FA-BLOW

INDUSTRIAL FAN & BLOWER MADE In THAILAND

BSB series

BACKWARD INCLINE SINGLE INLET BELT DRIVE

LOW PRICE HIGH QUALITY

SPECIFICATION :

- HEAVY DUTY
- BEARING PLUMMER BLOCK
- PULLEY TAPER LOCKED
- DYNAMIC BALANCE ON REAL SPEED.
- BEARING COOLING WHEES.
- SHAFT COOLING WHEEL.
- ACCESS DOOR
- DRAIN PLUG
- SHAFT COVER

MATERIAL :

- MILD STEEL
- STAINLESS STEEL
- PLASTIC P . P .
- ALUMINIUM ALLOY.
- FRP.

CAPACITY 20 - 2800 CMM

STATIC PRESSURE 20 - 340 mmWG.

TEMPERATURE 0 - 150 Degree C.

JIS - STANDARD

ANSI - STANDARD

TANG PIRIYA

TANG PIRIYA ENGINEERING LTD.,PART.

139/1 MOO 15 THEPARAK RD. KM - 21 BANGSAOTHONG KING AMPHAO BANGSAOTHONG SAMUTPRAKARN 10540. THAILAND. TEL & FAX. - 3154946 , 7063238 , 7063519

Website : http://www.tangpiriya.com Email : sales@tangpiriya.com

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ACCESSORIES

INLET DAMPER

For more efficientcy of volume control by spinning the air in direction of wheel rotation.

SHAFT COOLING WHEEL

For high temperature working .

BEARING WATER COOLING

For very high temperature working

OUTLET DAMPER

For reduced volume control

DRAIN PLUG

For water drain in a blower.

ACCESS DOOR

For cleaning the impeller

SHAFT SEAL

Carbon , felt seal elements

Easily for maintenance.

LUBRICATION

Bearing should be lubricated with a premium quality lithium-based grease conforming to NLGI Grade 2 or 3

Examples are : Shell - Alvania # 2 or # 3

SNH	Grams	SNH	Grams	SNH	Grams
508 - 607	60	515 - 612	230	522 - 619	850
509	65	516 - 613	280	524 - 620	1000
510 - 608	75	517	330	526	1100
511 - 609	100	518 - 615	430	528	1400
512 - 610	150	519 - 616	480	530	1700
513 - 612	180	520 - 617	630	532	2000

BEARING LUBRICATION INTERVAL (months)

RPM / SHAFT	1 - 500	501 - 1000	1001 - 1500	1501 - 2000	2001 - 2500	2501 -3000	3001 - 3500	3501 - 4000
65	6	4 - 6	4 - 6	3 - 4	2	1 - 2	1 - 2	1
75	5 - 6	4 - 6	2 - 4	2	1 - 2	1		
85	4 - 6	3 - 5	2 - 4	1 - 2	1			

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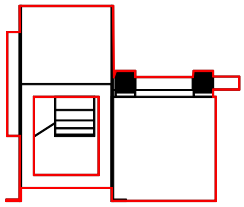
ARRANGEMENTS

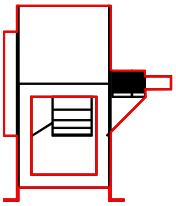
SW - Single Width **DW** - Double Width

SI - Single Inlet **DI** - Double Inlet

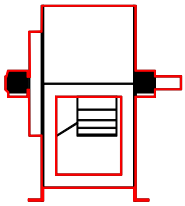
Arrangements 1,3,7 and 8 are also available with bearings mounted on pedestals or base set independent of the fan housing



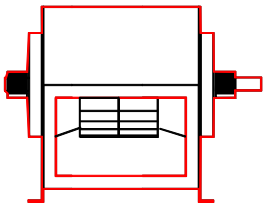
ARR. 1 SWSI For belt drive or direct connection. Impeller overhung Two bearings on base.



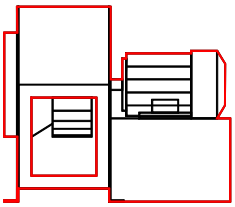
ARR. 2 SWSI For belt drive or direct connection. Impeller overhung Bearings in bracket supported by fan housing.



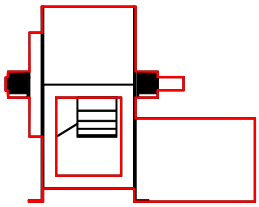
ARR. 3 SWSI For belt drive or direct connection. One bearing on each side and supported by fan housing.



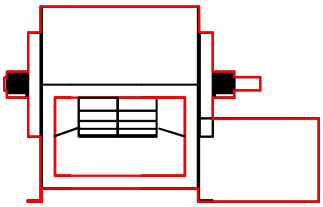
ARR. 3 DWDI For belt drive or direct connection. One bearing on each side and supported by fan housing.



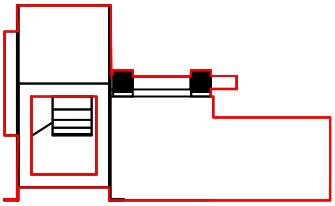
ARR. 4 SWSI For belt drive. Impeller overhung on prime mover shaft. No bearings on fan. Prime mover base mounted or integrally directly connected.



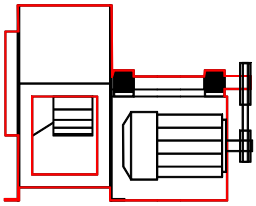
ARR. 7 SWSI For belt drive or direct connection. Arrangement 3 plus base for prime mover.



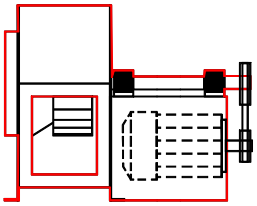
ARR. 7 DWDI For belt drive or direct connection. Arrangement 3 plus base for prime mover.



ARR. 8 SWSI For belt drive or direct connection. Arrangement 1 plus extended base for prime mover.



ARR. 9 SWSI For belt drive. Impeller overhung, two bearings , with prime mover outside base



ARR. 10 SWSI For belt drive. Impeller overhung, two bearings , with prime mover inside base

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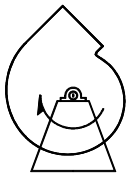
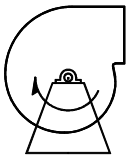
Website : http://www.tangpiriya.com

ROTATION

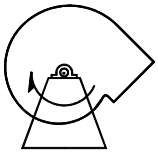
Clockwise
Up Blast
CW 360



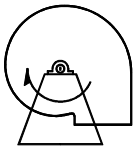
Clockwise
Top Angular Up
CW 45



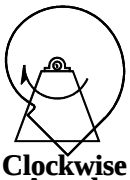
Clockwise
Top Horizontal
CW 90



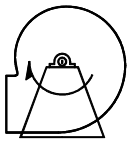
Clockwise
Top Angular Down
CW 135



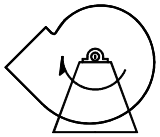
Clockwise
Down Blast
CW 180



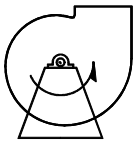
Clockwise
Buttom Angular Down
CW 225



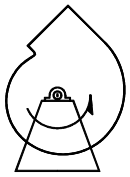
Clockwise
Buttom Horizontal
CW 270



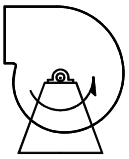
Clockwise
Bottom Angular Up
CW 315



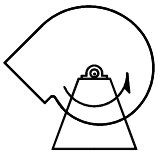
Counter Clockwise
Up Blast
CCW 360



Counter Clockwise
Top Angular Up
CCW 45



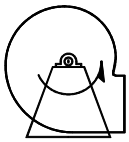
Counter Clockwise
Top Horizontal
CCW 90



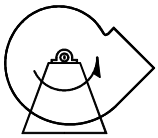
Counter Clockwise
Top Angular Down
CCW 135

Counter Clockwise
Down Blast
CCW 180

Counter Clockwise
Bottom Angular Down
CCW 225



Counter Clockwise
Bottom Horizontal
CCW 270



Counter Clockwise
Bottom Angular Up
CCW 315

Note.

1. Direction of rotation is determined from drive side of fan.
2. On single inlet fans, drive side is always considered as the side opposite fan inlet.
3. On double inlet fans with drives on both sides, drive side is that with the higher powered drive unit.
4. Direction of discharge is determined in accordance with diagrams. Angle of discharge is referred to the vertical axis of fan and designated in degrees from such standard reference axis. Angle of discharge may be any intermediate angle as required.
5. For fan inverted for ceiling suspension,or side wall mounting, direction of rotation and discharge is determined when fan is resting of floor.

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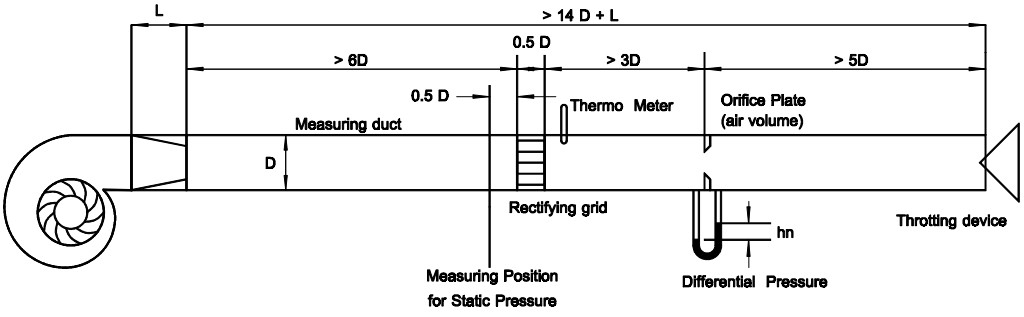
TESTING METHODS FOR TURBO - FAN AND BLOWER

ANSI / AMCA STANDARD 210 - 85

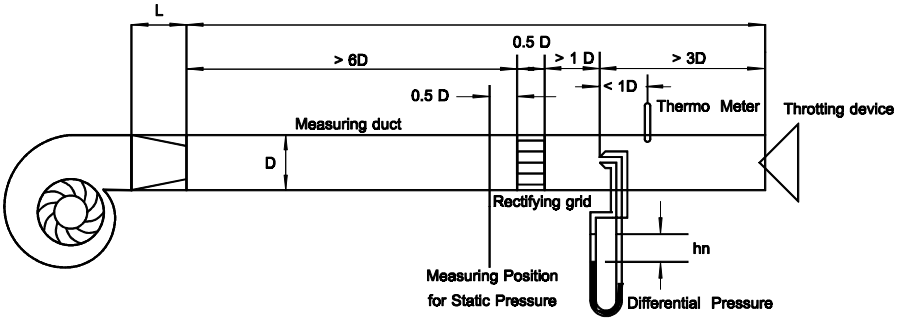
OR

JAPANESE INDUSTRIAL STANDARD : JIS B8330 - 1981

USED ORIFICE PLATE



USED PITOT TUBE



Note : The centre of the fan or suction opening of the measuring duct should position 1 D or more apart from wall or floor.
D : the diameter of the fan suction opening or measuring duct.

