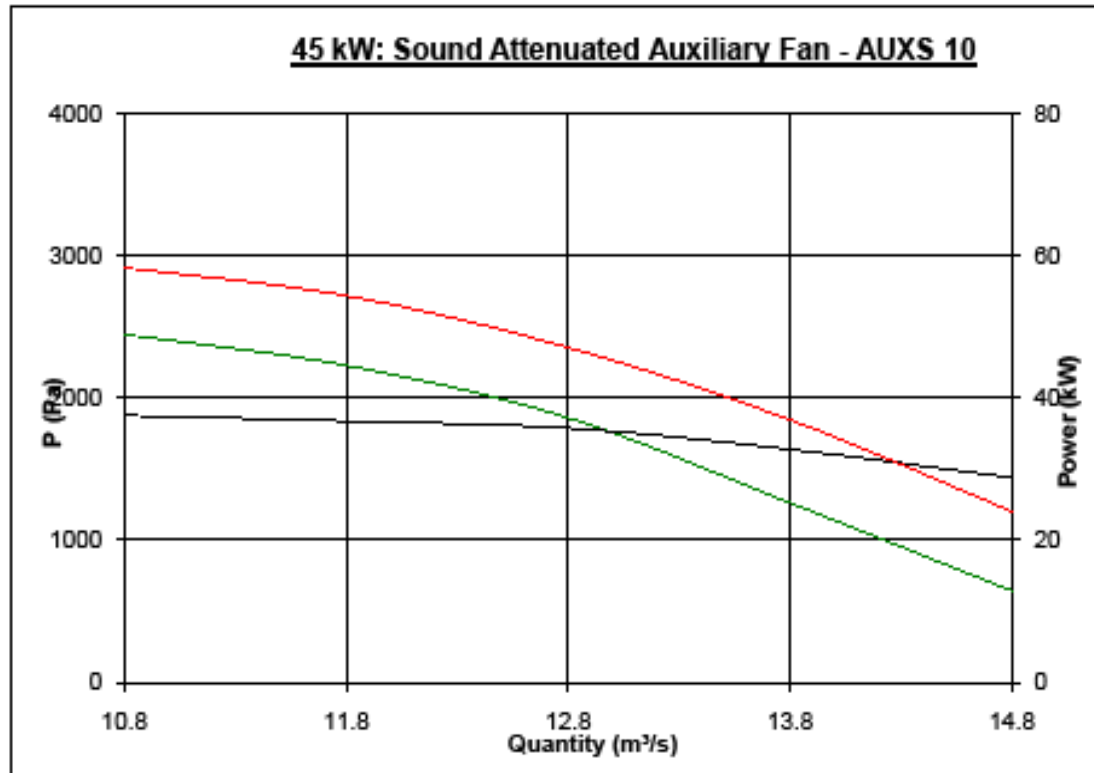
The above results were independently measured by the S.A.B.S. Accoustic Service Division on our premises in November 2000. The readings were taken at three points, three meters from the unit, and averaged out to produce the above sound pressure graph.

# AXIAL FLOW FANS

Reg. No. 2003/014903/07

Factory: 7 Boniface Road  
Selection Park Industrial Sites  
Springs  
Tel.: (011) 362-6808/9/10

Postal Address: P.O. Box 11302  
SELCOURT  
Springs  
Fax: (011) 815-2001




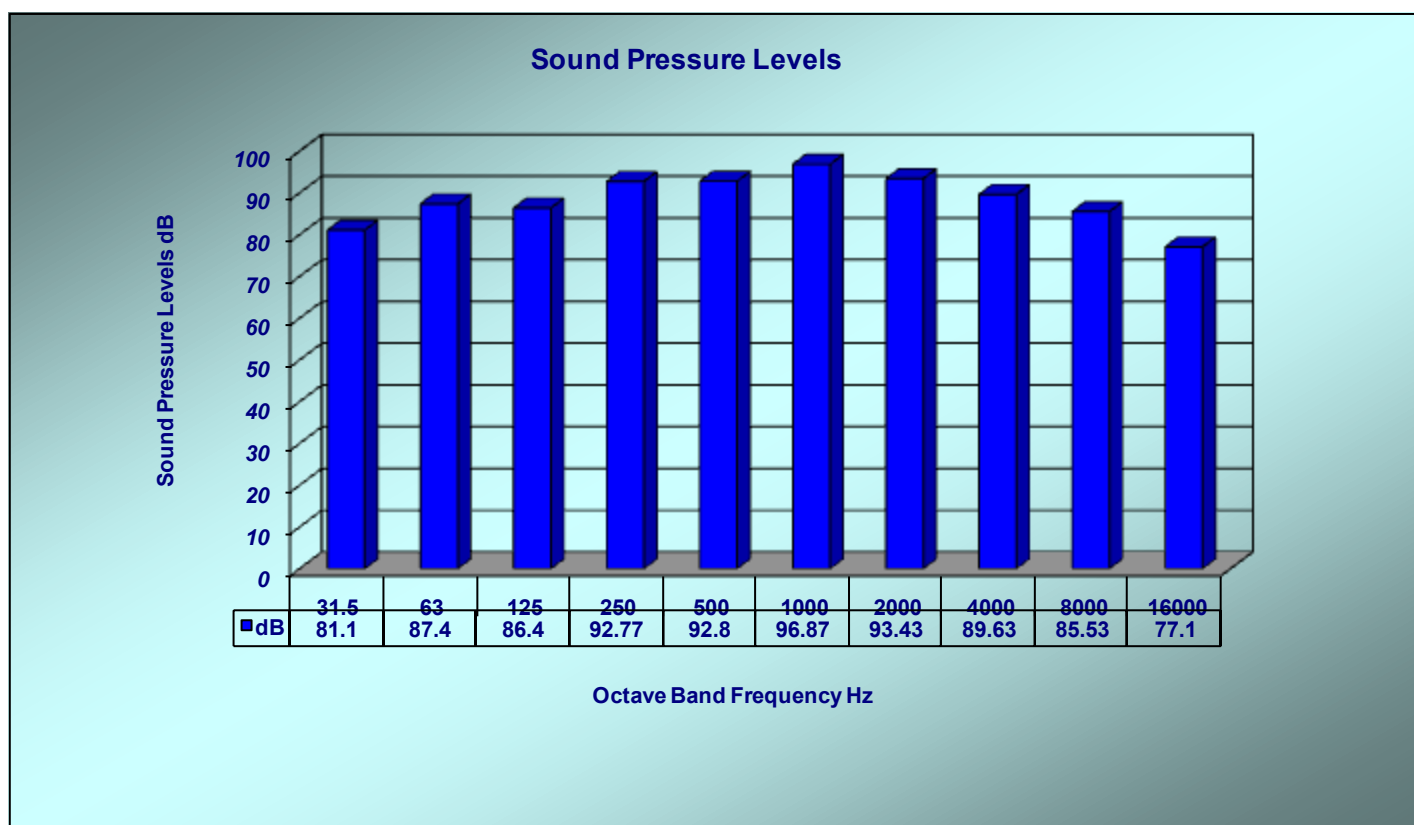
Fan Inner Diameter: **760mm - inner**  
For Sound Pressure Levels - see accompanying test results.

