

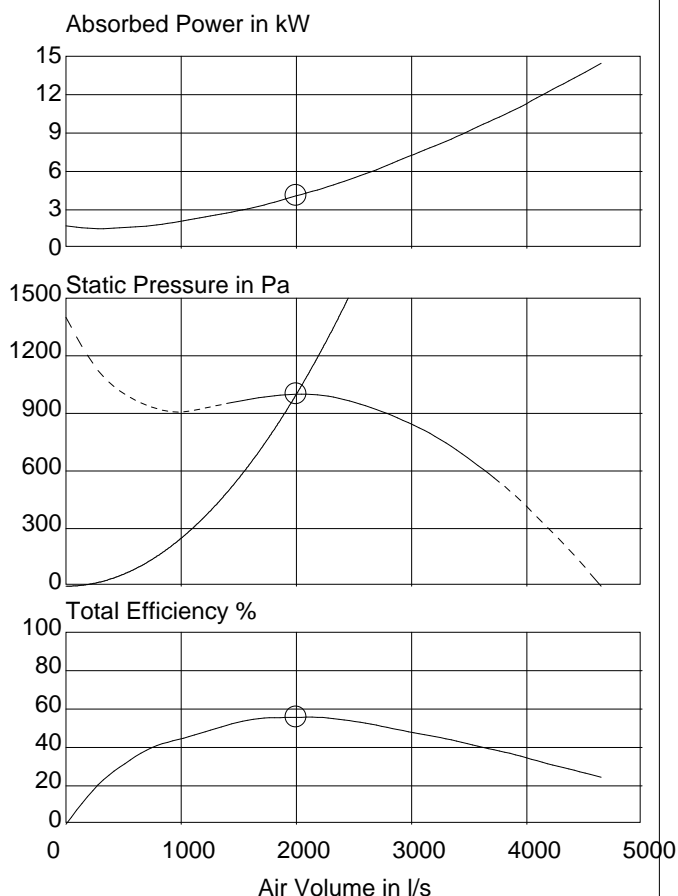
Date 18th MAY 2010
 Company
 Attention
 Project DUNG QUOC PETROLEUM REFINERY
 Reference KVN10-KD-072A
 Notes CFR-2000 L/S@1000 Pa
 Centrifugal fan

KRUGER

Kruger Ventilation Industries (VN) Co.,Ltd
 Lot A13-9 Central Road, Bourbon An Hoa IP
 Trang Bang Dist., Tay Ninh Province, Viet Nam

Tel: +84 66 3585200 fax: +84 66 3585199
 email: mktg@krugervn.com

Fan Type	SISW Forward Curved
Unit	FSA400/UIIM (CLII)
Operating Conditions	Ducted
Air Volume	2000 l/s
Static Pressure	1000 Pa
Velocity Pressure	141 Pa
Total Pressure	1141 Pa
Outlet Velocity	15.44 m/s
Fan Total Efficiency	55.7 %
Fan Static Efficiency	48.8 %
Fan Speed	1322 rpm
Air Temperature	20.0 °C
Altitude	0 m
Fan Absorbed Power	4.10 kW
Motor Installed Power	D132S (5.50 kW)
Motor Speed	1450 rpm
Service Factor	10 %
Plenum Size	-
Outlet Size	-
Rec. Airflow Variation	-
Fan Pulley / Bush / Shaft	200 mm / 2012 / 35 mm
Motor Pulley / Bush / Shaft	180 mm / 2012 / 38 mm
Belt Length	2000 mm
Number of Belts / f	2 x SPZ (25 N)
Static Belt Tension/Belt	434 N / 334 N
Belt Deflection	10 mm / 13 mm
Belt Speed (<40m/s)	13.7 m/s
Bearing Life (L10 / L50)	727465 / 2909861 hour
Starting Torque	0.52 kgm
Operating Limits	
Max. Absorbed Power	8.00 kW
Max. Fan Speed	1800 rpm
Temperature (Min-Max)	-20° to +180°C



Hz	63	125	250	500	1k	2k	4k	8k	Overall
Lwi(Lin)	85	89	94	91	93	87	86	84	99 dB
Lwi(A)	60	74	85	88	93	88	87	83	96 dB(A)
Lpi(A)	43	57	69	71	76	72	71	66	79 dB(A)

