DIRECT COIL INC.

INNOVATIVE
HEAT TRANSFER
PRODUCTS

AIR COOLED CONDENSERS

AIR COOLED CONDENSER NOMENCLATURE

AC **30** **4D** **059**

Product Name:
AC = Air Cooled Condenser

Fan Size:
30 = 30" Fan Blade
24 = 24" Fan Blade
20 = 20" Fan Blade

Nominal Capacity

Number of Fans:
1 = 1 Fan Single Row
2 = 2 Fan Single Row
3 = 3 Fan Single Row
4 = 4 Fan Single Row
5 = 5 Fan Single Row
6 = 6 Fan Single Row
4D = 4 Fan Double Row
6D = 6 Fan Double Row
8D = 8 Fan Double Row
10D = 10 Fan Double Row
12D = 12 Fan Double Row

DIRECT COIL INC.

Air Cooled Condensers

Direct Coil Condensers are designed for outdoor application with housing available in heavy gauge galvanized steel or aluminum or painted steel. Our engineers have designed the condenser for optimum heat transfer, ease of installation and dependable operation. The Air Cooled Condensers are engineered for superior performance, energy efficiency, quiet operation and long operational life. The Condenser coils are designed to operate with the new generation of environmentally friendly refrigerants.

The condensers are available in 1140, 830 or 540 RPM fan motors in either single or double row of fans. Fan motors and blades have been selected for optimum performance at minimum noise levels. Extensive testing of the condenser ensures long and trouble-free service life.

Design Features

- Condenser coils are constructed with smooth or rifled copper tubes with corrugated aluminum fins. All units are pressure tested and dehydrated prior to shipment.
- The casing is made from heavy gauge galvanized steel or aluminum. Both types of enclosures provide corrosion protection for outdoor applications.
- Vertical air discharge unit is standard. Horizontal is optional.
- High efficiency three phase fan motors with ball bearings and internal overload protection.
- Internal baffles provided between all fan cells.
- PVC coated steel fan guards for optimum corrosion protection.
- All Fan motor leads are wired to a weatherproof control panel to provide single-point field wiring

Available Options

- All condensers available with 8, 10, or 12 fins per inch spacing.
- Alternate coil construction including coated fins, epoxy or phenolic coated fins and copper fins.
- Complete Fan cycling and fan speed control available.
- Multiple refrigeration circuiting options available on request.
- Adjustable flooded head pressure controls for low ambient applications.
- Factory mounted receiver with or without heater and insulation.
- EC motor for high efficiency and premium noise levels.
- Non fused disconnect switch and individual motor fusing.
- Motors with voltages for 60 Hz or 50 Hz.

DIRECT COIL INC.

SELECTION DATA
AIR COOLED CONDENSERS - 20" & 24" FAN

UNIT MODEL NO.	AVAILABLE CIRCUITS	THERMAL CAPACITY IN MBH					
		TD= Condenser Temperature - Ambient Air Temperature					
		1	10	15	20	25	30
Single Fan Row							
AC201001	1	0.98	9.8	14.7	19.6	24.5	29.4
AC201002	2	1.47	14.7	22.0	29.3	36.6	44.0
AC201003	2	1.95	19.5	29.3	39.0	48.8	58.5
AC201004	3	2.47	24.7	37.0	49.3	61.6	74.0
AC241005	4	2.95	29.5	44.3	59.0	73.8	88.5
AC241006	6	3.49	34.9	52.3	69.7	87.1	104.6
AC242009	8	4.98	49.8	74.7	99.6	124.5	149.4
AC242012	8	6.48	64.8	97.1	129.5	161.9	194.3
AC242014	12	7.23	72.3	108.4	144.5	180.6	216.8
AC243017	20	8.79	87.9	131.9	175.8	219.8	263.7
AC243020	20	10.47	104.7	157.0	209.3	261.6	314.0
AC243022	20	11.12	111.2	166.8	222.4	278.0	333.6
AC244025	20	12.70	127.0	190.5	254.0	317.5	381.0
AC244027	30	13.80	138.0	207.0	276.0	345.0	414.0
AC244030	30	15.24	152.4	228.5	304.7	380.9	457.1
Double Fan Row							
AC244D019	16	9.97	99.7	149.6	199.4	249.3	299.1
AC244D026	16	12.96	129.6	194.4	259.2	324.0	388.8
AC244D029	24	14.46	144.6	216.8	289.1	361.4	433.7
AC246D035	40	17.58	175.8	263.7	351.6	439.5	527.4
AC246D041	40	20.93	209.3	314.0	418.6	523.3	627.9
AC246D045	40	22.24	222.4	333.5	444.7	555.9	667.1
AC248D051	40	25.40	254.0	380.9	507.9	634.9	761.9
AC248D055	60	27.59	275.9	413.9	551.8	689.8	827.7
AC248D061	60	30.46	304.6	456.9	609.2	761.5	913.8