Fan Density: **1.2kg/m³**

**Key:**

Total Pressure: **Red**  
Static Pressure: **Green**  
kW / Power: **Black**

Item Components	Item Specifications	Unit Price
<ul style="list-style-type: none"> <li>* 1016 mm diameter inner mild steel perforated plate casing</li> <li>* 1216 mm diameter outer mild steel casing</li> <li>* 75.0 kW - 475 - 575 volt - 2 pole Padmount Motor</li> <li>* Terminal box fitted with cable gland</li> <li>* Mild steel impeller</li> <li>* Mild steel diffuser</li> <li>* Screen on intake side</li> <li>* Two mild steel Flanges</li> <li>* Air movement, and impeller direction arrows</li> <li>* Stiffening Bars</li> <li>* Lifting lugs</li> </ul>	<ul style="list-style-type: none"> <li>* Casing thickness: 6 mm</li> <li>* Casing length: 2180 mm</li> <li>* Unit weight: 960 kg</li> <li>* 2980 R.P.M - IP55 - Class "F" insulation</li> <li>* Locked rotor current: 110.0 Amps</li> <li>* Absorbed power: 54.0 kW</li> <li>* Terminal box fitted on exterior of casing</li> <li>* Impeller is dynamically balanced</li> <li>* Six impeller blades</li> <li>* Eight diffuser blades</li> <li>* 12 mm flange thickness - width: 50 mm</li> <li>* 15 Flange holes - 1060 P.C.D.</li> <li>* Fan Number positioning: either single spot, or two spots at 180 degrees apart</li> <li>* Fan Numbering: either single welded or cut out of mild steel</li> <li>* Paint Base Coat: Red Oxide Epoxy Primer</li> <li>* First and Second Coat: Quick Drying Enamel</li> <li>* Cable Gland: Number 3</li> <li>* Terminal Block: D225</li> </ul>	<div>P.O.A.</div> <div>Fan Performance Curve</div> <div>Sound Pressure Levels</div> 
Options and Variations		
<ul style="list-style-type: none"> <li>* Fan can be fitted with intake and outlet screens</li> <li>* Screens can be ordered to be Galvanised</li> <li>* Fan can be fitted with skids</li> <li>* Fan can be made into "Airjet Type" - providing a greater velocity of air movement - typically used for front-end development</li> </ul>		



The above results were independently measured by the S.A.B.S. Accoustic Service Division on our premises in November 2000. The readings were taken at three points, three meters from the unit, and averaged out to produce the above sound pressure graph.

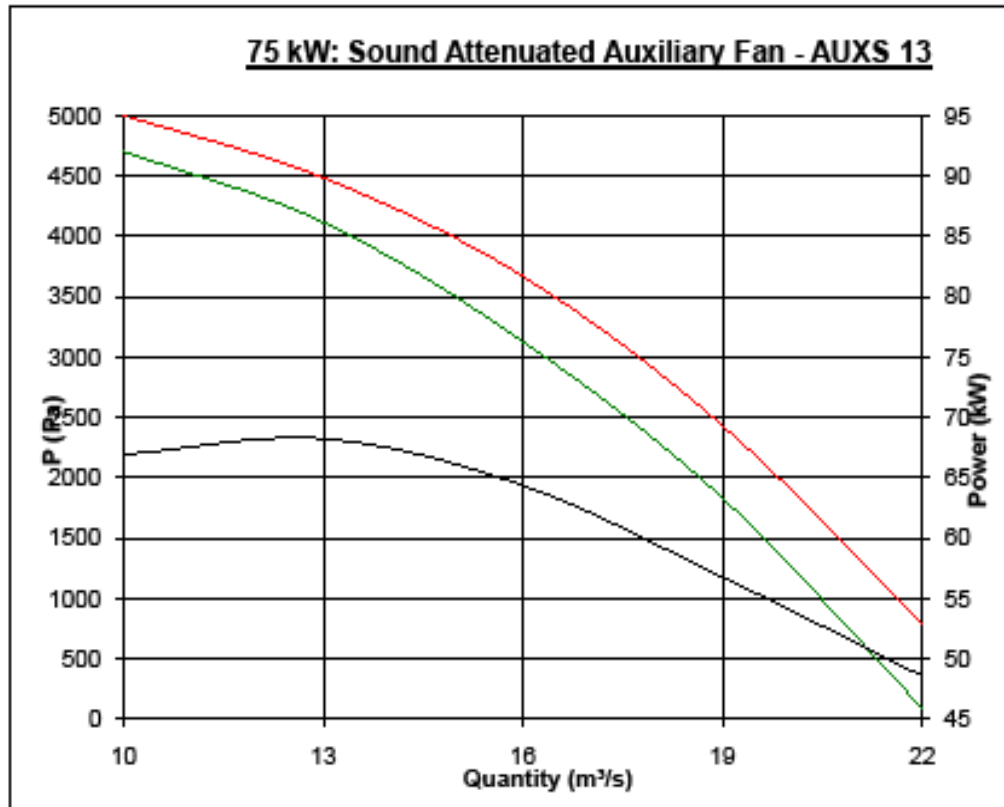


# AXIAL FLOW FANS

Reg. No. 2003/014903/07

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Tel.: (011) 362-6808/9/10

Postal Address: P.O. Box 11302  
SELCOURT  
Springs  
Fax: (011) 815-2001



Fan Diameter: **1016mm**  
For Sound Pressure Levels - see attached data

Fan Density: **1.4kg/m³**

**Key:**  
Total Pressure: **Red**  
Static Pressure: **Green**  
kW / Power: **Black**

**Specifications with 0 silencers and 0 screens**



**STANDARD**

**AUXILIARY**

**FANS**

### Item Components

- \* 305 mm diameter mild steel casing
- \* 0.75 kW - 475 - 575 volt - 2 pole Padmount Motor
- \* Terminal box fitted with cable gland
- \* Mild steel impeller
- \* Mild steel diffuser
- \* Screen on intake side
- \* Three mild steel Flanges
- \* Air movement, and impeller direction arrows
- \* Lifting lugs

### Item Specifications

- \* Casing thickness: 6 mm
- \* Casing length: 520 mm
- \* Unit weight: 40 kg
- \* 2980 R.P.M - IP55 - Class "F" insulation
- \* Locked rotor current: 0.6 Amps
- \* Absorbed power: 0.45 kW
- \* Terminal box fitted on exterior of casing
- \* Impeller is dynamically balanced
- \* Seven impeller blades
- \* Four diffuser blades - 3 mm thick
- \* 10 mm flange thickness - width: 40 mm
- \* 4 Flange holes - 356 P.C.D.
- \* Fan Number positioning: either single spot, or two spots at 180 degree apart
- \* Fan Numbering: either single welded or cut out of mild steel
- \* Paint Base Coat: Red Oxide Epoxy Primer
- \* First and Second Coat: Quick Drying Enamel
- \* Cable Gland: Number 0
- \* Terminal Block: D90

