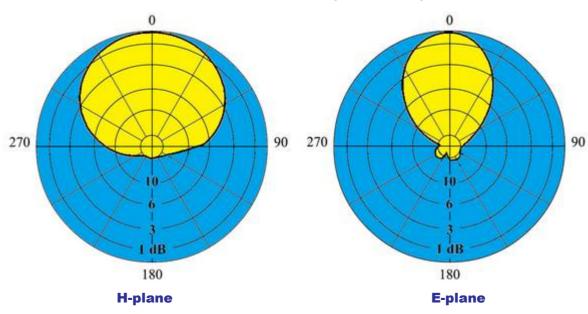
TELECOMUNICAZIONIFERRARA RVRGROUP

Model: AJ3III

- **Band III**
- Broadband 198 ÷ 223 MHz
- **Demountable**
- **Vertical or Horizontal polarization**
- **Pressurizzable on request**



RADIATION PATTERN (MID BAND)



RETURN LOSS

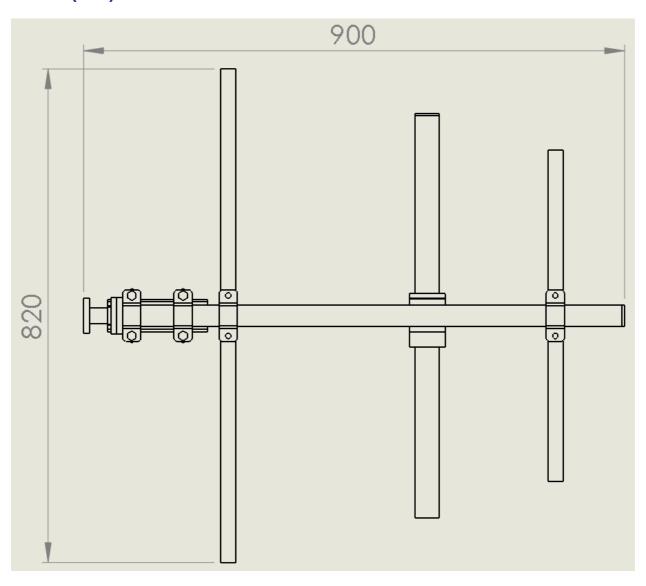






TELECOMUNICAZIONIFERRARA RVRGROUP

Dimensions (mm)



ELECTRICAL DATA					
Frequency range	198 ÷ 223 MHz				
Impedance	50 Ohm				
Connectors	N or 7-16 or 7/8" EIA				
Max Power	800W (N)–2KW (7-16)–3 KW (7/8" EIA)				
VSWR	≤ 1.15:1 Horizontal polarization with pole diam. 100 mm				
Polarization	Horizontal or Vertical				
Gain	4.5 dB (referred to half-wave dipole)				
Half power beam width	E plane ± 33° H plane ± 62°				
Lightning protection	All metal parts DC grounded				

MECHANICAL DATA				
Dimensions	820x900x180 mm			
Weight	10 Kg without hardware mounting			
Wind surface	0.08m ²			
Wind load	10.2 Kg (wind speed at 150 km/h – without radome)			
Max wind velocity	220 Km/h			
Materials	External parts: stainless steel Internal parts: passivated aluminium, brass Radome : fiberglass or PTFE(option)			
Icing protection	Feed point radome (optional)			
Radome color	White (optional)			
Mounting	With special pipe clamps 50 ÷ 110 mm dia.			





TELECOMUNICAZIONIFERRARA RVRGROUP

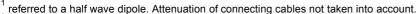
Radiations systems with AJ3III Yagi antenna **Directional pattern**

ELECTRICAL DATA				
Frequency range	198 ÷ 223 MHz			
Impedance	50 Ohm			
Connector	EIA flange according to system power rating			
VSWR	≤ 1.15:1 Max			
Polarization	Horizontal or Vertical			
Gain	According to requirement			
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			

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

TECHNICAL DATA

I Edilitione Data								
Number of	Dipoles per	Gain ¹		Weight ² kg	Antenna height L	Wind load (v=150 km/h)		
bays	bay	dB	times		m	kg		
2	1	7.5	5.6	20	2.1	20.4		
4	1	10.5	11.2	40	4.7	40.8		
6	1	12.3	16.9	60	7.3	61.2		
8	1	13.5	22.3	80	9.9	81.6		
12	1	15.5	35.4	120	15.1	122.4		



without mounting hardware

- Gain is provided for vertical polarization.
- 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 93 Mph (150Km/h) per EIA-222-C standard.

