

RYB: KONSULT
HATTON GARDENS
8-10 HATTON GARDEN, LONDON
Appendix D – Mechanical Equipment Schedules

CONTRACT ISSUE
REVISION B
JUNE 2007

Date	Revision	Status	Comment
09/08/06	-	Preliminary	Issue For Comment
27/11/06	A	Tender	
28/06/07	B	Contract	External condensers adjusted to reduce plant height (CU04 becomes CU04a and CU04b). Extra extract fans in basement added to schedule.

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1 VRV FAN COIL UNIT SCHEDULE

Ref	Location	Fancoil						
		Total Cooling (kW)	Total Heating (kW)	Model	Noise Limit, Sound pressure Level dB(A)	Width (mm)	Height (mm)	Depth (mm)
CU 01	Outdoor Unit on Roof	15.5	18.0	PUMY-P140YHM	53	950	1350	330
FCU V1-V6	First Floor	2.2	2.5	PFFY-P20VLEM-E	34-40	1050	630	220
FCU V7	First Floor	2.8	3.2	PFFY-P25VLEM-E	34-40	1050	630	220
FCU V8	First Floor	3.6	4.0	PFFY-P32VLEM-E	35-40	1170	630	220
CU 02	Outdoor Unit on Roof	15	18.0	PUMY-P140YHM	53	950	1350	330
FCU V9-V12	Second Floor	2.2	2.5	PFFY-P20VLEM-E	34-40	1050	630	220
FCU V13-V14	Second Floor	2.8	3.2	PFFY-P25VLEM-E	34-40	1050	630	220
FCU V15	Second Floor	3.6	4.0	PFFY-P32VLEM-E	35-40	1170	630	220
CU 03	Outdoor Unit on Roof	15	18.0	PUMY-P140YHM	53	950	1350	330
FCU V16-V19	Third Floor	2.2	2.5	PFFY-P20VLEM-E	34-40	1050	630	220
FCU V20-V21	Third Floor	2.8	3.2	PFFY-P25VLEM-E	34-40	1050	630	220
CU 04	Outdoor Unit on Roof	22.4	25.0	PUHY-P200YGM-A	56	990	1840	840
FCU V22-V26	Fourth Floor	3.6	4.0	PFFY-P32VLEM-E	35-40	1170	630	220
FCU V27	Fourth Floor Mezzanine	2.8	3.2	PFFY-P25VLEM-E	34-40	1050	630	220
CU 04 a	Outdoor Unit on Roof	14	16.0	PUMY-P100YHM	53	950	1350	330
FCU V22-V24	Fourth Floor	3.6	4.0	PFFY-P32VLEM-E	35-40	1170	630	220
CU 04 b	Outdoor Unit on Roof	14	16.0	PUMY-P100YHM	53	950	1350	330
FCU V25-V26	Fourth Floor	3.6	4.0	PFFY-P32VLEM-E	35-40	1170	630	220
FCU V27	Fourth Floor Mezzanine	2.8	3.2	PFFY-P25VLEM-E	34-40	1050	630	220

2 EXTRACT FAN SCHEDULE

Location		Roof	Ground Floor	Basement
Manufacturer		Nuaire	Nuaire	Nuaire
Model		XS12 PR/FR	OPUS 30-MS	OPUS 100-M
Type		Roof Mounted	Inline	Inline
Quantity		1	4	1
Notes				
DUTY				
Air flow	l/s	144	18	54
pressure	(Pa)	80	40	120
Pitch angle	°Deg			
Fan speed	(rpm)			
Installed motor power	(kW)	0.038	0.026	0.1
Motor speed	(rpm)			
Electrical supply		Single Phase	Single Phase	Single Phase
LEVEL				
125 Hz	dB re 10 ⁻¹² W	Refer to Manufactuer	60	77
250 Hz	dB re 10 ⁻¹² W		60	62
500 Hz	dB re 10 ⁻¹² W		41	56
1K Hz	dB re 10 ⁻¹² W		42	48
2K Hz	dB re 10 ⁻¹² W		37	41
4K Hz	dB re 10 ⁻¹² W		29	33
8K Hz	dB re 10 ⁻¹² W		22	33
Break out sound pressure level @ 3m	dB(A)	42	26	37

