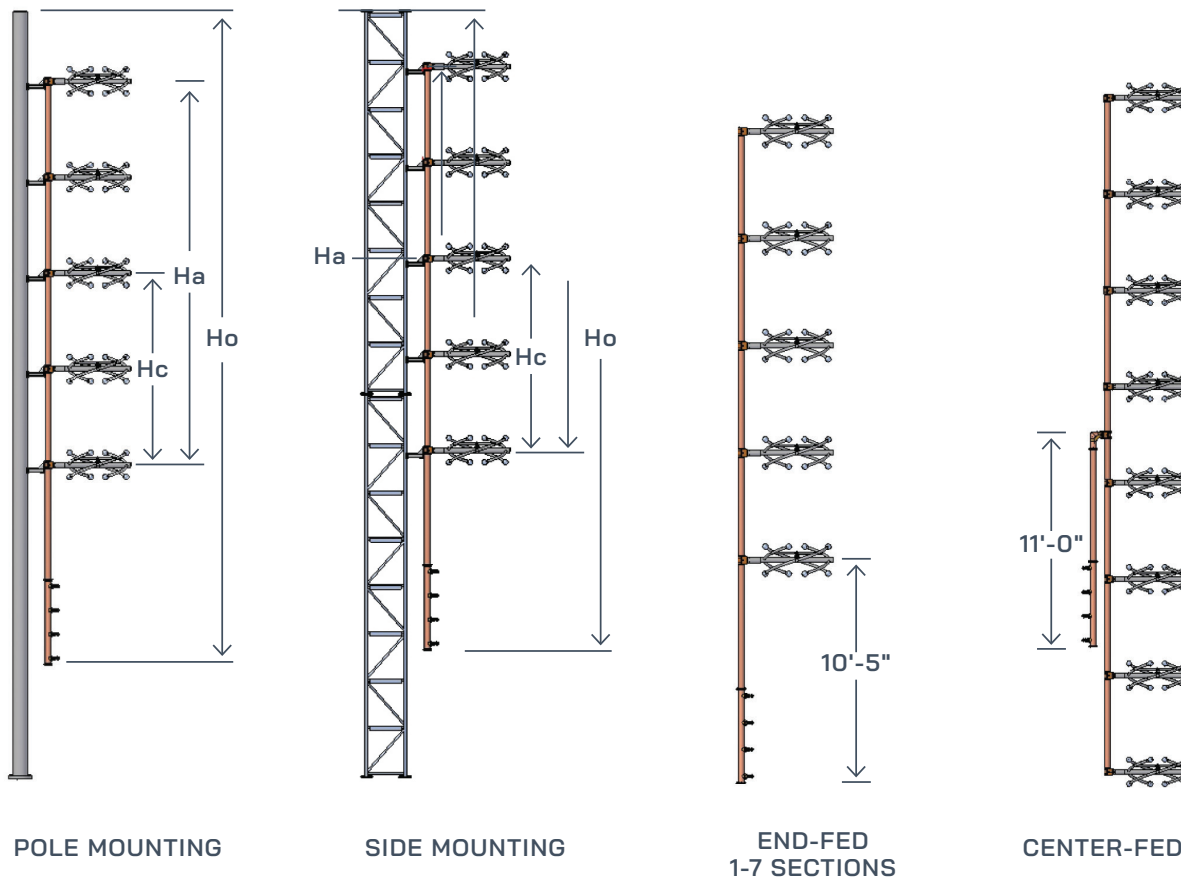


Mounting Dimensions



H_a = Antenna aperture length
 H_c = Antenna center of radiation
 H_o = Antenna overall length needed for mounting
 $H_a = 984/f \times [s(x-1)]$
 $H_c = H_a/2$
 $H_o \text{ end-fed} = H_a + 5' \text{ top} + 10' - 5'' \text{ bottom}$
 $H_o \text{ center-fed} = H_a + 5' \text{ top} + 5' \text{ bottom}$

All dimensions in feet
 f = frequency in megahertz (MHz)
 s = bay spacing in fraction of wavelengths
 example: $\frac{1}{2}$ wavelength = .5
 x = number of antenna bays

Note: Antennas ordered w/beam tilt and/or null fill are supplied with center feed and require even number of bays.

