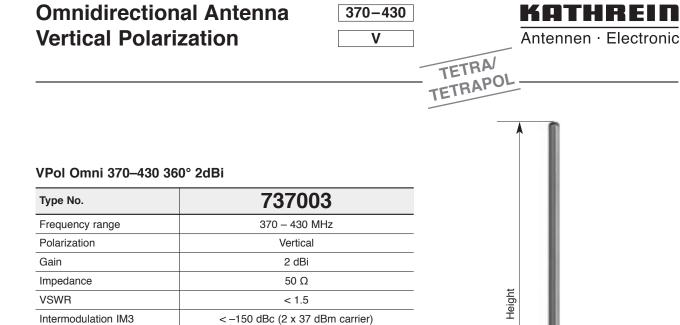
## Indoor Omnidirectional Antennas – Single-band

Туре				Туре No.	Height [mm]	Input	Page
VPol Omni	370-430	360°	2dBi	737003	552	N female	66
VPol Omni VPol Omni	380–405 405–430	360° 360°	2dBi 2dBi	80010277 80010339	77	N female N female	67 67
VPol Indoor	406-430	360°	2dBi	737299	400	cable termination	68
VPol Omni VPol Omni	406–470 450–470	360° 360°	2dBi 2dBi	K751121 80010632	510 77	N female N female	69 67
VPol Indoor	450–470	360°	2dBi	736831	360	cable termination	70

## Indoor Directional Antennas – Single-band

Туре				Туре No.	Height [mm]	Input	Page
VPol Indoor	380–405	90°	7dBi	80010278	302	N female	71
VPol Indoor	405–430	90°	7dBi	80010330	302	N female	71
VPol Indoor	440–470	90°	7dBi	80010633	302	N female	71

**New Products** 



Material:

Mounting:

Grounding:

Max. power

Radiator: Brass.

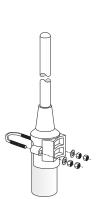
Radome: Fiberglass, dia. 21 mm, colour: Grey. Base: Aluminum. Mounting U-bolt and all screws and nuts: Stainless steel.

100 W (at 50 °C ambient temperature)

The antenna can be attached in two ways with the supplied mounting kit:

- On the tip of any tubular mast of 40 54 mm dia. (connecting cable runs inside the mast).
- Laterally at the tip of any tubular mast of 20 – 54 mm dia. (connecting cable runs outside the mast).

All metal parts of the antenna including the inner conductor are DC grounded.



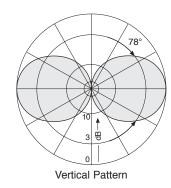


On the tip of a tubular mast

Laterally at the tip of a tubular mast

Mechanical specifications		
Input	N female	
Connector position	Bottom	
Weight	1.0 kg	
Radome diameter	21 mm	
Wind load	20 N (at 150 km/h)	
Max. wind velocity	200 km/h	
Packing size	112 x 97 x 654 mm	
Height	555 mm	





380...470 V

**Indoor Omnidirectional Antennas Vertical Polarization** 

• The antennas need no additional groundplane.

#### 80010277: VPol Indoor 380-405 360° 2dBi 80010339: VPol Indoor 405-430 360° 2dBi 80010632: VPol Indoor 450-470 360° 2dBi

Туре No.	80010277	80010339	80010632		
Frequency range	380 – 405 MHz	405 – 430 MHz	450 – 470 MHz		
Polarization	Vertical	Vertical	Vertical		
Gain	Approx. 2 dBi	Approx. 2 dBi	Approx. 2 dBi		
Impedance	50 Ω	50 Ω	50 Ω		
VSWR	< 2.0	< 2.0	< 2.0		
Max. power	50 W	50 W (at 50 °C ambient temperature)			
Input		1 x N female			
Protection class		IP 30			
Weight		429 g			
Packing size		267 x 267 x 114 mm			
Diameter		258 mm			
Height	7	77 mm (without connector)			

Material:

Mounting:

1

Reflector: Aluminium. Radome: High impact polystyrol, colour: White. Additional painting is possible.

