

Air Fans Explosion Proof



SAMT

Specialised Air Motors and Transmission



TONSON®

About TONSON AUSTRALIA

TONSON AUSTRALIA is a Specialised Air Motors & Transmission Company; an innovative manufacturer and supplier Of Explosion proof Products to Industries including Mining, oil & Gas, Chemicals & Paints, food & Beverage, paper & Plastic, Pharmaceutical, Manufacturing & Power Transmission. Our products meet CE standards ISO9001 & ISO9002.

At TONSON Australia (SAMT) we continue to develop new products for better working efficiency at competitive prices. We Manufacture wide range of industrial equipment and hold several international patents.

"Efficient & Reliable Global Brand"

TONSON Australia (SAMT) products include a complete range of Air Motors, Air Motors, Drum Air Mixers, Air Fans, Pressure Tank, Drum Handling equipment, Air Diaphragm Pump, and Spray Guns for use in all major industries. Patented products are registered in countries including USA, Taiwan and China; including 100% Explosion-proof radial piston air motor, 100% Explosion-proof air fan, Reversible Air Motor Control & Bung entry mixer. Unlike other conventional products, our products mainly utilise air instead of electricity as the source of power; thus, it eliminates the chance of electricity shock and fire which are the most crucial factors for industries involved in chemical, flammable or volatile contents. TONSON Air Motors, Air Mixers, and Air Fans are engineered to meet the highest standard featuring 100% Explosion-proof, low air consumption, light weight, high torque, reversible stepless speed control, easy maintenance, and various mounting method. It may also be applied in harsh working condition such as humid, high temperature and volatile. Engineering safety factor and material selection are taken into account seriously upon design and manufacturing to produce the most safe and reliable equipment.

"Innovation & Quality, that's the key to our success"

At TONSON Australia we continually strive to offer our customer complete drive solutions and therefore we have partnered with Global brands in Power Transmission and Gearbox drives, providing complete drive solutions; Specialising in Industrial Gearboxes, Explosion proof electric AC & DC Motors & All power Transmission components such as Fluid Couplings, Brakes & Clutches, Gear and Tyre Couplings, Chain and Belt power transmission drives. We also provide solutions to meet your customised requirements, Including full engineering & AUTOCAD service and assistance with design, selection and site installation.

We can also customise any product to suit your specific requirements and will investigate the possibilities of developing new products to satisfy your special specifications.

"Innovative Ideas, Exclusive Technologies since 1966"

This Brochure has been dedicated to our extensive range of Explosion Proof Piston Air Motors, We have the biggest range of air motors in Australia., we can also customise any air motor to suit your requirements. For all other products please refer to their dedicated brochure.

Contact Us

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Features and applications

Air Fans features include:

- Complete Safety (No Heat/Spark will generate if blades are impeded.)
- 100% Explosion-proof
- Great Air Circulation
- Stalling Safety
- Variable Stepless Speed Control
- Low Air Consumption
- Never Burn Out
- Self-Sealing & Cool Running
- Positive Start
- Toleration of Environment (Flammable, Volatile, High Temperature and humid locations)
- Instant Reversibility of Rotation for Ventilation or Exhaust
- Hermetically Sealed Motors (Preventing Dirt/Dust)
- High Start Torque
- Rugged Design
- Intrinsically safe in hazardous environment (ex. Mines, Petrochemical, Volatile atmosphere)

Air Fans applications are unlimited including:

- Mines
- Volatile Atmosphere Ventilation
- Chemical and Petrochemical Ventilation

EXPLOSION-PROOF AIR FAN

STAND



SPECIFICATION

Model	TG-18	TG-24
Auto-Turning	TGS-18	TGS-24
Thickness(mm)	200	240
Length(mm)	1,110 x 590	1,260 x 850
Flow Rate(m ³ / h)	5,700	6,500
Flow Velocity(m/s)	1.5	1.5
Net Weight(kg)	8.6	14
Gross Weight(kg)	9.6	15.5
Blade Material	PP/Aluminum	Aluminum

