

Note: This application is made as a Class 2 permissive change to the original filing with the FCC identifier ACLAP4U01, and a Grant of Certification dated 1/12/00.

The differences in construction, from the original application, are only the addition of two possible alternate magnetrons (Types 2M261-M32 and 2M258-M32).

This application is also adding an additional producing factory, located in Shanghai, China. All models produced at this factory will have an added suffix "F" as part of the model number. A sample of the FCC label is sent under exhibit 3A, for the Shanghai, China factory.

The added information to this report is located at the end, in bold type. A complete re-submission is not being sent as some exhibits do not change.

The original application information is included only for comparison purposes. The original application filed shows only magnetron type 2M261-M32 employed.

ACLAP4U01

APPLICATION FOR CERTIFICATION

<u>MODEL NO.</u>	<u>FCC ID</u>
NN-S980BA	ACLAP4U01
NN-S980WA	ACLAP4U01
NN-S980BAS	ACLAP4U01
NN-S980WAS	ACLAP4U01
NN-S960BA	ACLAP4U01
NN-S960WA	ACLAP4U01
NN-S960BAS	ACLAP4U01
NN-S960WAS	ACLAP4U01
NN-S950BA	ACLAP4U01
NN-S950WA	ACLAP4U01
NN-S950BAS	ACLAP4U01
NN-S950WAS	ACLAP4U01
NN-L930BA	ACLAP4U01

LIST OF EXHIBITS

EXHIBIT 1: TECHNICAL REPORT

EXHIBIT 2: PHOTOGRAPHS OF MAGNETRON AND COMPONENTS

EXHIBIT 3: SAMPLES AND LOCATION OF FCC ID LABEL

EXHIBIT 4: SCHEMATIC DIAGRAM

EXHIBIT 5: REPORT OF MEASUREMENTS

EXHIBIT 6: LIST OF MEASURING EQUIPMENT AND CALIBRATION

EXHIBIT 7: OPERATING INSTRUCTIONS

EXHIBIT 8: INSTALLATION INSTRUCTIONS

TECHNICAL REPORT

1. DESCRIPTION OF MEASUREMENT FACILITY:

The description of the measurement facility is already on file with the FCC laboratory. Please refer to the commission's reference 31010/EQU 4-3-0A.

2. INSTALLATION INSTRUCTIONS:

See EXHIBIT 7.

3. OPERATING INSTRUCTIONS:

See EXHIBIT 8.

4. APPLICANT:

MATSUSHITA HOME APPLIANCE COMPANY, Division of  
MATSUSHITA ELECTRIC CORPORATION of AMERICA  
9333 W. Grand Avenue  
Franklin Park, Illinois 60131

5. MANUFACTURER:

MATSUSHITA HOME APPLIANCE COMPANY, Division of  
MATSUSHITA ELECTRIC CORPORATION of AMERICA  
1355 Lebanon Road  
Danville, Kentucky 404203

6. MEASUREMENT SITE:

PANASONIC MAGNETRON LAB.  
PANASONIC INDUSTRIAL COMPANY  
1707 N. Randle Road  
Elgin, Il 60123-7847

7. EQUIPMENT IDENTIFICATION:

Model No. : NN-S980BA, NN-S980WA, NN-S980BAS, NN-S980WAS  
Brand Name : Panasonic  
FCC ID : ACLAP4U01

Model No. : NN-S960BA, NN-S960WA, NN-S960BAS, NN-S960WAS  
Brand Name : Panasonic  
FCC ID : ACLAP4U01

Model No. : NN-S950BA, NN-S950WA, NN-S950BAS, NN-S950WAS  
Brand Name : Panasonic  
FCC ID : ACLAP4U01

