

LG HVAC SOLUTIONS

FAN COIL UNITS

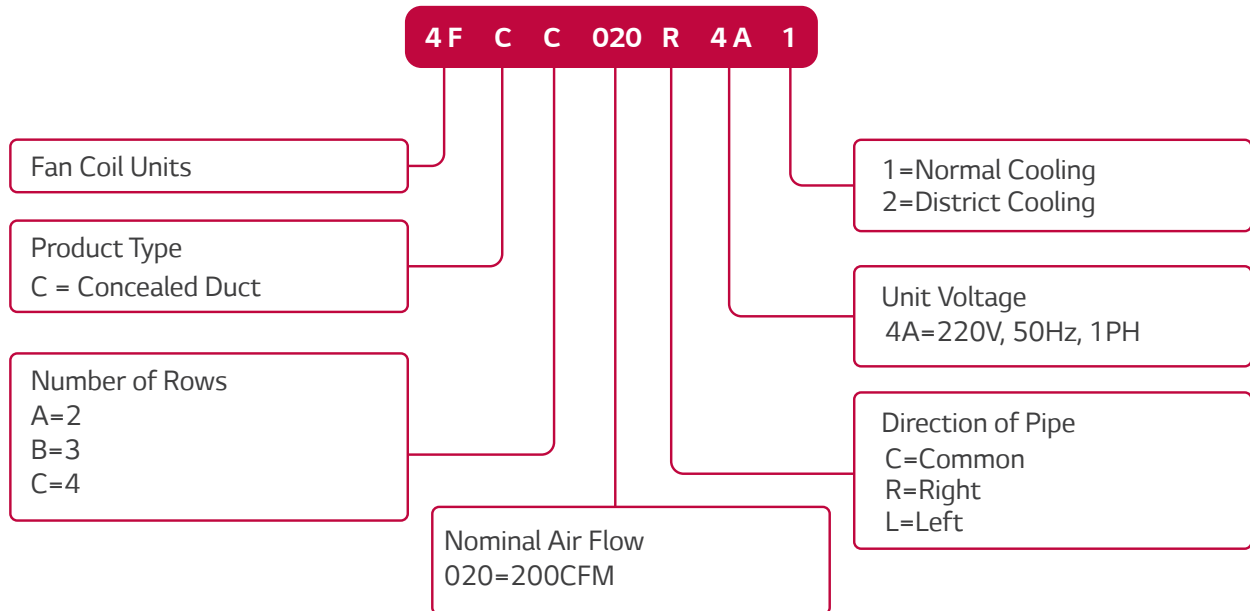


TABLE OF CONTENT

- 1. GENERAL
 - 1.1 Design Features 03
 - 1.2 Dimensions 04
- 2. Standard Cooling Fan Coil Units
 - 2.1 Technical Specification 06
 - 2.2 Performance Data 08
 - 2.3 Fan Characteristics 20
 - 2.4 Specific Fan Power 22
 - 2.5 Sound Data 23
- 3. District Cooling Fan Coil Units
 - 2.1 Technical Specification..... 24
 - 2.2 Performance Data 26
 - 2.3 Fan Characteristics..... 38
 - 2.4 Specific Fan Power..... 40
 - 2.5 Sound..... 41
- 4. Mechanical Specification

GENERAL

NOMENCLATURE



DESIGN FEATURES:



Casings: - All units are fabricated from heavy gauge galvanized steel or decorative painted plastic casing. The units are provided with both thermal and acoustic insulation.



Coils: - They are fabricated from Copper Tubes mechanically bonded with Aluminium fins and are leak tested at 300 psig air pressure.



Fans: - The fans are forward curved centrifugal type of double inlet, statically and dynamically balanced to ensure quiet operation.



Motors: - Motors are of single phase, 3 – speed, 220-240V / 1 Ph. / 50-60Hz, highly efficient with internal thermal protection. The Motor are with high power factor, with permanent split capacitor and lubricated sleeve bearing.



Drain Pans: - They are fabricated from heavy gauge galvanized steel and are insulated to prevent condensation. Extended drain pan can be provided with additional cost.



Filters:- All units are provided with flat Aluminum or synthetic fiber filter.



Exposed FCUs: - Unit shall be Powder coated to RAL 9002 with supply grille

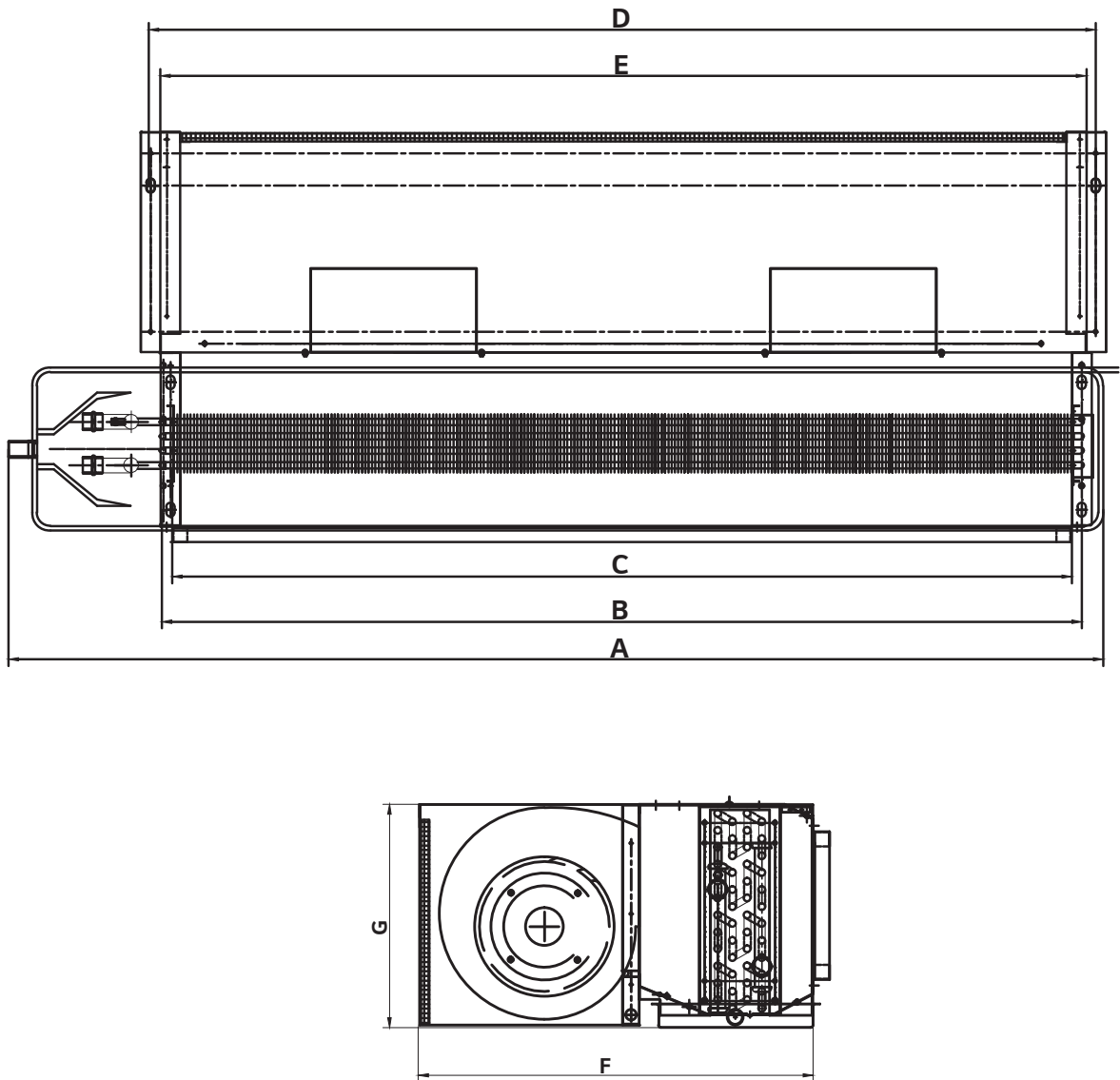
Dimension - Chilled water

Model	LENGTH							FILTER SIZE	CONNECTION	
	A	B	C	D	E	F	G	mm	Inches	mm
4FCC042R4A1	890	628	600	668	640	534	234	575 x 200 x 12.5	NPS 1/2"	DN15
4FCC048R4A1	990	728	700	768	740	534	234	675 x 200 x 12.5	NPS 1/2"	DN15
4FCC072R4A1	1240	958	930	998	970	534	234	905 x 200 x 12.5	NPS 1/2"	DN15
4FCC096R4A1	1490	1228	1200	1268	1240	534	234	1175 x 200 x 12.5	NPS 3/4"	DN20
4FCC120R4A1	1690	1428	1400	1468	1440	534	234	1375 x 200 x 12.5	NPS 3/4"	DN20
4FCC134R4A1	1890	1628	1600	1668	1640	534	234	1575 x 200 x 12.5	NPS 3/4"	DN20
4FCC139R4A1	1190	938	910	978	950	614	335	885 x 305 x 12.5	NPS 1"	DN25
4FCC166R4A1	1390	1108	1080	1148	1120	614	335	1055 x 305 x 12.5	NPS 1"	DN25
4FCC179R4A1	1440	1171	1143	1211	1183	614	335	1118 x 305 x 12.5	NPS 1"	DN25
4FCC199R4A1	1690	1375	1347	1415	1387	614	335	1312 x 305 x 12.5	NPS 1"	DN25
4FCC237R4A1	1840	1552	1524	1592	1564	614	335	1498 x 305 x 12.5	NPS 1 1/4"	DN32
4FCC320R4A1	1990	1728	1700	1768	1740	614	335	1675 x 305 x 12.5	NPS 1 1/4"	DN32

