

# AIR MOVEMENT SOLUTIONS



Air Movement Products and  
Engineering for the Mechanical  
Services Industry



**MORSE**  
Air Systems



## Who we are

Morse Air Systems offers services for all air movement applications. We supply a complete range of services for the selection, design and manufacture of industrial, mining and commercial fans as well as complete installation and commissioning of individual fans through to full system solutions.

With our engineering background and over 30 years experience in the fan market we work closely with our customers to provide the best workable air movement solutions. We are a wholly owned Australian company with a proud tradition of providing our customers with a consistently high level of service and engineering excellence.

Our customers take comfort in the fact that all our projects are individually managed to meet their expectations. This is achieved by working with you to evolve the most beneficial air movement solutions customised to your particular needs.

Morse Air Systems is a founding member of the Fan Manufacturers Association of Australia & New Zealand. (FMAANZ)








## How we can serve you

Morse Air Systems offers the Mechanical Services and Facility Management industries a committed service solution that delivers systems engineering and design, project management, and manufacturing capabilities for all air moving applications.

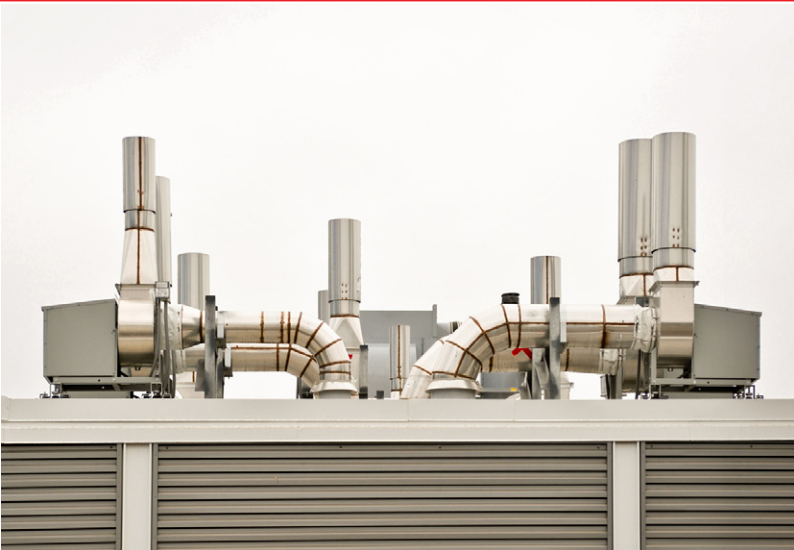
At Morse Air Systems we work with you to analyse the current situation and your desired outcomes to allow us to identify the exact requirements necessary to solve your air movement situation. At Morse Air Systems we are able to offer a complete air movement solution through our dedicated team, which includes qualified engineers, project managers and specialised tradespeople.

Morse Air Systems recognises that in today's business environment professional and personal service is the key to a successful relationship. Morse Air Systems understand the need for long term mutual profitability and we work hard at initiating and maintaining close working relationships with our customers.

Morse Air Systems understand that we need to meet or exceed our customer's expectations in:

-  attending to customers' needs
-  engineering excellence leading to quality solutions
-  prompt and honest service
-  honouring lead time commitments
-  education and training with integrity










## How you benefit


Morse Air Systems focus heavily on staff training and development. This ensures that we continue to provide our customers with a consistently high level of fan engineering and manufacturing expertise. Being proactive and innovative are two areas which are critical in this changing economy and at Morse Air Systems we continue to explore new and improved ways of getting thing done.

At Morse Air Systems if we can help our customer deliver a successful project then we believe our job is only half done. We are committed to providing ongoing technical and operational support long after commissioning to ensure that your systems are operating at peak efficiency now and well into the future.

Our commitment to excellence is evident in every project we undertake, and you can be assured your project will receive the specific attention you require.