3 GRILLE SCHEDULE

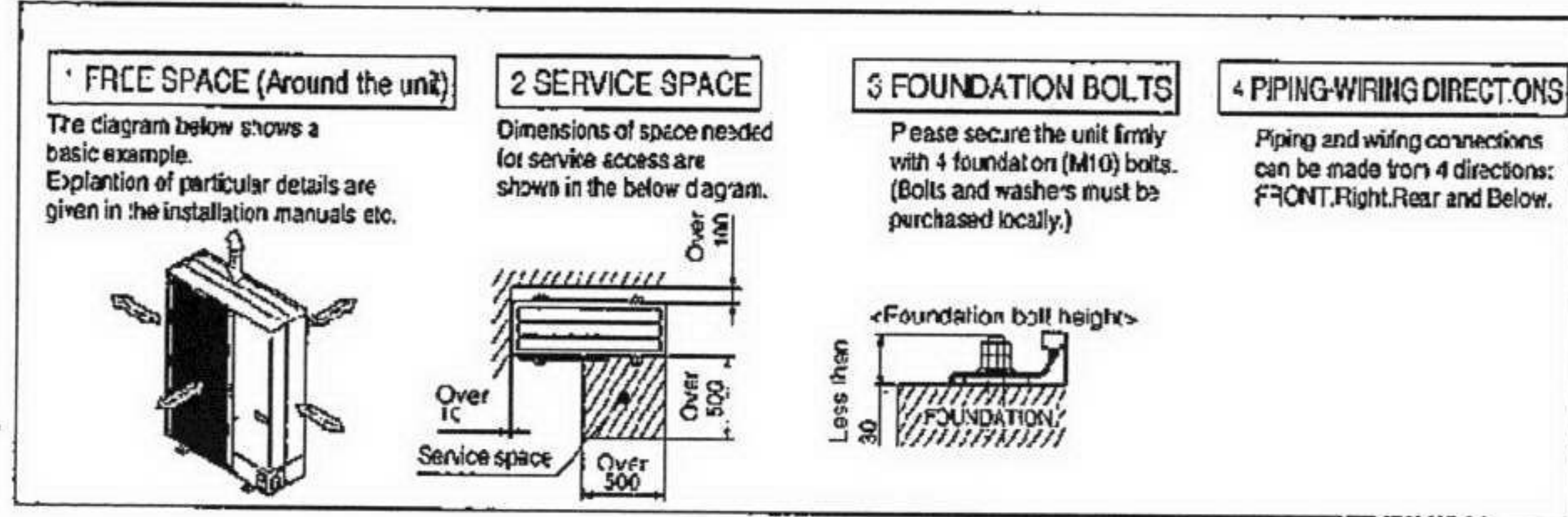
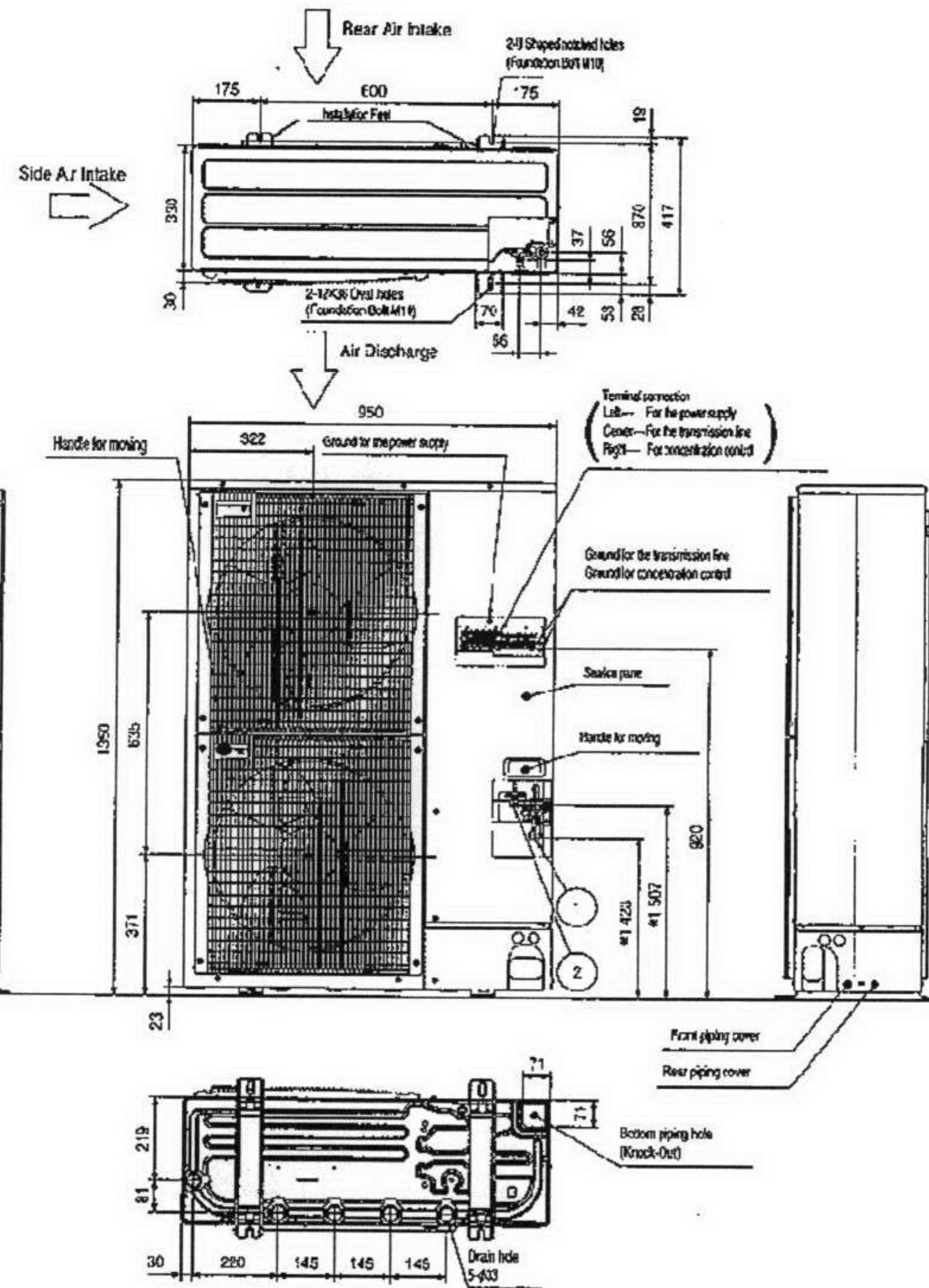
Ref	Location	Grille					
	Floor (Floor/Area)	Qty	Type	Model	Size		Air Volume (l/s)
					Height (mm)	Width (mm)	
EG 01	Basement - Fourth Floor Toilets	13	Eggcrate Grille	GEC	150	150	18