Model No. : NN-L930BA  
Brand Name : Panasonic  
FCC ID : ACLAP4U01

7. EQUIPMENT SPECIFICATIONS:

Electrical Power Requirement: 120V, 60Hz, 12.0A  
Nominal Operating Frequency: 2450 MHz  
Maximum RF Energy Generated: 1300 W (IEC 705)  
Magnetron Type: 2M269-M32  
Feed Type and Location: Through the wave guide  
on the right sidewall of the oven.  
Stirrer: Turntable Type  
Cabinet Dimensions: (W) 606 x (H) 356 x (D) 480 (mm)  
Oven Cavity Dimensions: (W) 469 x (H) 278 x (D) 470 (mm)  
Door Viewing Area Dimensions: (W) 375 x (H) 195 (mm)  
Door Seal Type: Slit Choke seal and capacitive seal method

8. DESCRIPTION OF DIFFERENCES

Model No.	NN-S980 BA/WA/BAS/WAS	NN-S960 BA/WA/BAS/WAS	NN-S950 BA/WA/BAS/WAS	NN-L930 BA
Input Power	120Vac, 12.0A	120Vac, 12.0A	120Vac, 12.0A	120Vac, 12.0A
Output Power	1300W	1300W	1300W	1300W
Magnetron	2M269-M32	2M269-M32	2M269-M32	2M269-M32
Brand	Panasonic	Panasonic	Panasonic	Panasonic

PHOTOGRAPHS OF EQUIPMENT

EXHIBIT 2-A: FRONT VIEW OF MODEL NN-S980BA

EXHIBIT 2-B: REAR VIEW OF MODEL NN-S980BA

EXHIBIT 2-C: FRONT VIEW OF MODEL NN-S980BA WITH THE DOOR OPENED

EXHIBIT 2-D: TOP VIEW OF MODEL NN-S980BA WITH ENCLOSURE REMOVED

EXHIBIT 2-E: RIGHT SIDE VIEW OF MODEL NN-S980BA WITH ENCLOSURE REMOVED

EXHIBIT 2-F: BOTTOM VIEW OF MODEL NN-S980BA

EXHIBIT 2-G: LEFT SIDE VIEW OF MODEL NN-S980BA WITH ENCLOSURE REMOVED

EXHIBIT 2-H: VIEW OF DOOR CHOKE CONSTRUCTION ILLUSTRATING INTEGRAL CHOKE TYPE.

EXHIBIT 2-I: VIEW OF MAGNETRON TYPE 2M269-M32

EXHIBIT 2-J: VIEW OF INVERTER POWER SUPPLY

REPORT OF MEASUREMENTS

1. MODEL NO.: NN-S980BA  
SERIAL NO. PP-000220  
MAGNETRON TYPE NO.: 2M269-M32
2. MEASUREMENT DATE: 10/27/99
3. LIST OF MEASURING EQUIPMENT AND CALIBRATION DATA:  
REFER TO ATTACHED EXHIBIT 6
4. INVESTIGATED FREQUENCY RANGE: 100Mhz to 4th Harmonic

5. DATA SUMMARY:

Safety Check : <0.5 MW/cm<sup>2</sup>

Radiated Field Strength:	( uV/m @ 300m )	Limit
Fundamental:	<u>2453 MHz</u> <u>1388uv/m</u>	N/A
2nd. Harmonic:	<u>4911 MHz</u> <u>5.19uv/m</u>	33.50
3rd. Harmonic:	<u>7337 MHz</u> <u>1.55uv/m</u>	"
4th. Harmonic:	<u>9805 MHz</u> <u>1.91uv/m</u>	"
Spurious:	<u>2346 Mhz</u> <u>2.00uv/m</u>	"
Emmission Sideband:	<u>2400 MHz</u> <u>1.86uv/m</u>	"
Emmission Sideband:	<u>2500 MHz</u> <u>2.57uv/m</u>	"
Greater than 4th. Harmonic	not measurable	

Maximum Frequency Variation: 2450 to 2454 MHz  
(96V ~ 150V/ 1500 ml water load)

Maximum Frequency Variation: 2447 to 2454 MHz  
(1500 ml - 300ml water load)

