

## Offset Parabolic Antennas



### Offset parabolic antennas

- Consist of reflector, feed system support and mast clamp
- Reflector of proven aluminium execution, powder-coated
- Feed system support made of hot-dipped galvanized sheet steel, plastic-coated
- Mast clamp made of hot-dipped galvanized sheet steel
- Optimal electrical data achieved with offset feed and smallest mechanical dimensions
- Delivered in the colours, graphite, white or red-brown
- Two universal feed systems can be mounted on the support arm without additional components for reception of satellites 3° to 4° or 6° apart (e.g. ASTRA/EUTELSAT-HOT BIRD).

For other combinations, the multifeed adapter plate ZAS 90 (page 15) is additionally required.

Kathrein recommends a satellite dish with a diameter of at least 90 cm or larger for multifeed reception.



**CAS 90 with compact feed system UAS 177**

Type		CAS 09	CAS 90	CAS 90/R	
Order no.		216083	216224	216262	
Ø/Colour	cm	90/White (sim. RAL 9002)	90/Graphite (sim. RAL 7012)	90/Red-brown (RAL 8012)	
Reception range		GHz 10.70 – 12.75			
Antenna gain		dBi			
at 10.70–11.70 GHz		38.6			
at 11.70–12.50 GHz		39.2			
at 12.50–12.75 GHz		39.6			
Half-power beamwidth <sup>1)</sup>		° < 1.9			
System figure of merit (G/T) (at 11.3/12.5 GHz)		dB/K		Distance 3°– 4°	Distance 6°
		With feed system	Central		
		UAS 177/272/485	18.5/19.4	17.9/18.9	17.5/18.3
		UAS 484	17.8/18.8	17.3/18.2	16.9/17.6
Cross-polarisation decoupling		dB > 27			
Windload <sup>2)</sup>		N 730			
Max. admissible wind speed		km/h 190			
Mast clamp range		mm 48–90			
Adjustment range		°			
Elevation		5–50			
Azimuth		360			
Dimensions		mm			
Width		987			
Height max.		1030			
Max. protrusion (from middle of mast without feed system)		880			
Packing size		mm 1050 x 1050 x 230			
Weight ca.		kg			
net		9.8			
gross		13.0			

<sup>1)</sup> At mid-band

<sup>2)</sup> At a pressure of 800 N/m<sup>2</sup> according to EN 50083, Part 1 (see page 52, „Windload“)