4. EXTERNAL DIMENSIONS

R410A Data G2

PUMY-P100, 125, 140YHM

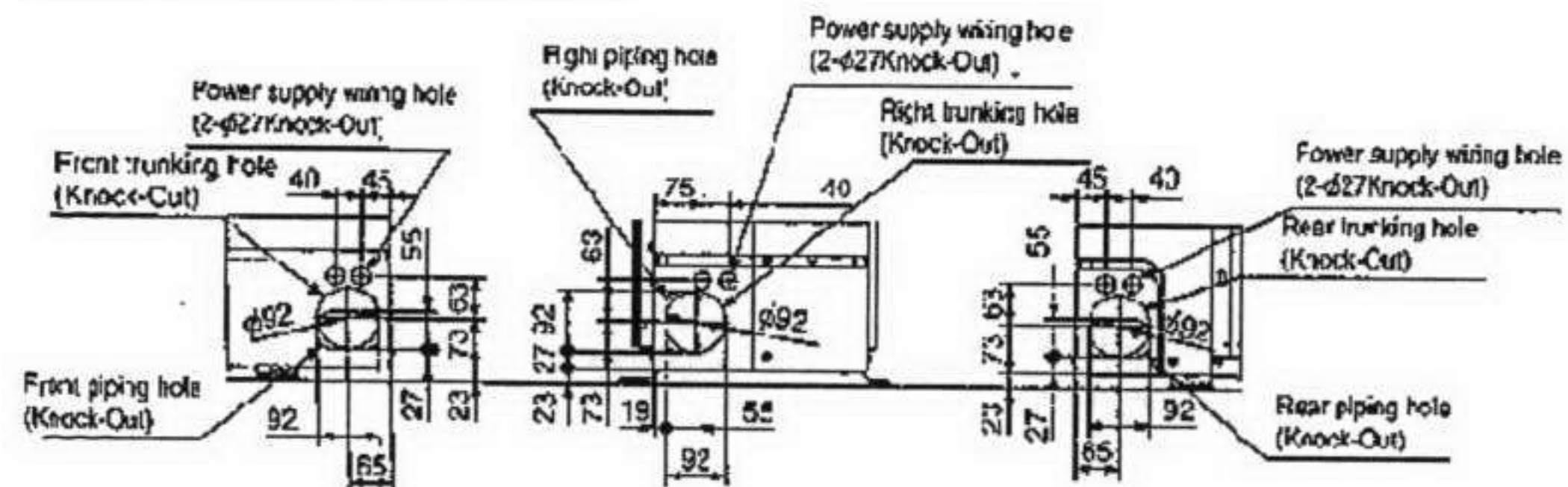
Drw: YHM-3K01-B328
Unit: mm



Example of Notes

- ① Refrigerant GAS pipe connection $\phi 15.83$ (5/8") Flare
- ② Refrigerant LIQUID pipe connection $\phi 9.52$ (3/8") Flare
- *1 Indication of STOP VALVE connection location.

