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Engineering Data Sheet	
Blower	
Centrifugal Fan	
Project: 69896	
Reg-No.: 69896-DA50-A-43-K235-0213 Rev: 00	
ZHONGJIN PA	
Item, Rev	
1	Section
2	DA50-A-43 CUTTER WATER CIRCUIT
3	Item / Loop
4	Component
5	Tag
6	Secondary Item / Loop
7	Secondary Component
69896-006220	
Y573M25110 31212	
DA69896-02434100/00	
GENERAL DATA	
11	Quantity
12	1
13	Attached Documents
14	M-098
15	Vendor
16	Type
17	Serial Number
DOCUMENT REVISIONS	
18	Rev Subject
19	Prepared
20	Checked
21	Authorized
22	Date
23	05
24	04
25	03
26	02
27	01
28	00
Buyer Supply / for Inquiry	
Kolb K. S.	
Albrecht	
Breyer	
20.08.2013	

Engineering Data Sheet

Blower  
Centrifugal Fan  
Project: 69896  
Reg-No.: 69896-DA50-A-43-K235-0213 Rev: 00  
ZHONGJIN PA

Item, Rev

Section	Item / Loop	Component	Tag	Secondary Item / Loop	Secondary Component
2	DA50-A-43 CUTTER WATER CIRCUIT	EXHAUST FAN	001		

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OPERATING DATA

69	Medium	Air	Location	Ambient Temp. at Plant Site	Min.	5.0	Indoors
70	Dust Content	-					
71	Dewpoint	°C			Max.	40.0	
72	Cold Start			Barometric Pressure	Min.		1 mbar
73	Frequency of Starts	5			Max.		
74	Min. Cold Start Temperature	10.00	°C	Duty			continuous
75							
76	Operating Case	Normal Case	Minimum Case	Maximum Case			4

Operating Case	Normal Case	Minimum Case	Maximum Case
Mass Flow	1,562 kgs	1,679 kgs	kg/h
Volume Flow	1,388 m <sup>3</sup> /s	1,527 m <sup>3</sup> /s	m <sup>3</sup> /h
Inlet Temperature	30.0 °C	100.0 °C	°C
Inlet Pressure	984.00 mbar	mbar	mbar
Outlet Pressure	1014.00 mbar	mbar	mbar
Static Differential Pressure	30.00 mbar	mbar	mbar
Inlet Density	1.126 kg/m <sup>3</sup>	kg/m <sup>3</sup>	kg/m <sup>3</sup>

DESIGN DATA

Design Code	DIN	Shaft
Max. All Sound Level (dB (A))	85.00	
Design Gauge Pressure	Min.	Max.
Design Temperature	Min.	Max.
Spark Resistant	Yes	Casing
Gas Tight Design	Split	Fixed Inlet Vanes
Wheel	Access Door	Insulation Clips
Blade Form	Inlet Area	Discharge Area
Kind of Fabrication	#	mm
Diameter	mm	mm
Number of Blades	mm	mm
Tip Width	mm	mm
Attachm. Method of Wheel	Location	Temp. Connection Req'd
Attachm. Method of Liners	Type	Conn. Size
Shaft Seal	Bearings	Radial Bearing Type
Type of Seal	#	ball bearing

## ADMINISTRATION DATA

Section	Item / Loop	Component	Tag	Secondary Item / Loop	Secondary Component
2	DASO-A-43	CUTTER WATER CIRCUIT			
3	DASO-A-43K01	EXHAUST FAN	001		

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[illegible]

Code	Manufacturer	Support
119	Clearance	
120	ball bearing #	
121	Heat Slinger	
122	# Gas Deflector	
123	# Cooling / Heating Required	
124	Bracket	
125	Kind of Lubrication	
126	grease	

	PERFORMANCE DATA	
25	Number of Stages	1 # Max Static Gauge Pressure
26	Velocity at Inlet	m/s # Velocity at Discharge
27	Efficiency	% # Discharge Temperature
28	Power Absorbed Max.	KW # Power Rated Condition
29	Max. Temp. Change Allow.	C # Rated Speed
30	Rotation (facing coupling)	min-1 at
31	Max. Differential Pressure	clockwise
32	suction closed	First Critical Speed
33	discharge closed	mbar # Flywheel Effect [Nm <sup>2</sup> s]
34	Expected Sound Level [dB (A)]	mbar # Impeller/Blade Reson. Freqn.
35	Type of Noise Protection	dB #
36		#
37		

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All connections in acc. with				
Nozzle	DN	PN	EN 1092	Facing
Inlet	300	10	1/02	axial
#				Location

