CS UNITEC, INC.

22 Harbor Avenue Norwalk, CT 06850 Toll Free: 800-700-5919

Fax: 203-853-9951

Air Driven Axial Fan

8 1521 0300 - 8 1824 0300



Typical Illustration

Operating and Maintenance Instruction

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Safety

The following symbols refer to particular dangers or provide advice for safe operation.



Attention! Danger! Safety advice!



Important information



Spitznas axial fans must be fitted to machines, ventilation devices and systems. It is recommended to use protective grills or other devices for safety reasons, depending on working conditions.



Spitznas axial fans are manufactured in accordance with the highest technical standards. Our quality assurance programme (DIN EN ISO 9001:2000) includes material and functional tests to ensure the final product is durable and of high quality.

Before installing and operating the fan read these instructions carefully!

Only use the fan after it has been securely mounted and fitted with protection aganist contact to suit the application. Remove protective grills only for cleaning and remember to re-fit them before use.

Before working on the fan always disconnect the air hose.

Earth the fan against static electricity.

2. Description

The Impeller and Casing are made of materials with a reduced risk of generating heat or sparks if there should be an operational problem.

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3. Conditions of use



Please ensure no foreign matter e.g. paint particles gets into the airflow and causes damage to the Impeller.

4. Storage

Store Fan in a dry place and protect it against the weather. If stored for a long period check the Impeller Bearings move freely by turning it by hand.

5. Installation



Ensure Fans are mounted by competent, trained personnel.

- a) Protective grills may be fitted at the air inlet and outlet ends to avoid foreign substances falling inside or being sucked in.
- b) Do not install without proper support
- Be careful not to damage the Casing or any moving parts
- d) Do not apply unnecessary force e.g. levering, hammering when installing

6. Operation

- a) Maximum recommended Operating pressure: 4 bar
- Before starting blow out the air hose and then connect it to the fan
- Do not lubricate the Impeller
- d) Do <u>not</u> fit an online oiler or inject oil into the airline hose.

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Maintenance

Repair of the Fan should only be performed by qualified and skilled workers

General checking: Bearing clearance too large?

Lubricant on the bearing?

Unusual noise?

Lubricating Bearing:

If the Fan is in daily use it is enough to turn grease cup twice per month.

The grease packed in the bearings is sufficient to at least for approx. 5000 working hours. After this time dismantle, clean and fill them 1/3 to 1/2 with high quality antifriction grease.

Replace damaged bearings.

USE ONLY ORIGINAL SPARE PARTS!

Technical Specification at an Operating Pressure of 4 bar

Description		8 1521 0300	8 1522 0300	8 1523 0300	8 1524 0300
Nominal diameter	mm	300	400	500	600
Unit length	mm	440	440	520	520
Weight	kgs	22	32	46	58
Air consumption	m³/min	1,28	2.11	2.73	3.84
Volume flow (unrestricted discharge)	m³/s	1.53	2.70	4.33	5.83
ID of hose	mm	19	19	19	19

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SPARE PARTS LIST DESCRIPTION: PART NUMBER / DRAWING NUMBER: CS Unitec, Inc. Air Driven Axial Fan 8 1523 0200 Date: 01/07 Page No. : 2 of 2 33 3 4 4 4 4 4 5 YO. 9 34 49 28 23 23 33 34 49 29 33 22 25 22 505#

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			SPARE PARTS LIST				
CS Unitec, Inc.		100,000	Air Driven Axial Fan	PART NUMBER / DRAWING NUMBER 8 1523 0300			
em	Qty.	Description	Part Number	Page No.::1of2 Date: 01/07 Remarks			
	152		Drawing Number	13cmarks			
1	1	Air duct plate	8 1501 2010				
2	1	Inlet	8 1503 2020	8 B			
3	8	Hexagon screw	9 1107 4080	M6x20 DIN 933			
4	8	Hexagon nut	9 1203 0040	M6 DIN 934			
5	8	Toothed washer	9 3318 0020	6.4 DIN 6797			
6	1	Outlet	8 1503 2030	W 1525 MADE 1000 MODE 1000			
7	7	Hexagon screw	9 1107 4080	M6x20 DIN 933			
8	7	Hexagon nut	9 1203 0040	M6 DIN 934			
9	7	Toothed washer	9 3318 0020	6.4 DIN 6797			
10	1	Air duct plate	8 1503 2040	A 6			
11	4	Hexagon screw	9 1106 6020	M10x70 DIN 931			
12	4	Hexagon nut	9 1203 0060	M10 DIN 934			
13	4	Toothed washer	9 3318 0010	10.5 DIN 6797			
14	3	Toothed washer	9 3318 0070	8.2 DIN 6797			
15	3	Hexagon screw	9 1107 5070	M8x25 DI 933			
16	1	Cover	8 1502 3010	N E			
17	1	Grooved ball bearing	9 1005 0070	6306 DIN 625			
18	1	Shaft with pin	8 1502 3910				
19	1	Spacer tube	8 1502 3030	4-23 00-23-00-0			
20	1	Grooved ball bearing	9 1005 0070	6306 DIN 625			
21	1	Bearing cover	8 1502 3040	1 1			
22	3	Toothed washer	9 3318 0070	8.2 DIN 6797			
23	3	Hexagon screw	9 1107 5070	M8x25 DIN 933			
24	1	Impeller, Assy.	8 1523 4000	with steel ring			
25	3	Hexagon screw	9 1107 4080	M6x20 DIN 933			
26	3	Toothed washer	9 3318 0020	6.4 DIN 6797			
27	1	Inflow hood	8 1503 4040				
28	1	Locking washer	8 1501 4050				
29	1	Fillister-head screw	9 1112 7040	M12x30 DIN 6912			
30	3	Hexagon screw	9 1107 4080	M6x20 DIN 933			
31	3	Toothed washer	9 3318 0020	6.4 DIN 6797			
32	1	Outflow hood	8 1503 4060				
33	1	Grease cup	9 3402 0090				
34	1	Nozzle	8 1523 4070	8 8			
35	1	Stopcock	9 2006 0930	R3/4" female x R3/4" male			
37	2	Pipe nut	9 1226 0050	AR 3/4"			
38	1	Thread pipe	9 2207 0050	1			
39	1	Internal thread coupling	9 2102 0080	R 3/4" DIN 3482			
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