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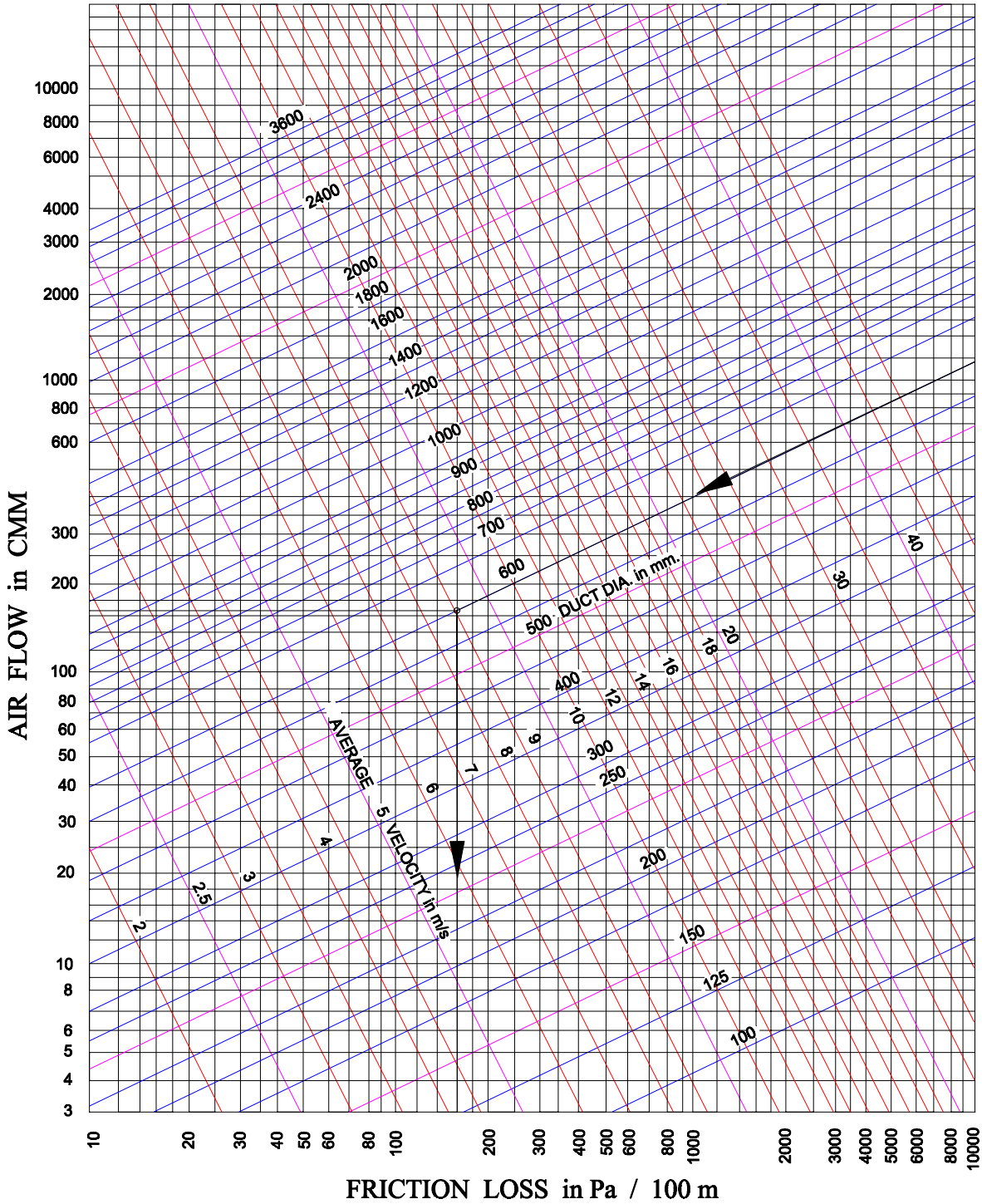
FRICTIONAL LOSS in STRAIGHT CIRCULAR of DUCT



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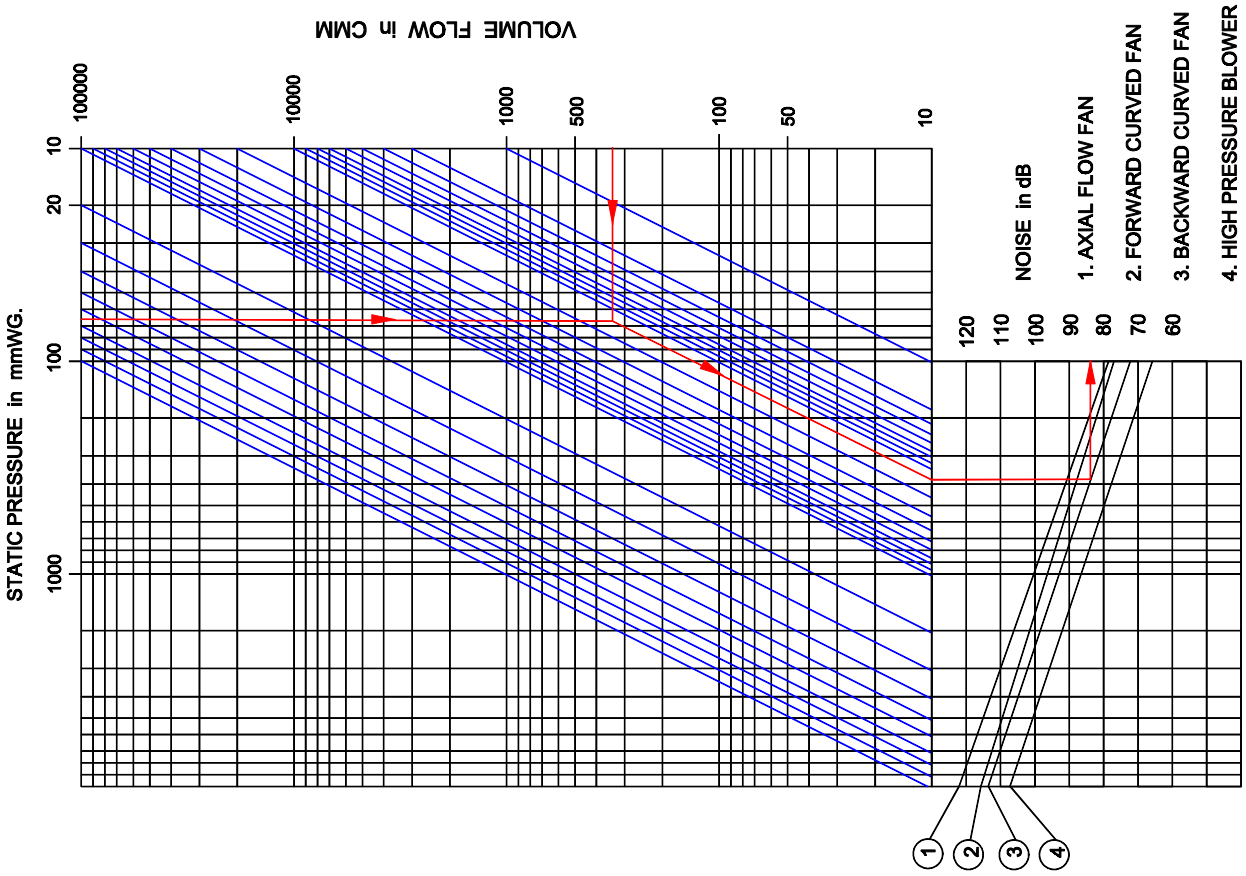
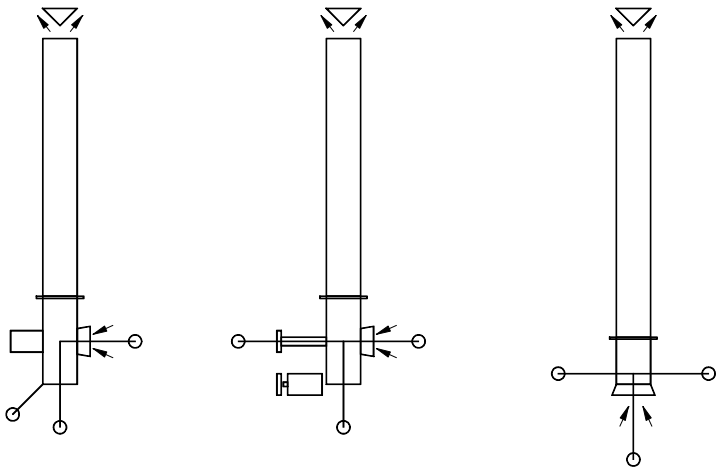