### Unit Price

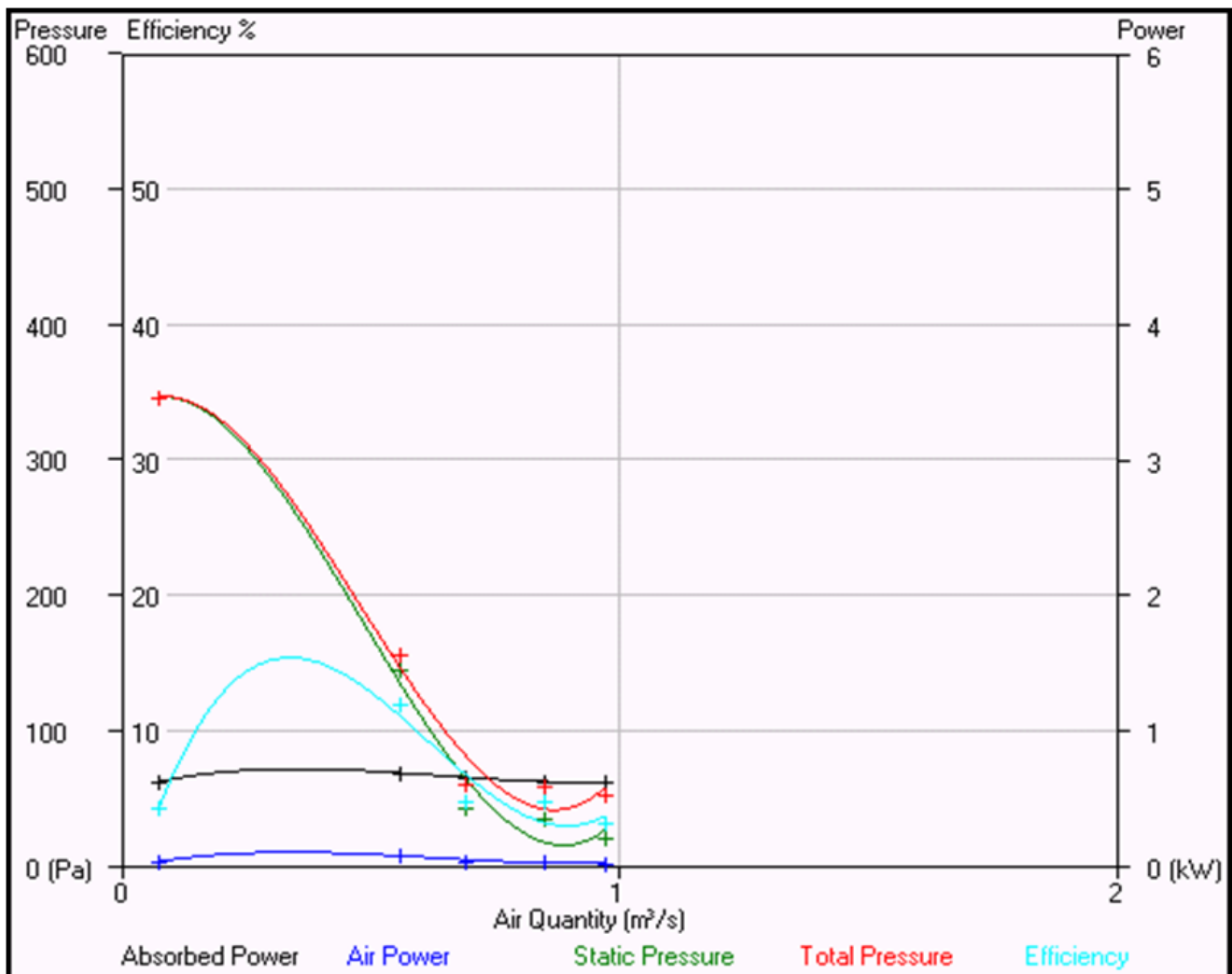
P.O.A.

### Fan Performance Curve



### Options and Variations

- \* Fan can be fitted with intake and outlet screens
- \* Screens can be ordered to be Galvanised
- \* Fan can be fitted with skids
- \* Fan can be made into a "Silenced Fan" - whereby the silencers are built into the casing of the actual fan
- \* Fan can be made into "Airjet Type" - providing a greater velocity of air movement - typically used for front-end development
- \* Fan can be fitted with 305 mm diameter Fan Silencers



### Item Components

- \* 406 mm diameter mild steel casing
- \* 4.0 kW - 475 - 575 volt - 2 pole Padmount Motor
- \* Terminal box fitted with cable gland
- \* Mild steel impeller
- \* Mild steel diffuser
- \* Screen on intake side
- \* Three mild steel Flanges
- \* Air movement, and impeller direction arrows
- \* Lifting lugs

### Options and Variations

- \* Fan can be fitted with intake and outlet screens
- \* Screens can be ordered to be galvanised
- \* Fan can be fitted with skids
- \* Fan can be made into a "Silenced Fan" - whereby the silencers are built into the casing of the actual fan
- \* Fan can be made into "Airjet Type" - providing a greater velocity of air movement - typically used for front-end development
- \* Fan can be fitted with 406 mm diameter Fan Silencers