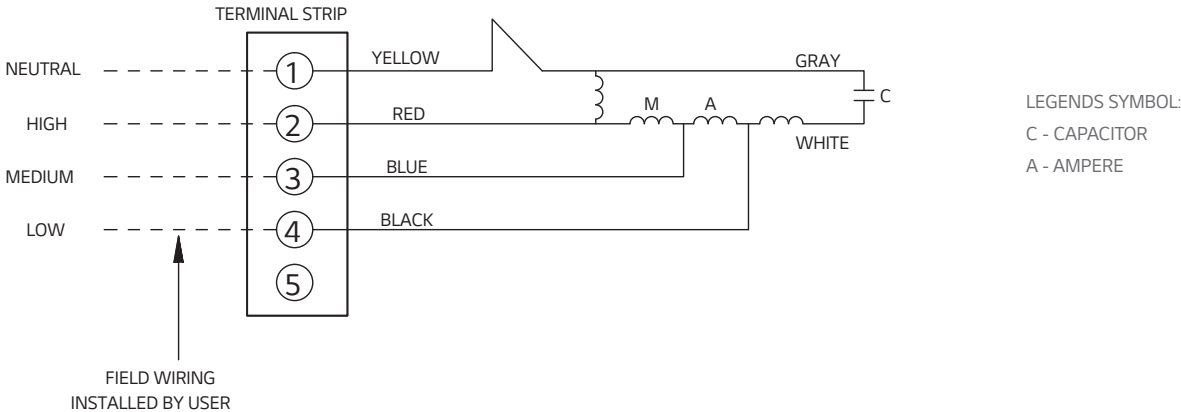
Dimension - District cooling

Model	LENGTH							FILTER SIZE	CONNECTION	
	A	B	C	D	E	F	G	mm	Inches	mm
4FCC042R4A2	890	628	600	668	640	534	234	575 x 200 x 12.5	NPS 1/2"	DN15
4FCC048R4A2	990	728	700	768	740	534	234	675 x 200 x 12.5	NPS 1/2"	DN15
4FCC072R4A2	1240	958	930	998	970	534	234	905 x 200 x 12.5	NPS 1/2"	DN15
4FCC096R4A2	1490	1228	1200	1268	1240	534	234	1175 x 200 x 12.5	NPS 3/4"	DN20
4FCC120R4A2	1690	1428	1400	1468	1440	534	234	1375 x 200 x 12.5	NPS 3/4"	DN20
4FCC134R4A2	1890	1628	1600	1668	1640	534	234	1575 x 200 x 12.5	NPS 3/4"	DN20
4FCC139R4A2	1390	1108	1080	1148	1120	614	335	1055 x 305 x 12.5	NPS 1"	DN25
4FCC159R4A2	1440	1171	1143	1211	1183	614	335	1118 x 305 x 12.5	NPS 1"	DN25
4FCC179R4A2	1690	1375	1347	1415	1387	614	335	1312 x 305 x 12.5	NPS 1"	DN25
4FCC200R4A2	1840	1552	1524	1592	1564	614	335	1498 x 305 x 12.5	NPS 1"	DN25
4FCC238R4A2	1990	1728	1700	1768	1740	614	335	1675 x 305 x 12.5	NPS 1 1/4"	DN32
4FCC322R4A2	2240	1928	1900	1968	1940	614	335	1875 x 305 x 12.5	NPS 1 1/4"	DN32

Dimensional drawings



Electrical wiring diagrams [for all models]



STANDARD COOLING

TECHNICAL SPECIFICATION

Rated parameters		Units	Speed	4FCC042R4A1	4FCC048R4A1	4FCC072R4A1	4FCC096R4A1	4FCC120R4A1	4FCC134R4A1
				Low Static , Chilled Water Unit					
Cooling Capacity at DBT 80 °F / WBT 67 °F water at (7.2°C / 12.2°C) (45°F/54°F)	Total	[BTU/hr]	High Speed	15480	18880	28271	34761	44408	50983
	Sensible	[BTU/hr]	High Speed	10476	12499	18892	23652	29953	34097
Air Flow at 50 Pa	-	[CFM]	High Speed	420	480	720	960	1200	1344
Air Flow at 0 Pa	-	[CFM]	High Speed	533	610	914	1219	1524	1640
Sound Pressure Level according to ISO 11203 at 1 meter from the unit	-	[dB(A)]	High Speed	46	46	46	46	47	48
		[dB(A)]	Medium Speed	41	41	40	40	42	44
		[dB(A)]	Low Speed	35	35	34	33	34	35
Coil	Type	[-]	-	3/8", 0.28mm Thick Copper tubes					
	Face Area	[ft²]	-	1.31	1.53	1.97	2.62	3.06	3.5
	Row / FPI	[-]	-	4/10.58	4/10.58	4/10.58	4/10.58	4/10.58	4/10.58
	Size	[mm x mm]	-	203.2x600	203.2x700	203.2x930	203.2x1200	203.2x1400	203.2x1600
	Nominal water flow rate	US GPM	Med Speed	1.8	2.4	3.6	4.8	6	7.2
Fan	Type	[-]	-	Centrifugal , Forward Curve DIDW					
	Material	[-]	-	GI					
	Dimensions	[-]	-	145*160	145*190	145*190	145*190	145*190	145*190
	Quantity	[pcs.]	-	2	2	2	3	4	4
Fan motor	Power Supply (Output)	[W]	-	80	80	80	130	160	160
	Max Power Input	[W]	-	125	128	157	239	273	302
	FLA	[A]	-	0.68	0.70	0.85	1.30	1.48	1.64
	Type/Class/IP	[-]	-	Class B/IP20	Class B/IP20	Class B/IP20	Class B/IP20	Class B/IP20	Class B/IP20
	Revolutions	[rpm]	H/M/L	1000/900/750	1000/900/750	1000/900/750	1000/900/750	1000/900/750	1000/900/750
	Quantity	[-]	-	1	1	1	2	2	2
Drive method	-	[-]	-	Direct Drive					
Weight	Unit	[kg]	-	21	23	28	36	41	47
	Shipping	[kg]	-	23	25	30	39	44	50
Unit Dimensions	L	[mm]	-	890	990	1240	1490	1690	1890
	W	[mm]	-	534					
	H	[mm]	-	234					
Shipping Dimensions	L	[mm]	-	915	1015	1265	1515	1715	1915
	W	[mm]	-	545					
	H	[mm]	-	245					
Connections	Inlet (MPT)	[inch]	-	1/2" NPS	1/2" NPS	1/2" NPS	3/4" NPS	3/4" NPS	3/4" NPS
	Outlet (MPT)	[inch]	-	1/2" NPS	1/2" NPS	1/2" NPS	3/4" NPS	3/4" NPS	3/4" NPS
	Drain Pan Inch OD	[inch]	-	7/8	7/8	7/8	7/8	7/8	7/8

TECHNICAL SPECIFICATION

Rated parameters		Units	Speed	4FCC139R4A1	4FCC166R4A1	4FCC179R4A1	4FCC199R4A1	4FCC237R4A1	4FCC320R4A1
				Hi Static, Chilled Water Unit					
Cooling Capacity at DBT 80 °F / WBT 67 °F water at (7.2°C / 12.2°C) (45°F/54°F)	Total	[BTU/hr]	High Speed	48996	56514	62341	71453	83174	106289
	Sensible	[BTU/hr]	High Speed	33812	39281	42682	49302	57649	74403
Air Flow at 50 Pa	-	[CFM]	High Speed	1032	1232	1327	1468	1755	2361
Air Flow at 0 Pa	-	[CFM]	High Speed	1399	1669	1799	1990	2378	3200
Sound Pressure Level according to ISO 11203 at 1 meter from the unit	-	[dB(A)]	High Speed	55	59	59	58	58	59
		[dB(A)]	Medium Speed	51	57	57	54	54	55
		[dB(A)]	Low Speed	46	54	54	52	52	53
Coil	Type	[-]	-	3/8", 0.28mm Thick Copper tubes					
	Face Area	[ft²]	-	1.99	2.36	2.5	2.95	3.33	4.2
	Row / FPI	[-]	-	4/12.1	4/12.1	4/12.1	4/12.1	4/12.1	4/12.1
	Size	[mm x mm]	-	304.8x910	304.8x1080	304.8x1143	304.8x1347	304.8x1524	304.8x1524
	Nominal water flow rate	US GPM	Med Speed	8.4	9.6	10.8	12	14.4	18
Fan	Type	[-]	-	Centrifugal , Forward Curve DIDW					
	Material	[-]	-	GI					
	Dimensions	[-]	-	200*200	200*200	200*200	200*200	200*200	200*200
	Quantity	[pcs.]	-	2	2	2	2	2	3
Fan motor	Power Supply (Output)	[W]	-	240	300	400	500	500	750
	Max Power Input	[W]	-	420	520	545	700	840	1260
	FLA	[A]	-	4.2	6.4	7.2	7.5	8	12
	Type/Class/IP	[-]	-	Class B/IP20	Class B/IP20	Class B/IP20	Class B/IP20	Class B/IP20	Class B/IP20
	Revolutions	[rpm]	H/M/L	1350/1150/900	1350/1150/900	1350/1150/900	1350/1150/900	1350/1150/900	1350/1150/900
	Quantity	[-]	-	2	2	2	2	2	3
Drive method	-	[-]	-	Direct Drive					
Weight	Unit	[kg]	-	76	87	95	110	126	160
	Shipping	[kg]	-	79	90	99	114	131	168
Unit Dimensions	L	[mm]	-	1190	1390	1440	1690	1840	1990
	W	[mm]	-	614					
	H	[mm]	-	335					
Shipping Dimensions	L	[mm]	-	1205	1405	1455	1705	1855	2005
	W	[mm]	-	624					
	H	[mm]	-	345					
Connections	Inlet (MPT)	[inch]	-	1" NPS	1" NPS	1" NPS	1" NPS	1 1/4" NPS	1 1/4" NPS
	Outlet (MPT)	[inch]	-	1" NPS	1" NPS	1" NPS	1" NPS	1 1/4" NPS	1 1/4" NPS
	Drain Pan Inch OD	[inch]	-	7/8	7/8	7/8	7/8	7/8	7/8

PERFORMANCE DATA

4FCC042R4A1	Cooling Coil Air Inlet			Entering/Leaving Water Temperature								
	DB/WB	Speed	Air Flow Rate		45/54 (°F); 7/12 (°C)							
					Total Cooling		Sensible Cooling		Water Flow rate		Water Pressure drop	
			m³/h	CFM	(X 1.000 Btu/Hr)	kW	(X 1.000 Btu/Hr)	kW	GPM	L/S	Ft.wg	kPa
76/63	HI	714	420	9961	2.92	8636	2.53	2.30	0.15	3.30	9.87	
	MED	595	350	8628	2.53	7355	2.16	2.00	0.13	2.40	7.18	
	LOW	410	241	6272	1.84	5192	1.52	1.50	0.09	1.20	3.59	
80/63	HI	714	420	11568	3.39	10806	3.17	2.70	0.17	4.30	12.86	
	MED	595	350	9610	2.82	9006	2.64	2.20	0.14	3.00	8.97	
	LOW	410	241	6934	2.03	6352	1.86	1.60	0.10	1.40	4.19	
85/63	HI	714	420	13128	3.85	13128	3.85	3.00	0.19	5.30	15.85	
	MED	595	350	10908	3.20	10908	3.20	2.50	0.16	3.80	11.36	
	LOW	410	241	7686	2.25	7686	2.25	1.80	0.11	1.80	5.38	
76/65	HI	714	420	12114	3.55	8610	2.52	2.80	0.18	4.60	13.75	
	MED	595	350	9787	2.87	7046	2.06	2.30	0.15	3.10	9.27	
	LOW	410	241	7164	2.10	4995	1.46	1.70	0.11	1.60	4.78	
80/65	HI	714	420	12930	3.79	10482	3.07	3.00	0.19	5.20	15.55	
	MED	595	350	10571	3.10	8656	2.54	2.50	0.16	3.60	10.76	
	LOW	410	241	7576	2.22	6067	1.78	1.80	0.11	1.80	5.38	
85/65	HI	714	420	14155	4.15	12863	3.77	3.30	0.21	6.10	18.24	
	MED	595	350	11814	3.46	10751	3.15	2.70	0.17	4.40	13.16	
	LOW	410	241	8256	2.42	7450	2.18	1.90	0.12	2.40	7.18	
76/67	HI	714	420	15167	4.44	8849	2.59	3.50	0.22	6.90	20.63	
	MED	595	350	12487	3.66	7300	2.14	2.90	0.18	4.80	14.35	
	LOW	410	241	8459	2.48	4926	1.44	2.00	0.13	2.30	6.88	
80/67	HI	714	420	15480	4.54	10476	3.07	3.60	0.23	7.10	21.23	
	MED	595	350	12858	3.77	8712	2.55	3.00	0.19	5.10	15.25	
	LOW	410	241	8719	2.55	5909	1.73	2.00	0.13	2.40	7.18	
85/67	HI	714	420	15859	4.65	12606	3.69	3.60	0.23	7.50	22.43	
	MED	595	350	13308	3.90	10556	3.09	3.10	0.20	5.50	16.45	
	LOW	410	241	9050	2.65	7199	2.11	2.10	0.13	2.60	7.77	

