



## Chapter 4-3

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# Induced Draft Fan

### Contact Address

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## 4-3 Induced Draft Fan

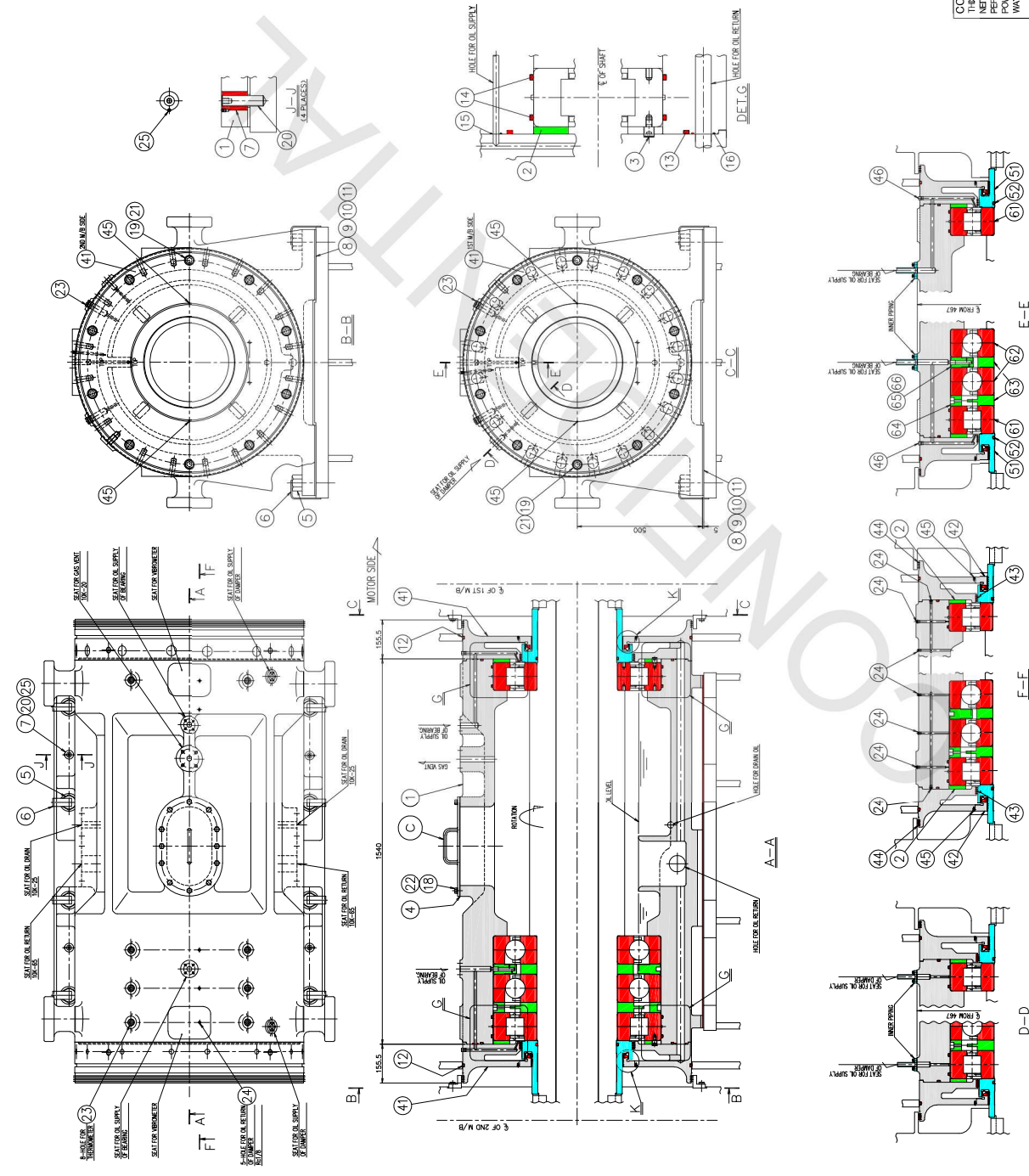
### 4-3.1 Fan Specification and Construction Details

