



Chapter 4-2

Primary Air Fan

Contact Address

For any question or any clarification required, please do not hesitate to contact Mitsubishi Heavy Industries, Ltd. (MHI) through the following address.

Mitsubishi Heavy Industries, Ltd.

Energy Transition & Power Headquarters, Energy Systems,

Steam Power Maintenance Innovation Business Division,

Nagasaki Solution Business Department, Overseas Business Group C,

1-1, Akunoura Machi, Nagasaki 850-8610.

Japan.

Tel. No: +81-80-9938-0035

Working Hours: 08.30 hrs. to 17.30 hrs. JPT (Except on Saturdays, Sundays and Holidays)

4-2 Primary Air Fan

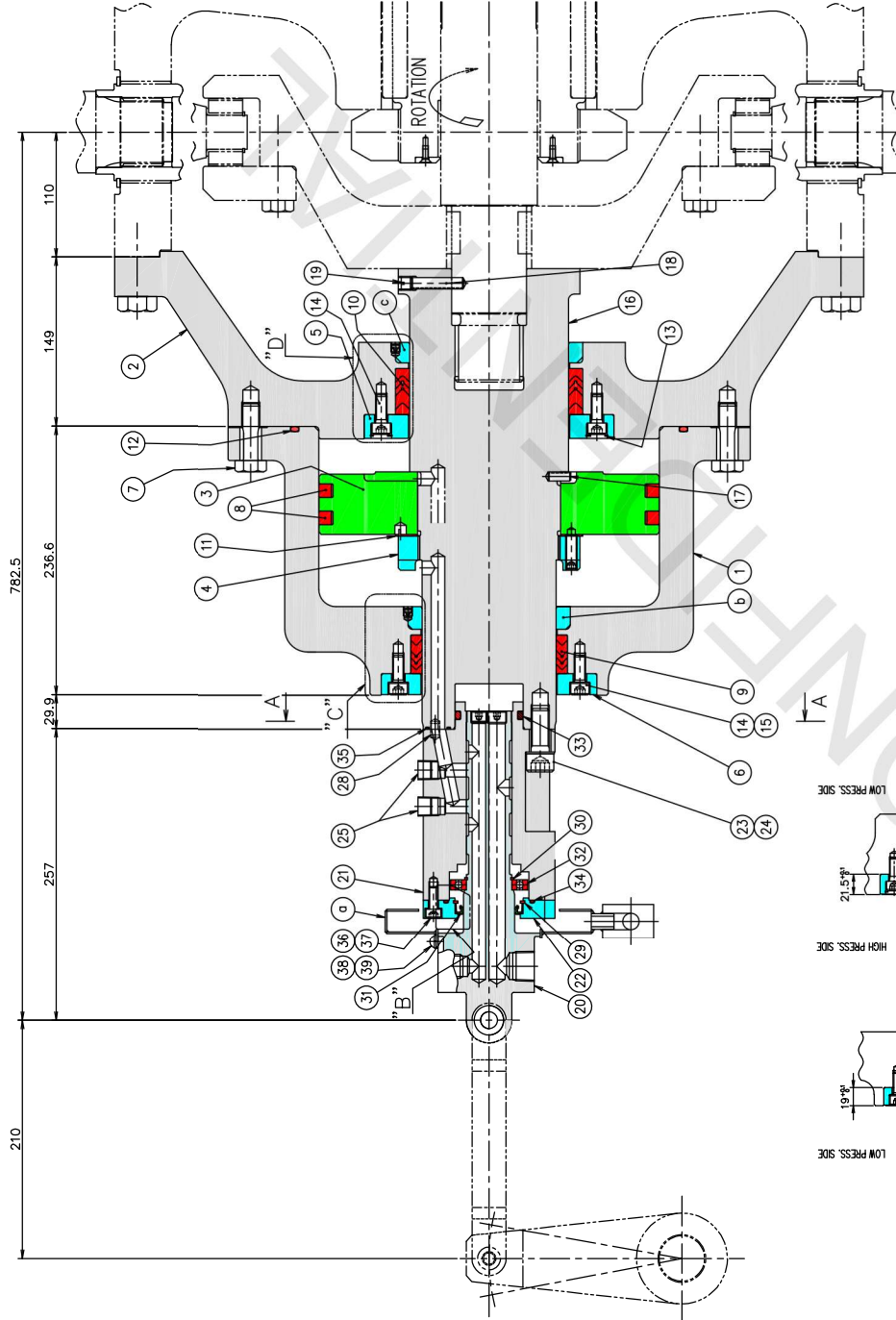
4-2.1 Fan Specification and Construction Details