Notes: 1.Capacities are based on R410a. For other refrigerants contact factory
2. For multicircuiting of condenser contact facory.

DIRECT COIL INC.

ELECTRICAL SPECIFICATIONS FOR AIR COOLED CONDENSERS - 20" & 24" FAN

Model Number	Fan Data		Motor FLA			Appox. Net weight (LBS)
	Fan Config.	No. of Fans	230/3/60	460/3/60	575/3/60	
Single Row Models						
AC201001	1X1	1	2.8	1.2	1.0	120
AC201002	1X1	1	2.8	1.2	1.0	130
AC201003	1X1	1	2.8	1.2	1.0	141
AC201004	1X1	1	2.8	1.2	1.0	152
AC241005	1X1	1	2.8	1.2	1.0	256
AC241006	1X1	1	2.8	1.2	1.0	276
AC242009	1X2	2	5.6	2.4	2.0	412
AC242012	1X2	2	5.6	2.4	2.0	456
AC242014	1X2	2	5.6	2.4	2.0	492
AC243017	1X3	3	8.4	3.6	3.0	602
AC243020	1X3	3	8.4	3.6	3.0	675
AC243022	1X3	3	8.4	3.6	3.0	739
AC244025	1X4	4	11.2	4.8	4.0	790
AC244027	1X4	4	11.2	4.8	4.0	884
AC244030	1X4	4	11.2	4.8	4.0	972
Double Row Models						
AC244D019	2X2	4	11.2	4.8	4.0	824
AC244D026	2X2	4	11.2	4.8	4.0	912
AC244D029	2X2	4	11.2	4.8	4.0	981
AC246D035	2X3	6	16.8	7.2	6.0	1204
AC246D041	2X3	6	16.8	7.2	6.0	1349
AC246D045	2X3	6	16.8	7.2	6.0	1477
AC248D051	2X4	8	22.4	9.6	8.0	1580
AC248D055	2X4	8	22.4	9.6	8.0	1767
AC248D061	2X4	8	22.4	9.6	8.0	1943

DIRECT COIL INC.