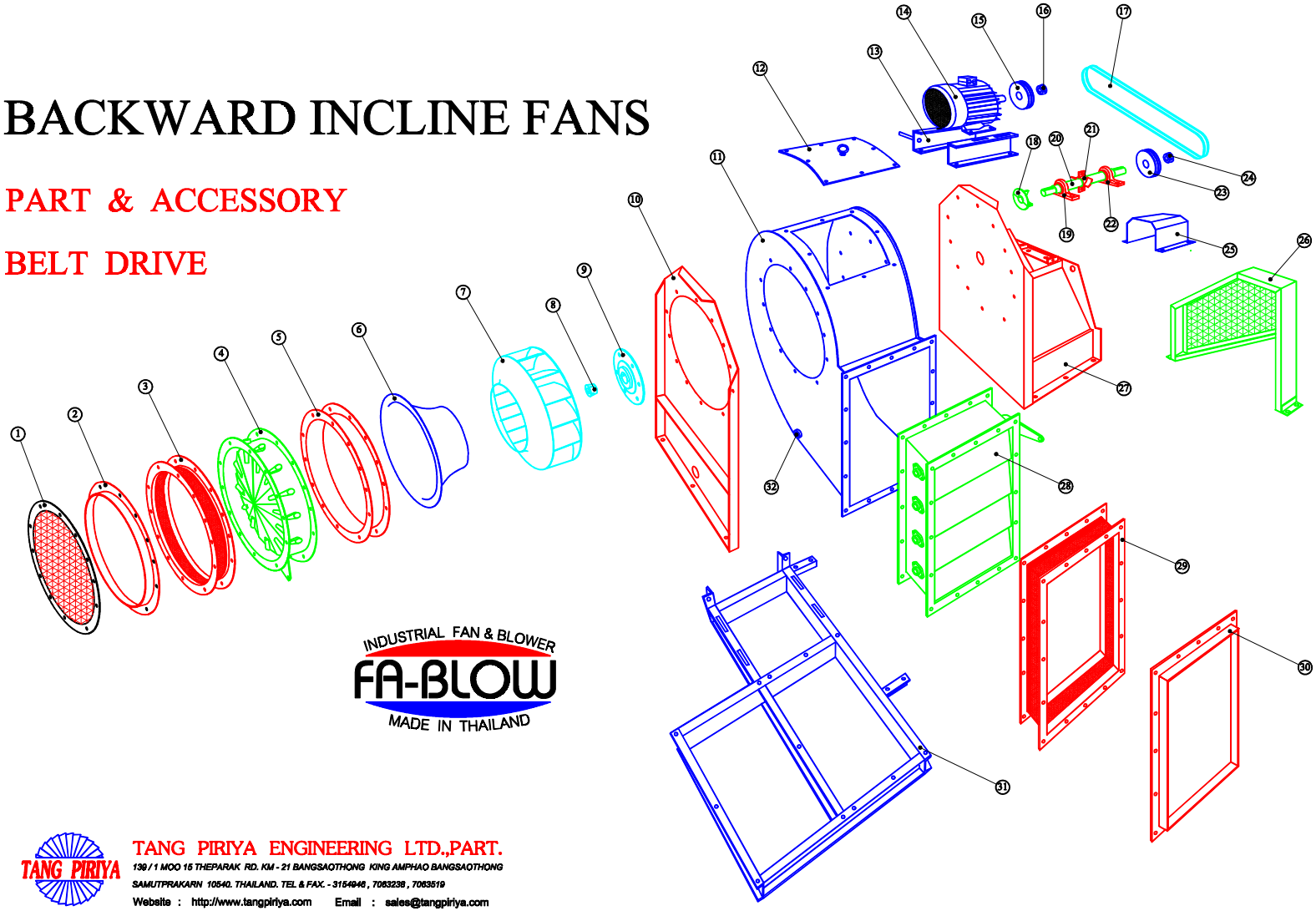
NOISE LEVEL CHART for FAN AND BLOWER JIS B - 8330



BACKWARD INCLINE FANS

PART & ACCESSORY

BELT DRIVE



INDUSTRIAL FAN & BLOWER
FA-BLOW
MADE IN THAILAND

PART LIST

1. INLET NET
2. INLET SINGLE FLANGE
3. INLET FLEXIBLE FLANGE
4. INLET VANE DAMPER
5. INLET TWIN FLANGE
6. INLET CONE
7. IMPELLER
8. TAPER BUSH
9. SM - HUB
10. FRONT BASE
11. HOUSING
12. ACCESSES DOOR
13. MOTOR SLIDE MOUNT
14. MOTOR
15. DRIVEN PULLEY
16. PULLEY TAPER BUSH
17. BELT
18. SHAFT COOLING WHEEL
19. FRONT BEARING
20. SHAFT
21. SHAFT COOLING FAN
22. BACK BEARING
23. FALLOW PULLEY
24. PULLEY TAPER BUSH
25. SHAFT COVER
26. BELT COVER
27. BEARING BASE
28. OUTLET DAMPER
29. OUTLET FLEXIBLE FLANGE
30. OUTLET SINGLE FLANGE
31. FAN BASE

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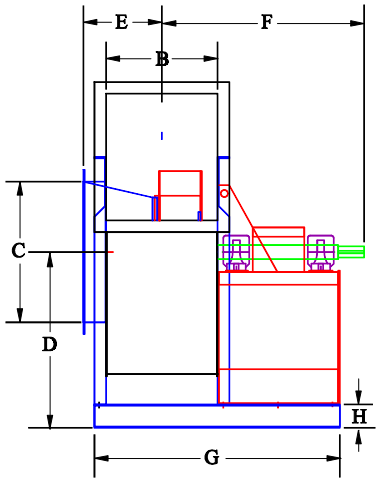
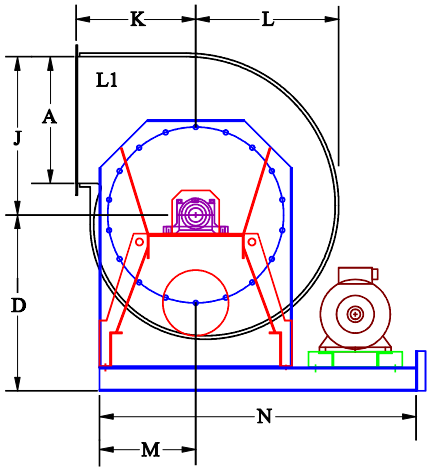
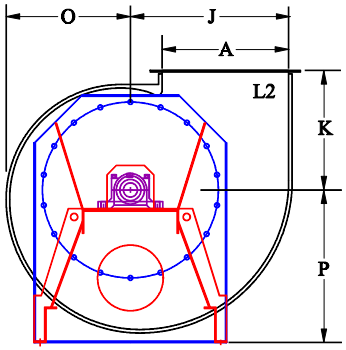
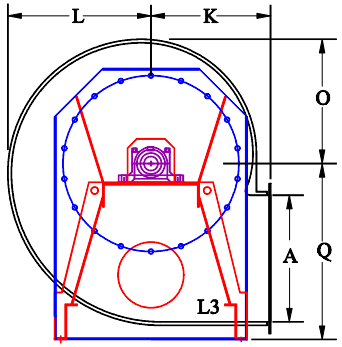
BSB series

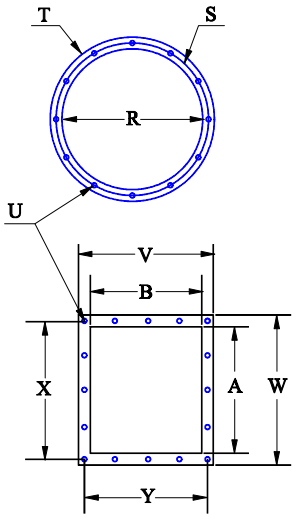
BACKWARD INCLINE BELT DRIVE SINGLE INLET FANS











DIMENSION in mm.

MODEL	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	MAX. HP
BSB - 15	297	262	330	434	184	475	578	76	372	281	336	225	743	292	358	413	330	370	410	1/4"	342	377	337	302	10
BSB - 18	360	317	400	509	223	575	700	76	450	340	407	273	900	353	433	500	400	440	480	5/16"	397	440	400	357	15
BSB - 21	419	368	465	580	260	668	814	76	523	395	473	317	1046	411	504	581	465	505	545	5/16"	448	499	459	408	20
BSB - 24	477	420	530	675	296	762	928	100	597	451	539	362	1193	469	575	663	530	580	630	5/16"	520	577	527	470	25
BSB - 27	540	475	600	750	335	862	1050	100	675	510	610	410	1350	530	650	750	600	650	700	3/8"	575	640	590	525	25
BSB - 30	594	523	660	841	369	948	1155	125	743	561	671	451	1485	583	716	825	660	710	760	3/8"	623	694	644	573	30
BSB - 33	657	578	730	916	408	1049	1277	125	821	620	742	499	1642	645	791	912	730	780	830	3/8"	678	757	707	628	40
BSB - 36	716	630	796	1012	444	1143	1392	150	895	676	809	544	1790	703	862	995	796	846	896	7/16"	730	816	766	680	40
BSB - 42	838	737	931	1158	520	1337	1629	150	1047	791	946	636	2094	822	1008	1164	931	996	1030	7/16"	867	968	903	802	60
BSB - 48	955	840	1061	1330	593	1525	1857	180	1194	902	1076	725	2387	937	1150	1327	1061	1126	1191	1/2"	970	1085	1031	905	75
BSB - 54	1073	943	1192	1471	665	1712	2085	180	1341	1013	1212	814	2680	1053	1291	1490	1192	1257	1322	1/2"	1073	1203	1138	1008	100
BSB - 60	1193	1049	1325	1636	740	1904	2319	200	1491	1126	1347	905	2980	1171	1436	1657	1325	1390	1455	5/8"	1179	1323	1258	1114	125

Dimension not for Installation. For more information contact TANG PIRIYA

BSB series 300 PERFORMANCE CURVED

FA-BLOW
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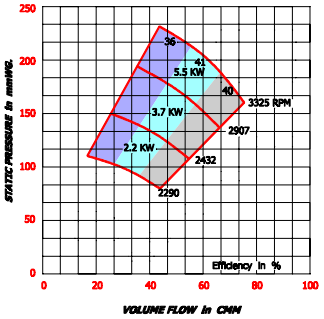
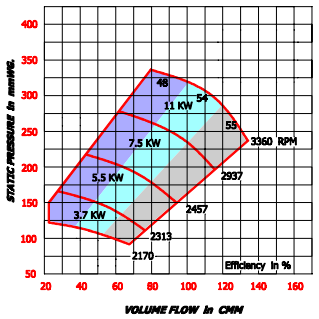
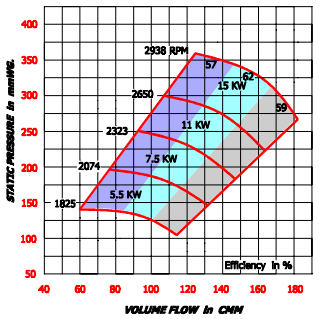
TANG PIRIYA ENGINEERING LTD.,PART.
130 / 1 MOO 15 THEPARAK RD. KM - 21 BANGSAOTHONG KING AMPHAO BANGSAOTHONG
SAMUTPRAKARN 10540. THAILAND. TEL & FAX. - 3154946 , 7063236 , 7063519
Website : http://www.tangpiriya.com Email : sales@tangpiriya.com



