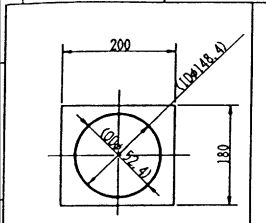
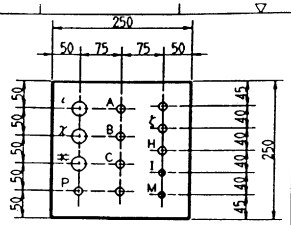
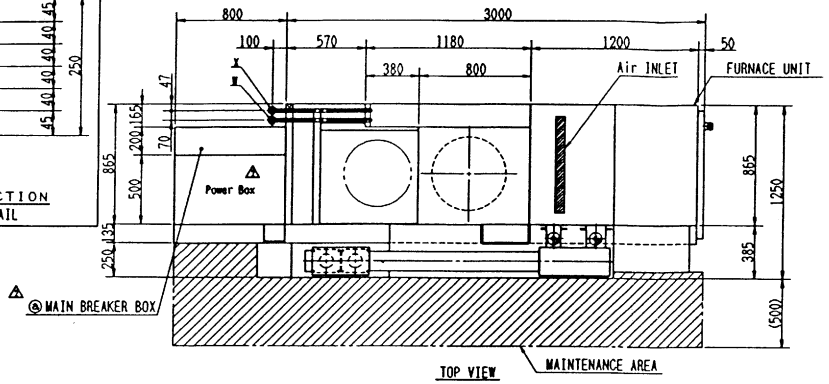
REVISIONS									
SYM	DATE	REVISED	DRAWN	CHECKED	SYM	DATE	REVISED	DRAWN	CHECKED
△1	10. 27. 94	A CHANGE OF DIMENSION	Y. KITA	K. Tōmetsuka	△3	12. 26. 94	A CHANGE OF DIMENSION	K. Honda	K. Tōmetsuka
△2	12. 10. 94	A CHANGE OF DIMENSION	M. TAKAHASHI	K. Tōmetsuka	△4	4. 10. 95	A CHANGE OF DIMENSION	M. TAKAHASHI	K. Tōmetsuka



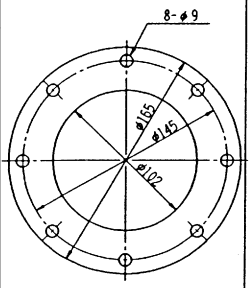
△△ (α) COMMON EXHAUST(1/5)



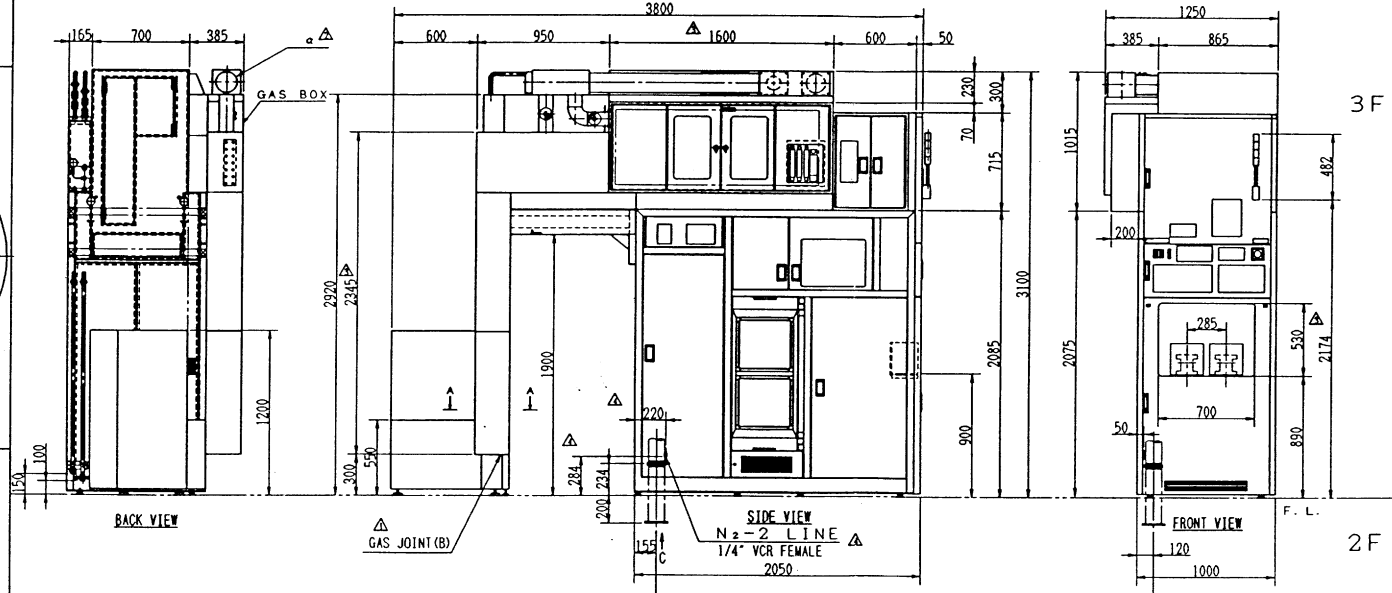
△△ A-A CROSS SECTION
GAS JOINT(B) DETAIL