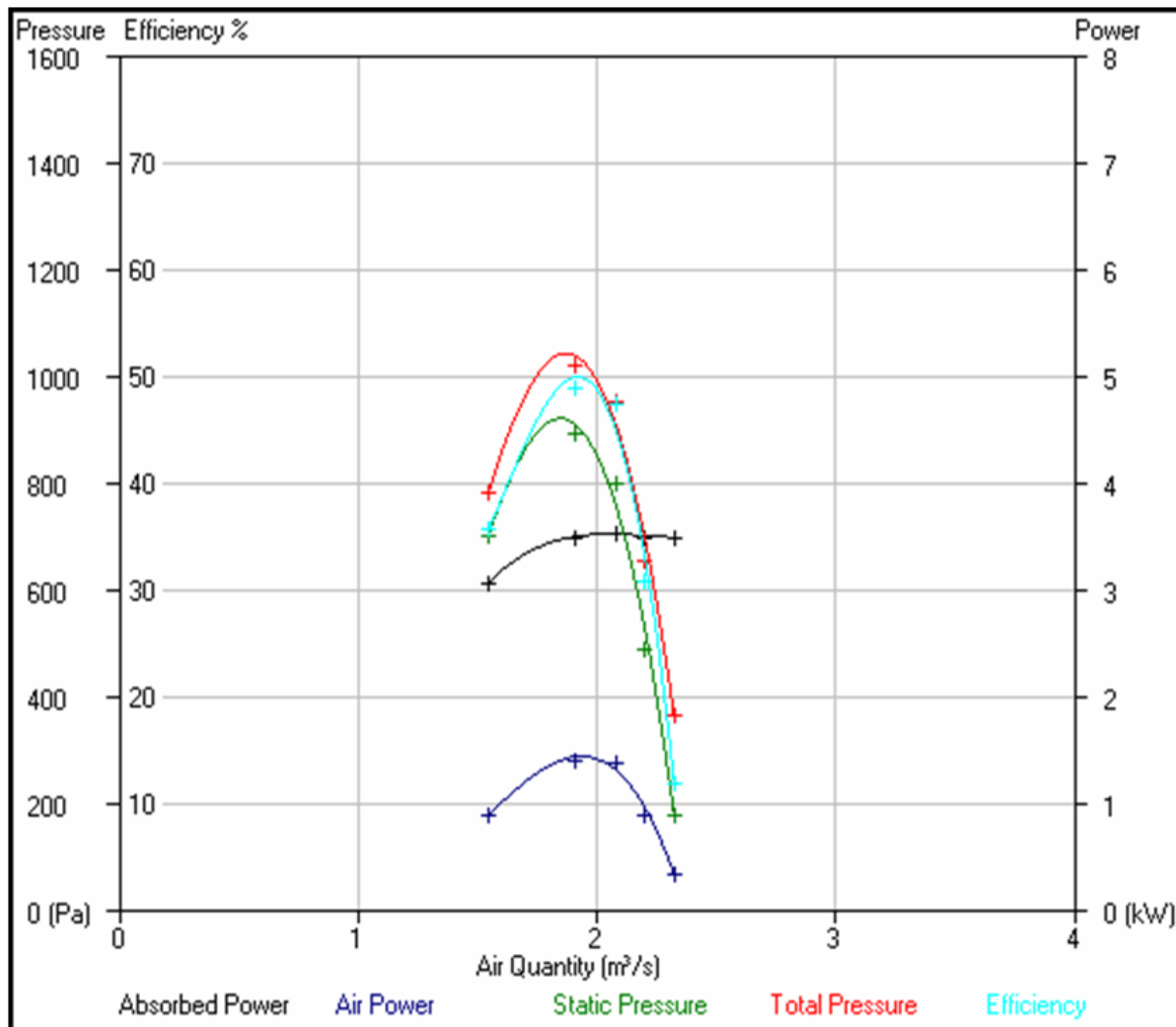
### Item Specifications

- \* Casing thickness: 6 mm
- \* Casing length: 750 mm
- \* Unit weight: 120 kg
- \* 2980 R.P.M - IP55 - Class "F" insulation
- \* Locked rotor current: 9.5 Amps
- \* Absorbed power: 2.2 kW
- \* Terminal box fitted on exterior of casing
- \* Impeller is dynamically balanced
- \* Eight impeller blades
- \* Eleven diffuser blades - 3 mm thick
- \* 10 mm flange thickness - width: 50 mm
- \* 6 Flange holes - 457 P.C.D.
- \* Fan Number positioning: either single spot, or two spots at 180 degrees apart
- \* Fan Numbering: either single welded or cut out of mild steel
- \* Paint Base Coat: Red Oxide Epoxy Primer
- \* First and Second Coat: Quick Drying Enamel
- \* Cable Gland: Number 1
- \* Terminal Block: D90

### Unit Price

P.O.A.

### Fan Performance Curve





### Item Components

- \* 570 mm diameter mild steel casing
- \* 7.5 kW - 475 - 575 volt - 2 pole Padmount Motor
- \* Terminal box fitted with cable gland
- \* Mild steel impeller
- \* Mild steel diffuser
- \* Screen on intake side
- \* Three mild steel Flanges
- \* Air movement, and impeller direction arrows
- \* Lifting lugs

### Options and Variations

- \* Fan can be fitted with intake and outlet screens
- \* Screens can be ordered to be Galvanised
- \* Fan can be fitted with skids
- \* Fan can be made into a "Silenced Fan" - whereby the silencers are built into the casing of the actual fan
- \* Fan can be made into "Airjet Type" - providing a greater velocity of air movement - typically used for front-end development
- \* Fan can be fitted with 570 mm diameter Fan Silencers

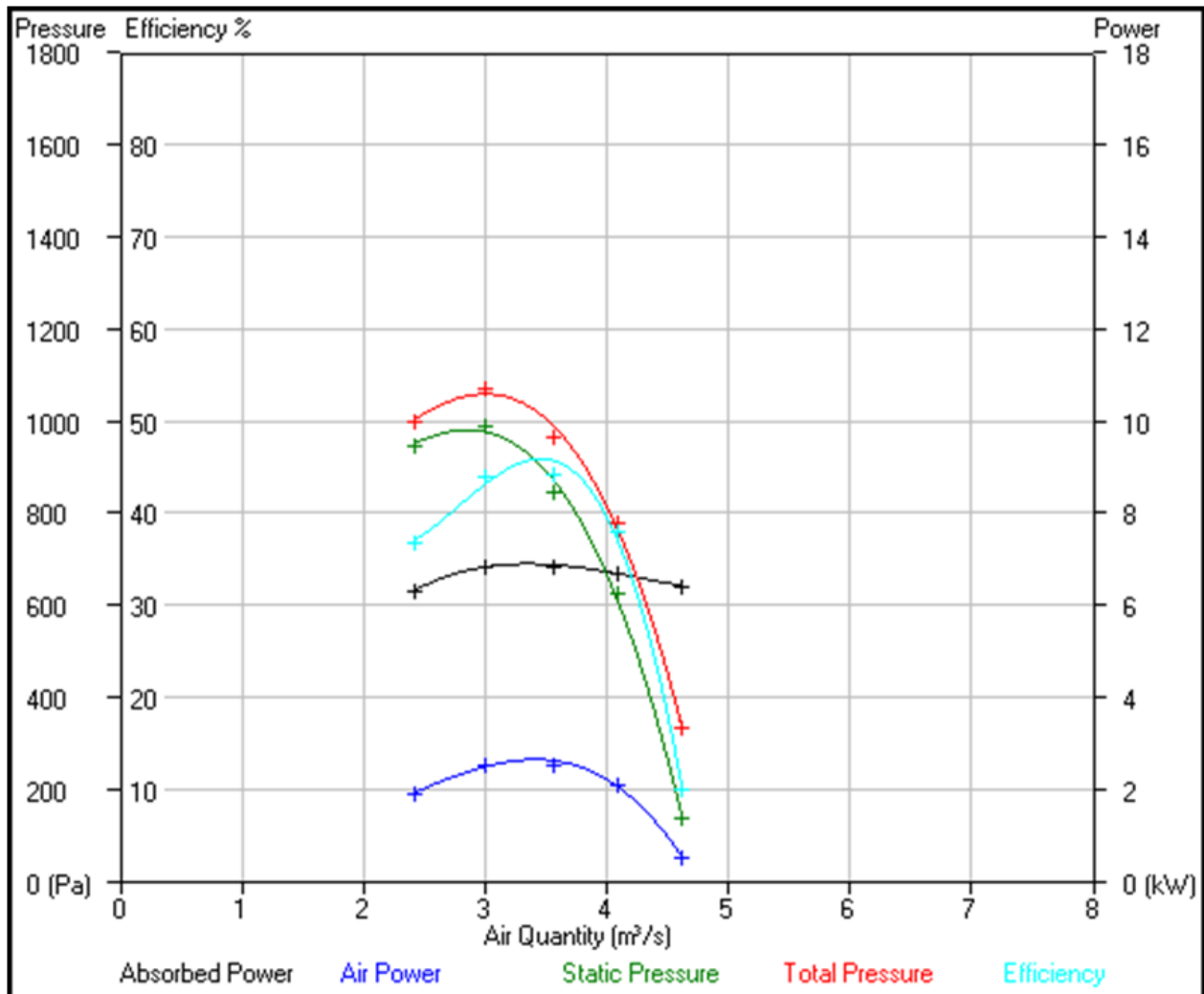
### Item Specifications

- \* Casing thickness: 6 mm
- \* Casing length: 900 mm
- \* Unit weight: 320 kg
- \* 2980 R.P.M - IP55 - Class "F" insulation
- \* Locked rotor current: 15.5 Amps
- \* Absorbed power: 5.5 kW
- \* Terminal box fitted on exterior of casing
- \* Impeller is dynamically balanced
- \* Thirteen impeller blades
- \* Eleven diffuser blades - 3 mm thick
- \* 12 mm flange thickness - width: 50 mm
- \* 9 Flange holes - 622 P.C.D.
- \* Fan Number positioning: either single spot, or two spots at 180 degrees apart
- \* Fan Numbering: either single welded or cut out of mild steel
- \* Paint Base Coat: Red Oxide Epoxy Primer
- \* First and Second Coat: Quick Drying Enamel
- \* Cable Gland: Number 1
- \* Terminal Block: D 90

### Unit Price

P.O.A.