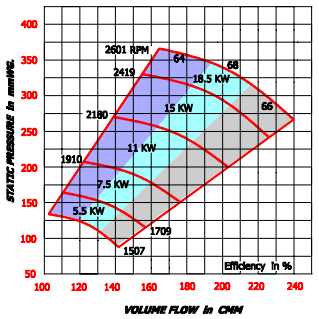
BSB - 15



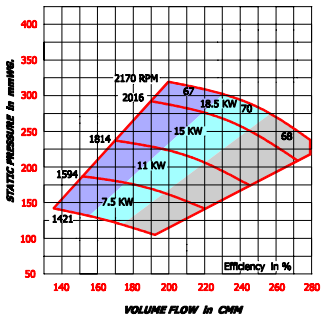
BSB - 18



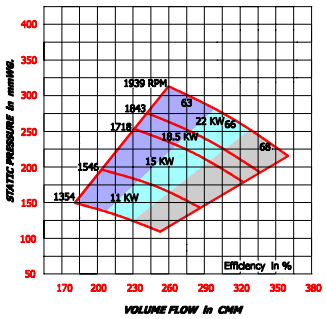
BSB - 21



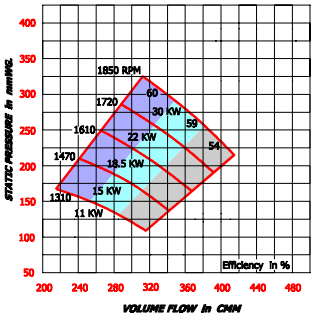
BSB - 24



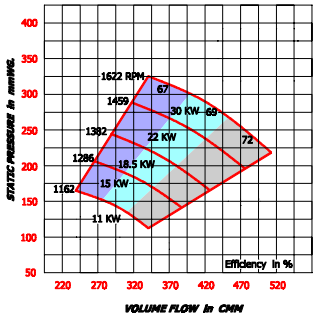
BSB - 27



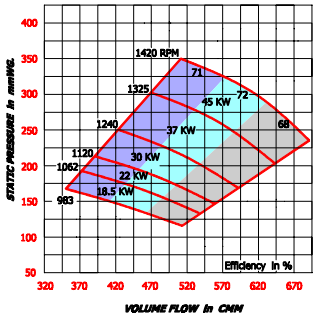
BSB - 30



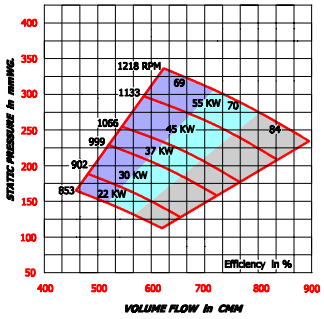
BSB - 33



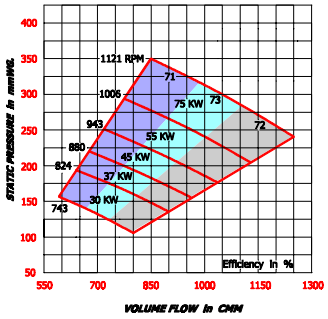
BSB - 36



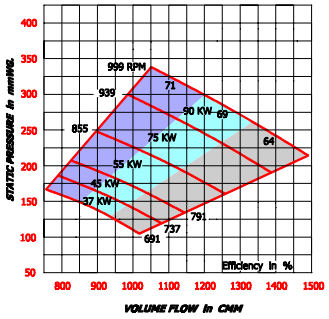
BSB - 42



BSB - 48



BSB - 54



BSB - 60

BACKWARD INCLINE FANS SINGLE WIDTH SINGLE INLET BELT - DRIVE

Air Density 1.2 kg/m3

FA-BLOW

INDUSTRIAL FAN & BLOWER MADE in THAILAND

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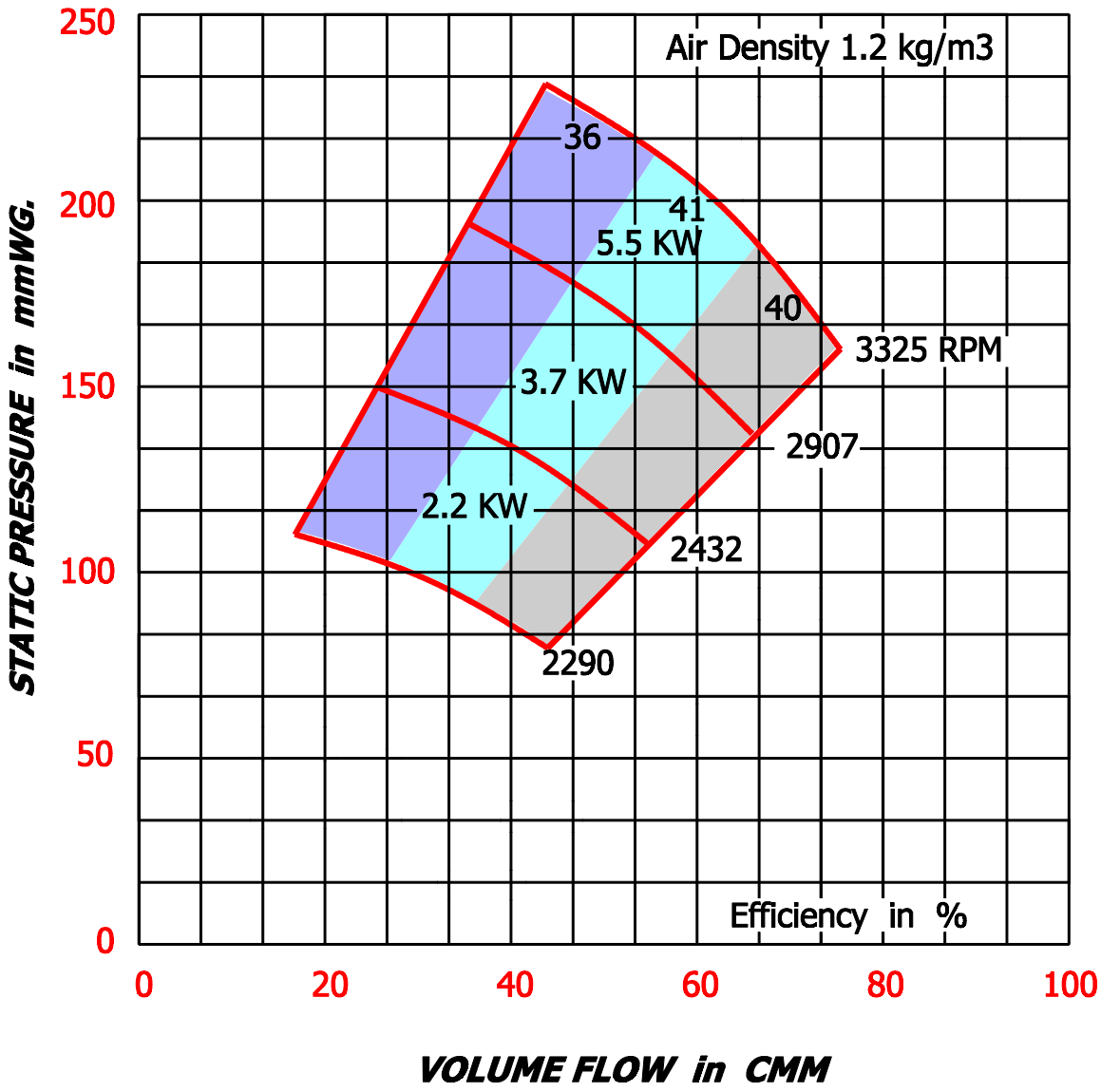
SAMUTPRAKARN 10540. THAILAND. TEL & FAX. - 3154946 , 7063238 , 7063519
Website : http://www.tangpiriya.com Email : sales@tangpiriya.com

BACKWARD INCLINE FANS

BELT - DRIVE



Class 1 max.RPM 1990
Class 2 max.RPM 2700
Class 3 max.RPM 3800

1 mmWG. = 9.81 Pa.

1 CMM = 35.3 CFM

1 HP = 0.75 KW

BSB - 15

FA-BLOW

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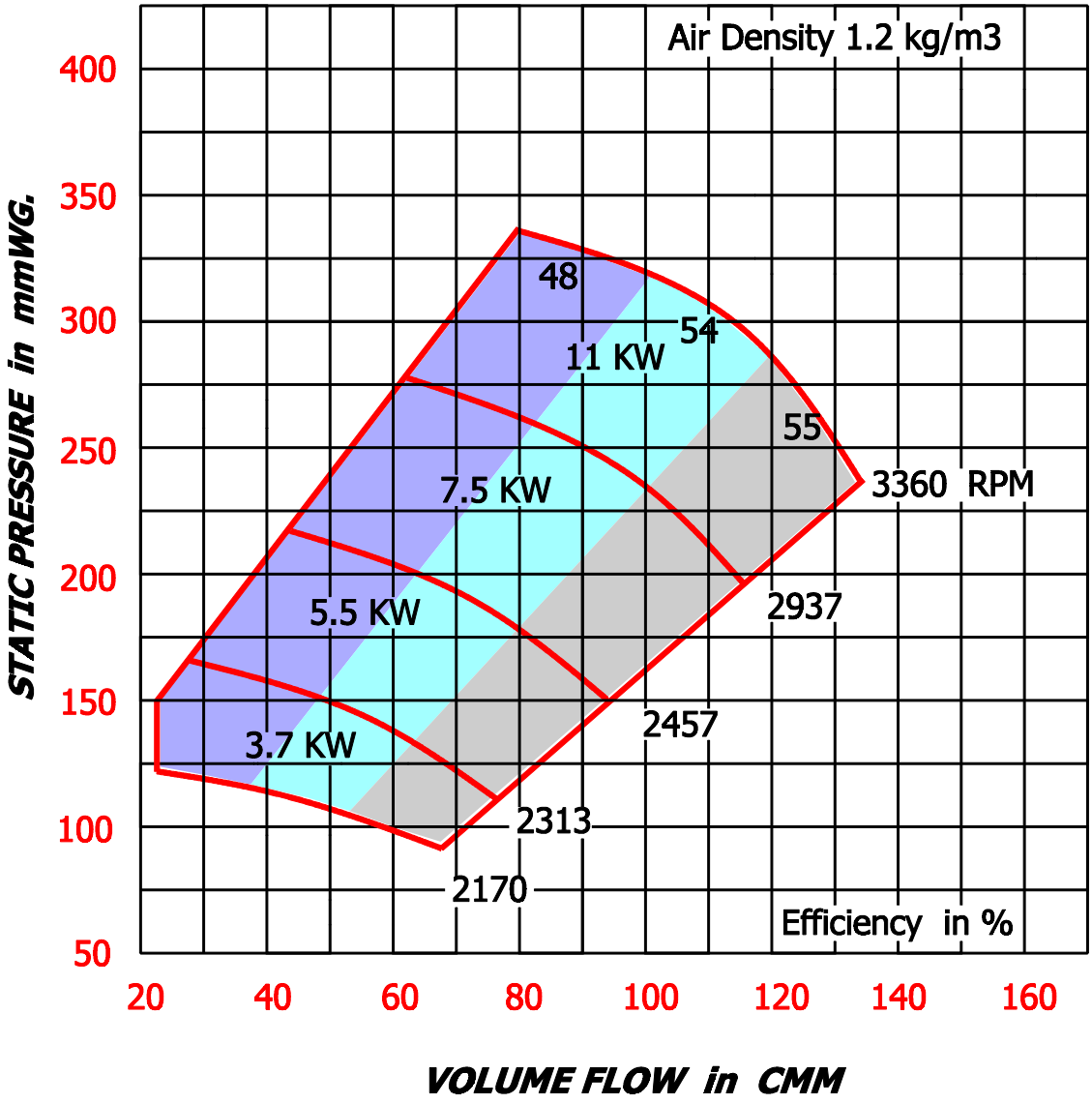
BACKWARD INCLINE FANS

BELT - DRIVE



Class 1 max.RPM 1990
Class 2 max.RPM 2700
Class 3 max.RPM 3800

1 mmWG. = 9.81 Pa.