PERFORMANCE DATA

4FCC048R4A1	Cooling Coil Air Inlet				Entering/Leaving Water Temperature							
	DB/WB	Speed	Air Flow Rate		45/54 (°F); 7/12 (°C)							
					Total Cooling		Sensible Cooling		Water Flow rate		Water Pressure drop	
			m ³ /h	CFM	(X 1.000 Btu/Hr)	kW	(X 1.000 Btu/Hr)	kW	GPM	L/S	Ft.wg	kPa
			76/63	HI	816	480	13024	3.82	10634	3.12	3.00	0.19
MED	680	400		10629	3.11	8774	2.57	2.50	0.16	4.00	11.96	
LOW	469	276		7602	2.23	6153	1.80	1.80	0.11	2.00	5.98	
80/63	HI	816	480	14206	4.16	12866	3.77	3.30	0.21	6.70	20.03	
	MED	680	400	11858	3.47	10752	3.15	2.70	0.17	4.90	14.65	
	LOW	469	276	8273	2.42	7454	2.18	1.90	0.12	2.40	7.18	
85/63	HI	816	480	16063	4.71	15709	4.60	3.70	0.23	8.40	25.12	
	MED	680	400	13523	3.96	13198	3.87	3.10	0.20	6.20	18.54	
	LOW	469	276	9336	2.74	9105	2.67	2.20	0.14	3.10	9.27	
76/65	HI	816	480	15573	4.56	10595	3.10	3.60	0.23	7.90	23.62	
	MED	680	400	12925	3.79	8806	2.58	3.00	0.19	5.70	17.04	
	LOW	469	276	8736	2.56	5966	1.75	2.00	0.13	2.70	8.07	
80/65	HI	816	480	16086	4.71	12578	3.69	3.70	0.23	8.40	25.12	
	MED	680	400	13503	3.96	10534	3.09	3.10	0.20	6.10	18.24	
	LOW	469	276	9156	2.68	7177	2.10	2.10	0.13	3.00	8.97	
85/65	HI	816	480	17038	4.99	15132	4.43	3.90	0.25	9.30	27.81	
	MED	680	400	14385	4.21	12720	3.73	3.30	0.21	6.90	20.63	
	LOW	469	276	9808	2.87	8716	2.55	2.30	0.15	3.50	10.47	
76/67	HI	816	480	18708	5.48	10712	3.14	4.30	0.27	11.00	32.89	
	MED	680	400	15846	4.64	9024	2.64	3.60	0.23	8.10	24.22	
	LOW	469	276	10461	3.07	5984	1.75	2.40	0.15	3.90	11.66	
80/67	HI	816	480	18880	5.53	12499	3.66	4.30	0.27	11.20	33.49	
	MED	680	400	16042	4.70	10548	3.09	3.70	0.23	8.30	24.82	
	LOW	469	276	10772	3.16	7119	2.09	2.50	0.16	4.10	12.26	
85/67	HI	816	480	19027	5.57	14825	4.34	4.40	0.28	11.30	33.79	
	MED	680	400	16214	4.75	12523	3.67	3.70	0.23	8.50	25.42	
	LOW	469	276	11095	3.25	8580	2.51	2.60	0.16	4.30	12.86	

PERFORMANCE DATA

4FCC072R4A1	Cooling Coil Air Inlet			Entering/Leaving Water Temperature								
	DB/WB	Speed	Air Flow Rate		45/54 (°F); 7/12 (°C)							
					Total Cooling		Sensible Cooling		Water Flow rate		Water Pressure drop	
			m ³ /h	CFM	(X 1.000 Btu/Hr)	kW	(X 1.000 Btu/Hr)	kW	GPM	L/S	Ft.wg	kPa
			76/63	HI	1223	720	20678	6.06	16579	4.86	4.70	0.30
MED	1019	600		17440	5.11	13949	4.09	4.00	0.25	6.40	19.14	
LOW	703	414		11719	3.43	9482	2.78	2.70	0.17	3.10	9.27	
80/63	HI	1223	720	22279	6.53	19863	5.82	5.10	0.32	9.90	29.60	
	MED	1019	600	18898	5.54	16767	4.91	4.40	0.28	7.40	22.13	
	LOW	703	414	12878	3.77	11508	3.37	3.00	0.19	3.70	11.06	
85/63	HI	1223	720	24723	7.24	23997	7.03	5.60	0.35	11.90	35.58	
	MED	1019	600	21116	6.19	20369	5.97	4.90	0.31	9.00	26.91	
	LOW	703	414	14764	4.33	14195	4.16	3.40	0.21	4.80	14.35	
76/65	HI	1223	720	24120	7.07	16359	4.79	5.50	0.35	11.40	34.09	
	MED	1019	600	20703	6.07	13915	4.08	4.80	0.30	8.70	26.01	
	LOW	703	414	13872	4.06	9412	2.76	3.20	0.20	4.30	12.86	
80/65	HI	1223	720	24678	7.23	19261	5.64	5.60	0.35	11.80	35.28	
	MED	1019	600	21303	6.24	16421	4.81	4.90	0.31	9.10	27.21	
	LOW	703	414	14677	4.30	11329	3.32	3.40	0.21	4.70	14.05	
85/65	HI	1223	720	26040	7.63	23059	6.76	6.00	0.38	13.10	39.17	
	MED	1019	600	22538	6.60	19682	5.77	5.20	0.33	10.10	30.20	
	LOW	703	414	15813	4.63	13731	4.02	3.70	0.23	5.40	16.15	
76/67	HI	1223	720	28003	8.20	16176	4.74	6.40	0.40	14.90	44.55	
	MED	1019	600	24497	7.18	13979	4.10	5.60	0.35	11.70	34.98	
	LOW	703	414	17317	5.07	9794	2.87	4.00	0.25	6.30	18.84	
80/67	HI	1223	720	28271	8.28	18892	5.54	6.40	0.40	15.10	45.15	
	MED	1019	600	24733	7.25	16274	4.77	5.70	0.36	12.00	35.88	
	LOW	703	414	17570	5.15	11437	3.35	4.00	0.25	6.50	19.44	
85/67	HI	1223	720	28626	8.39	22462	6.58	6.50	0.41	15.50	46.35	
	MED	1019	600	24930	7.30	19249	5.64	5.70	0.36	12.10	36.18	
	LOW	703	414	17838	5.23	13578	3.98	4.10	0.26	6.60	19.73	

PERFORMANCE DATA

4FCC096R4A1	Cooling Coil Air Inlet				Entering/Leaving Water Temperature							
	DB/WB	Speed	Air Flow Rate		45/54 (°F); 7/12 (°C)							
					Total Cooling		Sensible Cooling		Water Flow rate		Water Pressure drop	
			m³/h	CFM	(X 1.000 Btu/Hr)	kW	(X 1.000 Btu/Hr)	kW	GPM	L/S	Ft.wg	kPa
			76/63	HI	1631	960	22520	6.60	19562	5.73	5.20	0.33
MED	1359	800		18546	5.43	16262	4.76	4.30	0.27	2.30	6.88	
LOW	937	552		13341	3.91	11476	3.36	3.10	0.20	1.10	3.29	
80/63	HI	1631	960	26351	7.72	24614	7.21	6.10	0.38	4.50	13.46	
	MED	1359	800	21625	6.34	20391	5.97	5.00	0.32	3.20	9.57	
	LOW	937	552	15231	4.46	14255	4.18	3.60	0.23	1.50	4.49	
85/63	HI	1631	960	29811	8.73	29811	8.73	6.80	0.43	5.60	16.74	
	MED	1359	800	24824	7.27	24824	7.27	5.70	0.36	4.10	12.26	
	LOW	937	552	17028	4.99	17028	4.99	4.00	0.25	1.90	5.68	
76/65	HI	1631	960	27398	8.03	19520	5.72	6.30	0.40	4.90	14.65	
	MED	1359	800	21591	6.33	15778	4.62	5.00	0.32	3.20	9.57	
	LOW	937	552	15126	4.43	10954	3.21	3.50	0.22	1.50	4.49	
80/65	HI	1631	960	29253	8.57	23771	6.96	6.70	0.42	5.50	16.45	
	MED	1359	800	23987	7.03	19688	5.77	5.50	0.35	3.80	11.36	
	LOW	937	552	16370	4.80	13512	3.96	3.80	0.24	1.80	5.38	
85/65	HI	1631	960	32080	9.40	29218	8.56	7.40	0.47	6.50	19.44	
	MED	1359	800	26891	7.88	24499	7.18	6.20	0.39	4.70	14.05	
	LOW	937	552	18248	5.35	16784	4.92	4.20	0.26	2.30	6.88	
76/67	HI	1631	960	34103	9.99	19989	5.86	7.80	0.49	7.20	21.53	
	MED	1359	800	28290	8.29	16603	4.86	6.50	0.41	5.20	15.55	
	LOW	937	552	17922	5.25	10751	3.15	4.20	0.26	2.20	6.58	
80/67	HI	1631	960	34761	10.18	23652	6.93	8.00	0.50	7.40	22.13	
	MED	1359	800	29113	8.53	19797	5.80	6.70	0.42	5.40	16.15	
	LOW	937	552	18777	5.50	13094	3.84	4.40	0.28	2.40	7.18	
85/67	HI	1631	960	35678	10.45	28503	8.35	8.20	0.52	7.80	23.32	
	MED	1359	800	30072	8.81	23958	7.02	6.90	0.44	5.70	17.04	
	LOW	937	552	19815	5.81	16139	4.73	4.60	0.29	2.70	8.07	