### Fan Performance Curve



### Item Components

- \* 570 mm diameter mild steel casing
- \* 11.0 kW - 475 - 575 volt - 2 pole Padmount Motor
- \* Terminal box fitted with cable gland
- \* Mild steel impeller
- \* Mild steel diffuser
- \* Screen on intake side
- \* Three mild steel Flanges
- \* Air movement, and impeller direction arrows
- \* Lifting lugs

### Options and Variations

- \* Fan can be fitted with intake and outlet screens
- \* Screens can be ordered to be Galvanised
- \* Fan can be fitted with skids
- \* Fan can be made into a "Silenced Fan" - whereby the silencers are built into the casing of the actual fan
- \* Fan can be made into "Airjet Type" - providing a greater velocity of air movement - typically used for front-end development
- \* Fan can be fitted with 570 mm diameter Fan Silencers

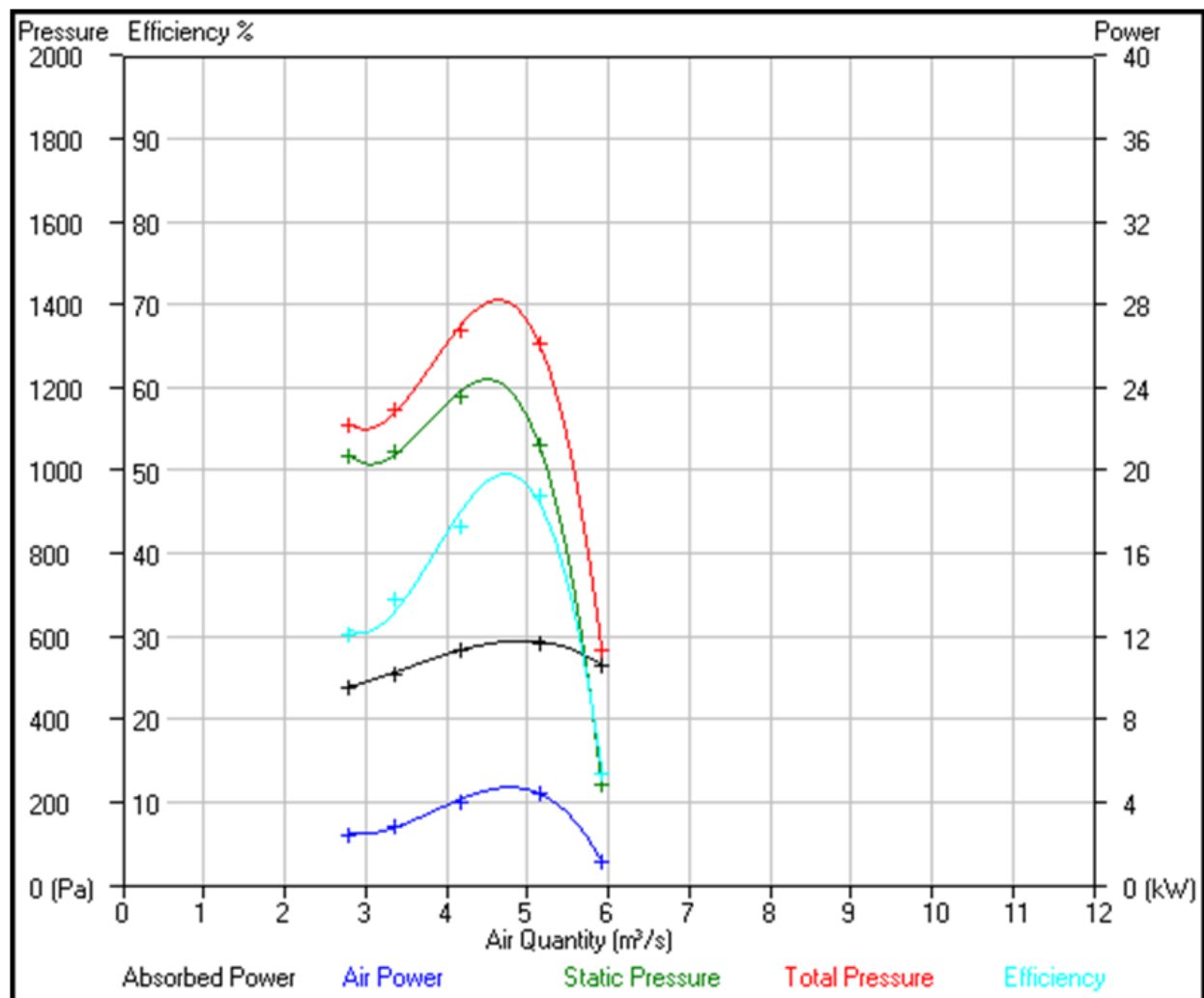
### Item Specifications

- \* Casing thickness: 6 mm
- \* Casing length: 900 mm
- \* Unit weight: 350 kg
- \* 2980 R.P.M - IP55 - Class "F" insulation
- \* Locked rotor current: 17.5 Amps
- \* Absorbed power: 7.5 kW
- \* Terminal box fitted on exterior of casing
- \* Impeller is dynamically balanced
- \* Thirteen impeller blades
- \* Eleven diffuser blades - 3 mm thick
- \* 12 mm flange thickness - width: 50 mm
- \* 9 Flange holes - 622 P.C.D.
- \* Fan Number positioning: either single spot, or two spots at 180 degree apart
- \* Fan Numbering: either single welded or cut out of mild steel
- \* Paint Base Coat: Red Oxide Epoxy Primer
- \* First and Second Coat: Quick Drying Enamel
- \* Cable Gland: Number 2
- \* Terminal Block: D90

### Unit Price

P.O.A.

### Fan Performance Curve





### Item Components

- \* 570 mm diameter mild steel casing
- \* 15.0 kW - 475 - 575 volt - 2 pole Padmount Motor
- \* Terminal box fitted with cable gland
- \* Mild steel impeller
- \* Mild steel diffuser
- \* Screen on intake side
- \* Three mild steel Flanges
- \* Air movement, and impeller direction arrows
- \* Lifting lugs

### Options and Variations

- \* Fan can be fitted with intake and outlet screens
- \* Screens can be ordered to be Galvanised
- \* Fan can be fitted with skids
- \* Fan can be made into a "Silenced Fan" - whereby the silencers are built into the casing of the actual fan
- \* Fan can be made into "Airjet Type" - providing a greater velocity of air movement - typically used for front-end development
- \* Fan can be fitted with 570 mm diameter Fan Silencers

