

Model : ACP0HHP 1

- **Band II**
- **FM Band 87.5÷108 MHz**
- **Horizontal Polarization**
- **Omnidirectional Pattern**
- **Tuned antenna**
- **Pressurization on request**
- **Extremely robust**
- **Digital Ready**
- **Stainless steel AISI 304**



ELECTRICAL DATA	
Frequency range	87.5÷108 MHz
Impedance	50 Ohm
Connectors	N – 7/16" - 7/8"
Max Power	5000W (7/8")
VSWR ± 900KHz	≤ 1.1:1
Polarization	Horizontal
Gain	-0.3 dB (ref.to to half wave dipole)
Pattern	see diagram
Lightning protection	All metal parts DC grounded

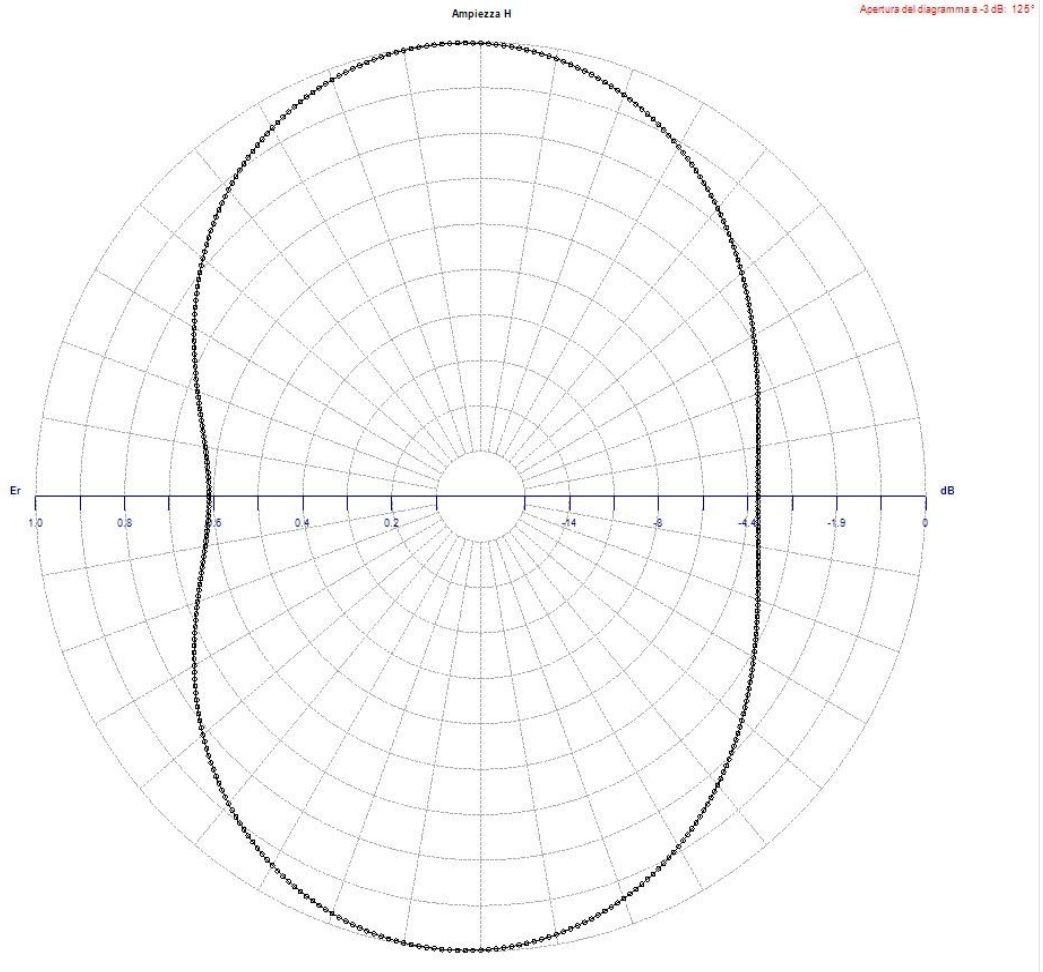
MECHANICAL DATA	
Dimensions	See picture
Net Weigh	6 Kg without clamp
Wind surface	0.0689 m ² (lateral)
Wind load (lateral)	15,5 kg (wind speed at 160 km/h)
Max wind velocity	220 km/h.
Materials	External parts: stainless steel, Plexiglas Internal parts: silver plated brass
Mounting	With special pipe clamps 50÷ 110 mm dia.

Radiations systems with ACP0HHP antenna collinear systems

MECHANICAL DATA	
Height of array	Subject to number of bays (refer to table)
Total net weight	Refer to table
Wind load	Refer to table
Pressurizable	Yes (on request)
Mounting hardware	Hot dip galvanized steel clamps
Shipping	As required

ELECTRICAL DATA	
Frequency range	87.5÷108 MHz
Impedance	50 Ohm
Connector	N – 7/16" - 7/8"
VSWR ± 900KHz	1.1:1 in the operating channel
Polarization	Horizontal
Gain	Refer to table
Horizontal pattern	Any type according to requirements
Vertical pattern	Null fill, beam tilt and special requirements to order
Other facilities	The antenna system can be supplied in split feed with two equal half antennas. Each half can accept full power.