# Engineering Data Sheet

A

Reg-No.: 69896-DA50-A-43-K235-0213 Rev: 00

ZHONGJIN PA

Project: 69896

(Rev. Rev)

## ADMINISTRATION DATA

2	Section	DA50-A-43 CUTTER WATER CIRCUIT	
3	Item / Loop	DA50-A-43K01 EXHAUST FAN	
4	Component	001	
5	Tag		
6	Secondary Item / Loop		
7	Secondary Component		

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157	Outlet	300	10	1/02	top	#
158						
159	Drain	10	1/11	blind flange	#	
160						
161						
162						
163						
164						
165						

## DRIVE

167	Kind of Motor	3-Phase-AC motor	Type of Construction	#
168	Manufacturer		# Frame Size	#
169	Manufacturer's Part Number		Hazardous Area Classification	Non-Ex
170	Power Supply V/ Ph	380 V 3 Ph 50 Hz	Temp. Class	Standard
171	Rated Power	kW # Ex-proof Protection		
172	Rated Speed	min-1 at	Hz # Enclosure	IP 54 F
173			Insulation Class	

## MATERIALS

174		4
175	Casing	Min. Galvanized Steel # Shaft
176	Casing Lining	Shaft Sleeve
177	Wheel	# Hub
178	Blades	# Wear Strips
179	Blade Liner	Belows
180	Remark:	Neoprene-Hypalon-Cloth
181		

## ADDITIONAL DATA

182		
183	Type of Lubricant	Grease
184	Specification (DIN or ISO)	Insulation Required
185	Manufacturer	# Insulation Thickness
186	Filling Capacity	# Insulation Surface
187	Cooling Required	Painting
188	1st Change	h #
189	Remark:	h Next Changes
190	Remark:	
191		

## SCOPE OF SUPPLY / ASSEMBLY

192		
193	Motor	Supplied by
194	Motor Slide Rails	Vendor
195	Gear	
196	Coupling	
197	Belt Drive	
198	Guards	
199	Anti-Vibration Mounting	Vendor
200	Baseplate(s)	Vendor
201	Soleplate(s)	Vendor
202	Foundation Belts	
203	Inlet Screen	Vendor
204	Inlet Filter	

# Engineering Data Sheet

Centrifugal Fan  
Blower  
Project: 69896

ZHONGJIN PA

Reg-No.: 69896-DA50-A-43-K235-0213 Rev: 0

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Item, ID

1	2	3	4	5	6	7
Section	Item / Loop	Component	Tag	Secondary Item / Loop	Secondary Component	
DA50-A-43	CUTTER WATER CIRCUIT	EXHAUST FAN	DA50-A-43K01	001		

## ADMINISTRATION DATA

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206	Inlet Silencer					
207	Inlet Louvers					
208	Inlet Guide Vanes					
209	Inlet Bellows					
210	Inlet Box	Vendor				5
211	Discharge Louvers					
212	Discharge Bellows	Vendor				5
213	Discharge Silencer					
214	Louvre Actuators					

## SCOPE OF SUPPLY/ASSEMBLY CONT.

215	Vane Actuators					
217	Vibration Probes					
218	Vibration Proximeters					
219	Vibration Monitoring System					
220	Lube System (Vendor's Std.)					
221	Spray Cleaning System	Vendor				
222	Acoustic Hood					
223	Insulation Clips					
224	Transition Piece at Inlet					
225	Transition Piece at Outlet	Vendor				6
226	First Oil Filling	Vendor				6
227	Companion Flanges					
228	(incl. gaskets, bolts, nuts)	Vendor				
229	Instrumentation					
230	(acc. to att. sketch)					
231	Control Panel					
232	Additional Supply by Vendor					

## TESTS AND INSPECTION

235	Purchaser only	Test Run	yes			
236	Purchaser and	Mechanical	yes			
237	Visual Inspection	Performance Test	yes			
238	Other Tests	Standard	yes			

## WEIGHTS

242	Fabrication Weight	KN # Total Shipping Volume				
243	Operating Weight	KN #				
244		m3 #				

## REMARKS

\* see specific data on following pages

# to be completed / confirmed by Vendor

- 1 Barometric pressure ATM
- 2 Depending on final ducting layout
- 3 <85 dBA dist. 1m from blower
- 4 All parts in contact with suction air must be corrosion protected
- 5 With counterflanges, bolts, nuts and gasket
- 6 If required

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2	DA50-A-43	CUTTER WATER CIRCUIT			
3	DA50-A-43K01	EXHAUST FAN	001		
4					
5					
6					
7					

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