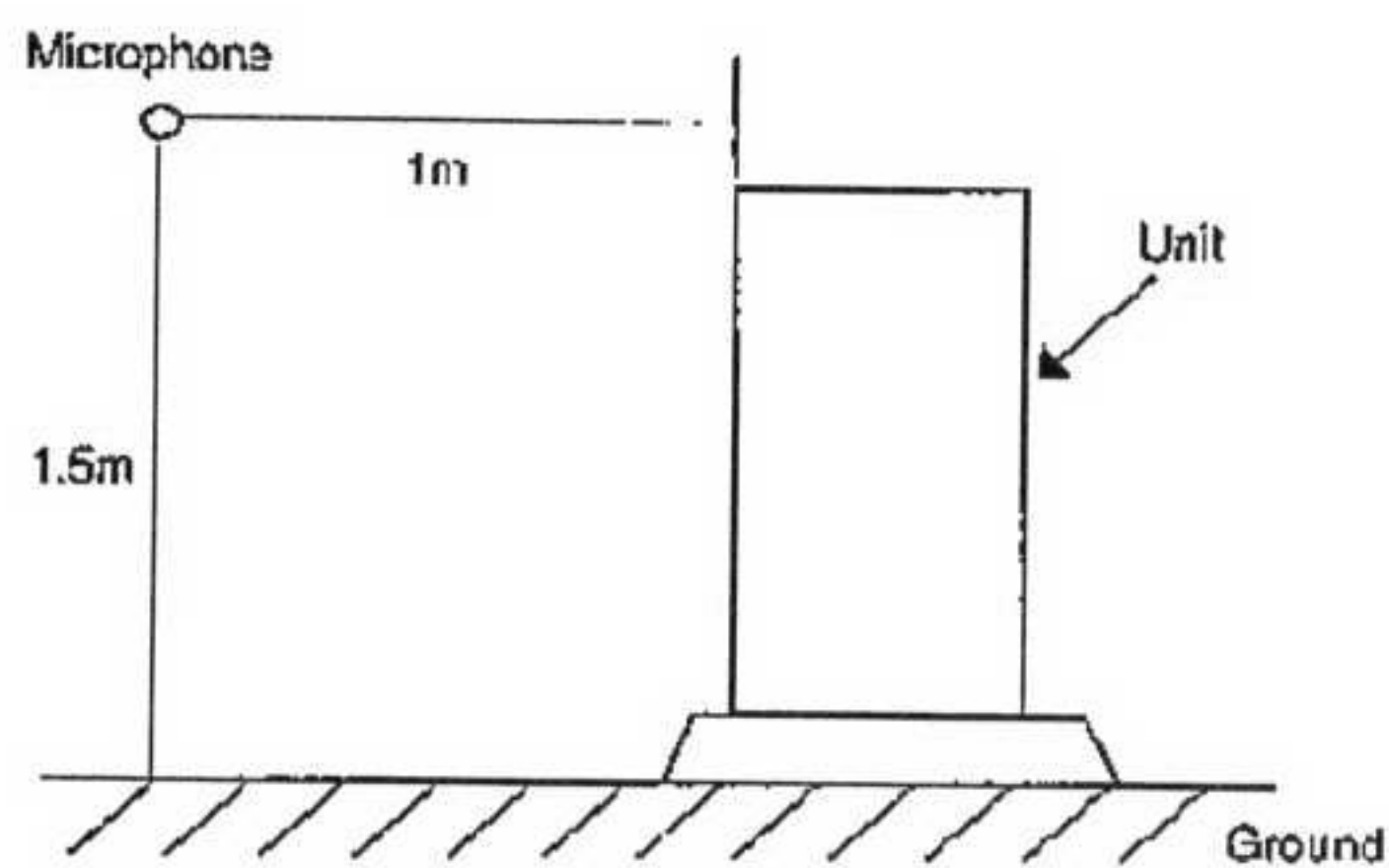
Piping Knock-Out Hole Details



3. SOUND LEVELS

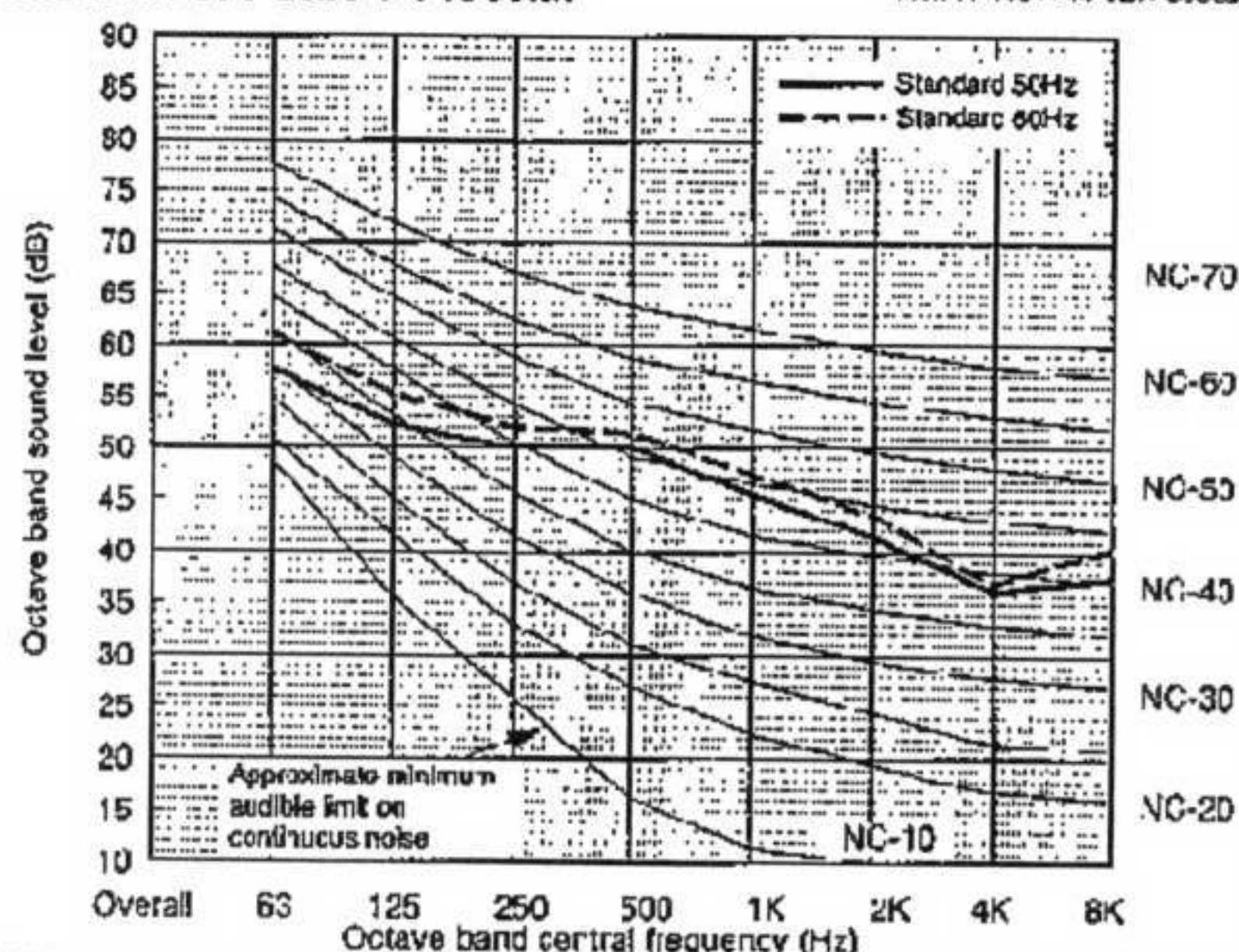
R410A Data G2

Measurement condition PUMY-P100,125,140YHM



Sound level of PUMY-P140YHM