1 CMM = 35.3 CFM

1 HP = 0.75 KW

BSB - 18

FA-BLOW

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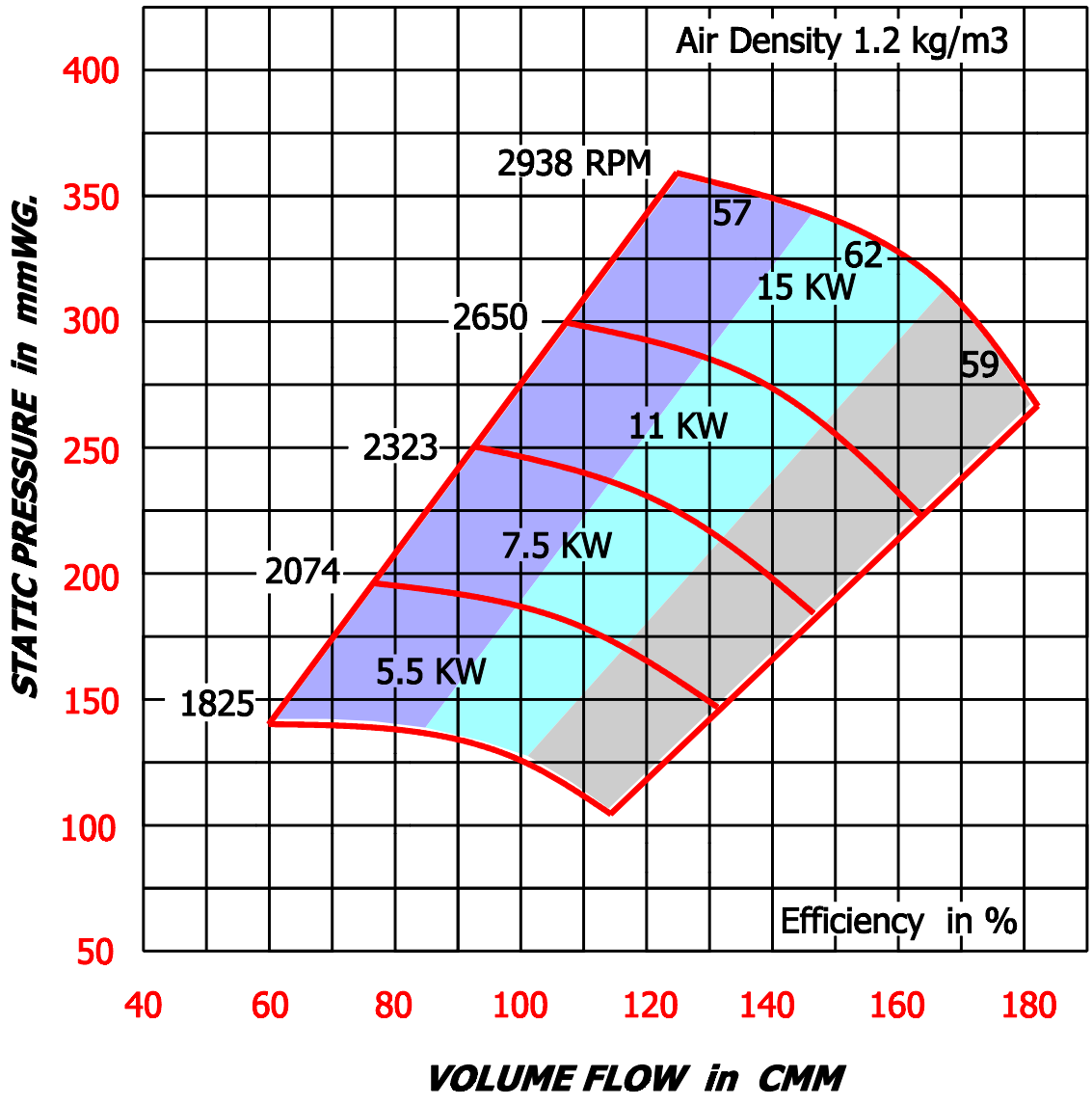
BACKWARD INCLINE FANS

BELT - DRIVE



Class 1 max.RPM 1700
Class 2 max.RPM 2300
Class 3 max.RPM 3350

1 mmWG. = 9.81 Pa.

1 CMM = 35.3 CFM

1 HP = 0.75 KW

BSB - 21

FA-BLOW

INDUSTRIAL FAN & BLOWER MADE in THAILAND

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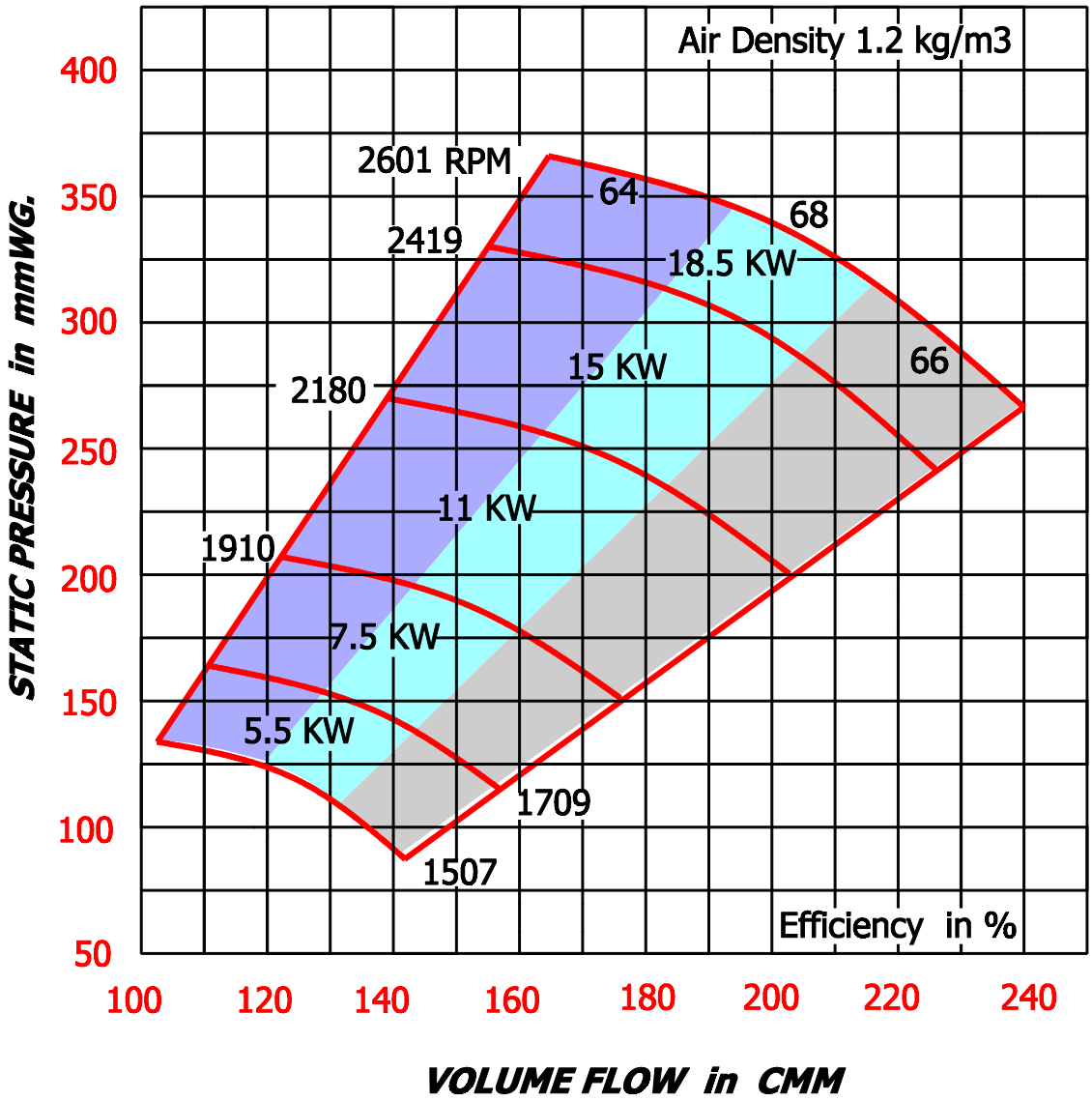
Website : http://www.tangpiriya.com Email : sales@tangpiriya.com

BACKWARD INCLINE FANS

BELT - DRIVE



Class 1 max.RPM 1500
Class 2 max.RPM 2100
Class 3 max.RPM 2900

1 mmWG. = 9.81 Pa.