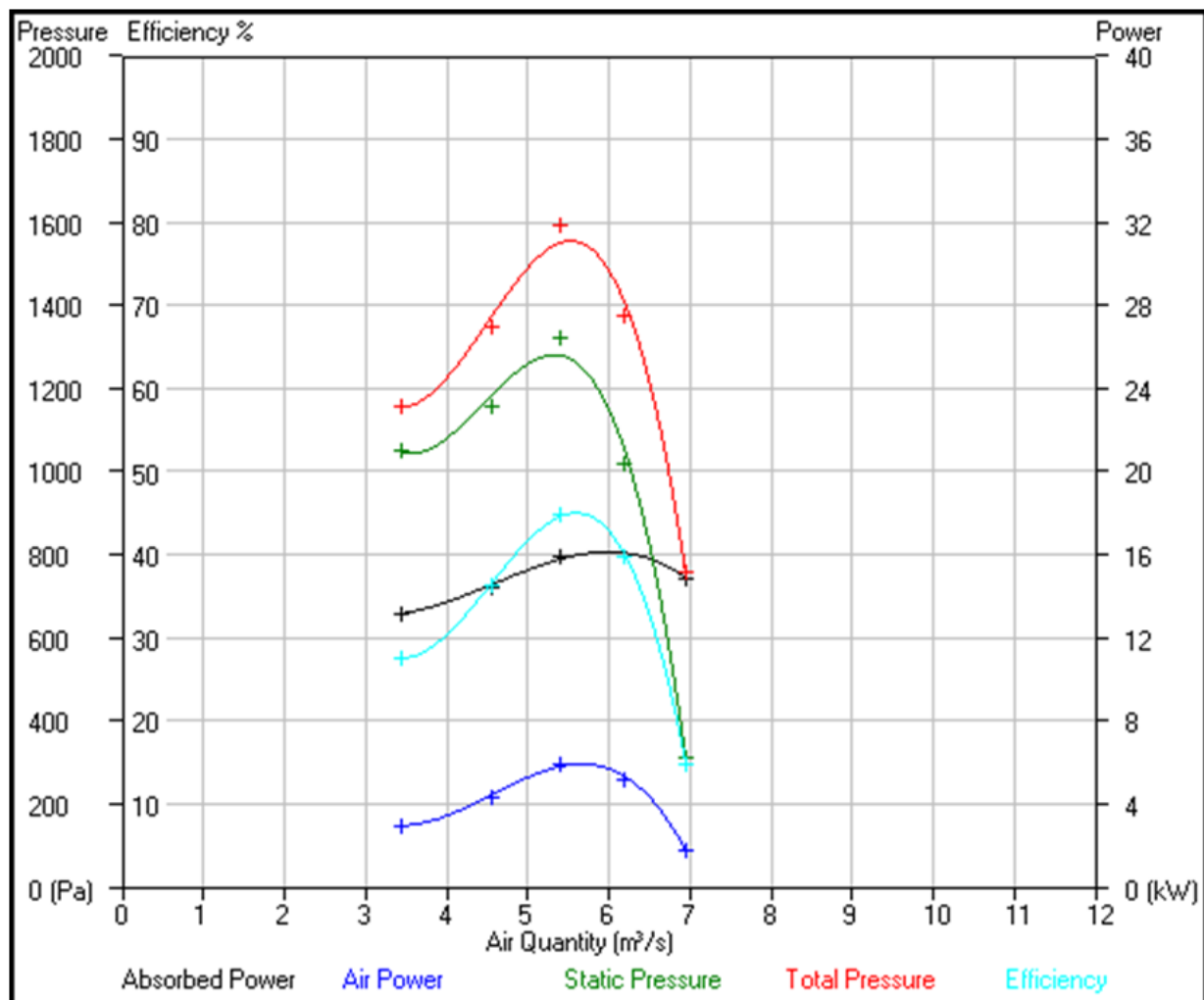
### Item Specifications

- \* Casing thickness: 6 mm
- \* Casing length: 900 mm
- \* Unit weight: 400 kg
- \* 2980 R.P.M - IP55 - Class "F" insulation
- \* Locked rotor current: 24.5 Amps
- \* Absorbed power: 9.5 kW
- \* Terminal box fitted on exterior of casing
- \* Impeller is dynamically balanced
- \* Sixteen impeller blades
- \* Eleven diffuser blades - 3 mm thick
- \* 12 mm flange thickness - width: 50 mm
- \* 9 Flange holes - 622 P.C.D.
- \* Fan Number positioning: either single spot, or two spots at 180 degrees apart
- \* Fan Numbering: either single welded or cut out of mild steel
- \* Paint Base Coat: Red Oxide Epoxy Primer
- \* First and Second Coat: Quick Drying Enamel
- \* Cable Gland: Number 2
- \* Terminal Block: D90

### Unit Price

P.O.A.

### Fan Performance Curve





### Item Components

- \* 570 mm OR 760 mm diameter mild steel casing
- \* 18.6 kW - 475 - 575 volt - 2 pole Padmount Motor
- \* Terminal box fitted with cable gland
- \* Mild steel impeller
- \* Mild steel diffuser
- \* Screen on intake side
- \* Three mild steel Flanges
- \* Air movement, and impeller direction arrows
- \* Lifting lugs

### Options and Variations

- \* Fan can be fitted with intake and outlet screens
- \* Screens can be ordered to be Galvanised
- \* Fan can be fitted with skids
- \* Fan can be made into a "Silenced Fan" - whereby the silencers are built into the casing of the actual fan
- \* Fan can be made into "Airjet Type" - providing a greater velocity of air movement - typically used for front-end development
- \* Fan can be fitted with 760 mm diameter Fan Silencers