TABLE



SPECIFICATION

Model	TBS-18
Thickness(mm)	200
Length(mm)	430 x 590
Flow Rate(m ³ / h)	5,700
Flow Velocity(m/s)	1.5
Net Weight(kg)	8.5
Gross Weight(kg)	9.5
Blade Material	PP/Aluminum

TBS
Table Auto-Turning Air Fan

WALL SUSPENDED

NEW

TPS
Wall Suspended Air Fan
(Auto-Turning)



SPECIFICATION

Model	TPS-18
Thickness(mm)	200
Flow Rate(m ³ / h)	5,700
Flow Velocity(m/s)	1.5
Net Weight(kg)	8
Gross Weight(kg)	9
Blade Material	PP/Aluminum

WALL EXHAUST



TW-30
Wall Exhaust Air Fan

SPECIFICATION

Model	TW-14	TW-16	TW-18	TW-24	TW-30
Thickness(mm)	165	205	184	323	230
Length(mm)	450 x 450	495 x 495	565 x 565	720 x 720	870 x 870
Flow Rate(m ³ / h)	3,600	4,000	4,400	5,900	7,200
Flow Velocity(m/s)	1.8	1.6	1.5	1.5	1.5
Net Weight(kg)	4.3	4.8	9	13.9	15.7
Gross Weight(kg)	4.8	5.3	10	15.4	17.2
Blade Material	Aluminum	Aluminum	PP/Aluminum	Aluminum	Aluminum



TW-14



TW-16



TW-18
Wall Exhaust Air Fan
(Plastic Blades)

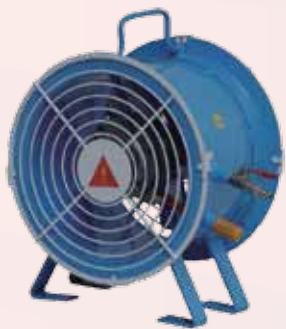


TW-24
Wall Exhaust Air Fan



Optional: Blades open when fan operates
Shutters and close when air flow stops.

AXIAL-FLOW (PORTABLE)



TR-8



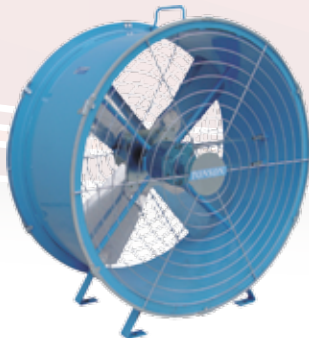
TR-12



TR-18
(Plastic Blades)



TR-18
(Aluminum Blades)



TR-24

SPECIFICATION

Model	TR-8	TR-12	TR-18	TR-24
Thickness(mm)	190	218	248	310
Length(mm)	270	370	525	680
Height (mm)	310	390	600	760
Flow Rate(m ³ /h)	2,000	2,900	4,400	5,900
Flow Velocity(m/s)	1.8	1.8	1.5	1.5
Net Weight(kg)	8	12	17	24
Gross Weight(kg)	9	12..5	18	24.5
Blade Material	Aluminum	Aluminum	PP/Aluminum	Aluminum



Optional: FRL



Optional: Reverse Valve

To be used with FRL (Filter, Regulator and Lubricator) to improve performance and provide longer life.



Flexible Duct

- Bigger Axial-Flow Air Fans Sizes available at request.
- Electric Axial-Flow Fan also available.