1 CMM = 35.3 CFM

1 HP = 0.75 KW

BSB - 24

FA-BLOW

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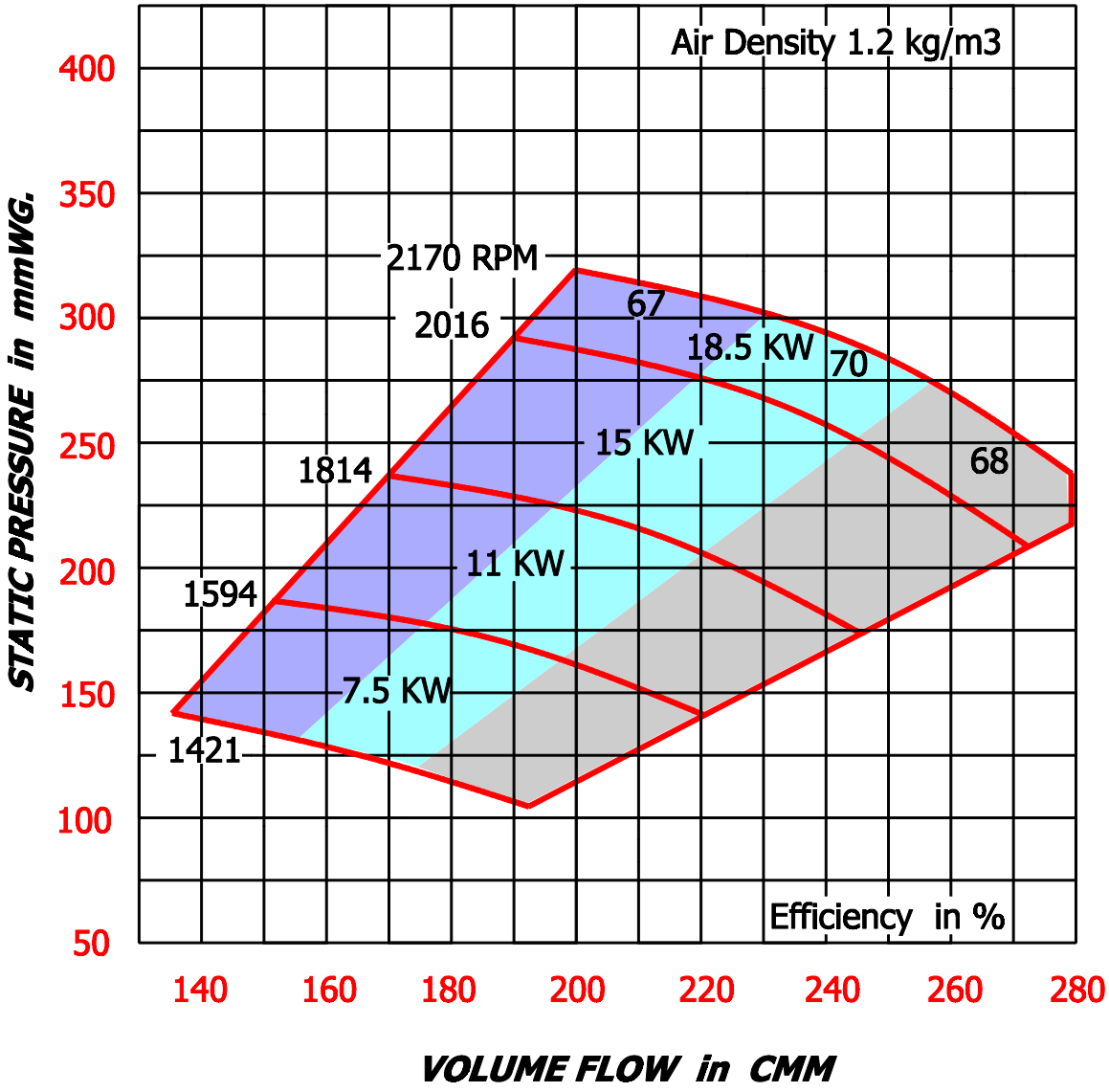
Website : http://www.tangpiriya.com Email : sales@tangpiriya.com

BACKWARD INCLINE FANS

BELT - DRIVE



Class 1 max.RPM 1340
Class 2 max.RPM 1840
Class 3 max.RPM 2400

1 mmWG. = 9.81 Pa.

1 CMM = 35.3 CFM

1 HP = 0.75 KW

BSB - 27

FA-BLOW

INDUSTRIAL FAN & BLOWER MADE in THAILAND

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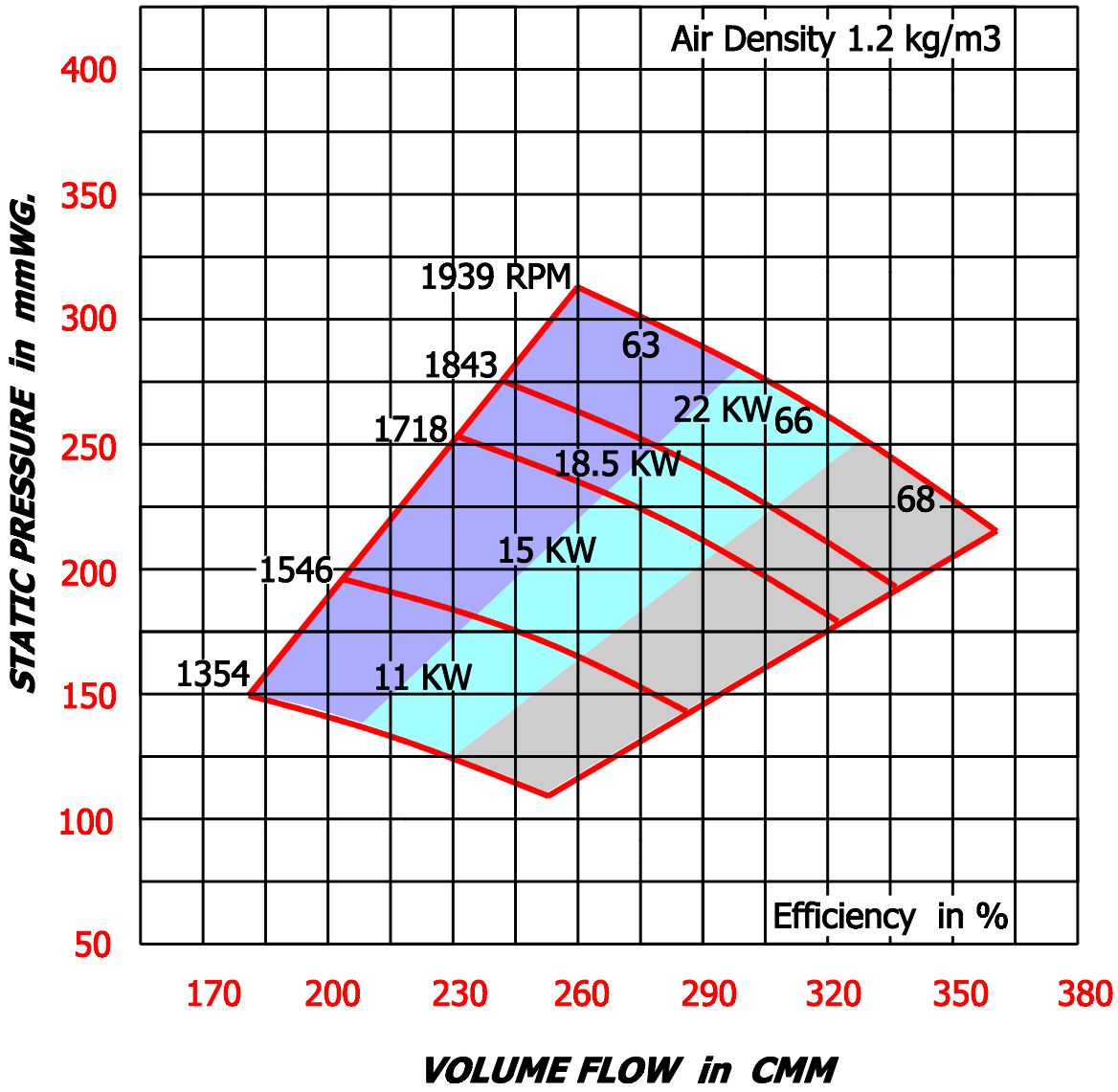
Website : http://www.tangpiriya.com Email : sales@tangpiriya.com

BACKWARD INCLINE FANS

BELT - DRIVE



Class 1 max.RPM 1200
Class 2 max.RPM 1655
Class 3 max.RPM 2160

1 mmWG. = 9.81 Pa.

1 CMM = 35.3 CFM

1 HP = 0.75 KW

BSB - 30

FA-BLOW

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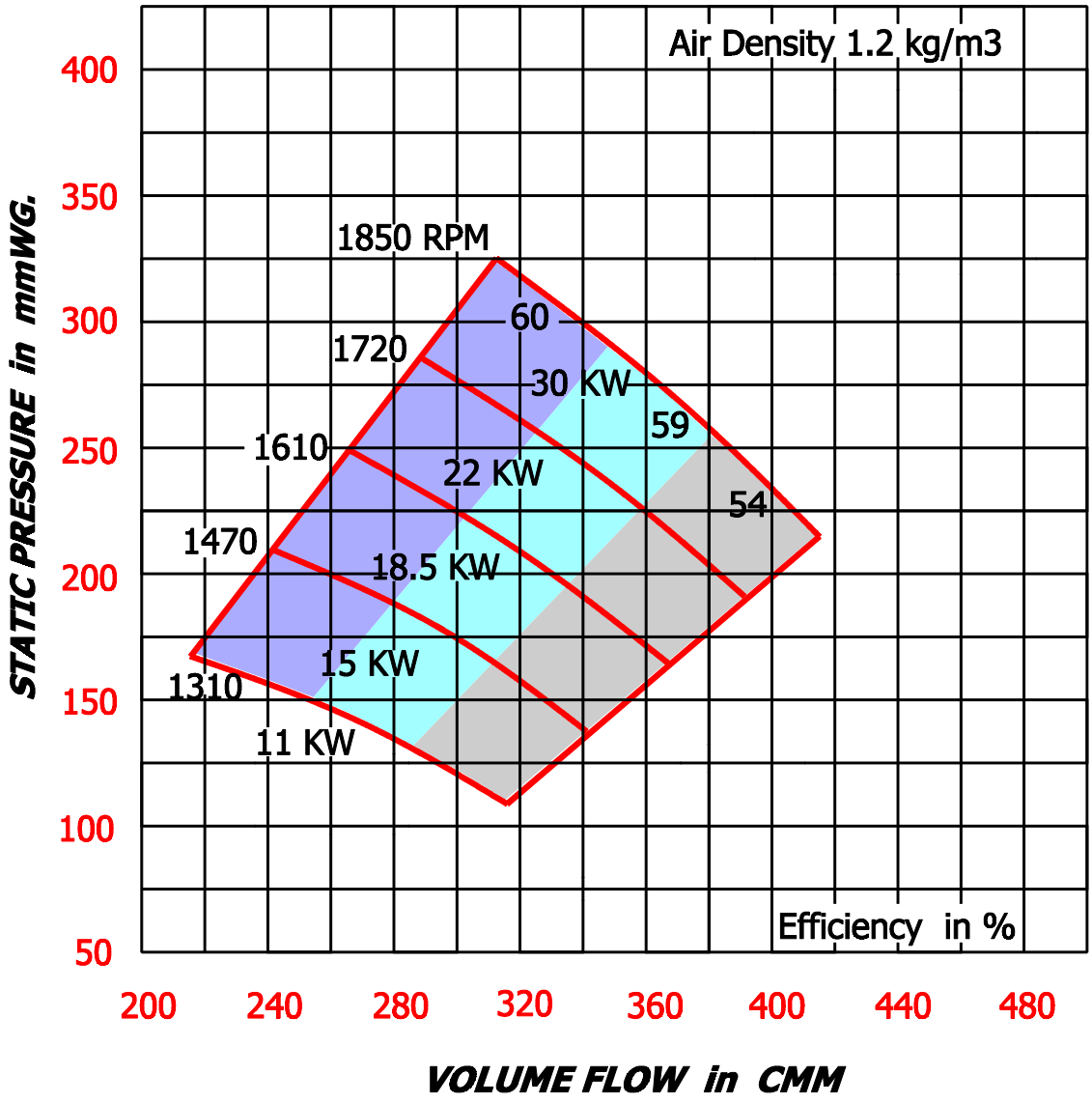
Website : http://www.tangpiriya.com Email : sales@tangpiriya.com

BACKWARD INCLINE FANS

BELT - DRIVE



Class 1 max.RPM 1100
Class 2 max.RPM 1500
Class 3 max.RPM 1960

1 mmWG. = 9.81 Pa.