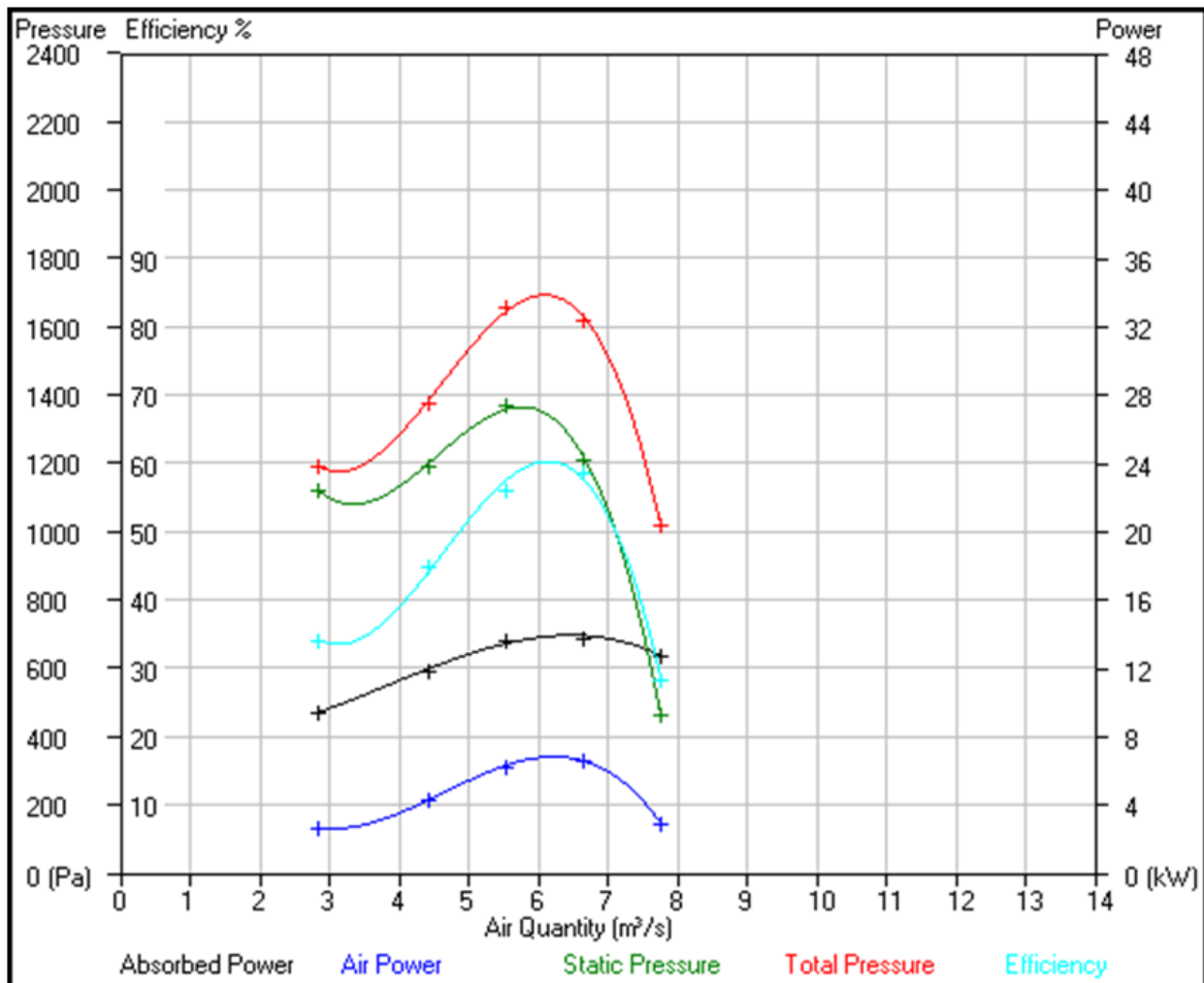
### Item Specifications


- \* Casing thickness: 6 mm
- \* Casing length: 1000 mm
- \* Unit weight: 435 kg
- \* 2980 R.P.M - IP55 - Class "F" insulation
- \* Locked rotor current: 31.5 Amps
- \* Absorbed power: 12.0 kW
- \* Terminal box fitted on exterior of casing
- \* Impeller is dynamically balanced
- \* Five impeller blades
- \* Eleven OR Four diffuser blades - 3 mm thick
- \* 12 mm flange thickness - width: 50 mm
- \* 9 Flange holes - 622 P.C.D.  
12 Flange holes - 812 P.C.D.
- \* Fan Number positioning: either single spot, or two spots at 180 degrees apart
- \* Fan Numbering: either single welded or cut out of mild steel
- \* Paint Base Coat: Red Oxide Epoxy Primer
- \* First and Second Coat: Quick Drying Enamel
- \* Cable Gland: Number 2
- \* Terminal Block: D160

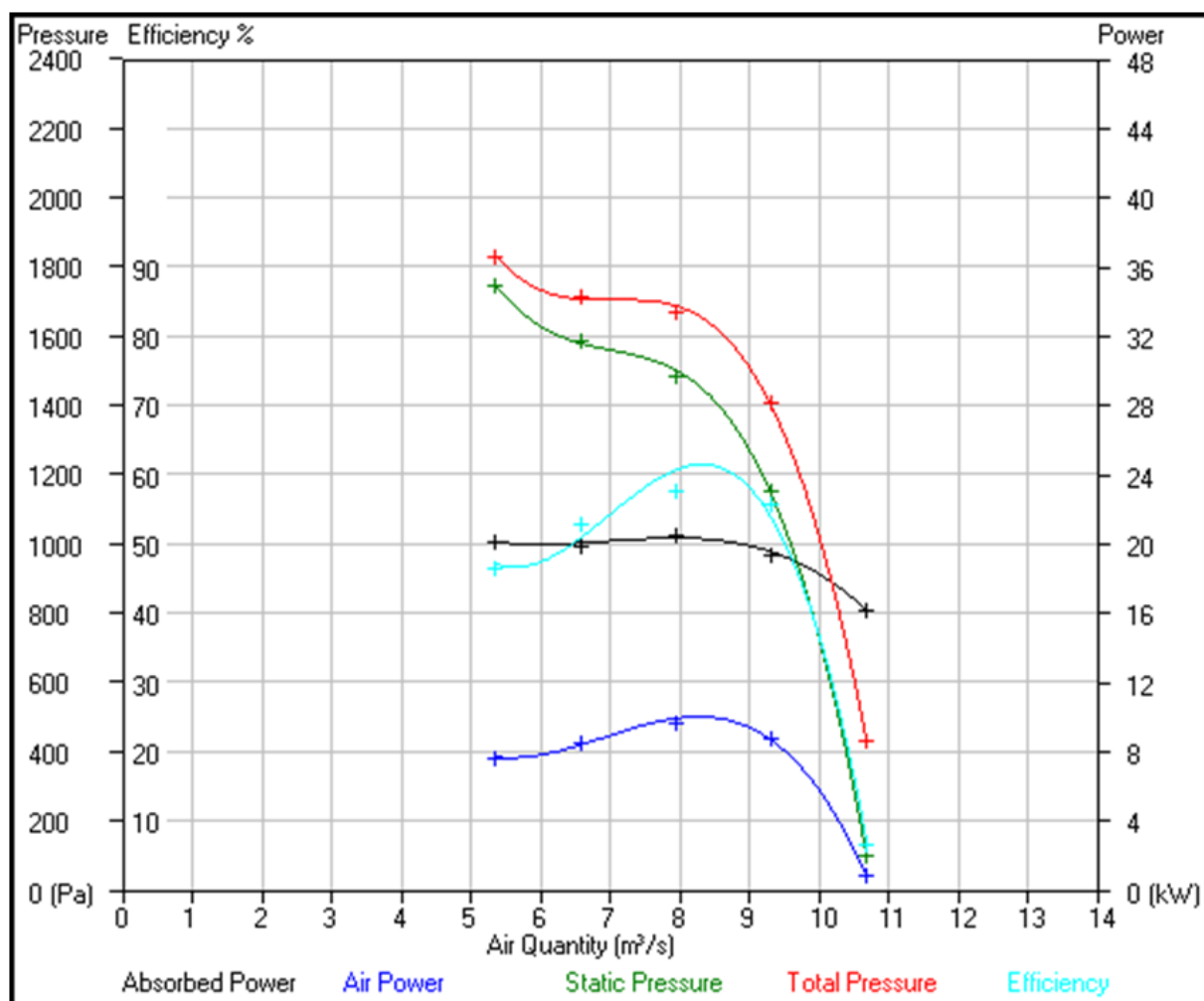
### Unit Price

P.O.A.

### Fan Performance Curve



Item Components	Item Specifications	Unit Price
<ul style="list-style-type: none"> <li>* 760 mm diameter mild steel casing</li> <li>* 22.0 kW - 475 - 575 volt - 2 pole Padmount Motor</li> <li>* Terminal box fitted with cable gland</li> <li>* Mild steel impeller</li> <li>* Mild steel diffuser</li> <li>* Screen on intake side</li> <li>* Three mild steel Flanges</li> <li>* Air movement, and impeller direction arrows</li> <li>* Lifting lugs</li> </ul>	<ul style="list-style-type: none"> <li>* Casing thickness: 6 mm</li> <li>* Casing length: 1000 mm</li> <li>* Unit weight: 485 kg</li> <li>* 2980 R.P.M - IP55 - Class "F" insulation</li> <li>* Locked rotor current: 38.5 Amps</li> <li>* Absorbed power: 15.5 kW</li> <li>* Terminal box fitted on exterior of casing</li> <li>* Impeller is dynamically balanced</li> <li>* Five impeller blades</li> <li>* Four diffuser blades - 3 mm thick</li> <li>* 12 mm flange thickness - width: 50 mm</li> <li>* 12 Flange holes - 812 P.C.D.</li> <li>* Fan Number positioning: either single spot, or two spots at 180 degree apart</li> <li>* Fan Numbering: either single welded or cut out of mild steel</li> <li>* Paint Base Coat: Red Oxide Epoxy Primer</li> <li>* First and Second Coat: Quick Drying Enamel</li> <li>* Cable Gland: Number 2</li> <li>* Terminal Block: D160</li> </ul>	<div>P.O.A.</div> <div>Fan Performance Curve</div> 
<b>Options and Variations</b> <ul style="list-style-type: none"> <li>* Fan can be fitted with intake and outlet screens</li> <li>* Screens can be ordered to be Galvanised</li> <li>* Fan can be fitted with skids</li> <li>* Fan can be made into a "Silenced Fan" - whereby the silencers are built into the casing of the actual fan</li> <li>* Fan can be made into "Airjet Type" - providing a greater velocity of air movement - typically used for front-end development</li> <li>* Fan can be fitted with 760 mm diameter Fan Silencers</li> </ul>		





