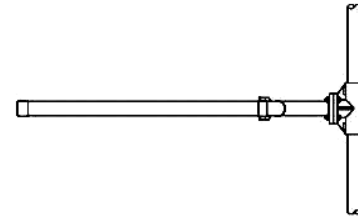




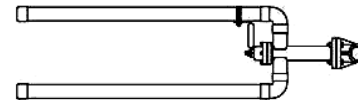
FM3H SERIES

HORIZONTALLY POLARIZED

MEDIUM POWER FM ANTENNAS



Side View



Top View

Full Wave Spaced

Electrical and Mechanical Specifications

Bays	Power Rating (kW)	Power Gain	dB Gain	Net. Weight (lbs)	Windload (lbs)
1	3	0.883	-0.539	21	45
2	6	1.918	2.828	100	165
3	9	2.991	4.758	155	260
4	12	4.088	6.115	210	350
5	15	5.190	7.152	265	440
6	15	6.321	8.008	320	570
8	15	8.622	9.356	410	665
10	15	10.913	10.379	475	760

Half Wave Spaced

Electrical and Mechanical Specifications

Bays	Power Rating (kW)	Power Gain	dB Gain	Net. Weight (lbs)	Windload (lbs)
1	3	0.883	-0.539	21	45
2	6	1.390	1.430	94	157
3	9	2.025	3.064	143	225
4	12	2.627	4.195	192	294
5	15	3.245	5.112	241	363
6	15	3.847	5.851	290	432
8	15	5.057	7.039	374	500
10	15	6.258	7.965	433	569

3/4 Wave Spaced

Electrical and Mechanical Specifications

Bays	Power Rating (kW)	Power Gain	dB Gain	Net. Weight (lbs)	Windload (lbs)
1	3	0.883	-0.539	21	45
2	6	1.870	2.719	84	137
3	9	2.792	4.460	123	200
4	12	3.690	5.670	162	250
5	15	4.603	6.630	221	300
6	15	5.513	7.414	275	380
8	15	7.329	8.651	354	450
10	15	9.180	9.628	400	545

Product Specifications:

Frequency Range	88 – 108 MHz
Polarization	Horizontal
Power Rating	3 kW per bay
System Input	1 5/8" or 3 1/8" EIA
Circularity	± 2 dB Free Space
VSWR	1.1:1 ± 200 kHz
Bay Dimensions	H 36" / W 10"

Features:

•**FULL POWER RATING.** Rated at 3kW per bay with a maximum of 15 kW for five bays or more.

•**EXCELLENT CHOICE FOR MOST CLASS "A" STATIONS.** Provides superior performance for stereo and SCA operations due to its high VSWR rating.

•**RUGGED CONSTRUCTION.** The antenna system is fabricated from rugged, heavy wall copper and naval brass. All joints are tig-welded.

•**PRESSURIZED AND GROUNDED.** The antenna system is pressurized to the feed point of each bay and each bay is DC grounded.

•**BEAM TILT AND/OR NULL FILL OPTIONAL.** Custom vertical patterns are available with center-fed arrays that have an even number of bays.

•**CUSTOM DIRECTIONAL PATTERNS.** FM directional antennas based on the customer's mounting structure, with FCC filing documentation, are available.

•**WEATHERIZATION (OPTIONAL).** Radomes or electrical deicers available for areas that experience periods of heavy icing and/or snow conditions.

•**STANDARD MOUNTING BRACKETS.** Fits up to 4" tower leg or pipe. Supplied with antenna.

•**WARRANTY.** 2-year limited warranty on defects and workmanship to the original purchaser.

Notes:

1. Power rating is based on 40 degrees C ambient. Degeneration occurs above 2000 ft.
2. Antenna weight, windload, aperture, and dimensions are based on mid-band operation (98.1 MHz).
3. Antennas with 2 or more bays come with input fine-matcher.
4. Windload based on 50/33 psf.
5. SWR, Inc. maintains a continuous program of product improvement and therefore reserves the right to change specifications without notice.