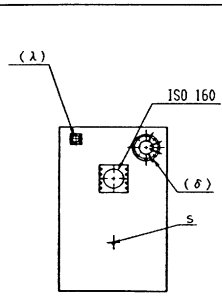
TOP VIEW



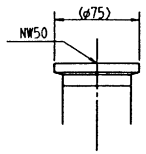
△ C VIEW (1/2)
ISO 100



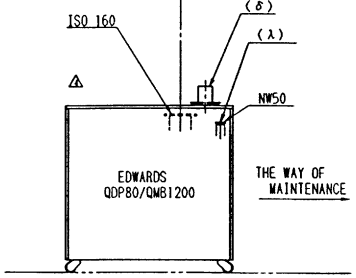
BACK VIEW



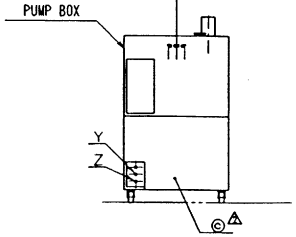
△ PUMP BOX (1/20)
(TOP VIEW)



(λ)EXHAUST(1/5)
△ <MATERIAL:SUS>



THE WAY OF MAINTENANCE



SYM-BOL	GAS	JOINT	PRESSURE	FLOW RATE	CONN. LOC	NUM-BERS	
A	PURE N_2-1	3/8" ~~VCR~~ STUB	2.0 Kgf/cm²	113.6 ℓ/min	GAS BOX	1	△4
B	SiH_2Cl_2	~~1/4" VCR TUBE~~ 3/8" STUB	1.0 Kgf/cm²	0.1 ℓ/min	GAS BOX	1	△4
C	NH_3	~~1/4" VCR TUBE~~ 3/8" STUB	1.0 Kgf/cm²	2.0 ℓ/min	GAS BOX	1	△4
D							
E							
F							
G							
H	N_2-1	1/4" VCR	3.0 Kgf/cm²	60 ℓ/min	GAS BOX	1	
I	N_2-2	1/4" VCR	3.0 Kgf/cm²	90 ℓ/min	GAS BOX	1	△4
J							
K	~~PURE N_2-2~~	~~3/8" VCR~~	~~2.0 Kgf/cm²~~	~~101 ℓ/min~~	~~GAS BOX~~	~~1~~	△4
L							
M	VACUUM	1/4" SWAGELOK	260~160 mmHgG	40 N ℓ/min	GAS BOX	1	
N							
O							
P	AiR/N_2	3/8" ~~VCR~~ SWAGELOK	5.0 Kgf/cm²	—	GAS BOX	1	△4
Q							
R							
S	N_2-3	~~3/8" VCR~~ 1/4" SWAGELOK	3.0 Kgf/cm²	~~190~~ 40 ℓ/min	PUMP BOX	1	△4
⊥	PUMP EXHAUST DILUTION			(150 ℓ/min)			△4