### Item Components

- \* 760 mm diameter mild steel casing
- \* 45.0 kW - 475 - 575 volt - 2 pole Padmount Motor
- \* Terminal box fitted with cable gland
- \* Mild steel impeller
- \* Mild steel diffuser
- \* Screen on intake side
- \* Three mild steel Flanges
- \* Air movement, and impeller direction arrows
- \* Lifting lugs

### Options and Variations

- \* Fan can be fitted with intake and outlet screens
- \* Screens can be ordered to be Galvanised
- \* Fan can be fitted with skids
- \* Fan can be made into a "Silenced Fan" - whereby the silencers are built into the casing of the actual fan
- \* Fan can be made into "Airjet Type" - providing a greater velocity of air movement - typically used for front-end development
- \* Fan can be fitted with 760 mm diameter Fan Silencers

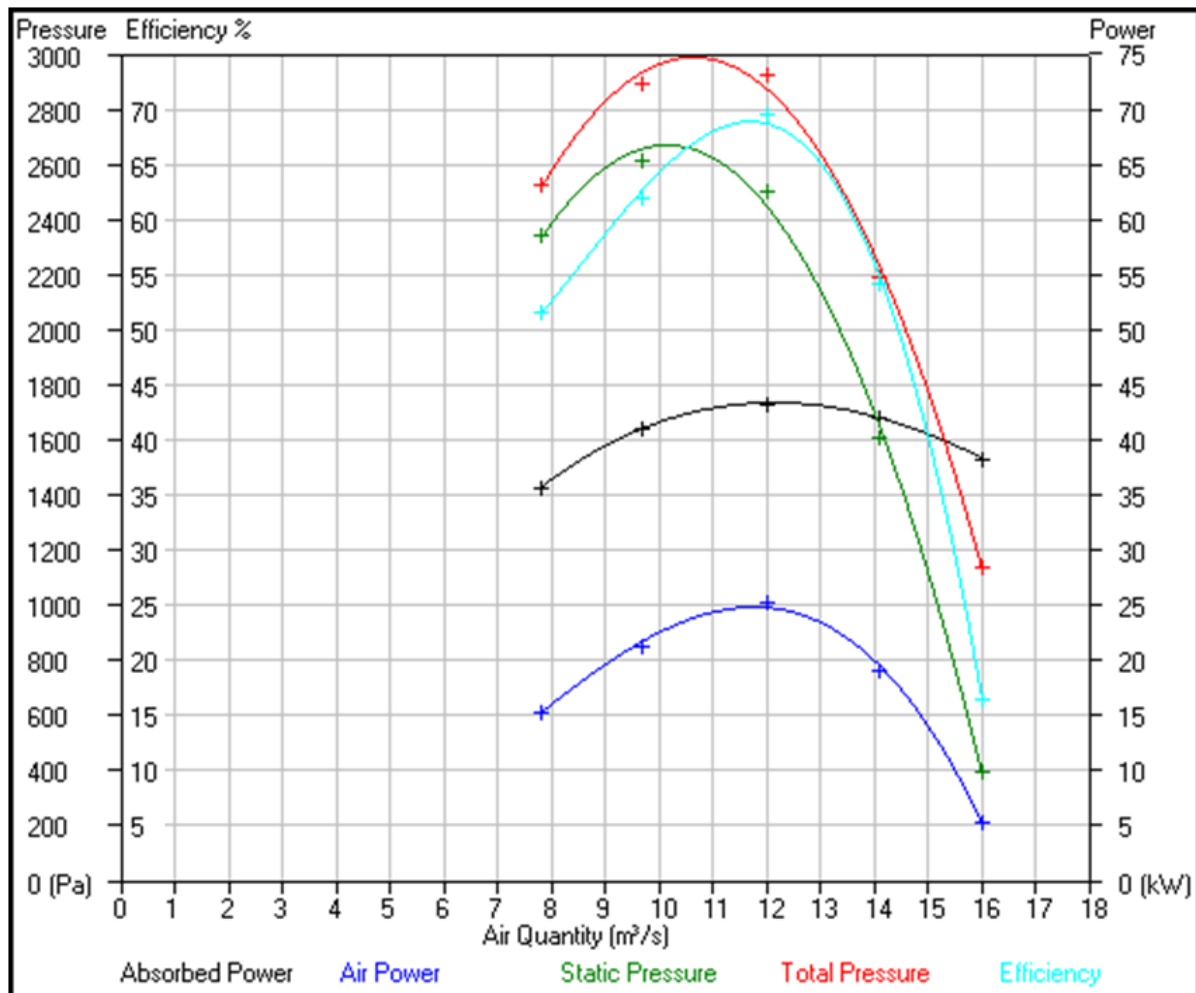
### Item Specifications

- \* Casing thickness: 6 mm
- \* Casing length: 1000 mm
- \* Unit weight: 640 kg
- \* 2980 R.P.M - IP55 - Class "F" insulation
- \* Locked rotor current: 60.5 Amps
- \* Absorbed power: 31.5 kW
- \* Terminal box fitted on exterior of casing
- \* Impeller is dynamically balanced
- \* Five impeller blades
- \* Four diffuser blades - 3 mm thick
- \* 12 mm flange thickness - width: 50 mm
- \* 12 Flange holes - 808 P.C.D.
- \* Fan Number positioning: either single spot, or two spots at 180 degrees apart
- \* Fan Numbering: either single welded or cut out of mild steel
- \* Paint Base Coat: Red Oxide Epoxy Primer
- \* First and Second Coat: Quick Drying Enamel
- \* Cable Gland: Number 2
- \* Terminal Block: D160

### Unit Price

P.O.A.

### Fan Performance Curve



### Item Components

- \* 1016 mm diameter mild steel casing
- \* 75.0 kW - 475 - 575 volt - 2 pole Padmount Motor (also available in 4 pole)
- \* Terminal box fitted with cable gland
- \* Mild steel impeller
- \* Mild steel diffuser
- \* Screen on intake side
- \* Three mild steel Flanges
- \* Air movement, and impeller direction arrows
- \* Lifting lugs

### Options and Variations

- \* Fan can be fitted with intake and outlet screens
- \* Screens can be ordered to be Galvanised
- \* Fan can be fitted with skids
- \* Fan can be made into a "Silenced Fan" - whereby the silencers are built into the casing of the actual fan
- \* Fan can be made into "Airjet Type" - providing a greater velocity of air movement - typically used for front-end development
- \* Fan can be fitted with 1016 mm diameter Fan Silencers

### Item Specifications

- \* Casing thickness: 6 mm
- \* Casing length: 1200 mm
- \* Unit weight: 750 kg
- \* 2980 R.P.M - IP55 - Class "F" insulation
- \* Locked rotor current: 110.0 Amps
- \* Absorbed power: 54.0 kW
- \* Terminal box fitted on exterior of casing
- \* Impeller is dynamically balanced
- \* Six OR Ten impeller blades
- \* Eight OR Nine diffuser blades
- \* 12 mm flange thickness - width: 70 mm
- \* 15 Flange holes - 1067 P.C.D.
- \* Fan Number positioning: either single spot, or two spots at 180 degrees apart
- \* Fan Numbering: either single welded or cut out of mild steel
- \* Paint Base Coat: Red Oxide Epoxy Primer
- \* First and Second Coat: Quick Drying Enamel
- \* Cable Gland: Number 3
- \* Terminal Block: D225

### Unit Price

P.O.A.

### Fan Performance Curve

