

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 :	<u>&lt;0.5 MW/cm2</u>		
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