



**Model ATE10K30M
M1 through M5
E Field Generator
10 kHz–30MHz**

The Model ATE10K30M is a wideband, high voltage electric (E) Field Generator used to develop high intensity E Fields. Compatible with the technically superior field sensing and leveling equipment provided by AR RF/Microwave Instrumentation, it is recommended for use in susceptibility testing at high field levels.

The Model ATE10K30M, unique among E Field Generators because of its advanced design features, is terminated with internal load resistors. These low inductance, high power resistors terminate the RF drive power, resulting in a well matched input VSWR. Other E Field Generators require external loads or operate with a severe mismatch. In addition to being self terminating, the Model ATE10K30M contains a high power broadband transformer to raise the output voltage. This transformer requires no band switching and increases the field generated by approximately 10dB over that which would be developed in a standard 50 ohm terminated parallel plate system. It is small enough to handle easily in shielded rooms while being compatible with the high RF output power available from modern RF amplifiers like the AR RF/Microwave Instrumentation "A" and "L" series.

SPECIFICATIONS

OPERATING RANGESee below

Power (watts)	Without forced-air cooling		With forced-air cooling	
	Duty Cycle (percent)	On Time (minutes)	Duty Cycle (percent)	On Time (minutes)
1000	100	continuous	100	continuous
1600	50	7	100	continuous
2000	25	3	100	continuous
3000	Do not use	Do not use	50	5

FREQUENCY RANGE 10kHz–30MHz

IMPEDANCE50 ohms, VSWR 2.5:1 maximum

ELECTRIC FIELD INTENSITYUp to 1000 volts/meter (See graph on reverse)

CONNECTORS.....See Model Configurations

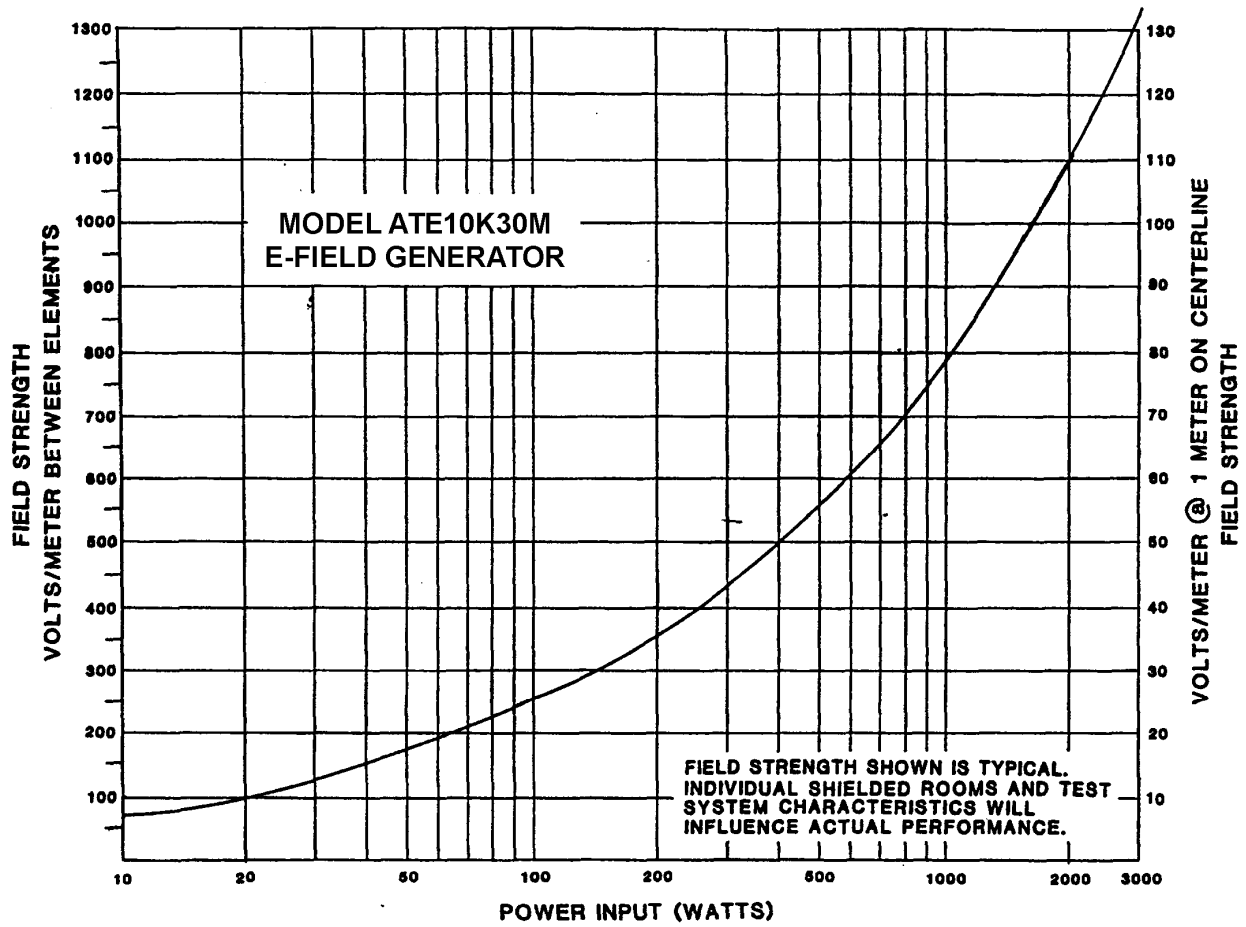
SIZE (W x H x D).....188 x 72 x 7.0 cm (74 x 28.3 x 2.5 in)

WEIGHT (MAXIMUM) 16 kg (35 lbs)

MOUNTING PROVISIONS.....Optional tripod available

Model	MODEL CONFIGURATIONS			Power
	Connector	Option		
ATE10K30M	Type C (f)	No fan		2000W
ATE10K30MM1	Type N (f)	No fan		2000W
ATE10K30MM2	7-16 DIN	Fan		3000W
ATE10K30MM3	Type C (f)	Fan		3000W
ATE10K30MM4	SC(f)	Fan		3000W
ATE10K30MM5	Type N (f)	Fan		3000W

FAN OPTION Forced air cooling requires AC voltage for operation. This is switchable (120/240VAC 60 Hz) and is factory-set, if specified upon ordering.



CAUTION:
HIGH VOLTAGE AND HIGH ELECTRIC FIELDS ARE GENERATED BY THIS UNIT. HUMAN DAMAGE WILL RESULT DUE TO PROXIMITY OR CONTACT. THIS FIELD GENERATOR SHOULD BE USED IN AN ADEQUATELY SHIELDED ROOM. PERSONNEL MUST NOT OCCUPY ROOM WHEN IN USE.