Radiation Pattern H



Details view



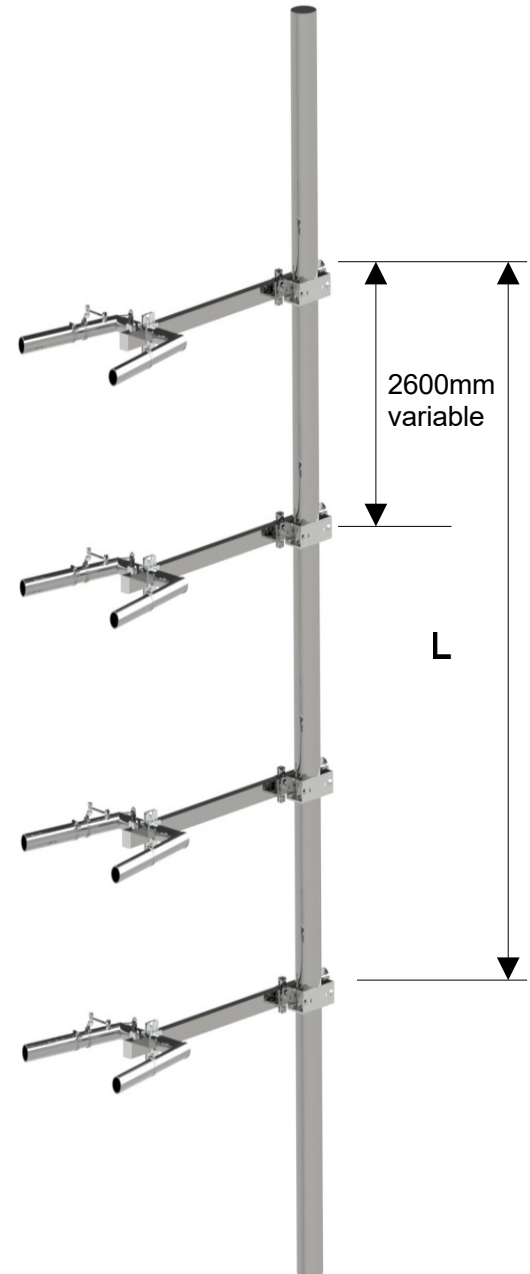
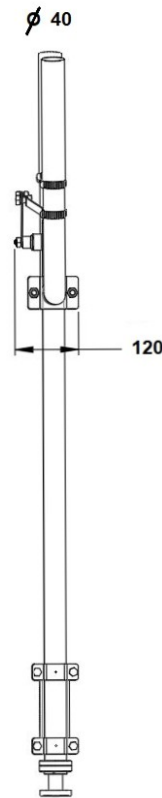
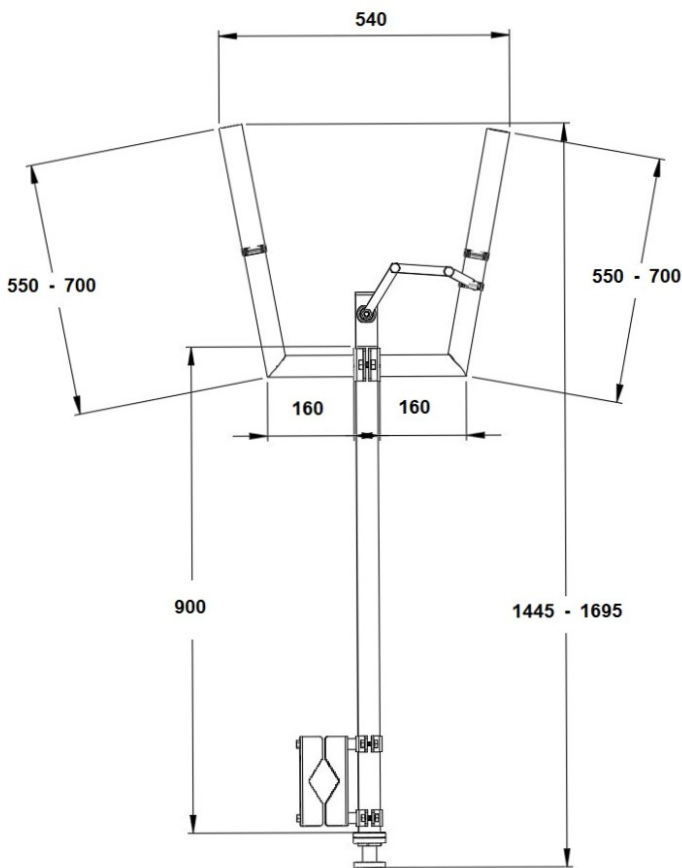
TECHNICAL DATA

Number of bays	Dipoles per bay	Gain ¹		Weight ² Kg	Antenna height L m	Wind load (v=160 km/h) kg
		dB	times			
2	1	2.7	1.8	4	2.7	31.0
3	1	4.5	2.8	6	5.3	46.5
4	1	5.7	3.7	8	7.9	62.0
6	1	7.5	5.6	12	13.1	93.0
8	1	8.7	7.5	16	18.3	124.0

¹ referred to a half wave dipole. Attenuation of connecting cables not taken into account.

² without mounting hardware

DIMENSIONS mm.



- Gain is provided for Horizontal polarization.
- When antenna is pole mounted on the top a tower the horizontally polarized radiation pattern is omni - directional.
- If the antenna is side mounted, the supporting structure will have a slight effect on the radiation pattern and VSWR.
- Vertical tower space, wind load and weight numbers given are typical. Actual values vary with the specific installation. Contact us for more details of your installation.
- Gain will be reduced if null fill, beam tilt or special wavelength spacing is provided.
- Antenna radiation aperture is the distance from the centre of the top bay to the centre of the bottom bay.
- Five ft (1.6mt) of pipe required above the top bay and below the bottom bay for to protect from pattern interference by other antennas.
- Antenna wind load is calculated for 100 Mph (160Km/h) per EIA-222-C standard.