



Model AS18021, M1-M3
AR System
1GHz–18GHz

The AS18021 AR System has been specially designed to perform Mil Std Radiated Immunity testing at up to 400V/m at a 1 meter test distance. The AR field generation equipment is housed in two air-conditioned, EMI shielded equipment racks.

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 SC1000M3 system controller allows manual and remote signal routing of RF signals both to and from up to four amplifiers, including feedback from dual directional couplers.

A forward power sample port, external signal input port, and external modulation input port are included and located on the side of the rack.

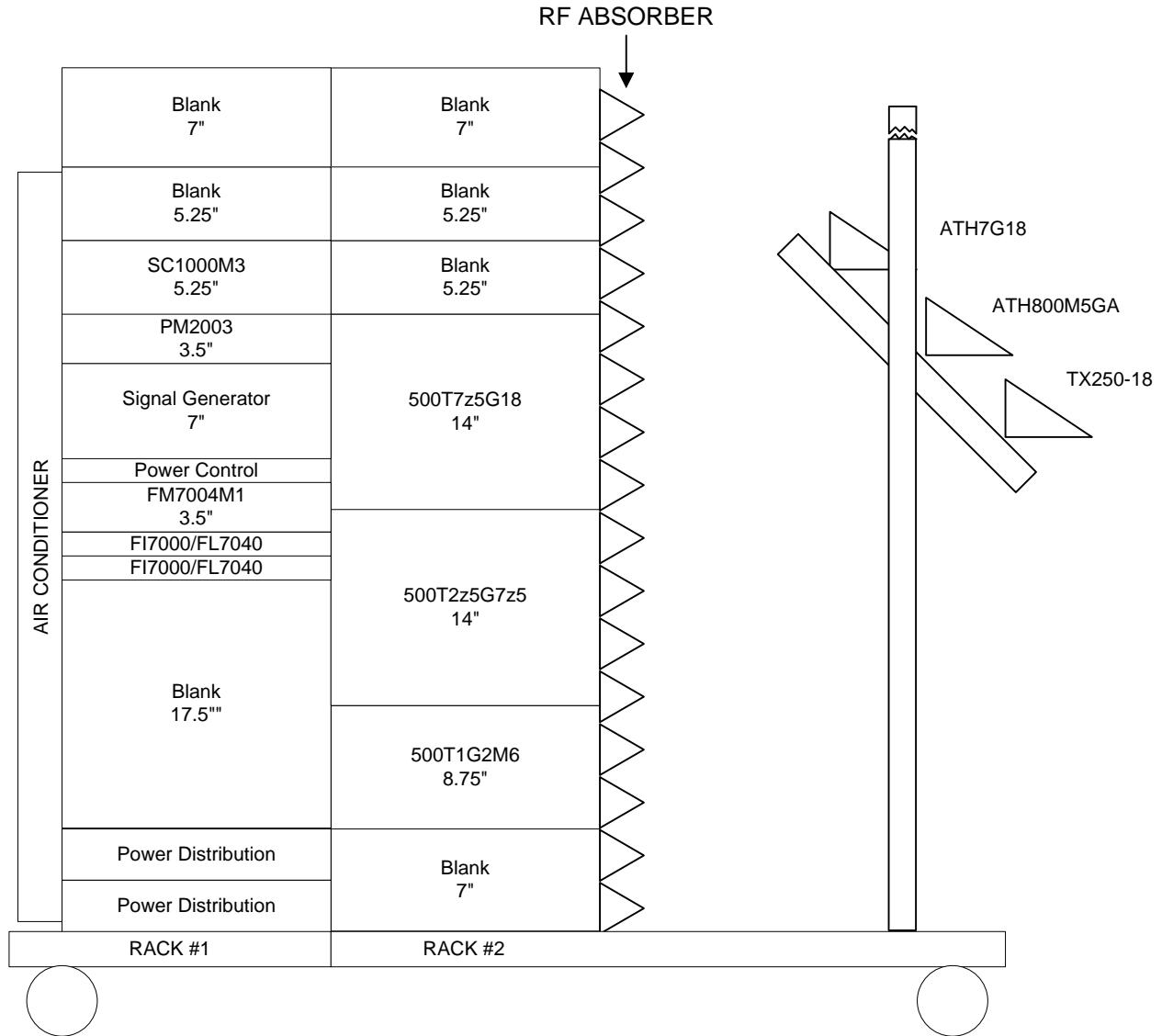
The equipment racks and antenna mast will be mounted on a rolling skid creating a portable field generation platform. The side of the equipment rack facing the antennas will be covered in RF absorber to minimize reflection.

