



**Model AS40001
Amplifier System
800 MHz–40GHz**

The AS40001 Amplifier System has been specially designed to house, in two, air-conditioned, EMI shielded equipment racks, the AR Worldwide equipment listed below. Please refer to individual product specification sheets for details. Input power will be filtered and distributed internally. A fiber-optically isolated GPIB interface is also provided. RF connections will be through bulkhead connectors located in the top of the racks. The frequency matched and dedicated (1 per amplifier) antennas will be mounted and cabled to the antenna mast and be user adjustable for both horizontal and vertical polarization.

The equipment racks and antenna mast will be mounted on a rolling skid creating a portable field generation platform. The side of the equipment rack facing the antennas will be covered in RF absorber to minimize reflection.

Model AS40001 Equipment list:

- Space reserved for user supplied Model 50S1G4M3, .8 –4.2 GHz, 50 watts CW (Rack 2)
 - Additional 1U (1.75”) reserved for future upgrade to 200T1G3AM3
- Model 200T2G8AM4, 2.5 – 7.5 GHz, 200 watts CW (Rack 1)
- Model 200T8G18AM6, 7.5 -18 GHz, 200 watts CW (Rack 2)
- Model 40T18G26AM7, 18-26 GHz, 40W CW (Rack 2)
- Space reserved for Model 40T26G40AM2, 26-40 GHz, 40W CW (Rack 2)
- Space reserved for user-supplied TDK SI-300-LSM RF switch matrix w/1T6P and (2) 1T5P switches (rack 1)
- Space reserved for user-supplied Gigatronics 2440AM signal generator
- Space reserved for user-supplied Model PM2002 power meter, rack adapter installed(Rack 1)
- (2) PH2010 Power Heads (Rack 1)
- Antenna mount for user-supplied Model AT4510M2 High Gain Horn Antenna, 1-4.2 GHz, 1500 Watts
- Antenna mount for user-supplied Model AT4003 High Gain Horn Antenna, 4-8 GHz, 250 Watts
- Antenna mount for user-supplied Model AT4004 High Gain Horn Antenna, 8-18 GHz, 2800 Watts
- Model AT4540 High Gain Horn Antenna, 18-26.5 GHz, 350 Watts
- Model AT4550 High Gain Horn Antenna, 26.5-40 GHz, 240 Watts
- All internal Interconnect cables between system components
- 29.75 in (75.57 cm) rack space available for user-installed equipment (Rack 1)
- 29.75 in (75.57 cm) rack space available for user-installed equipment (Rack 2)
- Emco Model 2090 Antenna Controller
- Emco Model 2070 Antenna Tower (2 meter antenna height)

EMI/RFI Shielded, Air Conditioned, Rack Specifications:

	Rack 1	Rack 2
Size (H x W x D)	67.08 x22.06 x 36.40 in (170.38 x 56.03 x 92.46 cm)	67.08 x22.06 x 36.40 in (170.38 x 56.03 x 92.46 cm)
Total Weight	353 lbs (160.5 kg)	1031 lbs (468.6 kg)
Power Input	220/380 VAC , 50/60Hz, 3phase, 40A terminated in a single IEC60309, 4P5W, 40A, pin and sleeve inlet connector	