SELECTION DATA
AIR COOLED CONDENSERS - 30" FAN

UNIT MODEL NO.	AVAILABLE CIRCUITS	THERMAL CAPACITY IN MBH TD= Condenser Temperature - Ambient Air Temperature					
		1	10	15	20	25	30
Single Fan Row							
AC301011	9	5.89	58.90	88.35	117.80	147.25	176.70
AC301015	11	7.87	78.70	118.05	157.40	196.75	236.10
AC302022	15	11.32	113.20	169.80	226.40	283.00	339.60
AC302025	15	12.80	128.00	192.00	256.00	320.00	384.00
AC302030	22	14.76	147.60	221.40	295.20	369.00	442.80
AC302032	22	16.23	162.30	243.45	324.60	405.75	486.90
AC303034	22	17.22	172.20	258.30	344.40	430.50	516.60
AC303039	22	19.70	197.00	295.50	394.00	492.50	591.00
AC303043	33	21.67	216.70	325.05	433.40	541.75	650.10
AC303049	33	24.60	246.00	369.00	492.00	615.00	738.00
AC304051	45	25.60	256.00	384.00	512.00	640.00	768.00
AC304058	27	29.50	295.00	442.50	590.00	737.50	885.00
AC304064	27	32.47	324.70	487.05	649.40	811.75	974.10
AC305068	27	34.93	349.30	523.95	698.60	873.25	1047.90
AC305076	27	38.87	388.70	583.05	777.40	971.75	1166.10
AC305079	24	40.30	403.00	604.50	806.00	1007.50	1209.00
AC305087	24	44.28	442.80	664.20	885.60	1107.00	1328.40
AC306093	27	46.74	467.40	701.10	934.80	1168.50	1402.20
AC306096	36	48.21	482.10	723.15	964.20	1205.25	1446.30
AC306106	36	53.10	531.00	796.50	1062.00	1327.50	1593.00
Double Fan Row							
AC304D047	30	23.15	231.50	347.25	463.00	578.75	694.50
AC304D053	30	26.05	260.50	390.75	521.00	651.25	781.50
AC304D059	44	29.90	299.00	448.50	598.00	747.50	897.00
AC304D067	44	32.80	328.00	492.00	656.00	820.00	984.00
AC306D069	44	34.44	344.40	516.60	688.80	861.00	1033.20
AC306D078	44	39.40	394.00	591.00	788.00	985.00	1182.00
AC306D086	66	43.34	433.40	650.10	866.80	1083.50	1300.20
AC306D098	66	49.20	492.00	738.00	984.00	1230.00	1476.00
AC308D102	90	51.20	512.00	768.00	1024.00	1280.00	1536.00
AC308D118	54	59.04	590.40	885.60	1180.80	1476.00	1771.20
AC308D130	54	64.94	649.40	974.10	1298.80	1623.50	1948.20
AC3010D140	54	69.90	699.00	1048.50	1398.00	1747.50	2097.00
AC3010D155	54	77.73	777.30	1165.95	1554.60	1943.25	2331.90
AC3010D161	48	80.70	807.00	1210.50	1614.00	2017.50	2421.00
AC3010D176	48	88.60	886.00	1329.00	1772.00	2215.00	2658.00
AC3012D186	54	93.50	935.00	1402.50	1870.00	2337.50	2805.00
AC3012D192	72	96.40	964.00	1446.00	1928.00	2410.00	2892.00
AC3012D212	72	106.25	1062.50	1593.75	2125.00	2656.25	3187.50

Notes: 1.Capacities are based on R410a. For other refrigerants contact factory

2. For multicircuiting of condenser contact facory.

DIRECT COIL INC.

ELECTRICAL SPECIFICATIONS FOR AIR COOLED CONDENSERS - 30" FAN

Model Number	Fan Data		Motor FLA			Appox. Net weight (LBS)
	Fan Config.	No. of Fans	230/3/60	460/3/60	575/3/60	
Single Row Models						
AC301011	1X1	1	7.0	3.5	2.8	515
AC301015	1X1	1	7.0	3.5	2.8	590
AC302022	1X2	2	14.0	7.0	5.6	895
AC302025	1X2	2	14.0	7.0	5.6	960
AC302030	1X2	2	14.0	7.0	5.6	1050
AC302032	1X2	2	14.0	7.0	5.6	1070
AC303034	1X3	3	21.0	10.5	8.4	1110
AC303039	1X3	3	21.0	10.5	8.4	1300
AC303043	1X3	3	21.0	10.5	8.4	1430
AC303049	1X3	3	21.0	10.5	8.4	1590
AC304051	1X4	4	28.0	14.0	11.2	1650
AC304058	1X4	4	28.0	14.0	11.2	1875
AC304064	1X4	4	28.0	14.0	11.2	2050
AC305068	1X5	5	35.0	17.5	14.0	2270
AC305076	1X5	5	35.0	17.5	14.0	2530
AC305079	1X5	5	35.0	17.5	14.0	2610
AC305087	1X5	5	35.0	17.5	14.0	2900
AC306093	1X6	6	42.0	21.0	16.8	3150
AC306096	1X6	6	42.0	21.0	16.8	3200
AC306106	1X6	6	42.0	21.0	16.8	3400
Double Row Models						
AC304D047	2X2	4	28.0	14.0	11.2	1795
AC304D053	2X2	4	28.0	14.0	11.2	1925
AC304D059	2X2	4	28.0	14.0	11.2	2090
AC304D067	2X2	4	28.0	14.0	11.2	2150
AC306D069	2X3	6	42.0	21.0	16.8	2550
AC306D078	2X3	6	42.0	21.0	16.8	2720
AC306D086	2X3	6	42.0	21.0	16.8	2950
AC306D098	2X3	6	42.0	21.0	16.8	3250
AC308D102	2X4	8	56.0	28.0	22.4	3385
AC308D118	2X4	8	56.0	28.0	22.4	3900
AC308D130	2X4	8	56.0	28.0	22.4	4160
AC3010D140	2X5	10	70.0	35.0	28.0	4720
AC3010D155	2X5	10	70.0	35.0	28.0	5240
AC3010D161	2X5	10	70.0	35.0	28.0	5400
AC3010D176	2X5	10	70.0	35.0	28.0	5980
AC3012D186	2X6	12	84.0	42.0	33.6	6500
AC3012D192	2X6	12	84.0	42.0	33.6	6600
AC3012D212	2X6	12	84.0	42.0	33.6	6950