Three holes in the base enable a mounting on the ceiling. Two types of screws are supplied. For the N connector a hole in the ceiling with a diameter of 35 mm is required.

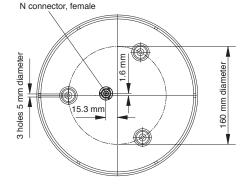
Grounding: All metal parts including the inner conductor are DC grounded.

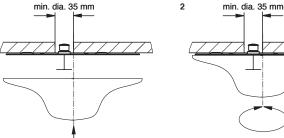
Power splitters (380 - 512 MHz) Available accessories:

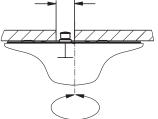


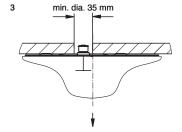
KATHREIN

Antennen · Electronic



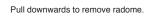






Press radome against installed reflector.

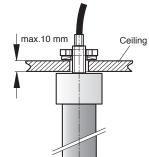
Rotate radome until it locks in place.



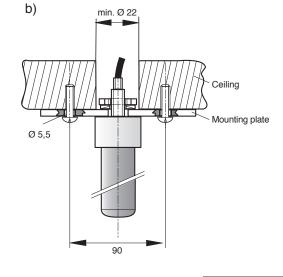
## **Indoor Omnidirectional Antenna Vertical Polarization**

## VPol Indoor 406-430 360° 2dBi

Туре No.	737299		
Frequency range	406 – 430 MHz		
Polarization	Vertical		
Gain	2 dBi		
Impedance	50 Ω		
VSWR	< 1.5		
Max. power	50 W (at 50 °C ambient temperature)		
Material:	Dipole: Brass. Radome: Fiberglass, colour: White. Additional mounting plate: Aluminum.		
Mounting:	<ul><li>a) Single-hole mounting (12 mm diameter) on surface of up to 10 mm thickness.</li><li>b) On surfaces of more than 10 mm thickness, by means of mounting plate included in the scope of delivery.</li></ul>		
Grounding:	All metal parts of the antenna including the inner conductor are DC grounded.		



a)



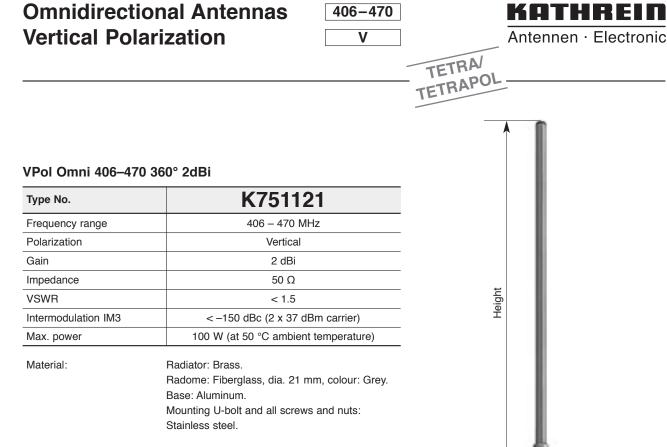
Mechanical specifications		
Input	Cable RG 58/CU of 1 m length, grey, connector is not supplied	
Weight	0.25 kg	
Radome diameter	20 mm	
Mounting plate	115 x 25 mm	
Packing size	Foil: 650 x 130 mm	
Height	400 mm	

# KATHREIN

406-430

V

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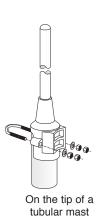


Mounting:

Grounding:

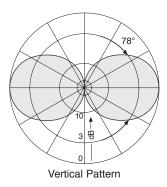
- The antenna can be attached in two ways with the supplied mounting kit:
  1. On the tip of any tubular mast of 40 54 mm dia. (connecting cable runs inside the mast).
  2. Laterally at the tip of any tubular mast of 20 54 mm dia. (connecting cable runs out
  - side the mast).