PERFORMANCE DATA

4FCC120R4A1	Cooling Coil Air Inlet			Entering/Leaving Water Temperature								
	DB/WB	Speed	Air Flow Rate		45/54 (°F); 7/12 (°C)							
					Total Cooling		Sensible Cooling		Water Flow rate		Water Pressure drop	
			m³/h	CFM	(X 1.000 Btu/Hr)	kW	(X 1.000 Btu/Hr)	kW	GPM	L/S	Ft.wg	kPa
76/63	HI	2039	1200	32090	9.40	26217	7.68	7.40	0.47	7.20	21.53	
	MED	1699	1000	26698	7.82	21891	6.41	6.20	0.39	5.20	15.55	
	LOW	1172	690	17794	5.21	14856	4.35	4.20	0.26	2.40	7.18	
80/63	HI	2039	1200	34928	10.23	31697	9.29	8.00	0.50	8.40	25.12	
	MED	1699	1000	29462	8.63	26690	7.82	6.80	0.43	6.20	18.54	
	LOW	1172	690	19810	5.80	18224	5.34	4.60	0.29	3.10	9.27	
85/63	HI	2039	1200	38350	11.24	38350	11.24	8.80	0.56	9.90	29.60	
	MED	1699	1000	32558	9.54	32558	9.54	7.50	0.47	7.40	22.13	
	LOW	1172	690	22410	6.57	22410	6.57	5.20	0.33	3.80	11.36	
76/65	HI	2039	1200	37735	11.06	25863	7.58	8.70	0.55	9.60	28.70	
	MED	1699	1000	32048	9.39	21845	6.40	7.40	0.47	7.20	21.53	
	LOW	1172	690	20578	6.03	14409	4.22	4.80	0.30	3.30	9.87	
80/65	HI	2039	1200	38809	11.37	30666	8.99	8.90	0.56	10.10	30.20	
	MED	1699	1000	33202	9.73	26003	7.62	7.60	0.48	7.60	22.72	
	LOW	1172	690	22410	6.57	17748	5.20	5.20	0.33	3.80	11.36	
85/65	HI	2039	1200	41001	12.01	36879	10.81	9.40	0.59	11.10	33.19	
	MED	1699	1000	35334	10.35	31393	9.20	8.10	0.51	8.60	25.71	
	LOW	1172	690	24589	7.20	21814	6.39	5.70	0.36	4.50	13.46	
76/67	HI	2039	1200	43825	12.84	25486	7.47	10.00	0.63	12.50	37.38	
	MED	1699	1000	38348	11.24	22011	6.45	8.80	0.56	9.90	29.60	
	LOW	1172	690	26597	7.79	15191	4.45	6.10	0.38	5.10	15.25	
80/67	HI	2039	1200	44408	13.01	29953	8.78	10.20	0.64	12.90	38.57	
	MED	1699	1000	38622	11.32	25685	7.53	8.80	0.56	9.80	29.30	
	LOW	1172	690	27222	7.98	17949	5.26	6.30	0.40	5.40	16.15	
85/67	HI	2039	1200	45076	13.21	35804	10.49	10.30	0.65	13.20	39.47	
	MED	1699	1000	39214	11.49	30643	8.98	9.00	0.57	10.30	30.80	
	LOW	1172	690	27850	8.16	21514	6.30	6.40	0.40	5.60	16.74	

PERFORMANCE DATA

4FCC134R4A1	Cooling Coil Air Inlet			Entering/Leaving Water Temperature								
	DB/WB	Speed	Air Flow Rate		45/54 (°F); 7/12 (°C)							
					Total Cooling		Sensible Cooling		Water Flow rate		Water Pressure drop	
			m³/h	CFM	(X 1.000 Btu/Hr)	kW	(X 1.000 Btu/Hr)	kW	GPM	L/S	Ft.wg	kPa
	76/63	HI	2283	1344	37971	11.13	30309	8.88	8.70	0.55	10.70	31.99
MED		1903	1120	32381	9.49	25656	7.52	7.50	0.47	8.10	24.22	
LOW		1312	772	21561	6.32	17357	5.09	5.00	0.32	3.90	11.66	
80/63	HI	2283	1344	40236	11.79	36055	10.56	9.20	0.58	11.90	35.58	
	MED	1903	1120	34545	10.12	30634	8.98	7.90	0.50	9.00	26.91	
	LOW	1312	772	23888	7.00	21200	6.21	5.50	0.35	4.70	14.05	
85/63	HI	2283	1344	44648	13.08	43663	12.79	10.20	0.64	14.30	42.76	
	MED	1903	1120	38275	11.21	37131	10.88	8.80	0.56	10.90	32.59	
	LOW	1312	772	26968	7.90	26000	7.62	6.30	0.40	5.90	17.64	
76/65	HI	2283	1344	43549	12.76	29540	8.66	10.00	0.63	13.70	40.96	
	MED	1903	1120	37988	11.13	25383	7.44	8.70	0.55	10.70	31.99	
	LOW	1312	772	26441	7.75	17577	5.15	6.10	0.38	5.70	17.04	
80/65	HI	2283	1344	44555	13.05	34841	10.21	10.20	0.64	14.20	42.46	
	MED	1903	1120	38756	11.36	29829	8.74	8.90	0.56	11.10	33.19	
	LOW	1312	772	27355	8.02	20859	6.11	6.30	0.40	6.00	17.94	
85/65	HI	2283	1344	46799	13.71	41756	12.23	10.70	0.68	15.50	46.35	
	MED	1903	1120	40535	11.88	35633	10.44	9.30	0.59	12.00	35.88	
	LOW	1312	772	28933	8.48	25066	7.34	6.70	0.42	6.60	19.73	
76/67	HI	2283	1344	50496	14.80	29151	8.54	11.60	0.73	17.80	53.22	
	MED	1903	1120	43982	12.89	25101	7.35	10.00	0.63	13.60	40.66	
	LOW	1312	772	32175	9.43	18031	5.28	7.40	0.47	8.00	23.92	
80/67	HI	2283	1344	50983	14.94	34097	9.99	11.70	0.74	18.10	54.12	
	MED	1903	1120	44570	13.06	29338	8.60	10.20	0.64	14.20	42.46	
	LOW	1312	772	32508	9.52	20969	6.14	7.50	0.47	8.10	24.22	
85/67	HI	2283	1344	51476	15.08	40551	11.88	11.70	0.74	18.30	54.72	
	MED	1903	1120	44917	13.16	34769	10.19	10.30	0.65	14.50	43.36	
	LOW	1312	772	32755	9.60	24768	7.26	7.50	0.47	8.20	24.52	

PERFORMANCE DATA

4FCC139R4A1	Cooling Coil Air Inlet			Entering/Leaving Water Temperature								
	DB/WB	Speed	Air Flow Rate		45/54 (°F); 7/12 (°C)							
					Total Cooling		Sensible Cooling		Water Flow rate		Water Pressure drop	
			m³/h	CFM	(X 1.000 Btu/Hr)	kW	(X 1.000 Btu/Hr)	kW	GPM	L/S	Ft.wg	kPa
76/63	HI	2377	1399	35767	10.48	30093	8.82	7.65	0.48	11.00	32.89	
	MED	2200	1295	29888	8.76	24683	7.23	6.63	0.42	7.26	21.71	
	LOW	1519	894	28908	8.47	23668	6.93	6.12	0.39	7.26	21.71	
80/63	HI	2377	1399	40667	11.92	37193	10.90	8.67	0.55	14.74	44.07	
	MED	2200	1295	33807	9.91	30431	8.92	7.14	0.45	9.24	27.63	
	LOW	1519	894	31357	9.19	28402	8.32	6.63	0.42	8.36	25.00	
85/63	HI	2377	1399	45566	13.35	43956	12.88	9.69	0.61	18.26	54.60	
	MED	2200	1295	37237	10.91	36179	10.60	8.16	0.51	11.88	35.52	
	LOW	1519	894	35277	10.34	33812	9.91	7.65	0.48	10.12	30.26	
76/65	HI	2377	1399	40177	11.77	28402	8.32	8.67	0.55	13.86	41.44	
	MED	2200	1295	33317	9.76	23330	6.84	7.14	0.45	9.24	27.63	
	LOW	1519	894	31357	9.19	21640	6.34	6.63	0.42	8.36	25.00	
80/65	HI	2377	1399	43606	12.78	35164	10.30	9.18	0.58	16.50	49.34	
	MED	2200	1295	36257	10.62	28740	8.42	7.65	0.48	11.00	32.89	
	LOW	1519	894	33807	9.91	26711	7.83	7.14	0.45	10.12	30.26	
85/65	HI	2377	1399	48506	14.21	43617	12.78	10.20	0.64	22.00	65.78	
	MED	2200	1295	40177	11.77	35503	10.40	8.67	0.55	13.86	41.44	
	LOW	1519	894	37727	11.05	31445	9.21	8.16	0.51	11.88	35.52	
76/67	HI	2377	1399	46546	13.64	27726	8.12	9.69	0.61	19.36	57.89	
	MED	2200	1295	39197	11.48	22654	6.64	8.16	0.51	12.76	38.15	
	LOW	1519	894	36747	10.77	21302	6.24	7.65	0.48	11.00	32.89	
80/67	HI	2377	1399	48996	14.36	33812	9.91	10.20	0.64	22.00	65.78	
	MED	2200	1295	40667	11.92	27726	8.12	8.67	0.55	14.74	44.07	
	LOW	1519	894	38217	11.20	26035	7.63	8.67	0.55	12.76	38.15	
85/67	HI	2377	1399	51936	15.22	41927	12.28	10.71	0.68	24.86	74.33	
	MED	2200	1295	43116	12.63	34150	10.01	9.18	0.58	16.50	49.34	
	LOW	1519	894	40667	11.92	31783	9.31	8.67	0.55	14.74	44.07	

PERFORMANCE DATA

4FCC166R4A1	Cooling Coil Air Inlet			Entering/Leaving Water Temperature								
	DB/WB	Speed	Air Flow Rate		45/54 (°F); 7/12 (°C)							
					Total Cooling		Sensible Cooling		Water Flow rate		Water Pressure drop	
			m³/h	CFM	(X 1.000 Btu/Hr)	kW	(X 1.000 Btu/Hr)	kW	GPM	L/S	Ft.wg	kPa
76/63	HI	2836	1669	41255	12.09	34960	10.24	8.78	0.55	11.00	32.89	
	MED	2515	1480	34474	10.10	28675	8.40	7.61	0.48	7.26	21.71	
	LOW	1939	1141	33343	9.77	27497	8.06	7.02	0.44	7.26	21.71	
80/63	HI	2836	1669	46907	13.74	43209	12.66	9.95	0.63	14.74	44.07	
	MED	2515	1480	38995	11.43	35353	10.36	8.19	0.52	9.24	27.63	
	LOW	1939	1141	36169	10.60	32996	9.67	7.61	0.48	8.36	25.00	
85/63	HI	2836	1669	52558	15.40	51065	14.96	11.12	0.70	18.26	54.60	
	MED	2515	1480	42951	12.58	42031	12.31	9.36	0.59	11.88	35.52	
	LOW	1939	1141	40690	11.92	39281	11.51	8.78	0.55	10.12	30.26	
76/65	HI	2836	1669	46341	13.58	32996	9.67	9.95	0.63	13.86	41.44	
	MED	2515	1480	38430	11.26	27104	7.94	8.19	0.52	9.24	27.63	
	LOW	1939	1141	36169	10.60	25140	7.37	7.61	0.48	8.36	25.00	
80/65	HI	2836	1669	50297	14.74	40852	11.97	10.53	0.66	16.50	49.34	
	MED	2515	1480	41820	12.25	33389	9.78	8.78	0.55	11.00	32.89	
	LOW	1939	1141	38995	11.43	31032	9.09	8.19	0.52	10.12	30.26	
85/65	HI	2836	1669	55949	16.39	50672	14.85	11.70	0.74	22.00	65.78	
	MED	2515	1480	46341	13.58	41245	12.08	9.95	0.63	13.86	41.44	
	LOW	1939	1141	43516	12.75	36531	10.70	9.36	0.59	11.88	35.52	
76/67	HI	2836	1669	53688	15.73	32210	9.44	11.12	0.70	19.36	57.89	
	MED	2515	1480	45211	13.25	26318	7.71	9.36	0.59	12.76	38.15	
	LOW	1939	1141	42386	12.42	24747	7.25	8.78	0.55	11.00	32.89	
80/67	HI	2836	1669	56514	16.56	39281	11.51	11.70	0.74	22.00	65.78	
	MED	2515	1480	46907	13.74	32210	9.44	9.95	0.63	14.74	44.07	
	LOW	1939	1141	44081	12.92	30246	8.86	9.95	0.63	12.76	38.15	
85/67	HI	2836	1669	59905	17.55	48708	14.27	12.29	0.78	24.86	74.33	
	MED	2515	1480	49732	14.57	39674	11.62	10.53	0.66	16.50	49.34	
	LOW	1939	1141	46907	13.74	36924	10.82	9.95	0.63	14.74	44.07	

