

Omnidirectional Antenna  
440–470 MHz

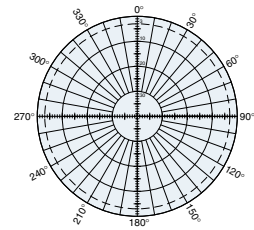
The Kathrein 721 388 and 720 880 omnidirectional broadband antennas are intended for use in professional fixed-station applications in the 440–470 MHz band. They feature:

- Collinear broadband design.
- Brass radiator assembly completely housed within the radome.
- Heavy-duty one-piece fiberglass radome.
- Inner conductor and all metal parts at DC ground potential.
- Extreme weather survival design.
- Integral cast aluminum base.
- Stainless steel hardware and fastenings.

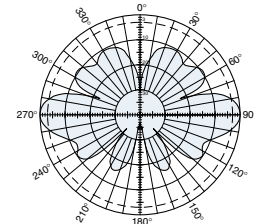
**Specifications:**

Frequency range	440–470 MHz	
Gain	7 dBi	
Impedance	50 ohms	
VSWR	< 1.5:1	
Polarization	Vertical	
Maximum input power	500 watts (at 50°C)	
H-plane beamwidth	Omni	
E-plane beamwidth	18 degrees (half power)	
Connector	<b>721 388</b>	N female
	<b>720 880</b>	7-16 DIN female
Weight	3.5 lb (1.6 kg)	
Height	79.4 inches (2016 mm)	
Radome diameter	0.83 inches (21 mm)	
Equivalent flat plate area	0.58 ft <sup>2</sup> (0.054 m <sup>2</sup> )	
Wind survival rating*	120 mph (200 kph)	
Shipping dimensions	83.6 x 4.4 x 3.8 inches (2124 x 112 x 97 mm)	
Shipping weight	8 lb (3.63 kg)	
Mounting	Mounting hardware supplied.	
	A. Mounting for 1.6 to 2.1 inch (40 to 54 mm) OD mast.	
	B. Mounting for 0.8 to 2.1 inch (20 to 54 mm) OD mast.	

\* Mechanical design is based on environmental conditions as stipulated in EIA-222-F (June 1996) and/or ETS 300 019-1-4 which include the static mechanical load imposed on an antenna by wind at maximum velocity. See the Engineering Section of the catalog for further details.



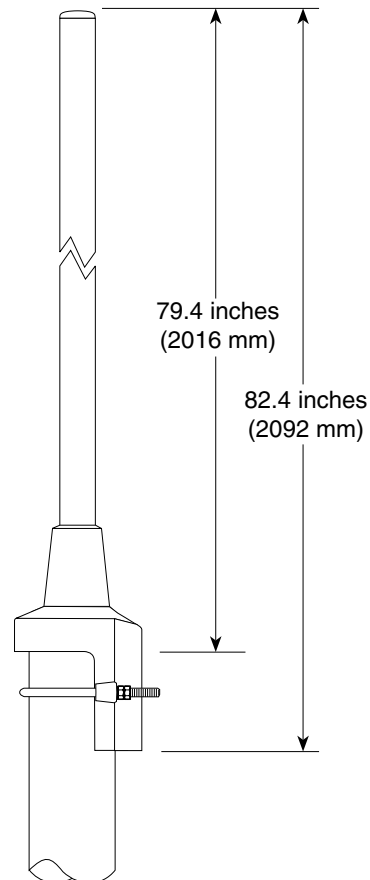
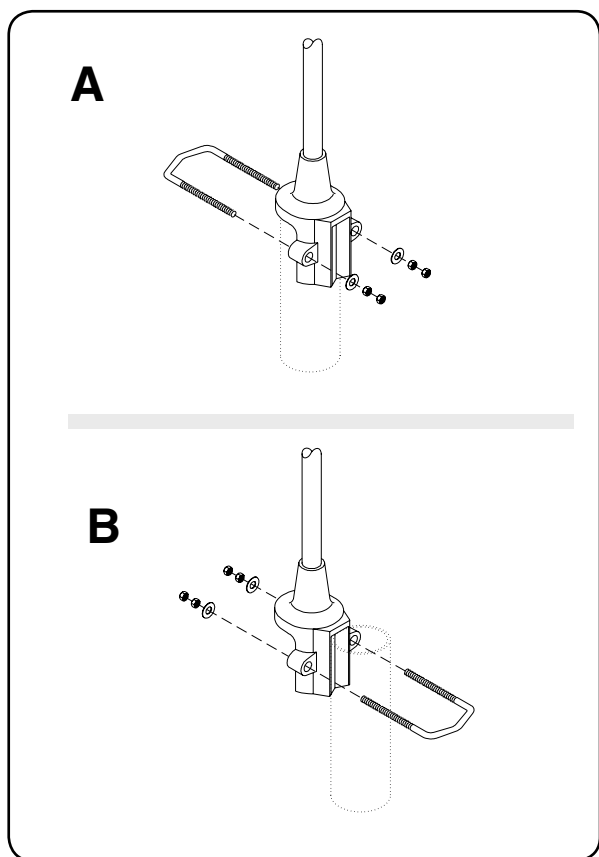
H-plane  
Horizontal pattern – V-polarization



E-plane  
Vertical pattern – V-polarization



10101-D  
936.732/b



**Mounting Options:**

	Description
A	Mounting for 1.6 to 2.1 inch (40 to 54 mm) OD mast
B	Mounting for 0.8 to 2.1 inch (20 to 54 mm) OD mast

**Order Information:**

Model	Description
721 388	Antenna with N female connector
720 880	Antenna with 7-16 DIN female connector

All specifications are subject to change without notice. The latest specifications are available at [www.kathrein-scala.com](http://www.kathrein-scala.com).