SYM-BOL	COOLING WATER	PRESSURE	FLOW RATE	JOINT	CONN. LOC	NUM-BERS	
U							
V							
W	IN	3.5Kgf/cm²	15 ℓ/min	3/4" SWAGELOK	FURNACE UNIT	1	△4
X	OUT	0.5Kgf/cm²	—	3/4" SWAGELOK	FURNACE UNIT	1	△4
Y	IN	3.5Kgf/cm²	10 ℓ/min	~~1/2"~~ 3/8" SWAGELOK	PUMP BOX	1	△4 △4
Z	OUT	0.5Kgf/cm²	—	~~1/2"~~ 3/8" SWAGELOK	PUMP BOX	1	△4 △4

SYM-BOL	POWER	UNIT	DESINE/CAP	CONN. LOC	NUM-BERS	
ⓐ	HEATER	(35.3KVA)	42.3KVA	MAIN BREAKER BOX	1	△4
ⓑ	TAPE HEATER CONTROLLER	(7KVA)				
ⓒ	PUMP BOX		~~12~~ 15KVA	PUMP BOX	1	△4 △4
ⓓ						
ⓔ						
ⓕ						
ⓖ						

SYM-BOL	EXHAUST	UNIT	JOINT	FLOW RATE	CONN. LOC	NUM-BERS	
(α)		COMMON EXHAUST	SEE DWG.	5m³/min	FURNACE UNIT	1	△4
(β)		HEATER EXHAUST	SEE DWG.				△4
(γ)		GAS SYSTEM EXHAUST	SEE DWG.				△4
(δ)		PUMP SYSTEM EXHAUST	SEE DWG.	2m³/min	PUMP BOX	1	△4 △4
(ε)							
(ζ)		VENT	1/4" VCR		GAS BOX	1	△4
(η)							
(θ)							
(ι)		EXHAUST-1	1/2" VCR		GAS BOX	1	
(κ)		EXHAUST-2	3/8" VCR		GAS BOX	1	
(λ)		EXHAUST-3	SEE DWG.		PUMP BOX	1	△4

MAN No.	T2DC2-10473 △
WAFER SIZE	8"
FILM	Si_3N_4
GAS PATTERN	D1CL15597

CAUTIONS

1. USE COOLING WATER OF THE BELOW LISTED QUALITIES

PH	M ALKALI	Ca, Mg	Fe ION	Cl ION	RESISTIVITY
7~8	40ppm or less $CaCO_3$ conv.	40ppm or less $CaCO_3$ conv.	0.1ppm or less	10ppm or less	10kΩ-cm or higher

TO FILTER WATER, USE A FILTER OF AFILTRATION ACCURACY OF 70μm

2. PROVIDE A SECURE GROUND.
3. IT IS IN SOME CASE TO CHANGE THE DRAWING TO BE NOT PERMITTING.

MODEL					
DEPT. NAME		QUANTITY	PARTS No.	PARTS NAME	SPECIFICATIONS / MATERIAL / REMARKS
TOLERANCES		CHECKED	M. Hirano	DATE 6.13.94	SCALE 1/20 UNIT mm REV. 4
DRAWN	Y. Kita DATE 5.31.94	APPROVED	K. Tōmezuka	DATE 6.13.94	TITLE LAYOUT(Si_3N_4)
DESIGN IN CHARGE	Y. Kita DATE 5.31.94	MULTI-CASE		DATE . .	SHEET
					DWG. NO. D1CL15599

KOKUSAI ELECTRIC CO., TOKYO JAPAN