SPECIFICATION

TR8	TR12	TR18	TR24
11"	15"	22"	28"
5, 10, 15, 20, 25...etc (Ducting Available in 5 Metre Lengths)			

AIR BLOWER



TAU Ring Air Blower

TAU SPECIFICATION

Model	Vacuum Pressure (mmH ₂ O)	Max. Air Flow (m ³ /min)	In Out Let	Dimension (mm)	Weight (kg)	TONSON Ring Air blowers are designed with practical regenerative theory. Features as under: require no maintenance, no oily odor, have long life, low noise and vibration, have dust-proofed shaft seal, high reliability, space-efficient design, and versatility.
TAU-20	600/700	0.6	1"	225x231x245	9.5	
TAU-40	900/1000	1.3	1-1/4"	253x260x277	13	
TAU-75	1300/1600	2	1-1/2"	297x297x313	17	
TAU-02	1700/1800	3.2	2"	339x361x381	26	
TAU-07	1800/1800	10	2-1/2"	492x513x538	78	
TAU-15	2000/1800	19	4"	653x669x618	175	
Max. permissible temperature at the inlet is 40°C						

TAC SPECIFICATION

Model	Vacuum/Pressure (mmH ₂ O)	Max. Air Flow (m ³ /min)	In Out	Dimension (mm)	Weight (kg)
TAC-50	40/60	3/3.5	2"	241x216x180	3
TAC-75	65/85	6/8	3"	239x374x251	9
TAC-551	50/70	4/4.5	50*140	224x259x187	4
TAC-751	65/85	5.5/6.5	25*240	280x318x242	10

TAS/TAV SPECIFICATION

Model	Vacuum/Pressure (mmH ₂ O)	Max. Air Flow (m ³ /min)	In Out	Dimension (mm)	Weight (kg)
TAS-20	60/80	8/10	4"	282x258x216	9
TAS-40	60/85	15/17	5"	310x300x266	11
TAS-75	80/110	23/25	6"	370x359x316	17
TAS-15	100/120	24/30	8"	335x405x342	29

TAM SPECIFICATION

Model	Vacuum/Pressure (mmH ₂ O)	Max. Air Flow (m ³ /min)	In Out	Dimension (mm)	Weight (kg)
TAM-1/4	23/33	12/15	150/150	320x400x288	15
TAM-1/2	35/50	21/25	200/200	380x410x312	20
TAM-1	44/63	40/48	254/254	419x500x338	32
TAM-2	73/98	68/78	300/300	464x535x360	42
TAM-3	73/98	68/78	300/300	464x535x360	48

TAB SPECIFICATION

Model	Vacuum/Pressure (mmH ₂ O)	Max. Air Flow (m ³ /min)	In Out	Dimension (mm)	Weight (kg)
TAB-201	170/230	16/20	4"	495x470x348	23
TAB-125	250/370	30/35	5"	548x558x499	41
TAB-150	400/500	42/50	6"	717x710x498	58
TAB-200	520/650	60/80	8"	800x878x767	185

TAHB SPECIFICATION

Model	Vacuum Pressure (mmH ₂ O)	Max. Air Flow (m ³ /min)	In Out	Dimension (mm)	Weight (kg)
TAHB-75-2	210/260	6/7	3"	370x331x285	21
TAHB-75-3	290/380	6.5/7.5	3"	370x331x356	24
TAHB-75-4	375/500	6.5/8	3"	370x331x432	26
TAHB-75-5	420/600	6.8/8.5	3"	370x331x503	29
TAHB-100-2	340/450	11/13	4"	498x472x331	28
TAHB-100-3	500/700	10.4/14	4"	498x472x404	36
TAHB-100-4	650/900	12.5/16	4"	498x472x494	45
TAHB-100-5	790/1100	12.8/16.5	4"	498x472x574	55
TAHB-125-3	580/790	19/23	5"	609x565x470	62
TAHB-125-4	750/1050	20/24	5"	609x565x577	87
TAHB-125-5	900/1300	20/24	5"	609x565x644	109
TAHB-200	700/900	52/65	8"	779x815x667	203



TAC Quiet Cooling Fan



TAS Cooling Air Fan



TAV Cooling Air Fan (Aluminum)