4-2.1.1 Specification

TABLE 4-2.1.1 PRIMARY AIR FAN

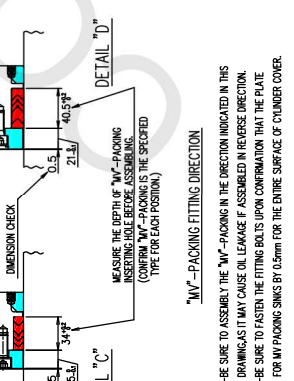
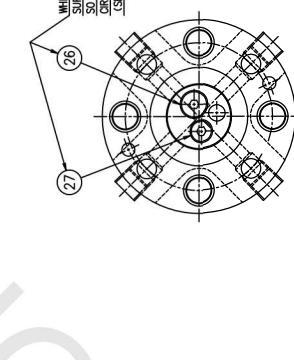
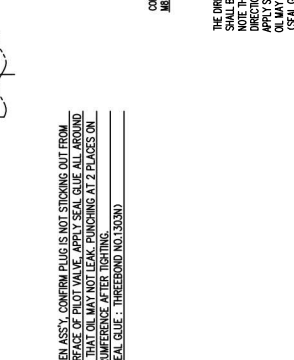
Subject		Specifications
Equipment number		Unit5:50HFE01AN101,50HFE11AN101 Unit6:60HFE01AN101,60HFE11AN101
Quantity		Two (2) per unit
Fan	Manufacturer	MHPS
	Model	ML-H2-R125/204
	Type	Indoor type Axial Fan with Blade Pitch Control
Coupling	Manufacturer	KTR
	Type	Flexible Coupling
Bearing	Manufacturer	JTEKT Corporation
	Type	Anti-Friction bearing (MHPS special type)
Major Material	Casing	General carbon steel
	Moving Blade	Forged aluminum
	Rotor	Forged steel
	Main Shaft	Forged steel
	Bearing (Box/Body)	Cast iron/bearing steal & carburizing steel
	Coupling	General carbon steel
Synchronous speed		1,500min ⁻¹
Blades/stage		16/2
Design performance characteristics		
Direction of Rotation		Clockwise (Viewed from motor side)
Capacity (each fan)		11,400 m ³ /min
Suction Press		-4.9 mbar (g)
Discharge Press		162.8 mbar (g)
Fluid		Air
Fluid temperature at inlet (design)		35°C
Fluid density (design)		1.128 kg/m ³

MARKS	DESCRIPTION	MATERIALS (ASTM/JIS)	1-PC WEIGHT (kg)
1	CYLINDER COVER	A578 G10450-N/S45C-N	83.5
2	CYLINDER COVER	A578 G10450-N/S45C-N	83.5
3	PISTON	A578 G10450-N/S45C-N	22.3
4	PISTON	A578 G10450-N/S45C-N	22.3
5	PLATE FOR MV PACKING	A578 G10450-N/S45C-N	3.4
6	PLATE FOR MV PACKING	A578 G10450-N/S45C-N	3.4
7	BOLT M16x50	A193 G8-B7-QT S0M435-QT	0.11
8	PISTON RING	TEFLON	-
9	MV PACKING	RUBBER	-
10	MV PACKING	RUBBER	-
11	MV PACKING	RUBBER	-
12	MV PACKING	RUBBER	-
13	RETAINING RING 18	A886 TYPE W-6C/S150M	0.01
14	BOLT M10x25	A193 G8-B7-QT S0M435	0.028
15	WASHER M10	W1-7/S500M	0.001
16	PISTON RING	A578 G10450-N/S45C-N	36.7
17	PARALLEL PIN 8x20	A285 S2100/S102	0.008
18	PARALLEL PIN 8x20	A285 S2100/S102	0.008
19	PISTON RING	A578 G10450-N/S45C-N	0.008
20	PISTON RING	A578 G10450-N/S45C-N	0.008
21	PISTON RING	A578 G10450-N/S45C-N	0.008
22	PISTON RING	A578 G10450-N/S45C-N	0.008
23	PISTON RING	A578 G10450-N/S45C-N	0.008
24	PISTON RING	A578 G10450-N/S45C-N	0.008
25	PISTON RING	A578 G10450-N/S45C-N	0.008
26	PISTON RING	A578 G10450-N/S45C-N	0.008
27	PISTON RING	A578 G10450-N/S45C-N	0.008
28	PISTON RING	A578 G10450-N/S45C-N	0.008
29	PISTON RING	A578 G10450-N/S45C-N	0.008
30	PISTON RING	A578 G10450-N/S45C-N	0.008
31	PISTON RING	A578 G10450-N/S45C-N	0.008
32	PISTON RING	A578 G10450-N/S45C-N	0.008
33	PISTON RING	A578 G10450-N/S45C-N	0.008
34	PISTON RING	A578 G10450-N/S45C-N	0.008
35	PISTON RING	A578 G10450-N/S45C-N	0.008
36	PISTON RING	A578 G10450-N/S45C-N	0.008
37	PISTON RING	A578 G10450-N/S45C-N	0.008
38	PISTON RING	A578 G10450-N/S45C-N	0.008
39	PISTON RING	A578 G10450-N/S45C-N	0.008
a	PISTON RING	A578 G10450-N/S45C-N	0.008
b	PISTON RING	A578 G10450-N/S45C-N	0.008
c	PISTON RING	A578 G10450-N/S45C-N	0.008



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- NOTES:**
- CHECK PISTON STROKE (OPEN 25.8mm, CLOSE 32.6mm).
 - CHECK STROKE OF PILOT VALVE (1.6mm).
 - ON ASSY, USE CARE NOT TO DAMAGE MV PACKINGS (a/b) AND OIL SEAL (c).
 - MOUNTING POINT AND ORIENTATION OF THE MV-PACKING IS INSERTED AND AS SHOWN ABOVE.
 - STAMP AT THE MOUNTING SCREWS OF THE PILOT VALVE, FLEXIBLE HOSE CONNECTION, OIL SEAL (a) : NO STAMP (NO PAINT)
 - OIL RETURN : STAMP "C" (GREEN PAINT)
 - PILOT LEAK : STAMP "C" (GREEN PAINT)
 - OIL SEAL LEAK : STAMP "W" (WHITE PAINT)



"MV"-PACKING FITTING DIRECTION

-BE SURE TO ASSEMBLY THE "MV"-PACKING IN THE DIRECTION INDICATED IN THIS DRAWING. AS IT MAY CAUSE OIL LEAKAGE IF ASSEMBLED IN REVERSE DIRECTION.
 -BE SURE TO FASTEN THE FITTING BOLTS UPON CONFIRMATION THAT THE PLATE FOR MV PACKING SINGS BY 0.5mm FOR THE ENTIRE SURFACE OF CYLINDER COVER.

FIGURE 4-2.1.6 HYDRAULIC MECHANISM ASSEMBLY

A-A

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