PERFORMANCE DATA

4FCC179R4A1	Cooling Coil Air Inlet			Entering/Leaving Water Temperature								
	DB/WB	Speed	Air Flow Rate		45/54 (°F); 7/12 (°C)							
					Total Cooling		Sensible Cooling		Water Flow rate		Water Pressure drop	
			m³/h	CFM	(X 1.000 Btu/Hr)	kW	(X 1.000 Btu/Hr)	kW	GPM	L/S	Ft.wg	kPa
76/63	HI	3057	1799	45509	13.33	37987	11.13	9.75	0.62	13.50	40.37	
	MED	2778	1635	38028	11.14	31158	9.13	8.45	0.53	8.91	26.64	
	LOW	2379	1400	36781	10.78	29877	8.75	7.80	0.49	8.91	26.64	
80/63	HI	3057	1799	51743	15.16	46950	13.76	11.05	0.70	18.09	54.09	
	MED	2778	1635	43015	12.60	38414	11.26	9.10	0.57	11.34	33.91	
	LOW	2379	1400	39898	11.69	35853	10.50	8.45	0.53	10.26	30.68	
85/63	HI	3057	1799	57977	16.99	55487	16.26	12.35	0.78	22.41	67.01	
	MED	2778	1635	47379	13.88	45670	13.38	10.40	0.66	14.58	43.59	
	LOW	2379	1400	44886	13.15	42682	12.51	9.75	0.62	12.42	37.14	
76/65	HI	3057	1799	51120	14.98	35853	10.50	11.05	0.70	17.01	50.86	
	MED	2778	1635	42392	12.42	29451	8.63	9.10	0.57	11.34	33.91	
	LOW	2379	1400	39898	11.69	27316	8.00	8.45	0.53	10.26	30.68	
80/65	HI	3057	1799	55483	16.26	44389	13.01	11.70	0.74	20.25	60.55	
	MED	2778	1635	46132	13.52	36280	10.63	9.75	0.62	13.50	40.37	
	LOW	2379	1400	43015	12.60	33719	9.88	9.10	0.57	12.42	37.14	
85/65	HI	3057	1799	61718	18.08	55060	16.13	13.00	0.82	27.00	80.73	
	MED	2778	1635	51120	14.98	44816	13.13	11.05	0.70	17.01	50.86	
	LOW	2379	1400	48003	14.06	39694	11.63	10.40	0.66	14.58	43.59	
76/67	HI	3057	1799	59224	17.35	34999	10.25	12.35	0.78	23.76	71.04	
	MED	2778	1635	49873	14.61	28597	8.38	10.40	0.66	15.66	46.82	
	LOW	2379	1400	46756	13.70	26890	7.88	9.75	0.62	13.50	40.37	
80/67	HI	3057	1799	62341	18.27	42682	12.51	13.00	0.82	27.00	80.73	
	MED	2778	1635	51743	15.16	34999	10.25	11.05	0.70	18.09	54.09	
	LOW	2379	1400	48626	14.25	32865	9.63	11.05	0.70	15.66	46.82	
85/67	HI	3057	1799	66081	19.36	52926	15.51	13.65	0.86	30.51	91.22	
	MED	2778	1635	54860	16.07	43109	12.63	11.70	0.74	20.25	60.55	
	LOW	2379	1400	51743	15.16	40121	11.76	11.05	0.70	18.09	54.09	

PERFORMANCE DATA

4FCC199R4A1	Cooling Coil Air Inlet				Entering/Leaving Water Temperature							
	DB/WB	Speed	Air Flow Rate		45/54 (°F); 7/12 (°C)							
					Total Cooling		Sensible Cooling		Water Flow rate		Water Pressure drop	
			m ³ /h	CFM	(X 1.000 Btu/Hr)	kW	(X 1.000 Btu/Hr)	kW	GPM	L/S	Ft.wg	kPa
			76/63	HI	3381	1990	52161	15.28	43879	12.86	11.18	0.71
MED	3109	1830		43586	12.77	35990	10.55	9.69	0.61	8.25	24.67	
LOW	2778	1635		42157	12.35	34511	10.11	8.94	0.56	8.25	24.67	
80/63	HI	3381	1990	59306	17.38	54232	15.89	12.67	0.80	16.75	50.08	
	MED	3109	1830	49303	14.45	44372	13.00	10.43	0.66	10.50	31.40	
	LOW	2778	1635	45730	13.40	41414	12.13	9.69	0.61	9.50	28.41	
85/63	HI	3381	1990	66451	19.47	64093	18.78	14.16	0.89	20.75	62.04	
	MED	3109	1830	54304	15.91	52753	15.46	11.92	0.75	13.50	40.37	
	LOW	2778	1635	51446	15.07	49302	14.45	11.18	0.71	11.50	34.39	
76/65	HI	3381	1990	58591	17.17	41414	12.13	12.67	0.80	15.75	47.09	
	MED	3109	1830	48588	14.24	34018	9.97	10.43	0.66	10.50	31.40	
	LOW	2778	1635	45730	13.40	31553	9.25	9.69	0.61	9.50	28.41	
80/65	HI	3381	1990	63593	18.63	51274	15.02	13.41	0.85	18.75	56.06	
	MED	3109	1830	52875	15.49	41907	12.28	11.18	0.71	12.50	37.38	
	LOW	2778	1635	49303	14.45	38949	11.41	10.43	0.66	11.50	34.39	
85/65	HI	3381	1990	70738	20.73	63600	18.63	14.90	0.94	25.00	74.75	
	MED	3109	1830	58591	17.17	51767	15.17	12.67	0.80	15.75	47.09	
	LOW	2778	1635	55019	16.12	45851	13.43	11.92	0.75	13.50	40.37	
76/67	HI	3381	1990	67880	19.89	40428	11.85	14.16	0.89	22.00	65.78	
	MED	3109	1830	57162	16.75	33032	9.68	11.92	0.75	14.50	43.36	
	LOW	2778	1635	53590	15.70	31060	9.10	11.18	0.71	12.50	37.38	
80/67	HI	3381	1990	71453	20.94	49302	14.45	14.90	0.94	25.00	74.75	
	MED	3109	1830	59306	17.38	40428	11.85	12.67	0.80	16.75	50.08	
	LOW	2778	1635	55733	16.33	37963	11.12	12.67	0.80	14.50	43.36	
85/67	HI	3381	1990	75740	22.19	61134	17.91	15.65	0.99	28.25	84.47	
	MED	3109	1830	62879	18.42	49795	14.59	13.41	0.85	18.75	56.06	
	LOW	2778	1635	59306	17.38	46344	13.58	12.67	0.80	16.75	50.08	

PERFORMANCE DATA

4FCC237R4A1	Cooling Coil Air Inlet				Entering/Leaving Water Temperature							
	DB/WB	Speed	Air Flow Rate		45/54 (°F); 7/12 (°C)							
					Total Cooling		Sensible Cooling		Water Flow rate		Water Pressure drop	
			m ³ /h	CFM	(X 1.000 Btu/Hr)	kW	(X 1.000 Btu/Hr)	kW	GPM	L/S	Ft.wg	kPa
76/63	HI		4040	2378	60717	17.79	51308	15.03	12.98	0.82	15.00	44.85
	MED		3767	2217	50736	14.87	42084	12.33	11.25	0.71	9.90	29.60
	LOW		3330	1960	49073	14.38	40354	11.82	10.38	0.65	9.90	29.60
80/63	HI		4040	2378	69034	20.23	63414	18.58	14.71	0.93	20.10	60.10
	MED		3767	2217	57390	16.82	51884	15.20	12.11	0.76	12.60	37.67
	LOW		3330	1960	53231	15.60	48425	14.19	11.25	0.71	11.40	34.09
85/63	HI		4040	2378	77352	22.66	74944	21.96	16.44	1.04	24.90	74.45
	MED		3767	2217	63212	18.52	61684	18.07	13.84	0.87	16.20	48.44
	LOW		3330	1960	59885	17.55	57649	16.89	12.98	0.82	13.80	41.26
76/65	HI		4040	2378	68203	19.98	48425	14.19	14.71	0.93	18.90	56.51
	MED		3767	2217	56558	16.57	39778	11.65	12.11	0.76	12.60	37.67
	LOW		3330	1960	53231	15.60	36895	10.81	11.25	0.71	11.40	34.09
80/65	HI		4040	2378	74025	21.69	59955	17.57	15.57	0.98	22.50	67.28
	MED		3767	2217	61549	18.03	49002	14.36	12.98	0.82	15.00	44.85
	LOW		3330	1960	57390	16.82	45543	13.34	12.11	0.76	13.80	41.26
85/65	HI		4040	2378	82342	24.13	74367	21.79	17.30	1.09	30.00	89.70
	MED		3767	2217	68203	19.98	60531	17.74	14.71	0.93	18.90	56.51
	LOW		3330	1960	64044	18.76	53614	15.71	13.84	0.87	16.20	48.44
76/67	HI		4040	2378	79015	23.15	47272	13.85	16.44	1.04	26.40	78.94
	MED		3767	2217	66539	19.50	38625	11.32	13.84	0.87	17.40	52.03
	LOW		3330	1960	62381	18.28	36319	10.64	12.98	0.82	15.00	44.85
80/67	HI		4040	2378	83174	24.37	57649	16.89	17.30	1.09	30.00	89.70
	MED		3767	2217	69034	20.23	47272	13.85	14.71	0.93	20.10	60.10
	LOW		3330	1960	64876	19.01	44390	13.01	14.71	0.93	17.40	52.03
85/67	HI		4040	2378	88164	25.83	71485	20.95	18.17	1.15	33.90	101.36
	MED		3767	2217	73193	21.45	58225	17.06	15.57	0.98	22.50	67.28
	LOW		3330	1960	69034	20.23	54190	15.88	14.71	0.93	20.10	60.10