TAM Sirocco Air Fan

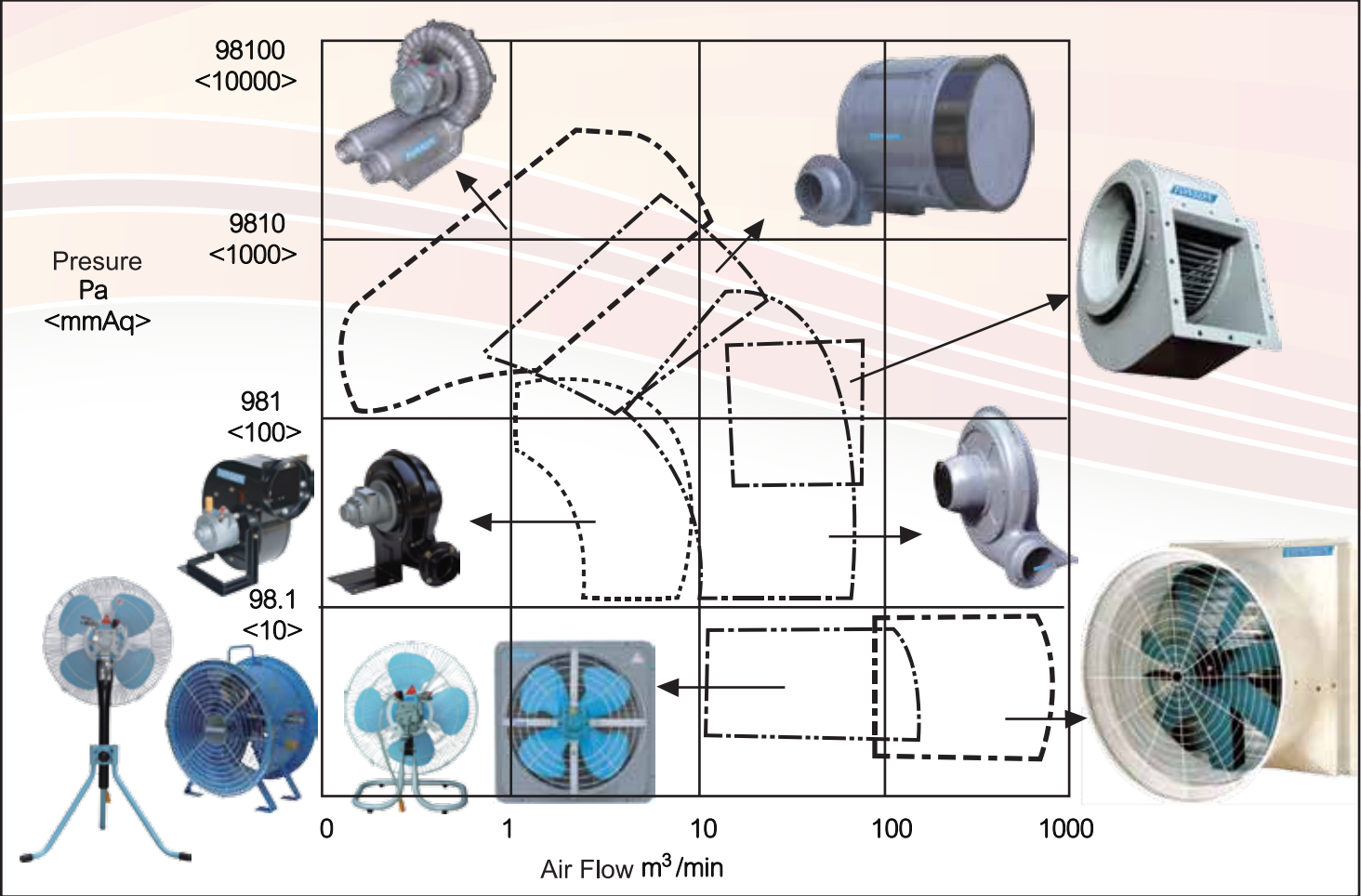


TAB Turbo Air Blower



TAHB Multi-Stage Turbo Air Blower

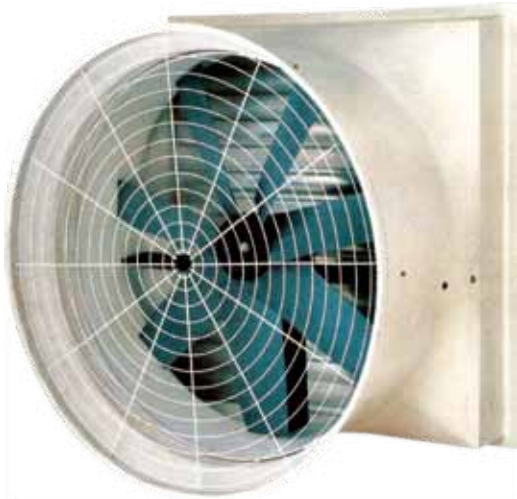
PERFORMANCE INDEX



CUSTOMIZED AIR FAN



Customized Explosion-Proof Air Fan for Coal Mining
Dimension: 1100x645x586mm



TBM Large-Scale Exhaust Air Blower

SPECIFICATION

Model	Speed (r/m)	Air Flow (m³/h)	Dimension (cm)	Material :Glass fiber reinforced plastic
TBM	23/33	45000	116x116x59	



240V ELECTRIC FANS – EXPLOSION PROOF

240V Electrica Fans - Explosion Proof								
Model no.	Diameter	Voltage	Frequency	Speed	Watts	Capacity	Static	Noise
EFAN	mm	v	Hz	r/min	w	m³/min	pa	db(A)
EF-40	400(16")	220~240	50/60	2800/3300	1100	105/120	700/780	79
EF-40	400(16")	220~240	50/60	1400/1720	500/550	80/95	300/360	68
EF-45	450(18")	220~240	50/60	1400/1720	700/750	110/125	350/410	70
EF-50	500(20")	220~240	50/60	1400/1720	900	150/165	400/460	73
EF-60	600(24")	220~240	50/60	1400/1720	1500/1800	240/260	480/540	77