* Sound data is for the inlet side

* Sound Pressure Level 3m, Room Conditions

Date 19th MAY 2010
 Company
 Attention
 Project GOLDEN SQUARE
 Reference KVN10-KD-074A
 txtnotes EAF-8700 L/S
 Axial fan

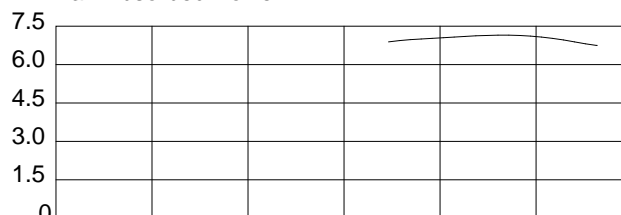
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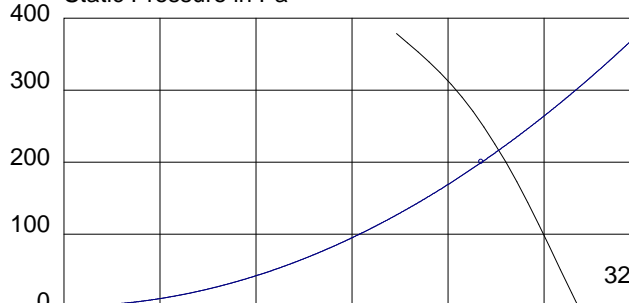
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Fan Type	Belt Driven Fan
Unit	TBE800-12AA-8-8 / 32°
Operating Conditions	Long Cased / Dir B / Type D
Air Volume	8700 l/s
Static Pressure	200 Pa
Velocity Pressure	180 Pa
Total Pressure	380 Pa
Outlet Velocity	17.31 m/s
Fan Total Efficiency	46%
Fan Static Efficiency	24%
Fan Speed	1450 rpm
Air Temperature	20 °C
Altitude	0 m
Fan Absorbed Power	7.12 kW
Motor Power	D132M (7.50 kW)
Motor Speed	1450 rpm

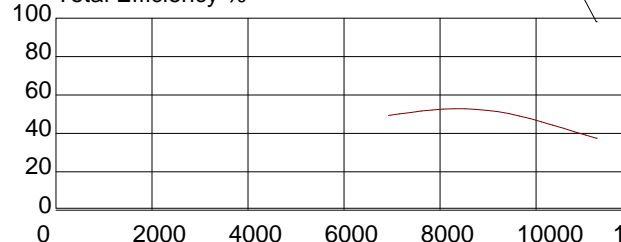
Fan Absorbed Power



Static Pressure in Pa



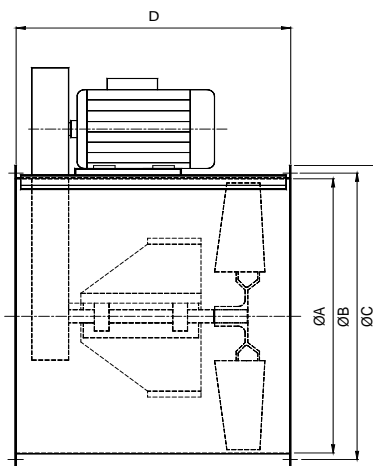
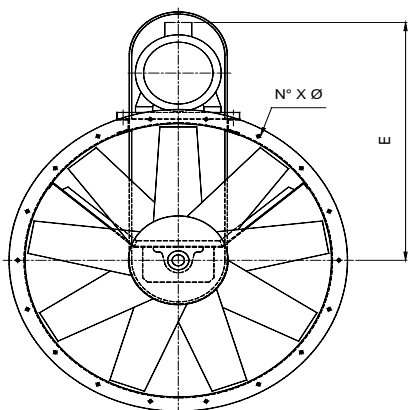
Total Efficiency %



Air Volume in l/s

Hz	63	125	250	500	1k	2k	4k	8k	Overall
Lw (Lin)	92	93	101	94	92	89	86	83	103 dB
Lw (A)	67	78	93	91	92	90	87	82	98 dB(A)
Lp (A)	50	61	76	75	75	74	71	66	81 dB(A)

* Sound pressure level @ distance 3m, Room Conditions



A	B	C	D	E	N°xØ
800	845	900	710	700-775	8x12