PERFORMANCE DATA

4FCC320R4A1	Cooling Coil Air Inlet			Entering/Leaving Water Temperature								
	DB/WB	Speed	Air Flow Rate		45/54 (°F); 7/12 (°C)							
					Total Cooling		Sensible Cooling		Water Flow rate		Water Pressure drop	
			m³/h	CFM	(X 1.000 Btu/Hr)	kW	(X 1.000 Btu/Hr)	kW	GPM	L/S	Ft.wg	kPa
76/63	HI	5437	3200	77591	22.73	66219	19.40	16.73	1.06	8.35	24.97	
	MED	5012	2950	64836	19.00	54314	15.91	14.50	0.91	5.51	16.48	
	LOW	4451	2620	62711	18.37	52082	15.26	13.38	0.84	5.51	16.48	
80/63	HI	5437	3200	88220	25.85	81843	23.98	18.96	1.20	11.19	33.46	
	MED	5012	2950	73339	21.49	66963	19.62	15.61	0.98	7.01	20.97	
	LOW	4451	2620	68025	19.93	62499	18.31	14.50	0.91	6.35	18.97	
85/63	HI	5437	3200	98849	28.96	96724	28.34	21.19	1.34	13.86	41.44	
	MED	5012	2950	80780	23.67	79611	23.33	17.84	1.13	9.02	26.96	
	LOW	4451	2620	76528	22.42	74403	21.80	16.73	1.06	7.68	22.97	
76/65	HI	5437	3200	87157	25.54	62499	18.31	18.96	1.20	10.52	31.46	
	MED	5012	2950	72277	21.18	51338	15.04	15.61	0.98	7.01	20.97	
	LOW	4451	2620	68025	19.93	47618	13.95	14.50	0.91	6.35	18.97	
80/65	HI	5437	3200	94597	27.72	77379	22.67	20.07	1.27	12.53	37.45	
	MED	5012	2950	78654	23.05	63243	18.53	16.73	1.06	8.35	24.97	
	LOW	4451	2620	73339	21.49	58778	17.22	15.61	0.98	7.68	22.97	
85/65	HI	5437	3200	105226	30.83	95980	28.12	22.30	1.41	16.70	49.93	
	MED	5012	2950	87157	25.54	78123	22.89	18.96	1.20	10.52	31.46	
	LOW	4451	2620	81843	23.98	69195	20.27	17.84	1.13	9.02	26.96	
76/67	HI	5437	3200	100975	29.59	61010	17.88	21.19	1.34	14.70	43.94	
	MED	5012	2950	85031	24.91	49850	14.61	17.84	1.13	9.69	28.96	
	LOW	4451	2620	79717	23.36	46874	13.73	16.73	1.06	8.35	24.97	
80/67	HI	5437	3200	106289	31.14	74403	21.80	22.30	1.41	16.70	49.93	
	MED	5012	2950	88220	25.85	61010	17.88	18.96	1.20	11.19	33.46	
	LOW	4451	2620	82905	24.29	57290	16.79	18.96	1.20	9.69	28.96	
85/67	HI	5437	3200	112666	33.01	92260	27.03	23.42	1.48	18.87	56.42	
	MED	5012	2950	93534	27.41	75147	22.02	20.07	1.27	12.53	37.45	
	LOW	4451	2620	88220	25.85	69939	20.49	18.96	1.20	11.19	33.46	

FAN CHARACTERISTICS - LOW STATIC

Air Flow (CFM)

Model	Speed	External static pressure (Pa)		
		0	25	50
4FCC042R4A1	H	533	483	420
	M	445	403	350
	L	307	278	241
4FCC048R4A1	H	610	552	480
	M	508	460	400
	L	350	317	276
4FCC072R4A1	H	914	828	720
	M	762	690	600
	L	526	476	414
4FCC096R4A1	H	1219	1104	960
	M	1016	920	800
	L	701	634	552
4FCC120R4A1	H	1524	1380	1200
	M	1270	1150	1000
	L	876	793	690
4FCC134R4A1	H	1640	1519	1344
	M	1366	1266	1120
	L	942	873	772

Current (Amps)

Model	Speed	External static pressure (Pa)		
		0	25	50
4FCC042R4A1	H	0.68	0.64	0.54
	M	0.61	0.58	0.49
	L	0.56	0.53	0.45
4FCC048R4A1	H	0.70	0.66	0.56
	M	0.62	0.58	0.50
	L	0.57	0.54	0.46
4FCC072R4A1	H	0.85	0.80	0.68
	M	0.74	0.70	0.59
	L	0.70	0.66	0.56
4FCC096R4A1	H	1.30	1.22	1.04
	M	1.13	1.06	0.90
	L	1.05	0.99	0.84
4FCC120R4A1	H	1.48	1.39	1.19
	M	1.28	1.20	1.02
	L	1.21	1.14	0.97
4FCC134R4A1	H	1.64	1.54	1.31
	M	1.45	1.36	1.16
	L	1.35	1.27	1.08

Input Power (Watts)

Model	Speed	External static pressure (Pa)		
		0	25	50
4FCC042R4A1	H	125	117	100
	M	113	106	90
	L	103	97	83
4FCC048R4A1	H	128	121	103
	M	114	107	91
	L	106	99	84
4FCC072R4A1	H	157	148	126
	M	137	129	109
	L	128	121	103
4FCC096R4A1	H	239	224	191
	M	208	195	166
	L	193	182	155
4FCC120R4A1	H	273	256	218
	M	235	221	188
	L	223	210	179
4FCC134R4A1	H	302	284	242
	M	266	250	213
	L	248	233	199

FAN CHARACTERISTICS - HIGH STATIC

Air Flow (CFM)

Model	Speed	External static pressure (Pa)		
		50	75	100
4FCC139R4A1	H	1399	1200	1032
	M	1295	1111	956
	L	894	767	660
4FCC166R4A1	H	1669	1432	1232
	M	1480	1270	1092
	L	1141	979	842
4FCC179R4A1	H	1799	1544	1327
	M	1635	1403	1206
	L	1400	1201	1033
4FCC199R4A1	H	1990	1708	1468
	M	1830	1571	1350
	L	1635	1403	1206
4FCC237R4A1	H	2378	2041	1755
	M	2217	1902	1636
	L	1960	1682	1446
4FCC320R4A1	H	3200	2746	2361
	M	2950	2531	2177
	L	2620	2248	1933

Current (Amps)

Model	Speed	External static pressure (Pa)		
		50	75	100
4FCC139R4A1	H	2.85	2.68	2.28
	M	2.28	2.15	1.83
	L	1.83	1.72	1.46
4FCC166R4A1	H	3.40	3.20	2.72
	M	2.72	2.56	2.18
	L	2.17	2.04	1.74
4FCC179R4A1	H	3.70	3.48	2.96
	M	2.96	2.78	2.37
	L	2.37	2.23	1.90
4FCC199R4A1	H	4.53	4.26	3.62
	M	3.51	3.30	2.80
	L	2.99	2.81	2.39
4FCC237R4A1	H	5.43	5.11	4.35
	M	4.57	4.29	3.65
	L	3.65	3.43	2.92
4FCC320R4A1	H	8.15	7.66	6.52
	M	6.85	6.44	5.48
	L	5.48	5.15	4.38

Input Power (Watts)

Model	Speed	External static pressure (Pa)		
		50	75	100
4FCC139R4A1	H	525	494	420
	M	420	395	336
	L	336	316	269
4FCC166R4A1	H	626	588	501
	M	501	471	401
	L	400	376	320
4FCC179R4A1	H	681	640	545
	M	545	512	436
	L	436	410	349
4FCC199R4A1	H	833	783	666
	M	645	606	516
	L	550	517	440
4FCC237R4A1	H	1000	940	800
	M	840	790	672
	L	672	632	538
4FCC320R4A1	H	1500	1410	1200
	M	1260	1184	1008
	L	1008	948	806

SPECIFIC FAN POWER

Expressed in W/lps
W - Input Power @ 50Pa ESP
LPS - Airflow @ 50 Pa ESP

FCU Model	Airflow		Input Power	Specific Fan Power (SFP)
	CFM	LPS	W	W / LPS
4FCC042R4A1	350	165	90	0.55
4FCC048R4A1	400	189	91	0.48
4FCC072R4A1	600	283	109	0.39
4FCC096R4A1	800	378	166	0.44
4FCC120R4A1	1000	472	188	0.4
4FCC134R4A1	1120	529	213	0.4
4FCC139R4A1	1295	611	420	0.69
4FCC166R4A1	1480	698	501	0.72
4FCC179R4A1	1635	772	545	0.71
4FCC199R4A1	1830	864	645	0.75
4FCC237R4A1	2217	1046	840	0.8
4FCC320R4A1	2950	1392	1260	0.91

SOUND DATA

Unit operating conditions are the following:
Air on coil DBT 80 °F / WBT 67 °F , water at (7°C / 12°C) (44.6°F/53.6°F) Chilled water
Sound Pressure Level according to ISO 11203 at 1 meter from the unit

Model	ESP in.wg	Speed	Freq [Hz]								Sound Power Level	Sound Pressure Level
			63	125	250	500	1000	2000	4000	8000	dB(A)	dB(A)
			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)		
4FCC 042R4A1	ESP 50 Pa	H	34.5	46.2	50	50.6	49.2	45.6	42.7	34.8	59	46
		M	31.2	36.3	42.2	43.5	40.1	37.2	34.2	29.4	55	41
		L	23.4	28.4	34.6	34.7	32.4	29.8	26.4	21.8	49	35
4FCC 048R4A1	ESP 50 Pa	H	34.5	46.2	50	50.6	49.2	45.6	42.7	34.8	59	46
		M	31.2	36.3	42.2	43.5	40.1	37.2	34.2	29.4	55	41
		L	23.4	28.4	34.6	34.7	32.4	29.8	26.4	21.8	49	35
4FCC 072R4A1	ESP 50 Pa	H	33	44.2	47.9	48.5	47.4	43.8	40.5	32.5	60	46
		M	30.1	35.2	41.1	42.6	38.5	36	34.5	29.5	54	40
		L	25.1	30.4	36.7	36.9	34.3	31.4	28.2	23.7	48	34
4FCC 096R4A1	ESP 50 Pa	H	36.4	48	50.8	51.4	50.4	46.6	43.2	35.2	61	46
		M	33.3	38.5	44.1	45.3	41.7	40.1	37.2	32.2	54	40
		L	30.1	35.4	41.6	41.8	39.1	36.6	33.8	29.7	47	33
4FCC 120R4A1	ESP 50 Pa	H	38.2	46.2	53	53.9	52.7	48.4	45.2	37.2	62	47
		M	34.3	39.4	45.2	46.2	42.8	41.1	37.3	33.3	56	42
		L	32.2	37.3	43.5	43.9	41.2	38.8	35.7	31.9	49	34
4FCC 134R4A1	ESP 50 Pa	H	38.2	46.2	53.1	54	52.8	48.2	45.2	37.2	63	48
		M	36.2	41.2	47.3	48.1	45.1	43.2	39.5	35.5	58	44
		L	32.2	37.3	43.5	43.9	41.2	38.8	35.7	31.9	50	35
4FCC 139R4A1	ESP 50 Pa	H	44.9	51.9	53.7	57.6	61	57.2	55.3	49.4	66	55
		M	43.2	49.2	50.3	54.9	57.3	51.1	51	44.4	62	51
		L	39.3	45.4	44.7	51.1	52.1	47.1	43.7	25.3	57	46
4FCC 166R4A1	ESP 50 Pa	H	46	53	54.8	58.7	62.1	58.3	56.4	50.5	70	59
		M	44.9	50.9	52	56.6	59	52.8	52.7	46.1	68	57
		L	41.2	47.3	46.6	53	54	49	45.6	27.2	65	54
4FCC 179R4A1	ESP 50 Pa	H	46.7	53.7	55.5	59.4	62.8	59	57.1	51.2	70	59
		M	44.4	50.4	51.5	56.1	58.5	52.3	52.2	45.6	68	57
		L	42.3	48.4	47.7	54.1	55.1	50.1	46.7	28.3	65	54
4FCC 199R4A1	ESP 50 Pa	H	47.6	54.4	56.2	60.1	63.5	59.7	57.8	51.9	69	58
		M	45.8	51.8	52.9	57.5	59.9	53.7	53.6	47	65	54
		L	44.7	50.8	50.1	56.5	57.5	52.5	49.1	30.7	63	52
4FCC 237R4A1	ESP 50 Pa	H	47.8	54.7	56.5	60.4	63.8	60	58.1	52.2	69	58
		M	46.1	52.3	53.4	58	60.4	54.2	54.1	47.5	65	54
		L	45.2	51.3	50.6	57	58	53	49.6	31.2	63	52
4FCC 320R4A1	ESP 50 Pa	H	48.1	50.3	62.5	61.3	63.1	61.6	59	52.5	70	59
		M	46.2	50	57	58.2	59.3	56.5	53.8	45.9	66	55
		L	42.2	51.6	55.6	58.8	54.2	54.1	52.4	41.1	64	53