#### 4-3.1.1 Specification

TABLE 4-3.1.1 INDUCED DRAFT FAN

Subject		Specifications
Equipment number		Unit5:50HNC01AN101,50HNC11AN101 Unit6:60HNC01AN101,60HNC11AN101
Quantity		Two (2) per unit
Fan	Manufacturer	MHPS
	Model	ML-H2-R208/390
	Type	Indoor type Axial Fan with Blade Pitch Control
Coupling	Manufacturer	KTR
	Type	Flexible Coupling
Bearing	Manufacturer	JTEKT Corporation
	Type	Anti-Friction bearing (MHPS special type)
Major Material	Casing	General carbon steel
	Moving Blade	Forged steel
	Rotor	Forged steel
	Main Shaft	Forged steel
	Bearing (Box/Body)	Cast iron/bearing steal & carburizing steel
	Coupling	General carbon steel
Synchronous speed		750 min <sup>-1</sup>
Blades/stage		16/2
<b>Design performance characteristics</b>		
Direction of Rotation		Clockwise (Viewed from motor side)
Capacity (each fan)		51,700 m <sup>3</sup> /min
Suction Press		-45.1.mbar (g)
Discharge Press		60.8 mbar (g)
Fluid		GAS
Fluid temperature at inlet (design)		150°C
Fluid density (design)		0.7925 kg/m <sup>3</sup>

MARKS	DESCRIPTION	MATERIALS (ASTM/JIS)	1-PC WEIGHT (kg)
1	BEARING BOX	A518 G10450-07/FC450	3508
2	ADJUSTABLE RING	A518 G10450-07/FC450	17.8
3	STOPPER BRG. M12	A193 GRADE B7/S20M435-07	0.06
4	PLUG NPT1/4	NON-SPECIFIED	0.05
5	SPECIAL BOLT M8x8	A576 G10250-N/S25C-N	1.5
6	STOPPER	A46/S5400	0.21
7	BUSH	A576 G10350/S35C-N	0.28
8	ADJUSTABLE LINER	A46/S5400	12.0
9	ADJUSTABLE LINER	C28000 (B115-88)/Z2801P	1.5
10	ADJUSTABLE LINER	C28000 (B115-88)/Z2801P	0.6
11	ADJUSTABLE LINER	C28000 (B115-88)/Z2801P	0.45
12	O RING	PMU	0.21
13	O RING	RUBBER	0.13
14	O RING	RUBBER	0.12
15	O RING	RUBBER	0.12
16	O RING	RUBBER	0.12
17	O RING	RUBBER	0.001
18	O RING	RUBBER	0.001
19	SEAL RING (V RING)	RUBBER	0.001
20	SOCKET HEAD BOLT M24x125	A46/S5400	0.046
21	PARALLEL PIN 20x40	A193 GRADE B7/S20M435	0.58
22	WASHER M24	A576 G10350/S35C-N	0.197
23	SPRING WASHER M12	WI-7/S500M	0.008
24	PLUG NPT1/4	AT13 G10640/20M462	0.007
25	PLUG R1/8	A576 G10250-N/S25C-N	0.041
26	SET SCREW M8x8	A193 GRADE B7/S20M435	0.002
27	BEARING BOX COVER	A193 GRADE B7/S20M435	300
28	OIL BAFFLE	B584 UNS NO.30000/CA402	0.75
29	OIL BAFFLE	B584 UNS NO.30000/CA402	0.9
30	SEAL PIN	RUBBER	0.15
31	SEAL PIN	B36 UNS NO. C18040/G2800P	0.45
32	SEAL PIN	RUBBER	0.15
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c	INSPECTION HOLE COVER	-	6.4



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FIGURE 4-3.1.10 BEARING ASSEMBLY  
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