Ref.: P140YHM-VBN-050093

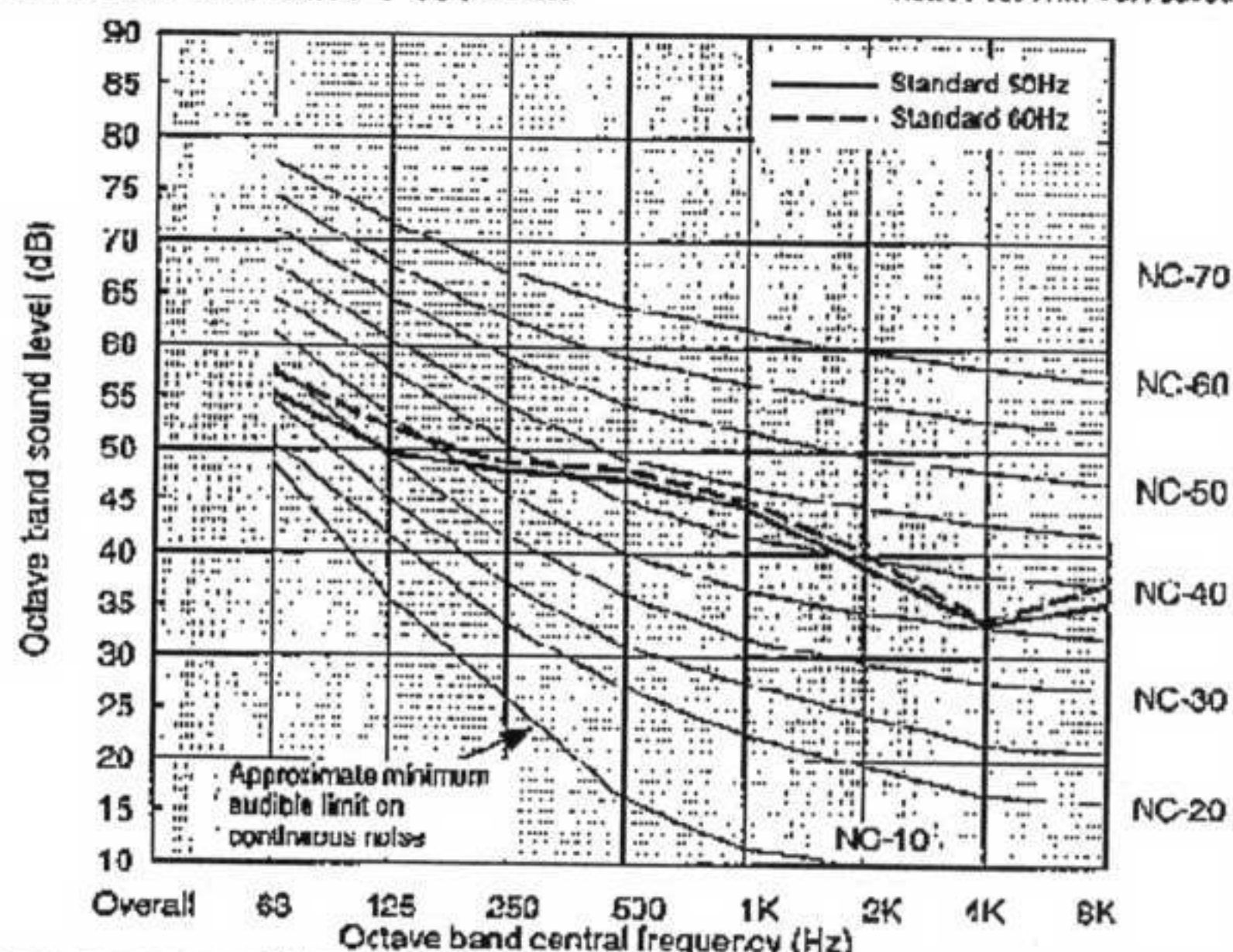


		63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
Standard	50Hz	57.2	51.7	49.0	49.8	46.6	41.1	35.9	37.1	51.0
	60Hz	60.9	55.4	52.1	51.4	47.5	43.2	37.1	40.3	53.0
Night mode	50/60Hz	-	-	-	-	-	-	-	-	-

* When Night Mode is set, the A/C system's capacity is limited. The system could return to normal operation from Night Mode automatically in the case that the operation condition is severe.