DISTRICT COOLING

TECHNICAL SPECIFICATION

Rated parameters		Units	Speed	4FCC042R4A2	4FCC048R4A2	4FCC072R4A2	4FCC096R4A2	4FCC120R4A2	4FCC134R4A2
				Low Static District Cooling Unit					
Cooling Capacity at DBT 76 °F / WBT 63 °F water at (5.5°C / 14.5°C) (42°F/58°F)	Total	[BTU/hr]	High Speed	9397	11438	20227	26275	32480	35077
	Sensible	[BTU/hr]	High Speed	8230	9815	16227	21018	26165	28654
Air Flow at 50 Pa	-	[CFM]	High Speed	420	480	720	960	1200	1344
Air Flow at 0 Pa	-	[CFM]	High Speed	533	610	914	1219	1524	1640
Sound Pressure Level according to ISO 11203 at 1 meter from the unit	-	[dB(A)]	High Speed	46	46	46	46	47	48
		[dB(A)]	Medium Speed	41	41	40	40	42	44
		[dB(A)]	Low Speed	35	35	34	33	34	35
Coil	Type	[-]	-	3/8" ,0.28mm Thick Copper tubes					
	Face Area	[ft²]	-	1,31	1,53	1,97	2,62	3,06	3,5
	Row / FPI	[-]	-	4/10.58	4/10.58	4/10.58	4/10.58	4/10.58	4/10.58
	Size	[mm x mm]	-	203.2x600	203.2x700	203.2x930	203.2x1200	203.2x1400	203.2x1600
	Nominal water flow rate	US GPM	Med Speed	1,10	1,30	2,20	2,90	3,50	3,70
Fan	Type	[-]	-	Centrifugal , Forward Curve DIDW					
	Material	[-]	-	GI					
	Dimensions	[-]	-	145*160	145*190	145*190	145*190	145*190	145*190
	Quantity	[pcs.]	-	2	2	2	3	4	4
Fan motor	Power Supply (Output)	[W]	-	80	80	80	130	160	160
	Max Power Input	[W]	-	125	128	157	239	273	302
	FLA	[A]	-	0,68	0,70	0,85	1,30	1,48	1,64
	Type/Class/IP	[-]	-	Class B/IP20	Class B/IP20	Class B/IP20	Class B/IP20	Class B/IP20	Class B/IP20
	Revolutions	[rpm]	H/M/L	1000/900/750	1000/900/750	1000/900/750	1000/900/750	1000/900/750	1000/900/750
	Quantity	[-]	-	1	1	1	2	2	2
Drive method	-	[-]	-	Direct Drive					
Weight	Unit	[kg]	-	21	23	28	36	41	47
	Shipping	[kg]	-	23	25	30	39	44	50
Unit Dimensions	L	[mm]	-	890	990	1240	1490	1690	1890
	W	[mm]	-	514					
	H	[mm]	-	234					
Shipping Dimensions	L	[mm]	-	915	1015	1265	1515	1715	1915
	W	[mm]	-	524					
	H	[mm]	-	245					
Connections	Inlet (MPT)	[inch]	-	1/2" NPS	1/2" NPS	1/2" NPS	3/4" NPS	3/4" NPS	3/4" NPS
	Outlet (MPT)	[inch]	-	1/2" NPS	1/2" NPS	1/2" NPS	3/4" NPS	3/4" NPS	3/4" NPS
	Drain Pan Inch OD	[inch]	-	7/8	7/8	7/8	7/8	7/8	7/8

TECHNICAL SPECIFICATION

Rated parameters		Units	Speed	4FCC139R4A2	4FCC159R4A2	4FCC179R4A2	4FCC200R4A2	4FCC238R4A2	4FCC322R4A2
		High Static District Cooling Unit							
Cooling Capacity at DBT 76 °F / WBT 63 °F water at (5.5°C / 14.5°C) (42°F/58°F)	Total	[BTU/hr]	High Speed	39056	46939	49378	55171	71736	90032
	Sensible	[BTU/hr]	High Speed	31468	36935	39894	44609	55810	71054
Air Flow at 50 Pa	-	[CFM]	High Speed	1030	1178	1325	1476	1757	2376
Air Flow at 0 Pa	-	[CFM]	High Speed	1396	1596	1796	2000	2381	3220
Sound Pressure Level according to ISO 11203 at 1 meter from the unit	-	[dB(A)]	High Speed	55	59	59	58	58	59
		[dB(A)]	Medium Speed	51	57	57	54	54	55
		[dB(A)]	Low Speed	46	54	54	52	52	53
Coil	Type	[-]	-	3/8", 0.28 mm Thick Copper tubes					
	Face Area	[ft²]	-	2,36	2,5	2,95	3,33	3,72	4,2
	Row / FPI	[-]	-	4/15	4/15	4/15	4/15	4/15	4/15
	Size	[mm x mm]	-	304.8x1080	304.8x1143	304.8x1347	304.8x1524	304.8x1700	304.8x1900
	Nominal water flow rate	US GPM	Med Speed	5,25	6	6,75	7,5	9	12
Fan	Type	[-]	-	Centrifugal , Forward Curve DIDW					
	Material	[-]	-	GI					
	Dimensions	[-]	-	200*200	200*200	200*200	200*200	200*200	200*200
	Quantity	[pcs.]	-	2	2	2	2	2	3
Fan motor	Power Supply (Output)	[W]	-	240	300	400	500	500	750
	Max Power Input	[W]	-	593	625	625	833	1000	1500
	FLA	[A]	-	4,2	6,4	7,2	8	10	15
	Type/Class/IP	[-]	-	Class B/IP20	Class B/IP20	Class B/IP20	Class B/IP20	Class B/IP20	Class B/IP20
	Revolutions	[rpm]	H/M/L	1350/1150/900	1350/1150/900	1350/1150/900	1350/1150/900	1350/1150/900	1350/1150/900
	Quantity	[-]	-	2	2	2	2	2	3
Drive method	-	[-]	-	Direct Drive					
Weight	Unit	[kg]	-	87	95	110	126	143	178
	Shipping	[kg]	-	90	99	114	130	148	188
Unit Dimensions	L	[mm]	-	1390	1440	1690	1840	1990	2240
	W	[mm]	-	614					
	H	[mm]	-	335					
Shipping Dimensions	L	[mm]	-	1405	1455	1705	1855	2005	2255
	W	[mm]	-	624					
	H	[mm]	-	345					
Connections	Inlet (MPT)	[inch]	-	1" NPS	1" NPS	1" NPS	1" NPS	1 1/4" NPS	1 1/4" NPS
	Outlet (MPT)	[inch]	-	1" NPS	1" NPS	1" NPS	1" NPS	1 1/4" NPS	1 1/4" NPS
	Drain Pan Inch OD	[inch]	-	7/8	7/8	7/8	7/8	7/8	7/8

PERFORMANCE DATA

4FCC042R4A2	Cooling Coil Air Inlet			Entering/Leaving Water Temperature								
	DB/WB	Speed	Air Flow Rate		42/58 (°F); 5.5/14.4 (°C)							
					Total Cooling		Sensible Cooling		Water Flow rate		Water Pressure drop	
			m ³ /h	CFM	(X 1,000 Btu/Hr)	kW	(X 1,000 Btu/Hr)	kW	GPM	L/S	Ft.wg	kPa
76/63	HI	714	420	9397	2.75	8230	2.41	1.20	0.08	1.90	5.68	
	MED	595	350	8076	2.37	7016	2.06	1.10	0.07	1.30	3.89	
	LOW	410	241	6539	1.92	5293	1.55	0.90	0.06	1.00	2.99	
80/63	HI	714	420	10917	3.20	10278	3.01	1.40	0.09	2.70	8.07	
	MED	595	350	9393	2.75	8752	2.56	1.20	0.08	1.90	5.68	
	LOW	410	241	6822	2.00	6231	1.83	0.90	0.06	1.00	2.99	
85/63	HI	714	420	12868	3.77	12734	3.73	1.70	0.11	3.90	11.66	
	MED	595	350	11038	3.23	10847	3.18	1.40	0.09	2.70	8.07	
	LOW	410	241	7915	2.32	7673	2.25	1.00	0.06	1.30	3.89	
76/65	HI	714	420	10064	2.95	7718	2.26	1.30	0.08	2.20	6.58	
	MED	595	350	8735	2.56	6584	1.93	1.20	0.08	1.60	4.78	
	LOW	410	241	6628	1.94	4770	1.40	0.90	0.06	1.10	3.29	
80/65	HI	714	420	11310	3.31	9714	2.85	1.50	0.09	2.90	8.67	
	MED	595	350	9769	2.86	8265	2.42	1.30	0.08	2.10	6.28	
	LOW	410	241	7050	2.07	5828	1.71	0.90	0.06	1.00	2.99	
85/65	HI	714	420	13027	3.82	12179	3.57	1.70	0.11	4.00	11.96	
	MED	595	350	11201	3.28	10364	3.04	1.50	0.09	2.80	8.37	
	LOW	410	241	8057	2.36	7314	2.14	1.10	0.07	1.40	4.19	
76/67	HI	714	420	11418	3.35	7341	2.15	1.50	0.09	2.90	8.67	
	MED	595	350	9925	2.91	6274	1.84	1.30	0.08	2.10	6.28	
	LOW	410	241	7254	2.13	4446	1.30	1.00	0.06	1.10	3.29	
80/67	HI	714	420	12354	3.62	9188	2.69	1.60	0.10	3.50	10.47	
	MED	595	350	10704	3.14	7829	2.29	1.40	0.09	2.50	7.48	
	LOW	410	241	7778	2.28	5526	1.62	1.00	0.06	1.20	3.59	
85/67	HI	714	420	13597	3.98	11611	3.40	1.80	0.11	4.40	13.16	
	MED	595	350	11719	3.43	9815	2.88	1.50	0.09	3.10	9.27	
	LOW	410	241	8537	2.50	6973	2.04	1.10	0.07	1.60	4.78	