Total Power Input to Oven: 2050 watts

Power Developed in Dummy Load: 895 watts

Supply Voltage: 120 Volts, 60Hz, 17.7A

APPLICATION FOR CERTIFICATION

<u>MODEL NO.</u>	<u>FCC ID</u>
NN-T900SA F	ACLAP4U01
NN-T990SA F	ACLAP4U01
NN-S980BA F	ACLAP4U01
NN-S980WA F	ACLAP4U01
NN-S980BAS F	ACLAP4U01
NN-S980WAS F	ACLAP4U01
NN-S960BA F	ACLAP4U01
NN-S960WA F	ACLAP4U01
NN-S960BAS F	ACLAP4U01
NN-S960WAS F	ACLAP4U01
NN-S950BA F	ACLAP4U01
NN-S950WA F	ACLAP4U01
NN-S950BAS F	ACLAP4U01
NN-S950WAS F	ACLAP4U01
NN-L930BA F	ACLAP4U01

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- EXHIBIT 5: REPORT OF MEASUREMENTS
- EXHIBIT 6: LIST OF MEASURING EQUIPMENT AND CALIBRATION
- EXHIBIT 7: OPERATING INSTRUCTIONS
- EXHIBIT 8: INSTALLATION INSTRUCTIONS

TECHNICAL REPORT

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The description of the measurement facility is already on file with the FCC laboratory. Please refer to the commission's reference 31010/EQU 4-3-0A.

2. INSTALLATION INSTRUCTIONS:

See EXHIBIT 7.

3. OPERATING INSTRUCTIONS:

See EXHIBIT 8.

4. APPLICANT:

MATSUSHITA HOME APPLIANCE COMPANY, Division of  
MATSUSHITA ELECTRIC CORPORATION of AMERICA  
9333 W. Grand Avenue  
Franklin Park, Illinois 60131

5. MANUFACTURER:

SHANGHAI MATSUSHITA MICROWAVE OVEN COMPANY  
898 Long Dong Road  
Pu Dong, Shanghai 201203 China

6. MEASUREMENT SITE:

PANASONIC MAGNETRON LAB.  
PANASONIC INDUSTRIAL COMPANY  
1707 N. Randle Road  
Elgin, Il 60123-7847

7. EQUIPMENT IDENTIFICATION:

Model No. : NN-T900SA F, NN-T990SA F

Brand Name : Panasonic

FCC ID : ACLAP4U01

Model No. : NN-S980BA F, NN-S980WA F, NN-S980BAS F, NN-S980WAS F

Brand Name : Panasonic

FCC ID : ACLAP4U01

Model No. : NN-S960BA F, NN-S960WA F, NN-S960BAS F, NN-S960WAS F

Brand Name : Panasonic

FCC ID : ACLAP4U01

Model No. : NN-S950BA F, NN-S950WA F, NN-S950BAS F, NN-S950WAS F

Brand Name : Panasonic

FCC ID : ACLAP4U01

Model No. : NN-L930BA F

Brand Name : Panasonic

FCC ID : ACLAP4U01



7. EQUIPMENT SPECIFICATIONS:

Electrical Power Requirement: 120V, 60Hz, 12.0A  
 Nominal Operating Frequency: 2450 MHz  
 Maximum RF Energy Generated: 1300 W (IEC 705)  
 Magnetron Type: 2M269-M32, or 2M261-M32, or 2M258-M32  
 Feed Type and Location: Through the wave guide on the right sidewall of the oven.  
 Stirrer: Turntable Type  
 Cabinet Dimensions: (W) 606 x (H) 356 x (D) 480 (mm)  
 Oven Cavity Dimensions: (W) 469 x (H) 278 x (D) 470 (mm)  
 Door Viewing Area Dimensions: (W) 375 x (H) 195 (mm)  
 Door Seal Type: Slit Choke seal and capacitive seal method

8. DESCRIPTION OF DIFFERENCES

Model No.	NN-T900SA F, NN-T990SA F	NN-S980 BA F/WA F/ BAS F/WAS F	NN-S960 BA F/WA F/ BAS F/WAS F
Input Power	120Vac, 12.0A	120Vac, 12.0A	120Vac, 12.0A
Output Power	1300W	1300W	1300W
Magnetron	2M269-M32, or 2M261-M32, or 2M258-M32	2M269-M32, or 2M261-M32, or 2M258-M32	2M269-M32, or 2M261-M32, or 2M258-M32
Brand	Panasonic	Panasonic	Panasonic

