webb
A JASCO COMPANY

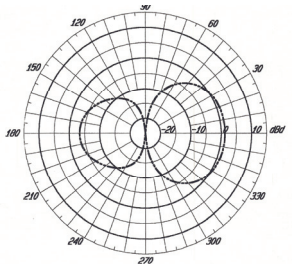
118 . . . 268 MHz

VHF HALF-WAVE FOLDED DIPOLE ANTENNAS

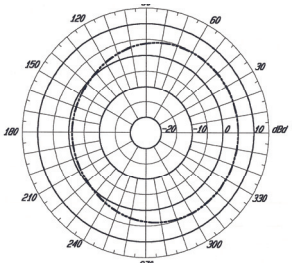
- ☑ The FDC range of antennas are center-fed, broadband, half-wave antennas supplied with a mounting boom and clamp.
- ☑ These antennas can be stacked and fed with a matching phasing harness for increased gain.
- ☑ Metal parts DC grounded

FDC

Electrical Data	FDC 125	FDC 145	FDC 150	FDC 150HD	FDC 160	FDC 250	SI
Frequency	118—136	138—156	138—174	146—166	146—174	254—268	MHz
Average Gain	0						dBd
Nominal Gain	2						dBd
VSWR	≤ 1,5:1						
Polarisation	Vertical						
H-Plane	190 3 dB Beam Width						°
E-Plane	70 3 dB Beam Width						°
Rated Power	150						W
Impedance	50						Ω
Termination	N-Type male						
Surge Protection	All metal parts directly grounded						
Mechanical Data							
Max. wind velocity	200						km/h
Wind Load @ 144 km/h	12,5	11,7	11,7	11,7	11,2	9,0	kg
Flat Plate Area	0.118	0.111			0.105	0.084	m^2
Material	Aluminium						
Mounting	With cross-over plate assembly						
Dims	1.1	0.9			0.8	0.6	m
Packed Weight	3,5	3,4			3,3	2,7	kg
Packed Volume	110 x 30 x 8	95 x 30 x 8			85 x 30 x 8	85 x 30 x 8	cm



Vertical Pattern



Horizontal Pattern

NOTES:
FOLDED DIPOLE
ON 50 mm SUPPORT PIPE.
VERTICAL / HORIZONTAL
PLANE 160 MHz
VERTICAL POLARIZATION.
NORMALIZED SCALE
– NOT GAIN.

ISO 9001 CERTIFIED

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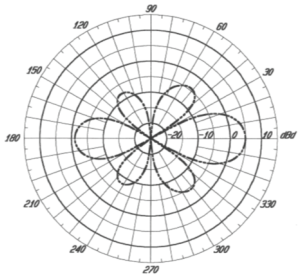
2-STACK VHF DIPOLE ARRAYS

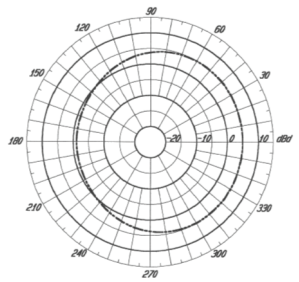
- ☑ The FDC two stack arrays use center-fed, broadband, half-wave antennas supplied with a mounting boom and clamp.
- ☑ Antennas stacked vertically reduce the width of the vertical beam but the width of the horizontal beam is not altered.
- ☑ 3dB Gain.

FDC 2-STACK

Electrical Data	FDC 125_2S	FDC 145_2S	FDC 160_2S	FDC 250_2S	
Frequency	118—136	138—156	146—174	254—268	MHz
Gain	3 (Average) / 5 (Nominal, on Support Pipe)				dBd
VSWR	≤ 1,5:1				
Polarisation	Vertical				
H-Plane	3 dB Beam Width 190°				deg
E-Plane	3 dB Beam Width 30°				deg
Rated Power	150				W
Impedance	50 Ω				ohm
Termination	N-Type male				
Surge Protect	All metal parts directly grounded				
Mechanical Data					
Wind velocity	200 Max.				km/h
Wind Load @ 144 km/h	30	28,1	26,9	21,5	kg
Flat Plate Area	0,283	0,266	0,252	0,202	m^2
Material	Aluminium				
Mounting	Cross-over Plate assembly (support pipe optional)				
Antenna Array Length	3,6	3	2,6	1,8	m
Packed Dims	2 off 110 cm x 30 cm x 8 cm, + 1 of 32 cm x 33 cm x 6 cm				
Packed Weight	7,3	7,1	6,9	5,7	kg



Typical Vertical Pattern



Typical Horizontal Pattern

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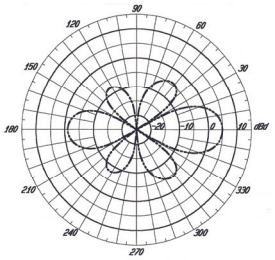
4-STACK VHF DIPOLE ARRAYS

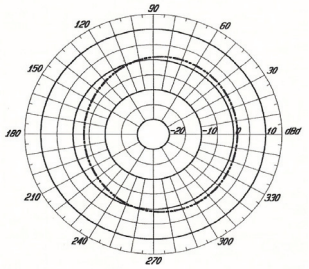
- ☑ The FDC four stack arrays use center-fed, broadband, half-wave antennas supplied with a mounting boom and clamp.
- ☑ Antennas stacked vertically reduce the width of the vertical beam but the width of the horizontal beam is not altered.
- ☑ 6dB Gain.

FDC 4-STACK

Electrical Data	FDC 125_4S	FDC 145_4S	FDC 160_4S	FDC 250_4S	SI
Frequency	118—136	138—156	146—174	254—268	MHz
Gain	6 (Average) / 8 (Nominal, on Support Pipe)				dBd
VSWR	≤ 1,5:1				
Polarisation	Vertical				
H-Plane	3 dB Beam Width 190°				deg
E-Plane	3 dB Beam Width 16°				deg
Rated Power	150				W
Impedance	50 Ω				ohm
Termination	N-Type male				
Surge Protect	All metal parts directly grounded				
Mechanical Data					
Wind velocity	200 Max.				km/h
Wind Load @ 144 km/h	60	56,2	53,8	43	kg
Flat Plate Area	0,566	0,533	0,504	0,403	m^2
Material	Aluminium				
Mounting	With cross-over plate assembly (support pipe optional)				
Antenna Array Length	8,7	7,4	7,0	4,1	m
Packed Weight	14,4	14	13,6	11,2	kg
Volume (cm)	4 / 110x30x8 +1/ 47x42x7	4/ 95x30x8 +1/ 47x42x7	4/ 85x30x8 +1/ 47x42x7		cm



Typical Vertical Pattern



Typical Horizontal Pattern

NOTES:
VERTICAL POLARIZATION.
NORMALIZED SCALE
– NOT GAIN.

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