DIMENSIONAL SPECIFICATIONS FOR AIR COOLED CONDENSERS

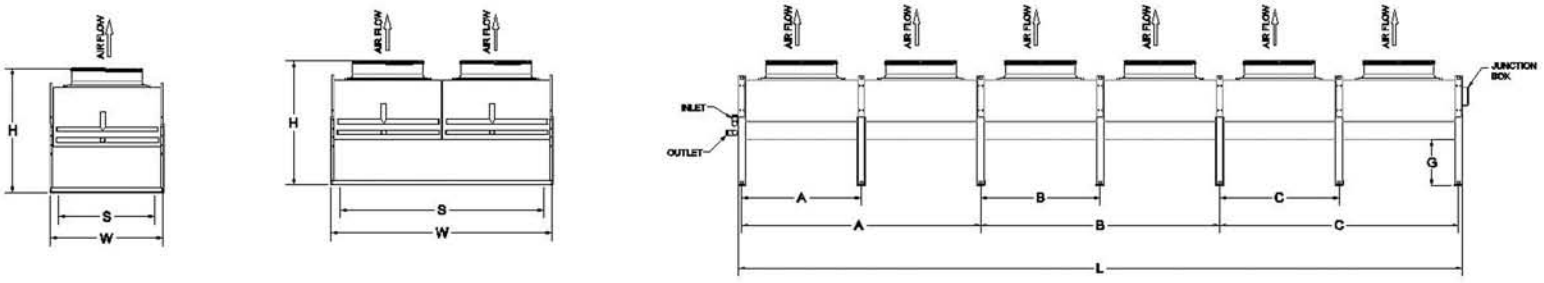

Table 1 - AC20 & AC24 Dimensional Data

Model Number	AC 20	AC 24	AC 24	AC 24	AC 24	AC 24D	AC 24D	AC 24D
	1001	1005	2009	3017	4025	4D019	6D035	8D051
	1002	1006	2012	3020	4027	4D026	6D041	8D055
	1003		2014	3022	4030	4D029	6D045	8D061
	1004							
Style	Single Fan Row					Double Fan Row		
No. of Fans	1	1	2	3	4	4	6	8
Fan Dia.	20	24	24	24	24	24	24	24
L	40	42.5	82.5	122.5	162.5	82.5	122.5	162.5
W	24	40	40	40	40	78.5	78.5	78.5
H	34	42	42	42	42	42	42	42
G	16	20	20	20	20	20	20	20
A	37	39.5	79.5	79.5	79.5	79.5	79.5	79.5
B	-	-	-	40	80	-	40	80
S	20	36	36	36	36	74.5	74.5	74.5

Table 2 - AC30 Dimensional Data

Model Number	AC 30	AC 30	AC 30	AC 30	AC 30	AC 30	AC 30	AC 30	AC 30	AC 30	AC 30
	1011	2022	3034	4051	5068	6093	4D047	6D069	8D102	10D140	12D186
	1015	2025	3039	4058	5076	6096	4D053	6D078	8D118	10D155	12D192
		2030	3043	4064	5079	6106	4D059	6D086	8D130	10D161	12D212
		2032	3049		5087		4D067	6D098		10D176	
Style	Single Fan Row						Double Fan Row				
No. of Fans	1	2	3	4	5	6	4	6	8	10	12
Fan Dia.	30	30	30	30	30	30	30	30	30	30	30
L	56	109	162	215	268	321	109	162	215	268	321
W	48	48	48	48	48	48	93.5	93.5	93.5	93.5	93.5
H	55	55	55	55	55	55	55	55	55	55	55
G	20	20	20	20	20	20	20	20	20	20	20
A	53	106	106	106	106	106	106	106	106	106	106
B	-	-	53	106	106	106	-	53	106	106	106
C	-	-	-	-	53	106	-	-	-	53	106
S	45	45	45	45	45	45	90	90	90	90	90

DIRECT COIL INC.

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