

COMPONENT TEST PROCEDURES

Power Output Check:

NOTE: This is a centigrade/metric method of power testing. Microwave engineering power specifications are established and maintained in production using this method. It is more accurate than the Fahrenheit method.

Test Equipment Needed:

Glass or plastic breaker with 1000 ml. Gradation.
Centigrade thermometer – power test kit M9505

- 1) Plug oven in and verify proper operation.
- 2) Fill the plastic container to the bottom of the 1000 ml. lines with cool tap water.
- 3) Using the centigrade thermometer, measure and record the water temperature.
IMPORTANT: Initial water temperature should be between 17 and 27 degrees Centigrade
- 4) place the container on the center of the oven shelf and heat the water for one minute.

NOTE: Use a watch second hand or a digital watch, not the oven timer.

- 5) Measure and record the temperature of the water after heating the water for one minute.
- 6) Subtract the starting water temperature (Step 3) from the ending water temperature (Step 5) to obtain temperature rise.
- 7) Refer to Temperature Rise Chart Below

NOTE:

Variations of error in the test procedure will cause a variance in the temperature rise indication. Additional power test should be made if the temperature rise appears marginal.

Operating voltages less than 115 volts a-c may cause lower output (temperature rise)

Power output in watts is computed by multiplying the temperature rise (Step 6) by a power factor of 70

TEMPERATURE RISE CHART

<u>Temperature Rise</u>	<u>Power Output</u>	<u>Temperature Rise</u>	<u>Power Output</u>	<u>Temperature Rise</u>	<u>Power Output</u>
4 degrees C	280 Watts	13 degrees C	910 Watts	22 degrees C	1540 Watts
5 degrees C	350 Watts	14 degrees C	980 Watts	23 degrees C	1619 Watts
6 degrees C	420 Watts	15 degrees C	1050 Watts	24 degrees C	1680 Watts
7 degrees C	490 Watts	16 degrees C	1120 Watts	25 degrees C	1750 Watts
8 degrees C	560 Watts	17 degrees C	1190 Watts	26 degrees C	1820 Watts
9 degrees C	630 Watts	18 degrees C	1260 Watts	27 degrees C	1890 Watts
10 degrees C	700 Watts	19 degrees C	1330 Watts	28 degrees C	1960 Watts
11 degrees C	770 Watts	20 degrees C	1400 Watts	29 degrees C	2030 Watts
12 degrees C	840 Watts	21 degrees C	1470 Watts	30 degrees C	2010 Watts