

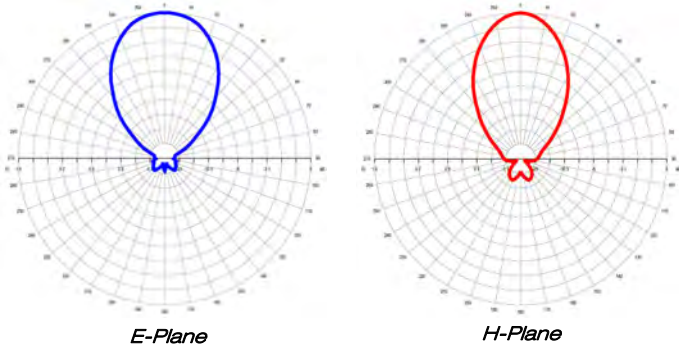
ELECTRICAL FEATURES

WORKING BAND: 87.5÷108 MHz
BANDWIDTH: FM band
GAIN: 7.5 dBd (9.7 dBi) mixed polarization
VSWR: ≤ 1.16:1 (-22.6 dB)
POLARIZATION: vertical (horizontal upon request)
IMPEDANCE: 50 Ohm unbalanced
HALF POWER BEAMWIDTH:
 E-Plane - 63°
 H-Plane - 53°

LIGHTNING PROTECTION: all metal parts DC grounded

AVAILABLE VERSIONS AND CODE:

AVP0202420 - EIA 7/8" flange - max 5000 W
 AVP0202421 - DIN 7/16 fem. connector - max 3000 W



E-Plane

H-Plane

MECHANICAL FEATURES

MATERIALS:

dipoles and reflecting grid in hot dip galvanized steel,
 internal lines in aluminium, teflon isolators, silicon O-Rings

MOUNTING: directly on supporting structure
 via 16 holes Ø11mm

MOUNTING BRACKETS: optional (cod. XAVP)
 for Ø 60÷114mm. pipe

ICING PROTECTION: ABS radome

TREATMENTS: dipoles and reflecting grid
 in hot dip galvanized steel,
 silver plated internal lines and connector

ANTENNA DIMENSIONS: 2200x1735x702 mm

WEIGHT: 65 Kg

WIND SURFACE: 0.87 m² front - 0.24 m² side

WIND LOAD (at 160Km/h and 30° C air temperature):
 144.45 Kg front - 27.44 Kg side

SURVIVAL WIND: 220Km/h

PACKING DIMENSIONS:

wooden cage (ISMP-15): 2300x1850x1000 mm
 120 Kg gross

ARRAY DATA

BAY	PANEL PER BAY	SYSTEM GAIN (dBd)	GAIN TIMES ¹	WEIGHT (Kg) ²	SYSTEM HEIGHT (mt)	WIND LOAD (Kg) ³
2	1	10.5	11.22	158	4.9	288.9
4	1	13.5	22.39	313	10.3	577.9
6	1	15.3	33.84	472	15.7	866.7
8	1	16.5	44.67	639	21.1	1155.6
12	1	18.3	67.61	956	31.9	1733.4
1	2	5.3	3.39	158	2.2	171.9
2	2	8.3	6.76	313	4.9	343.8
4	2	11.3	13.49	639	10.3	687.6
6	2	13.1	20.42	956	15.7	1031.3
8	2	14.3	26.92	1265	21.1	1375.1
12	2	17.1	51.29	1903	31.9	2062.7
1	3	3.6	2.29	236	2.2	199.3
2	3	6.6	4.57	472	4.9	398.7
4	3	9.6	9.12	956	10.3	797.3
6	3	11.4	13.8	1429	15.7	1196.0
8	3	12.6	18.2	1903	21.1	1594.6
12	3	14.4	27.54	2854	31.9	2392.0
1	4	2.6	1.82	313	2.2	199.3
2	4	5.6	3.63	639	4.9	398.7
4	4	8.6	7.24	1265	10.3	797.3
6	4	10.4	10.97	1903	15.7	1196.0
8	4	11.6	14.45	2959	21.1	1594.6
12	4	13.4	21.88	3834	31.9	2392.0

1 - gain referred at mid band -1st null filling and electrical tilt not take into account
 2 - mounting hardware not take into account
 3 - 160Km/h wind and 30° C air temperature

AVP 02 02 42x

VHF
 Band FM
 Radio Broadcasting

Antenna a pannello con doppio dipolo e griglia riflettente interamente in acciaio zincato a caldo.

Irradiazione direttiva.

Adatta per sistemi FM collineari o per accoppiamenti a 90°.

Banda larga 87.5 ÷ 108 MHz

Panel antenna with double dipoles and reflecting grid wholly in hot dip galvanized steel.

Directional irradiation pattern.

Suitable for stacked-array or 90°coupling

FM antenna systems.

Broadband 87.5 ÷ 108 MHz