All metal parts of the antenna including the inner conductor are DC grounded.





Laterally at the tip of a tubular mast



### Mechanical specifications

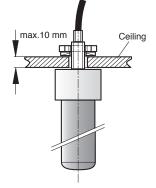
-	
Input	N female
Connector position	Bottom
Weight	0.8 kg
Radome diameter	21 mm
Wind load	20 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	112 x 97 x 614 mm
Height	515 mm

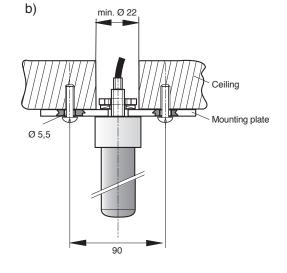
## VPol Indoor 450-470 360° 2dBi

Туре No.	736831	
Frequency range	450 – 470 MHz	
Polarization	Vertical	
Gain	2 dBi	
Impedance	50 Ω	
VSWR	< 1.5	
Max. power	50 W (at 50 °C ambient temperature)	
Material:	Dipole: Brass. Radome: Fiberglass, colour: White. Additional mounting plate: Aluminum.	
Mounting:	<ul><li>a) Single-hole mounting (12 mm diameter) on surface of up to 10 mm thickness.</li><li>b) On surfaces of more than 10 mm thickness, by means of mounting plate included in the scope of delivery.</li></ul>	
Grounding:	All metal parts of the antenna including the inner conductor are DC grounded.	

a)

Indoor 370 – 470 MHz





Mechanical specifications		
Input	Cable RG 58/CU of 1 m length, grey, connector is not supplied	
Weight	0.23 kg	
Radome diameter	20 mm	
Mounting plate	115 x 25 mm	
Packing size	Foil: 650 x 130 mm	
Height	360 mm	



450-470

V

380 470	
V	
90°	_

TETRA/ TETRAPOL



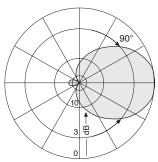
Antennen · Electronic

### 80010278: VPol Indoor 380–405 90° 7dBi 80010330: VPol Indoor 405–430 90° 7dBi 80010633: VPol Indoor 450–470 90° 7dBi

Туре No.	80010278	80010330	80010633	
Frequency range	380 – 405 MHz	405 – 430 MHz	450 – 470 MHz	
Polarization	Vertical	Vertical	Vertical	
Gain	Approx. 7 dBi	Approx. 7 dBi	Approx. 7 dBi	
Half-power beam width	Horizontal: Approx. 90°	Horizontal: Approx. 90°	Horizontal: Approx. 90°	
Impedance	50 Ω	50 Ω	50 Ω	
VSWR	< 2.0	< 2.0	< 2.0	
Max. power	50 W (at 50 °C ambient temperature)		rature)	
Input	N female connector			
Protection class		IP 30		
Weight		1390 g		
Packing size	315 x 252 x 62 mm			
Height/width/depth	302 x 243 x 50 mm			



Reflector: Copper. Radome: High impact polystyrol, colour: White. Additional painting is possible. Mounting plates: Stainless steel.
Two holes of 6 mm diameter in the mounting plate. Screws are not supplied
All metal parts inclusive the inner conductor are DC grounded.
Power splitters (380 – 512 MHz)

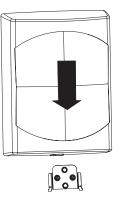


Horizontal Pattern

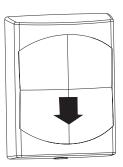
### Mounting:



Mount the attachment plate to the wall using two screws of 4 mm diameter in the position as indicated.



Align the antenna over the attachment plate.



Pull the antenna down to the stop.