Deicer Specifications:
 Power (nominal per bay): 1200 W
 Voltage: may be wired for 208 V or
 240 V service, single or three phase.

Optional

Ice sensor and deicer controller.

Mechanical Specifications

Antenna Type DCR-S or HDR-S	# of Bays	Without Randomes			
		Weight lbs (kg)		CaAc ft ² (m ³)	
		λ Spaced	1/2 λ Spaced	λ Spaced	1/2 λ Spaced
DCR-S1 HDR-S1	1	198 (90)	—	7.2 (.7)	—
DCR-S2 HDR-S2	2	322 (146)	307 (139)	14.1 (1.3)	12.6 (1.2)
DCR-S3 HDR-S3	3	451 (205)	421 (191)	21 (2.0)	18 (1.7)
DCR-S4 HDR-S4	4	581 (264)	536 (243)	27.9 (2.6)	23.4 (2.2)
DCR-S5 HDR-S5	5	710 (322)	650 (295)	34.8 (3.2)	28.8 (2.7)
DCR-S6 HDR-S6	6	840 (381)	765 (347)	41.7 (3.9)	34.2 (3.2)
DCR-S7 HDR-S7	7	969 (440)	879 (399)	48.5 (4.5)	39.5 (3.7)
DCR-S8 HDR-S8	8	1142 (518)	1037 (470)	55.7 (5.2)	45.2 (4.2)
DCR-S10 HDR-S10	10	1401 (635)	1266 (574)	69.5 (6.5)	56 (5.2)
DCR-S12 HDR-S12	12	1660 (753)	1495 (678)	83.3 (7.7)	66.8 (6.2)

Notes:

1. CaAc and weight includes bays and standard extension brackets for mounting. Excludes custom mounts. For antennas that include pattern studies, contact factory for additional information.
2. Dimensions are for antennas at 98.0 MHz and can vary $\pm 10\%$ across the band.
3. Ice shields are strongly recommended for areas subject to icing conditions. Dielectric is not responsible for antenna damage caused by impact from falling ice.
4. Calculated area (CaAc) expressed in TIA/EIA-222-F standard.
5. Specs. are for a single DCR-S antenna array or HDR-S antenna array, not both.

With Randomes				With Deicers			
Weight lbs (kg)		CaAc ft ² (m ³)		Weight lbs (kg)		CaAc ft ² (m ³)	
λ Spaced	1/2 λ Spaced	λ Spaced	1/2 λ Spaced	λ Spaced	1/2 λ Spaced	λ Spaced	1/2 λ Spaced
335 (152)	—	11.2 (1.0)	—	197 (89)	—	7.7 (.7)	—
607 (275)	592 (269)	22.1 (2.1)	20.6 (1.9)	332 (151)	317 (144)	15.1 (1.4)	13.6 (1.3)
879 (394)	849 (385)	33.0 (3.1)	30.0 (2.8)	466 (211)	436 (198)	22.5 (2.1)	19.5 (1.8)
1151 (522)	1106 (502)	43.9 (4.1)	39.4 (3.7)	601 (273)	556 (252)	29.9 (2.8)	25.4 (2.4)
1423 (645)	1363 (618)	54.9 (5.1)	48.9 (4.5)	735 (333)	675 (306)	37.3 (3.5)	31.3 (2.9)
1695 (769)	1620 (733)	65.8 (6.1)	58.3 (5.4)	870 (395)	795 (361)	44.7 (4.2)	37.2 (3.5)
1967 (892)	1877 (851)	76.6 (7.1)	67.6 (6.3)	1004 (455)	914 (415)	52 (4.8)	43 (4.0)
2239 (1016)	2134 (968)	87.8 (8.2)	77.3 (7.2)	1182 (536)	1033 (468)	59.7 (5.5)	49.2 (4.6)
2753 (1249)	2618 (1188)	110.0 (10.2)	96.5 (9.0)	1451 (658)	1286 (583)	74.5 (6.9)	61 (5.7)
3267 (1481)	3102 (1407)	131.0 (12.2)	115.0 (10.6)	1720 (780)	1555 (705)	89.3 (8.3)	72.8 (6.8)