

PHYSICAL SPECIFICATIONS

60 Hz

90-180T

Model ACDS	090	100	120	135	150	165	180
Unit Nominal Capacity TR[kW]	96.8 [340.4]	108.8 [382.6]	118.8 [417.8]	131.1 [461.1]	145.5 [511.7]	162.1 [570.1]	179.2 [630.2]
Unit Nominal Power Input kW	114.0	126.7	139.0	151.2	167.0	188.2	206.0
EER	10.19	10.30	10.25	10.41	10.45	10.34	10.44
COMPRESSOR							
RPM	3500						
Min. % Unit Capacity	25%	25%	25%	16.7%	16.7%	16.7%	16.7%
No. Of Refrigerant Circuit	2	2	2	2	2	2	2
EVAPORATOR							
Water Connector inches[mm]	2.5[63.5]	2.5[63.5]	2.5[63.5]	4.0[101.6]	4.0[101.6]	4.0[101.6]	4.0[101.6]
Nominal Water Flow USgpm[m ³ /hr]	232.3 [52.8]	261.1 [59.3]	285.1 [64.8]	314.6 [71.5]	349.2 [79.3]	389.0 [88.4]	430.1 [97.7]
Nominal Pressure Drop ft.wg[kPa]	14.8 [44.2]	18.4 [55.0]	19.6 [58.6]	12.7 [38.0]	15.3 [45.7]	16.7 [49.9]	16.3 [48.7]
Min/Max. Water Flow USgpm[m ³ /hr]	161.0/ 484.0 [36.6/ 109.9]	161.0/ 484.0 [36.6/ 109.9]	185.0/ 551.0 [42.0/ 125.1]	210.0/ 520.0 [47.7/ 118.1]	210.0/ 520.0 [47.7/ 118.1]	250.0/ 550.0 [56.8/ 124.9]	270.0/ 621.0 [61.3/ 141.0]
Min/Max. Water Pressure Drop ft.wg[kPa]	7.5/ 57.7 [22.4/ 172.5]	7.5/ 57.7 [22.4/ 172.5]	8.8/ 66.2 [26.3/ 197.9]	6.0/ 32.1 [17.9/ 95.9]	6.0/ 32.1 [17.9/ 95.9]	7.3/ 31.6 [21.8/ 94.5]	6.9/ 32.1 [20.6/ 95.9]
CONDENSER							
Total Face Area ft ² [m ²]	133.0[12.4]	177.3[16.5]	177.3[16.5]	235.6[21.9]	235.6[21.9]	282.6[26.3]	282.6[26.3]
Total Air Flow cfm[m ³ /hr]	71100 [120800]	94800 [161066]	94800 [161066]	120500 [204730]	120500 [204730]	144600 [245677]	144600 [245677]
No Of Fan	8	8	8	10	10	12	12
Fan Diameter inches[mm]	31.5[800.0]	31.5[800.0]	31.5[800.0]	31.5[800.0]	31.5[800.0]	31.5[800.0]	31.5[800.0]
Motor kW ¹ (Qty)	2.40 (8)	2.40 (8)	2.40 (8)	2.40 (10)	2.40 (10)	2.40 (12)	2.40 (12)
Fan FLA , Amp (Qty)	4.0 (8)	4.0 (8)	4.0 (8)	4.0 (10)	4.0 (10)	4.0 (12)	4.0 (12)
GENERAL							
Unit Length inches[mm]	151 1/2[3850]	192[4880]	192[4880]	228 1/2[5800]	228 1/2[5800]	270 1/2[6870]	270 1/2[6870]
Unit Width inches[mm]	89[2260]	89[2260]	89[2260]	89[2260]	89[2260]	89[2260]	89[2260]
Unit Height inches[mm]	93 1/2[2380]	93 1/2[2380]	93 1/2[2380]	98[2490]	98[2490]	98[2490]	98[2490]
Shipping Weight lbs[kg]	5292[2400]	6441[2922]	6762[3067]	7776[3527]	7880[3575]	9059[4109]	9589[4350]
Operating Weight lbs[kg]	5350[2427]	6509[2953]	6836[3101]	7894[3581]	7998[3628]	9190[4169]	9752[4423]
Operating Charge R410A lbs[kg]	229[104]	254[115]	304[138]	342[155]	381[173]	419[190]	456[207]

Notes: 1. The above data are rated in accordance with AHRI Standard 550/590 with following conditions:
 Evaporator leaving fluid temperature 44°F with fluid flow rate 2.4 USgpm/ton; ambient temperature at 95°F; evaporator fouling factor 0.0001hr.ft².°F/Btu
 2. To consult nearest Dunham-Bush sales office for computer selections other than above operating conditions