# 2-Stack Dipole Arrays

## VHF Mid-Band 66...87,5 MHz

- ★ FDC two-stack dipole arrays consist of centre-fed, broadband, half-wave antennas fully equipped with mounting booms and clamps.
- ★ By vertically stacking these antennas, the width of the vertical beam is minimised while the width of the horizontal beam remains unchanged.
- ★ This configuration results in a 3 dB gain.

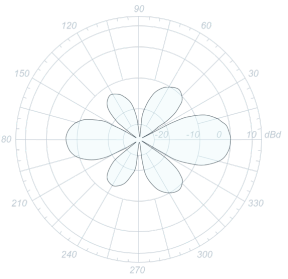


### Electrical Data

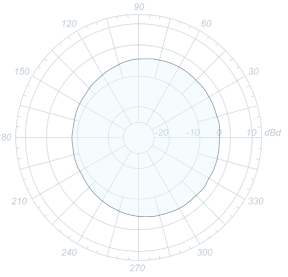
| Sales code | FDC72/2S | FDC80/2S |
|---|---|---|
| Article number | A10AA0815A | A10AA0816A |
| Frequency | 66—78 MHz | 73,5—87,5 MHz |
| Average gain | 3 dBd | |
| Nominal gain | 5 dBd (on Support Pipe) | |
| VSWR | ≤1,5:1 | |
| Polarisation | Vertical | |
| H-plane | 190° @ 3 dB Beam Width | |
| E-plane | 30° @ 3 dB Beam Width | |
| Rated power | 150 W | |
| Impedance | 50 Ω | |
| Termination | N Male | |
| Surge protection | All metal parts are directly grounded | |

### Mechanical Data

| Wind velocity | ≤ 200 km/h | |
|---|---|---|
| Wind load @ 144 km/h | 48,2 kg | 44,6 kg |
| Flat plate area | 0,456 m² | 0,420 m² |
| Material | Aluminium | |
| Mounting | With crossover plate assembly (support pipe optional extra) | |
| Antenna dimensions | H 3,9 m | H 3,5 m |
| Parcel dimensions | 9,4 kg / 2 off 236 cm x 28 cm x 8 cm | 8,6 kg / 2 off 236 cm x 28 cm x 8 cm |



Typical vertical pattern double dipole VHF



Typica pattern single id-band

Notes:
The horizontal radiation pattern is omnidirectional. Vertical polarisation. Normalised scale - not amplification (gain).

# 2-Stack Dipole Arrays

## VHF Air-Band/High-Band 118...268 MHz

### Electrical Data

| Sales code | FDC125/2S | FDC145/2S | FDC160/2S | FDC250/2S |
|---|---|---|---|---|
| Article number | A10AA0760A | A10AA0762A | A10AA0759A | A10AA0812A |
| Frequency | 118—136 MHz | 138—156 MHz | 146—174 MHz | 254—268 MHz |
| Average gain | 3 dBd | | | |
| Nominal gain | 5 dBd (on Support Pipe) | | | |
| VSWR | ≤1,5:1 | | | |
| Polarisation | Vertical | | | |
| H-plane | 190° @ 3 dB Beam Width | | | |
| E-plane | 30° @ 3 dB Beam Width | | | |
| Rated power | 150 W | | | |
| Impedance | 50 Ω | | | |
| Termination | N Male | | | |
| Surge protection | All metal parts are directly grounded | | | |

### Mechanical Data

| Wind velocity | ≤ 200 km/h | | | |
|---|---|---|---|---|
| Wind load @ 144 km/h | 30 kg | 28,1 kg | 26,9 kg | 21,5 kg |
| Flat plate area | 0,283 m² | 0,266 m² | 0,252 m² | 0,202 m² |
| Material | Aluminium | | | |
| Mounting | With crossover plate assembly (support pipe optional extra) | | | |
| Antenna dimensions | H 3,6 m | H 3,0 m | H 2,6 m | H 1,8 m |
| Parcel dimensions | 7,3 kg / 2 off 110 cm x 30 cm x 8 cm + 1 off 32 cm x 33 cm x 6 cm | 7,1 kg / 2 off 110 cm x 30 cm x 8 cm + 1 off 32 cm x 33 cm x 6 cm | 6,9 kg / 2 off 110 cm x 30 cm x 8 cm + 1 off 32 cm x 33 cm x 6 cm | 5,7 kg / 2 off 110 cm x 30 cm x 8 cm + 1 off 32 cm x 33 cm x 6 cm |

Made in South Africa



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