

SECTION F: COMPONENT TEST PROCEDURES

Power Output Check

NOTE: This is the 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 beaker with 1000 ml. gradation.

Centigrade thermometer - power test kit M95D5).

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° C. and 27° C.

4. Place the container on the center of the oven shelf and heat the water for one minute.

NOTE: Use a watch second hand, 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 the temperature rise.
7. Refer to the Temperature Rise Chart.

NOTE: Variations or errors in the test procedure will cause a variance in the temperature rise indication. Additional power tests should be made if temperature rise appears marginal.

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

NOTE: 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° C.	280 Watts	13° C.	910 Watts	22° C.	1540 Watts
5° C.	350 Watts	14° C.	980 Watts	23° C.	1610 Watts
6° C.	420 Watts	15° C.	1050 Watts	24° C.	1680 Watts
7° C.	490 Watts	16° C.	1120 Watts	25° C.	1750 Watts
8° C.	560 Watts	17° C.	1190 Watts	26° C.	1820 Watts
9° C.	630 Watts	18° C.	1260 Watts	27° C.	1890 Watts
10° C.	700 Watts	19° C.	1330 Watts	28° C.	1960 Watts
11° C.	770 Watts	20° C.	1400 Watts	29° C.	2030 Watts
12° C.	840 Watts	21° C.	1470 Watts	30° C.	2100 Watts



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