All our fans are individually selected to ensure that the fan we offer:

-  is best suited for the duty
-  will operate at peak efficiency
-  will minimise noise
-  can achieve lowest possible power consumption
-  will suit the physical environment



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QUOTE: SGT27  
Date: February 20, 2012  
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COMPANY: Air Sys Connect      ATTENTION: Engineering Service Dept Fax N°:  
PROJECT: RFP L21 Purge Fan      LOCATION: QLD      Item N°: 1 of 1

DUTY DETAILS	
Volume	L/S 35000 actual at inlet
Pressure	Pa 600 inlet (-ve)
Temperature	°C 20 at inlet
Density at inlet	kg/m <sup>3</sup> 1.195 calculated
Barometer	Pa 101325 atmospheric
Humidity	% 50
Altitude	metres 0 above sea level
Medium conveyed	clean air
Speed	RPM 720
Power	kW 37.72

FAN DETAILS	
Model	Bi-1S
Size	48.5
Type	D.I.D.W.
Arrangement	
Impeller blades	backward flat
Impeller speed	m/s 48.0
Air velocity	m/s 13.8 inlet flange
Air velocity	m/s 14.5 outlet flange
Temp rise	°C 0.7
Temp design	°C 100
Start time	seconds approximate - DOL
Imp width	100 %
Imp diam	99 %
Fan efficient	56 %

NOISE DATA (free field conditions)		SPL (sound power level) - dB	
SPL (sound pressure level) - dB(A) estimated at 1 metre(s)		Hertz	125 250 500 1000 2000 4000
free field conditions	not silenced	fan	108 110 103 102 100 94
	fan inlet 90	inlet	102 104 97 96 94 91
	fan outlet 91	outlet	105 107 100 99 97 91
	5mm casing breakout 84	casing	105 102 90 84 77 71

Noise levels are based on free field conditions and not guaranteed due to site and environmental conditions.

MOTOR DETAILS		Motor Extras:	
Kilowatts	55	Make	As available
RPM (nominal)	720	Supplier	Morse Air Systems
Volts/Phase/Hz	415/3/50		Smoke Spill Modification
Enclosure			Class H insulation
			Rewind upgrades






FAN FEATURES		Fan Extras:	
Discharge Damper		VSD Controller Price:	
Direct drive Steel Flex coupling			
Hot dip galvanised surface finish			
Impeller balanced to G2.5mm sec ISO1940-1 2003			
SN type bearings			

PRICING	
Fan price each:	
Fan quantity:	1 - only
<b>TOTAL PRICE:</b>	\$ - (prices exclude GST)

VALIDITY: best 30 days from quotation date  
DELIVERY: F.O.T. Melbourne  
LEAD TIME: 5-8 working weeks ex works from order acceptance  
PAYMENT:

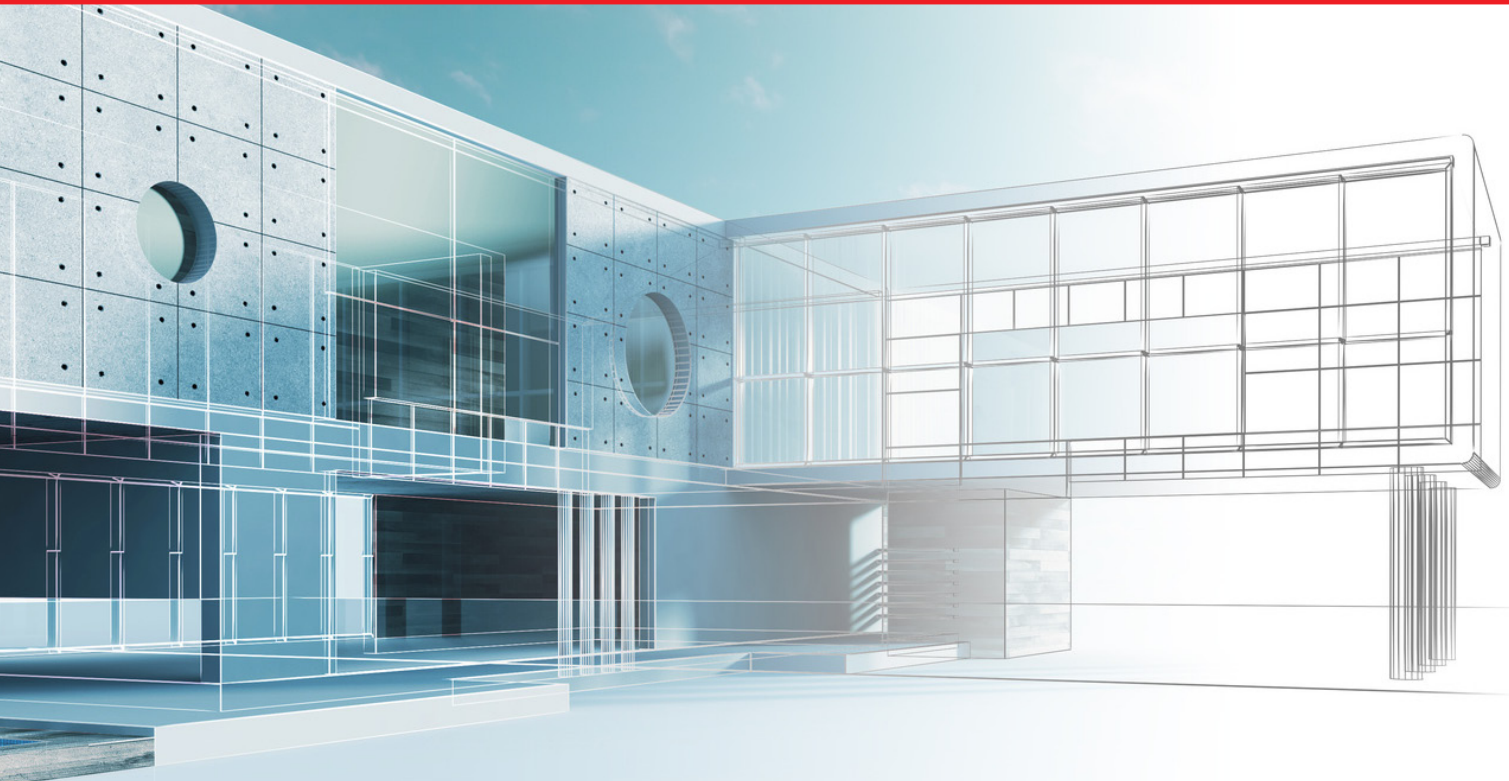
Stuart Crowley      S Crowley  
Ph 03 9758 7733 F 03 9758 2366  
E-mail: stuart@morseairsystems.com.au

When purchasing a Morse Air Systems fan our customers are confident that their needs are being met. We are committed to excellence in engineering and quality and have implemented the following key processes:

-  Morse Air Systems has adopted a Quality Assurance System conforming to AS/ISO 9001
-  All fabricated mild steel impellers use as a minimum G250 grade steel
-  All fabricated impellers are balanced to G2.5mm sec. ISO 1940-1 2003 issued with a certificate
-  Morse Air Systems conducts fan performance testing in accordance to AS ISO 5801 2004
-  Work with Standards Australia and New Zealand to effect changes in appropriate standards

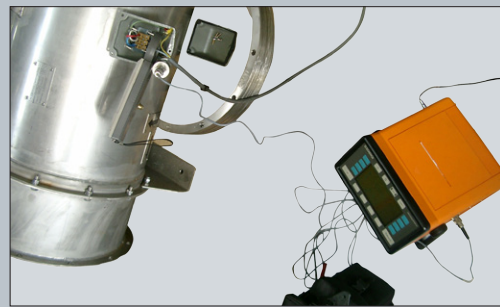
We are actively involved in ensuring that our designs achieve ever higher energy efficiencies and that we continue to provide our customers with the latest sustainable power saving solutions.





### Break Down Service

At Morse we understand mission critical, and we will be there when you need us most! We offer an emergency breakdown service after hours and weekends as required.



### On Site Balancing

We offer specialised industrial balancing including On Site balancing. We have been providing a range of industrial balancing services for critical rotating equipment such as fans, pumps and motors in ventilation and air conditioning systems for more than 20 years.

Morse Air Systems are represented on the Executive Committee of the Fan Manufacturers Association of Australia and New Zealand (FMAANZ) and actively

participate in all association technical meetings and initiatives, such as minimum efficiency standards (MEPS) in Australia and New Zealand.



### Contact us

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