Sound level of PUMY-P100YHM

Ref.: P100YHM-VBN-050093

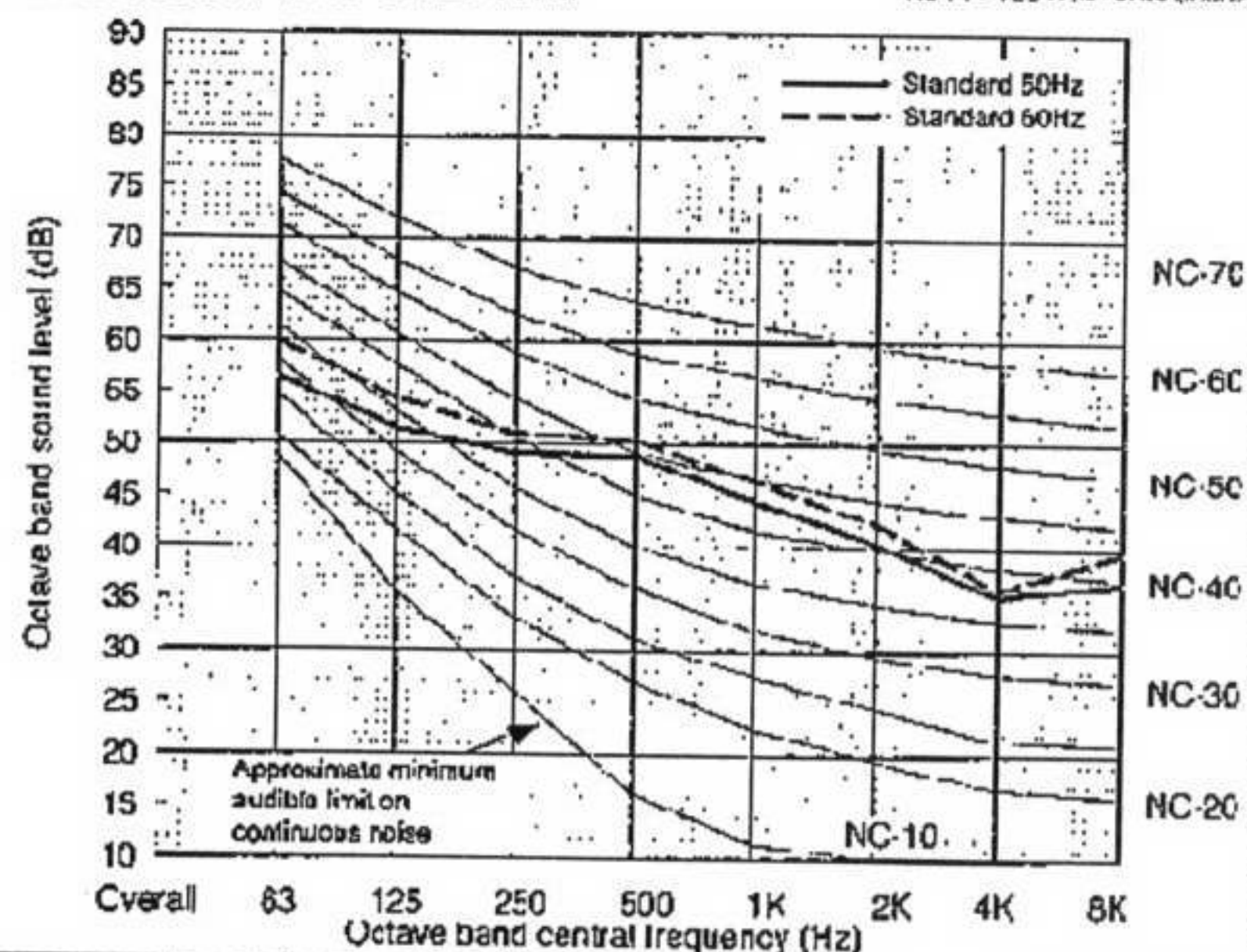


		63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
Standard	50Hz	55.2	49.7	47.9	47.8	43.5	38.1	33.9	35.1	48.0
	60Hz	59.8	53.4	50.1	49.4	45.5	41.2	36.1	38.3	51.0
Night mode	50/60Hz	-	-	-	-	-	-	-	-	-

* When Night Mode is set, the A/C system's capacity is limited. The system could return to normal operation from Night Mode automatically in the case that the operation condition is severe.

Sound level of PUMY-P125YHM

Ref.: P125YHM-VBN-050093



		63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
Standard	50Hz	58.2	50.7	48.9	48.8	44.5	40.1	34.9	36.1	50.0
	60Hz	59.9	54.4	51.1	50.4	46.5	42.2	36.1	39.3	52.0
Night mode	50/60Hz	-	-	-	-	-	-	-	-	-

* When Night Mode is set, the A/C system's capacity is limited. The system could return to normal operation from Night Mode automatically in the case that the operation condition is severe.