EF-60	600(24")	220~240	50/60	960/1120	1100/1200	210/230	350/400	68
EF-70	700(28")	220~240	50/60	1400/1720	2200	310/330	580/650	79
EF-70	700(28")	220~240	50/60	960/1120	1500/1600	280/300	450/500	72
EF-80	800(32")	220~240	50/60	960/1120	2200/2400	420/450	500/550	74



Electric Fan -
Explosion Proof

DC ELECTRIC FANS – EXPLOSION PROOF

Model no.	Diameter	Voltage	Frequency	Speed	Watts	Capacity	Static
EFAN	mm	v	Hz	r/min	w	m³/min	pa
DCF-40	400(16")	220~240	50/60	2800/3300	1100	105/120	700/780
DCF-40	400(16")	220~240	50/60	1400/1720	500/550	80/95	300/360
DCF-45	450(18")	220~240	50/60	1400/1720	700/750	110/125	350/410
DCF-50	500(20")	220~240	50/60	1400/1720	900	150/165	400/460
DCF-60	600(24")	220~240	50/60	1400/1720	1500/1800	240/260	480/540
DCF-60	600(24")	220~240	50/60	960/1120	1100/1200	210/230	350/400
DCF-70	700(28")	220~240	50/60	1400/1720	2200	310/330	580/650
DCF-70	700(28")	220~240	50/60	960/1120	1500/1600	280/300	450/500
DCF-80	800(32")	220~240	50/60	960/1120	2200/2400	420/450	500/550