1 CMM = 35.3 CFM

1 HP = 0.75 KW

BSB - 33

FA-BLOW

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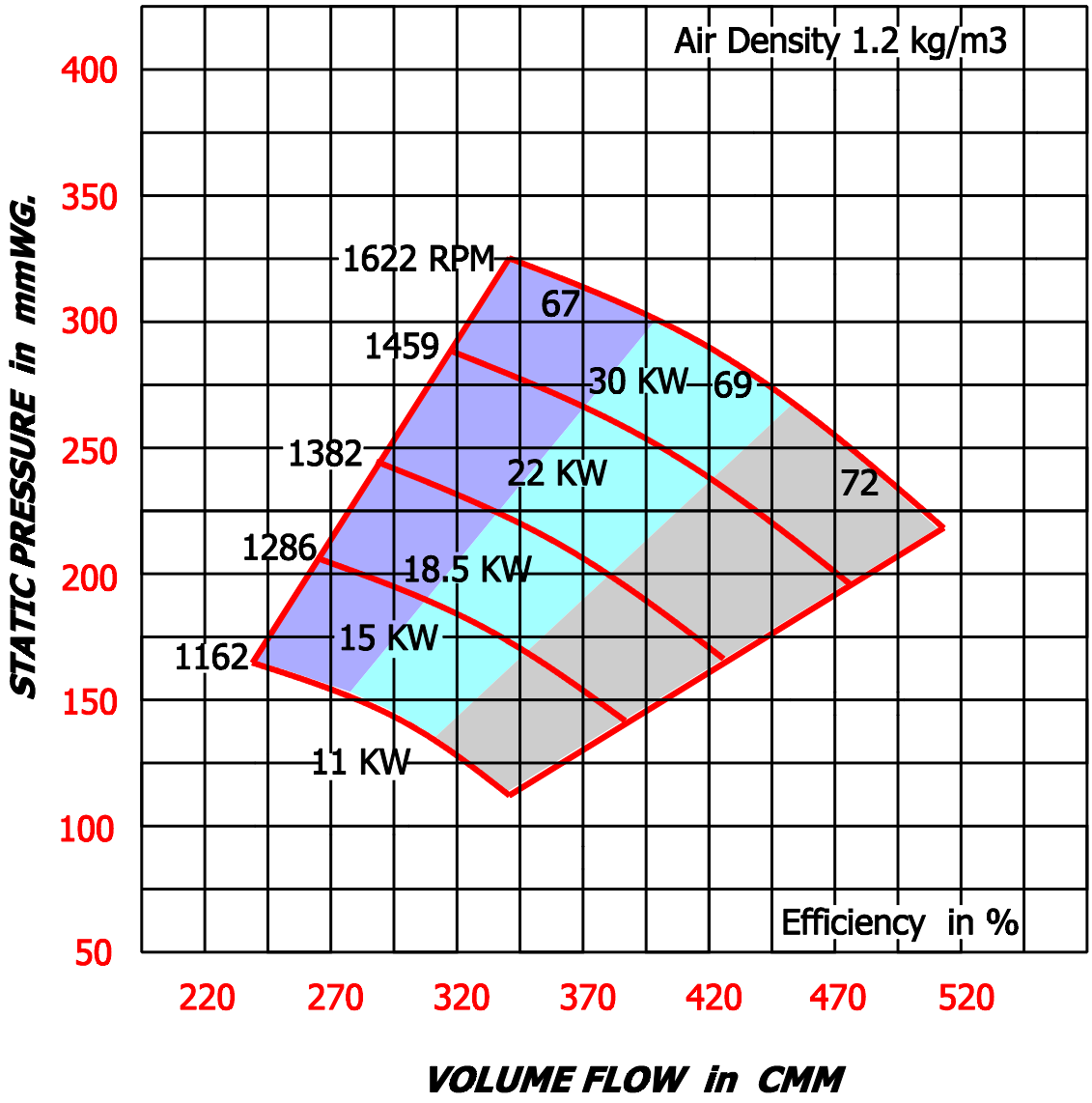
Website : http://www.tangpiriya.com Email : sales@tangpiriya.com

BACKWARD INCLINE FANS

BELT - DRIVE



Class 1 max.RPM 1000
Class 2 max.RPM 1380
Class 3 max.RPM 1800

1 mmWG = 9.81 Pa.

1 CMM = 35.3 CFM

1 HP = 0.75 KW

BSB - 36

FA-BLOW

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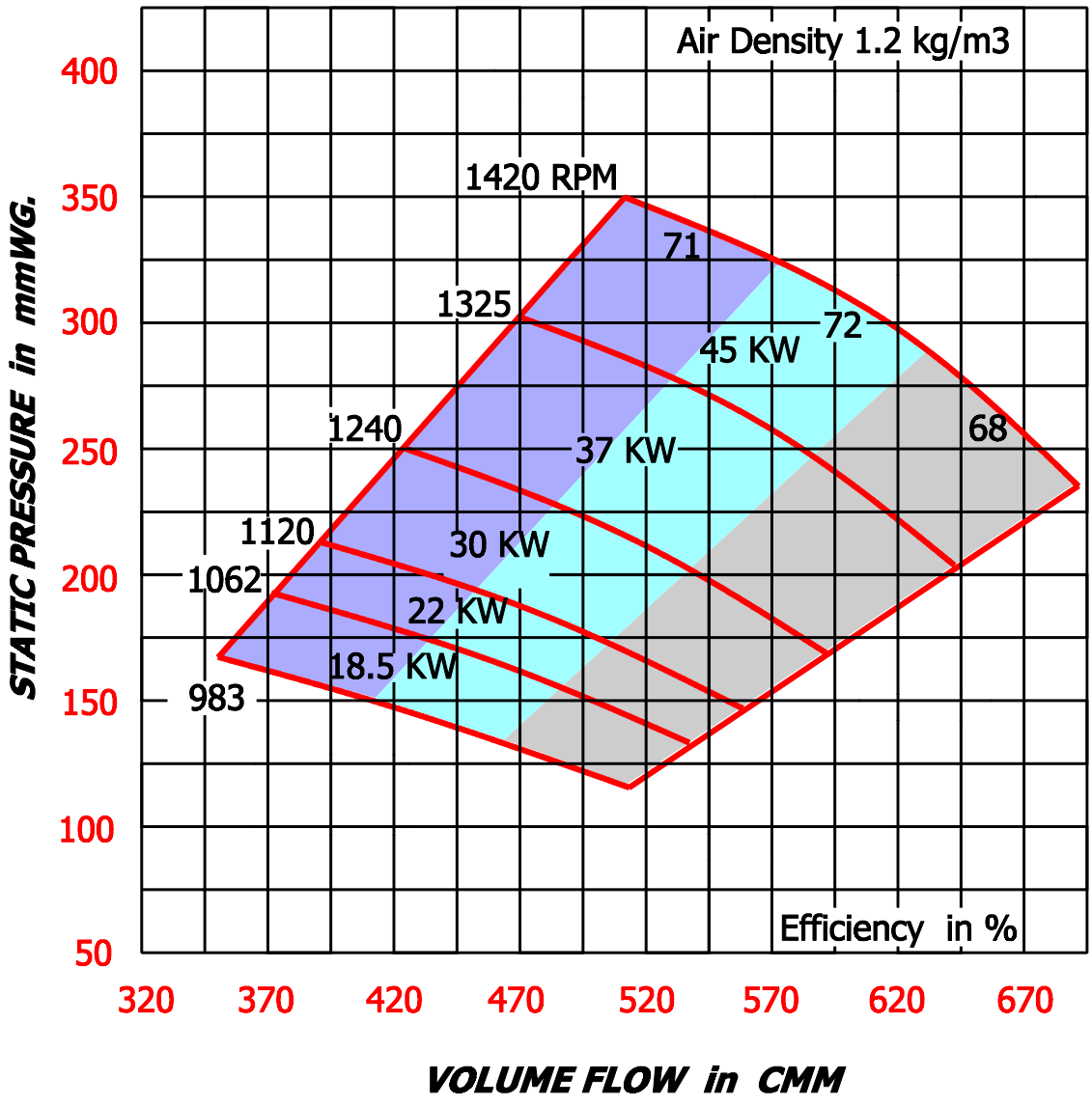
Website : http://www.tangpiriya.com Email : sales@tangpiriya.com

BACKWARD INCLINE FANS

BELT - DRIVE



Class 1 max.RPM 860
Class 2 max.RPM 1190
Class 3 max.RPM 1550

1 mmWG. = 9.81 Pa.

1 CMM = 35.3 CFM

1 HP = 0.75 KW

BSB - 42

FA-BLOW

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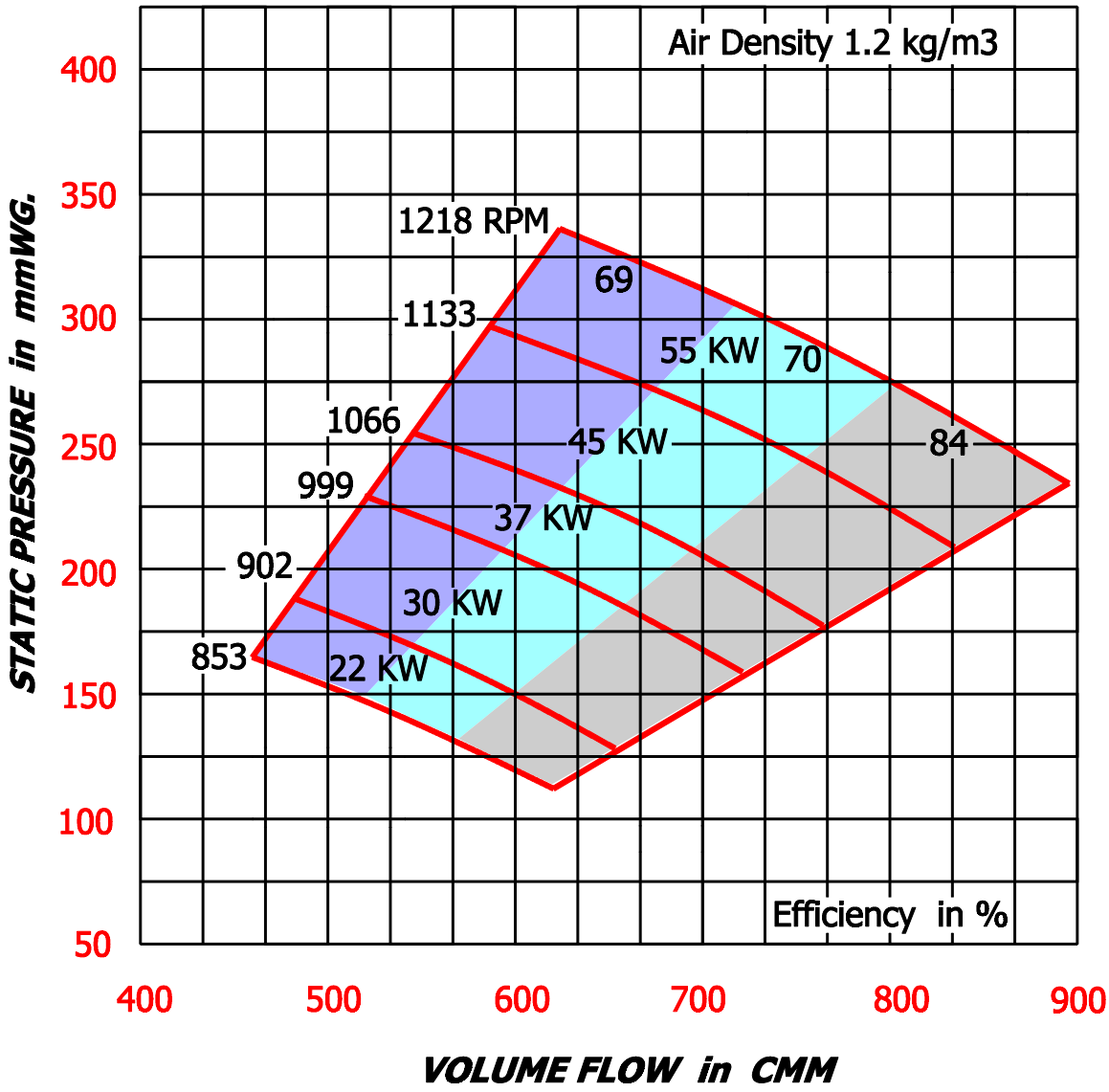
Website : http://www.tangpiriya.com Email : sales@tangpiriya.com