Model No.	NN-S950 BA F/WA F/ BAS F/WAS F	NN-L930 BA F
Input Power	120Vac, 12.0A	120Vac, 12.0A
Output Power	1300W	1300W
Magnetron	2M269-M32, or 2M261- M32, or 2M258-M32	2M269-M32, or 2M261- M32, or 2M258-M32
Brand	Panasonic	Panasonic

REPORT OF MEASUREMENTS

1. MODEL NO.: NN-S960  
SERIAL NO. AD13100782  
MAGNETRON TYPE NO.: 2M258-M32
2. MEASUREMENT DATE: 7/27/00
3. LIST OF MEASURING EQUIPMENT AND CALIBRATION DATA:  
REFER TO ATTACHED EXHIBIT 6
4. INVESTIGATED FREQUENCY RANGE: 100Mhz to 4th Harmonic

5. DATA SUMMARY:

Safety Check : <0.5 MW/cm<sup>2</sup>

Radiated Field Strength:	( uV/m @ 300m )	Limit
Fundamental:	<u>2452 MHz</u> <u>983uv/m</u>	N/A
2nd. Harmonic:	<u>4893 MHz</u> <u>4.12uv/m</u>	33.22
3rd. Harmonic:	<u>7329 MHz</u> <u>1.72uv/m</u>	"
4th. Harmonic:	<u>9860 MHz</u> <u>1.51uv/m</u>	"
Spurious:	<u>2480 Mhz</u> <u>0.32uv/m</u>	"
Emmission Sideband:	<u>2400 MHz</u> <u>0.74uv/m</u>	"
Emmission Sideband:	<u>2500 MHz</u> <u>0.46uv/m</u>	"
Greater than 4th. Harmonic	not measurable	

Maximum Frequency Variation: 2453 to 2458 MHz  
(96V ~ 150V/ 1500 ml water load)

Maximum Frequency Variation: 2447 to 2458 MHz  
(1500 ml - 300ml water load)

Total Power Input to Oven: 2000 watts

Power Developed in Dummy Load: 883 watts

Supply Voltage: 120 Volts, 60Hz, 17.5A

REPORT OF MEASUREMENTS

1. MODEL NO.: NN-S960  
SERIAL NO. AD13100782  
MAGNETRON TYPE NO.: 2M261-M32
2. MEASUREMENT DATE: 7/27/00
3. LIST OF MEASURING EQUIPMENT AND CALIBRATION DATA:  
REFER TO ATTACHED EXHIBIT 6
4. INVESTIGATED FREQUENCY RANGE: 100Mhz to 4th Harmonic

5. DATA SUMMARY:

Safety Check : <0.5 MW/cm<sup>2</sup>

Radiated Field Strength:	( uV/m @ 300m )	Limit
Fundamental:	<u>2453 MHz</u> <u>439uv/m</u>	N/A
2nd. Harmonic:	<u>4903 MHz</u> <u>1.64uv/m</u>	33.27
3rd. Harmonic:	<u>7457 MHz</u> <u>1.08uv/m</u>	"
4th. Harmonic:	<u>9778 MHz</u> <u>1.51uv/m</u>	"
Spurious:	<u>2323 Mhz</u> <u>0.67uv/m</u>	"
Emmission Sideband:	<u>2400 MHz</u> <u>1.18uv/m</u>	"
Emmission Sideband:	<u>2500 MHz</u> <u>0.91uv/m</u>	"
Greater than 4th. Harmonic	not measurable	

Maximum Frequency Variation: 2454 to 2457 MHz  
(96V ~ 150V/ 1500 ml water load)

Maximum Frequency Variation: 2453 to 2466 MHz  
(1500 ml - 300ml water load)

Total Power Input to Oven: 2010 watts

Power Developed in Dummy Load: 886 watts

Supply Voltage: 120 Volts, 60Hz, 17.2A