Model AS18021 Equipment list:	STD	M1	M2	M3
Model 500T1G2M6, 1-2.5 GHz, 500 Watts CW (Rack 2)	1	1		
Model 600S1G4A, 0.8-4.2GHz, 600 Watts CW (Rack 1&2)			1	1
Model 500T2z5G7z5M5, 2.5–7.5 GHz, 500 Watts CW (Rack 2)	1	1	1	1
Model 500T7z5G18M11, 7.5-18 GHz, 500 Watts CW (Rack 2)	1	1	1	1
Model SC1000M3, System Controller, DC–18 GHz (Rack 1)	1	1	1	1
Model PM2003 3-channel Power Meter	1	1	1	1
Model PH2010 Power Heads, 30MHz–40GHz	2	2	2	2
Model FM7004M1, Field Monitor (Rack 1)	1	1	1	1
Model FL7040/Kit, 2 MHz–40 GHz, 2-1000 V/m (Rack 1)	2	2	2	2
Model PS2000 probe stands	2	2	2	2
Signal Generator, 100 kHz–20 GHz, rear panel connectors	1	1	1	1
Model DC7154AM1 Dual Directional Coupler, 0.8–4.2 GHz, 700 Watt (Rack 2)	1	1	1	1
Model DC7275A Dual Directional Coupler, 2.5–7.5 GHz, 700 Watt (Rack 1)	1	1	1	1
Model DC7450M1 Dual Directional Coupler, 7.5–18 GHz, 3000 Watt (Rack 2)	1	1	1	1
Model ATH800M5GA High Gain Horn Antenna, 0.8-5 GHz, 1000 Watts	1	1	1	1
High Gain Horn Antenna, 2.5–7.5 GHz, 2800 Watts (Cobham TX250-18 or equivalent)	1	1	1	1
Model ATH7G18 High Gain Horn Antenna, 7.5–18 GHz, 2800 Watts	1	1	1	1
All internal Interconnect cables between system components	1	1	1	1
17.5 in (44.5 cm) rack space available for user installed equipment (Rack 1)	X	X		
Antenna Tower, manual antenna height, polarization, and focus	1	1	1	1
Desktop PC, preloaded with SW1007 software	1		1	
Laptop PC, preloaded with SW1007 software (M1, M3 only)		1		1
Color laser printer	1	1	1	1

EMI/RFI Shielded, Air Conditioned, Rack Specifications:

	Rack 1	Rack 2	Base Assembly
Size (H x W x D)	67.08 x 22.06 x 36.40 in (170.38 x 56.03 x 92.46 cm)	67.08 x 22.06 x 36.40 in (170.38 x 56.03 x 92.46 cm)	12.0 x 41.5 x 96.0 in (30.5 x 105.4 x 243.8 cm)
Total Weight	350 lbs (159.1 kg)	380 lbs (172.7.2 kg)	400 lbs (181.8)
Power Input	120/208 VAC , 50/60Hz, 3phase, 60A 240 VAC, 50/60Hz, 1phase, 60A 240/415 VAC, 50/60Hz, 3phase, 30A		

MODEL AS18021, M1



MODEL AS18021M2, M3