BACKWARD INCLINE FANS

BELT - DRIVE



Class 1 max.RPM 780
Class 2 max.RPM 1100
Class 3 max.RPM 1380

1 mmWG. = 9.81 Pa.

1 CMM = 35.3 CFM

1 HP = 0.75 KW

BSB - 48

FA-BLOW

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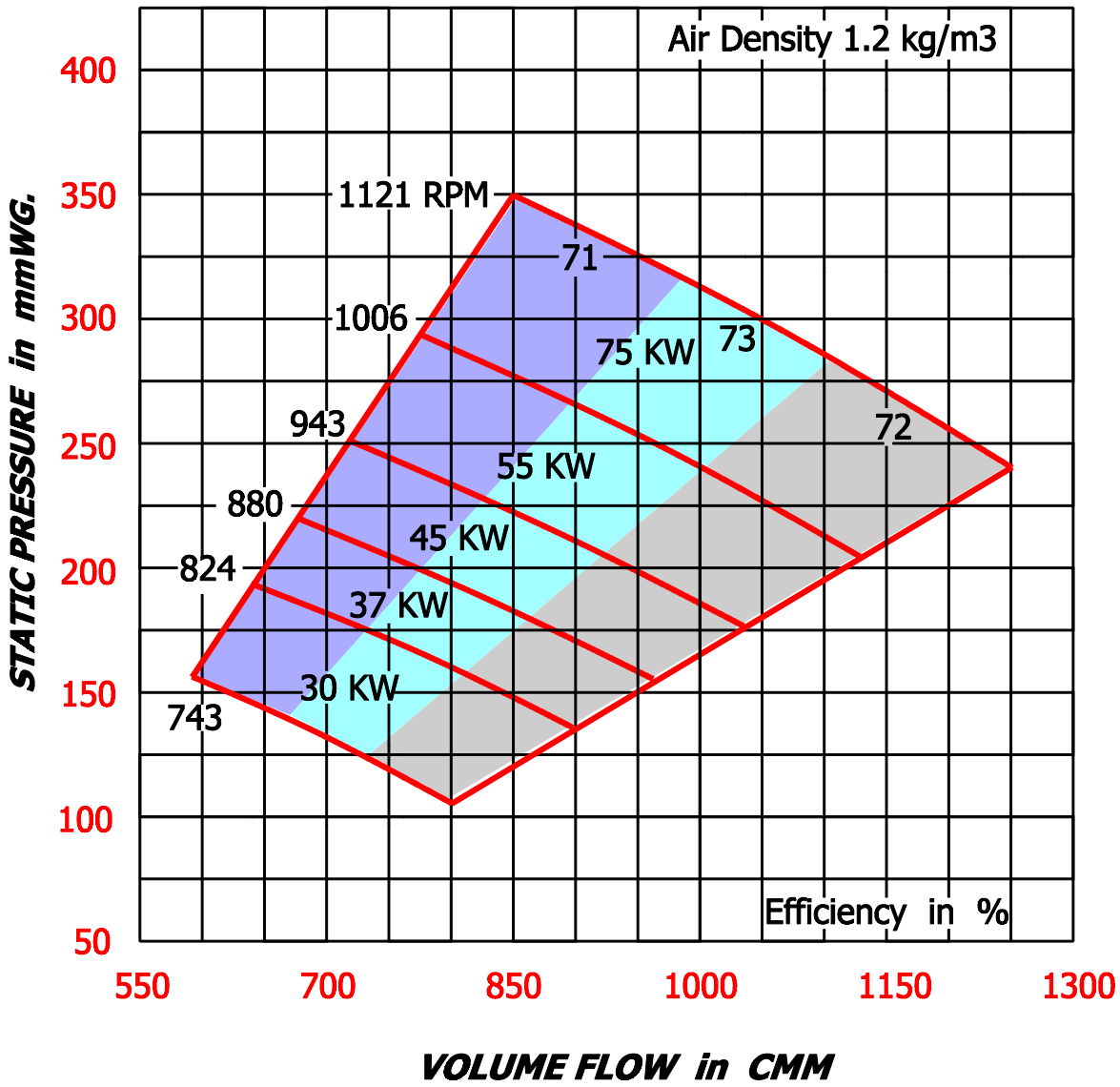
Website : http://www.tangpiriya.com Email : sales@tangpiriya.com

BACKWARD INCLINE FANS

BELT - DRIVE



Class 1 max.RPM 675
Class 2 max.RPM 920
Class 3 max.RPM 1200

1 mmWG. = 9.81 Pa.

1 CMM = 35.3 CFM

1 HP = 0.75 KW

BSB - 54

FA-BLOW

INDUSTRIAL FAN & BLOWER MADE in THAILAND

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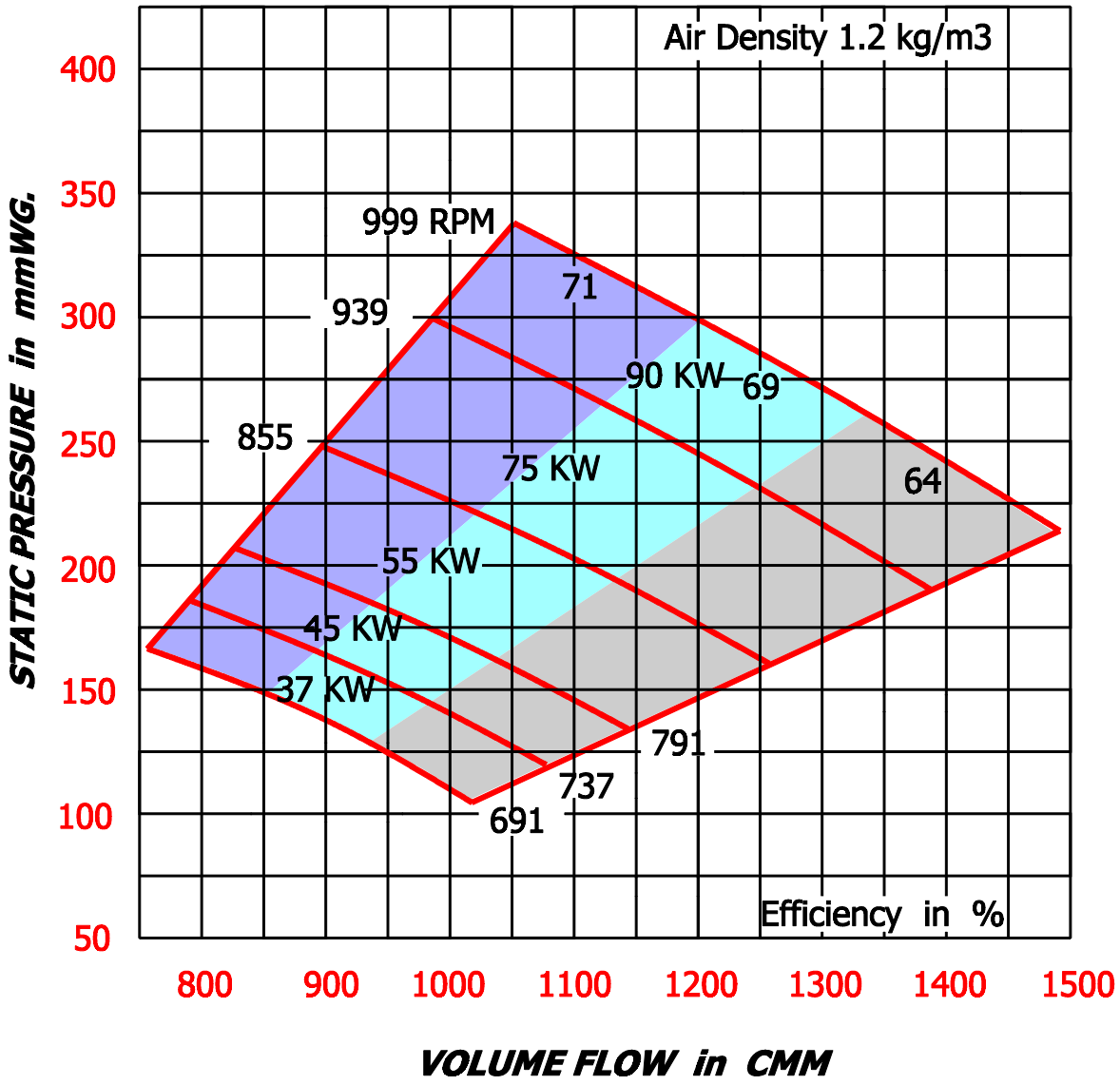
Website : http://www.tangpiriya.com Email : sales@tangpiriya.com

BACKWARD INCLINE FANS

BELT - DRIVE



Class 1 max.RPM 610
Class 2 max.RPM 835
Class 3 max.RPM 1090

1 mmWG. = 9.81 Pa.

1 CMM = 35.3 CFM

1 HP = 0.75 KW

BSB - 60