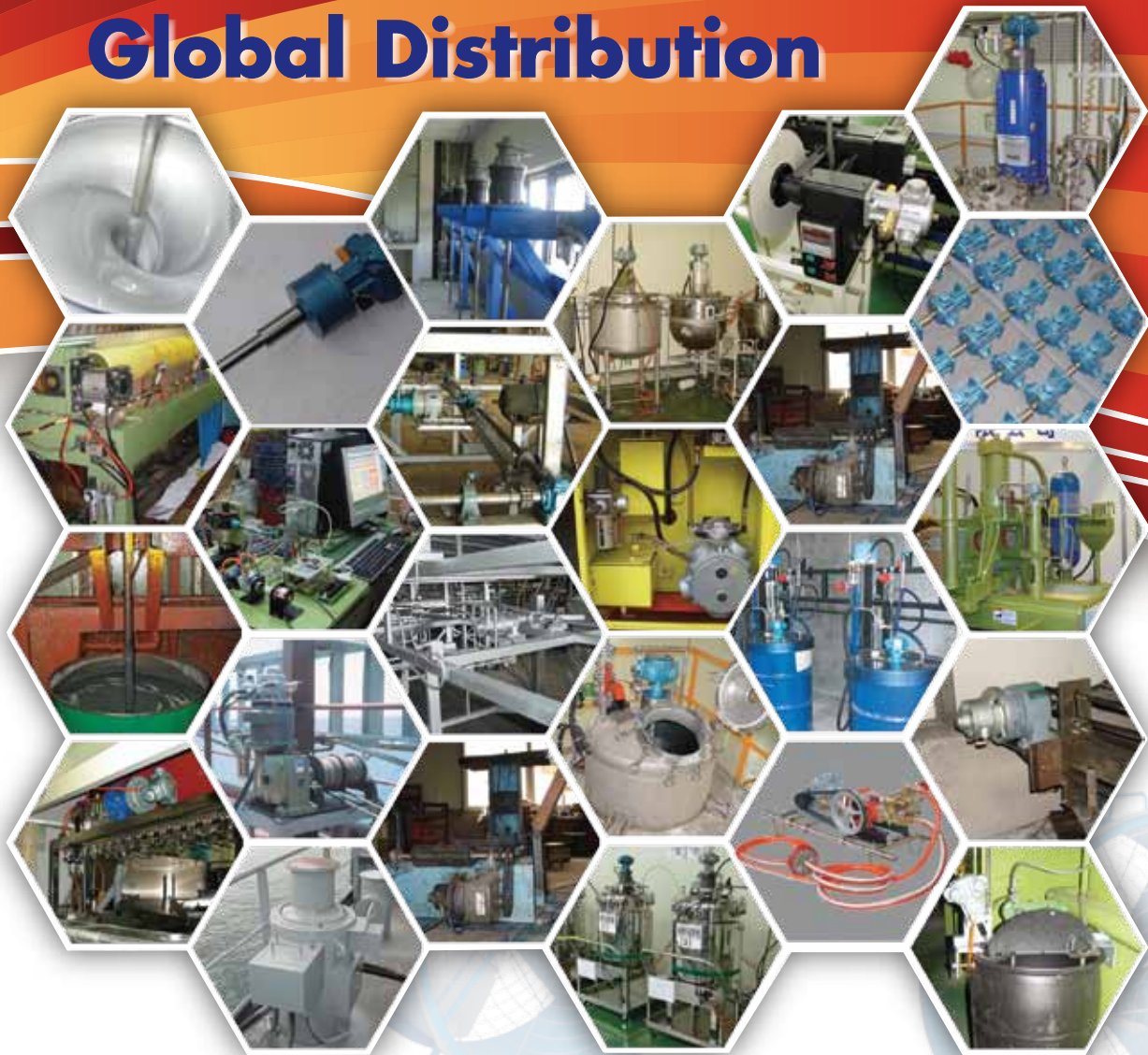


Electric Fan -
Explosion Proof

NOTES

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