PERFORMANCE DATA

4FCC048R4A2	Cooling Coil Air Inlet			Entering/Leaving Water Temperature								
	DB/WB	Speed	Air Flow Rate		42/58 (°F); 5.5/14.4 (°C)							
					Total Cooling		Sensible Cooling		Water Flow rate		Water Pressure drop	
			m ³ /h	CFM	(X 1.000 Btu/Hr)	kW	(X 1.000 Btu/Hr)	kW	GPM	L/S	Ft.wg	kPa
76/63	HI	816	480	11438	3.35	9815	2.88	1.50	0.09	3.30	9.87	
	MED	680	400	9853	2.89	8358	2.45	1.30	0.08	2.30	6.88	
	LOW	469	276	7114	2.08	5904	1.73	0.90	0.06	1.10	3.29	
80/63	HI	816	480	13103	3.84	12141	3.56	1.70	0.11	4.40	13.16	
	MED	680	400	11262	3.30	10337	3.03	1.50	0.09	3.10	9.27	
	LOW	469	276	8106	2.38	7309	2.14	1.10	0.07	1.50	4.49	
85/63	HI	816	480	15740	4.61	15301	4.48	2.00	0.13	6.20	18.54	
	MED	680	400	13075	3.83	12726	3.73	1.70	0.11	4.40	13.16	
	LOW	469	276	9385	2.75	9012	2.64	1.20	0.08	2.10	6.28	
76/65	HI	816	480	12427	3.64	9249	2.71	1.60	0.10	3.90	11.66	
	MED	680	400	10767	3.15	7889	2.31	1.40	0.09	2.80	8.37	
	LOW	469	276	7807	2.29	5577	1.63	1.00	0.06	1.40	4.19	
80/65	HI	816	480	13819	4.05	11549	3.38	1.80	0.11	4.90	14.65	
	MED	680	400	11840	3.47	9779	2.87	1.50	0.09	3.50	10.47	
	LOW	469	276	8573	2.51	6914	2.03	1.10	0.07	1.70	5.08	
85/65	HI	816	480	16195	4.75	14657	4.29	2.10	0.13	6.50	19.44	
	MED	680	400	13342	3.91	12157	3.56	1.70	0.11	4.60	13.75	
	LOW	469	276	9616	2.82	8590	2.52	1.30	0.08	2.20	6.58	
76/67	HI	816	480	14998	4.39	9204	2.70	1.90	0.12	5.70	17.04	
	MED	680	400	12339	3.62	7597	2.23	1.60	0.10	3.90	11.66	
	LOW	469	276	8987	2.63	5390	1.58	1.20	0.08	1.90	5.68	
80/67	HI	816	480	16214	4.75	11398	3.34	2.10	0.13	6.50	19.44	
	MED	680	400	13079	3.83	9323	2.73	1.70	0.11	4.40	13.16	
	LOW	469	276	9513	2.79	6604	1.93	1.20	0.08	2.10	6.28	
85/67	HI	816	480	17594	5.16	14202	4.16	2.30	0.15	7.60	22.72	
	MED	680	400	14433	4.23	11747	3.44	1.90	0.12	5.30	15.85	
	LOW	469	276	10266	3.01	8220	2.41	1.30	0.08	2.50	7.48	

PERFORMANCE DATA

4FCC072R4A2	Cooling Coil Air Inlet				Entering/Leaving Water Temperature							
	DB/WB	Speed	Air Flow Rate		42/58 (°F); 5.5/14.4 (°C)							
					Total Cooling		Sensible Cooling		Water Flow rate		Water Pressure drop	
			m ³ /h	CFM	(X 1.000 Btu/Hr)	kW	(X 1.000 Btu/Hr)	kW	GPM	L/S	Ft.wg	kPa
76/63	HI		1223	720	20227	5.93	16227	4.75	2.60	0.16	11.80	35.28
	MED		1019	600	16969	4.97	13582	3.98	2.20	0.14	8.60	25.71
	LOW		703	414	11630	3.41	9338	2.74	1.50	0.09	4.10	12.26
80/63	HI		1223	720	22384	6.56	19703	5.77	2.90	0.18	14.10	42.16
	MED		1019	600	18921	5.54	16595	4.86	2.50	0.16	10.40	31.10
	LOW		703	414	12908	3.78	11385	3.34	1.70	0.11	5.20	15.55
85/63	HI		1223	720	25160	7.37	23930	7.01	3.20	0.20	17.40	52.03
	MED		1019	600	21410	6.27	20247	5.93	2.80	0.18	13.00	38.87
	LOW		703	414	14878	4.36	14045	4.12	1.90	0.12	6.80	20.33
76/65	HI		1223	720	23363	6.85	15919	4.66	3.00	0.19	15.20	45.45
	MED		1019	600	19673	5.76	13370	3.92	2.50	0.16	11.20	33.49
	LOW		703	414	12937	3.79	8931	2.62	1.70	0.11	5.30	15.85
80/65	HI		1223	720	24523	7.19	19028	5.58	3.20	0.20	16.60	49.63
	MED		1019	600	20806	6.10	16051	4.70	2.70	0.17	12.30	36.78
	LOW		703	414	14065	4.12	10943	3.21	1.80	0.11	6.20	18.54
85/65	HI		1223	720	26215	7.68	22939	6.72	3.40	0.21	18.70	55.91
	MED		1019	600	22474	6.58	19469	5.70	2.90	0.18	14.10	42.16
	LOW		703	414	15628	4.58	13502	3.96	2.00	0.13	7.50	22.43
76/67	HI		1223	720	27063	7.93	15723	4.61	3.50	0.22	19.70	58.90
	MED		1019	600	23478	6.88	13489	3.95	3.00	0.19	15.30	45.75
	LOW		703	414	15949	4.67	9156	2.68	2.10	0.13	7.70	23.02
80/67	HI		1223	720	27650	8.10	18515	5.42	3.60	0.23	20.50	61.30
	MED		1019	600	24062	7.05	15879	4.65	3.10	0.20	16.00	47.84
	LOW		703	414	16547	4.85	10905	3.20	2.10	0.13	8.20	24.52
85/67	HI		1223	720	28364	8.31	22171	6.50	3.60	0.23	21.40	63.99
	MED		1019	600	24668	7.23	18970	5.56	3.20	0.20	16.70	49.93
	LOW		703	414	17265	5.06	13190	3.86	2.20	0.14	8.90	26.61

PERFORMANCE DATA

4FCC096R4A2	Cooling Coil Air Inlet				Entering/Leaving Water Temperature							
	DB/WB	Speed	Air Flow Rate		42/58 (°F); 5.5/14.4 (°C)							
					Total Cooling		Sensible Cooling		Water Flow rate		Water Pressure drop	
			m³/h	CFM	(X 1.000 Btu/Hr)	kW	(X 1.000 Btu/Hr)	kW	GPM	L/S	Ft.wg	kPa
76/63	HI	1631	960	26275	7.70	21018	6.16	3.40	0.21	10.30	30.80	
	MED	1359	800	21914	6.42	17590	5.15	2.90	0.18	7.50	22.43	
	LOW	937	552	15072	4.42	12142	3.56	2.00	0.13	3.60	10.76	
80/63	HI	1631	960	29280	8.58	25690	7.53	3.80	0.24	12.50	37.38	
	MED	1359	800	24755	7.25	21675	6.35	3.20	0.20	9.30	27.81	
	LOW	937	552	169154	49.56	14923	4.37	2.20	0.14	4.70	14.05	
85/63	HI	1631	960	33137	9.71	31393	9.20	4.30	0.27	15.60	46.64	
	MED	1359	800	28224	8.27	26624	7.80	3.70	0.23	11.70	34.98	
	LOW	937	552	19624	5.75	18516	5.43	2.60	0.16	6.20	18.54	
76/65	HI	1631	960	30518	8.94	20751	6.08	4.00	0.25	13.50	40.37	
	MED	1359	800	25734	7.54	17456	5.11	3.30	0.21	10.00	29.90	
	LOW	937	552	16868	4.94	11649	3.41	2.20	0.14	4.60	13.75	
80/65	HI	1631	960	32138	9.42	24878	7.29	4.20	0.26	14.80	44.25	
	MED	1359	800	27325	8.01	21042	6.17	3.50	0.22	11.10	33.19	
	LOW	937	552	18372	5.38	14323	4.20	2.40	0.15	5.50	16.45	
85/65	HI	1631	960	34530	10.12	30089	8.82	4.50	0.28	16.70	49.93	
	MED	1359	800	29672	8.69	25604	7.50	3.80	0.24	12.80	38.27	
	LOW	937	552	20649	6.05	17806	5.22	2.70	0.17	6.80	20.33	
76/67	HI	1631	960	35633	10.44	20625	6.04	4.60	0.29	17.70	52.92	
	MED	1359	800	30991	9.08	17744	5.20	4.00	0.25	13.80	41.26	
	LOW	937	552	21041	6.17	12046	3.53	2.70	0.17	7.00	20.93	
80/67	HI	1631	960	36394	10.66	24289	7.12	4.70	0.30	18.40	55.02	
	MED	1359	800	31758	9.31	20897	6.12	4.10	0.26	14.40	43.06	
	LOW	937	552	21956	6.43	14421	4.23	2.90	0.18	7.50	22.43	
85/67	HI	1631	960	37452	10.97	29144	8.54	4.80	0.30	19.40	58.01	
	MED	1359	800	32664	9.57	25013	7.33	4.20	0.26	15.20	45.45	
	LOW	937	552	22977	6.73	17482	5.12	3.00	0.19	8.20	24.52	

PERFORMANCE DATA

4FCC120R4A2	Cooling Coil Air Inlet			Entering/Leaving Water Temperature								
	DB/WB	Speed	Air Flow Rate		42/58 (°F); 5.5/14.4 (°C)							
					Total Cooling		Sensible Cooling		Water Flow rate		Water Pressure drop	
			m³/h	CFM	(X 1.000 Btu/Hr)	kW	(X 1.000 Btu/Hr)	kW	GPM	L/S	Ft.wg	kPa
76/63	HI	2039	1200	32480	9.52	26165	7.67	4.20	0.26	9.20	27.51	
	MED	1699	1000	26830	7.86	21770	6.38	3.50	0.22	6.60	19.73	
	LOW	1172	690	18542	5.43	15099	4.42	2.40	0.15	3.10	9.27	
80/63	HI	2039	1200	36574	10.72	32159	9.42	4.70	0.30	11.40	34.09	
	MED	1699	1000	30899	9.05	27140	7.95	4.00	0.25	8.50	25.42	
	LOW	1172	690	21085	6.18	18687	5.48	2.80	0.18	4.20	12.56	
85/63	HI	2039	1200	41739	12.23	39506	11.58	5.40	0.34	14.40	43.06	
	MED	1699	1000	35616	10.44	33559	9.83	4.60	0.29	10.90	32.59	
	LOW	1172	690	21553	6.32	21553	6.32	2.80	0.18	4.40	13.16	
76/65	HI	2039	1200	37379	10.95	25729	7.54	4.80	0.30	11.80	35.28	
	MED	1699	1000	31410	9.20	21617	6.33	4.10	0.26	8.70	26.01	
	LOW	1172	690	20601	6.04	14470	4.24	2.70	0.17	4.00	11.96	
80/65	HI	2039	1200	39961	11.71	31120	9.12	5.20	0.33	13.30	39.77	
	MED	1699	1000	33931	9.94	26327	7.71	4.40	0.28	10.00	29.90	
	LOW	1172	690	22590	6.62	17854	5.23	3.00	0.19	4.90	14.65	
85/65	HI	2039	1200	43357	12.70	37801	11.08	5.60	0.35	15.40	46.05	
	MED	1699	1000	37319	10.93	32245	9.45	4.80	0.30	11.80	35.28	
	LOW	1172	690	25997	7.62	22483	6.59	3.40	0.21	6.20	18.54	
76/67	HI	2039	1200	43832	12.84	25628	7.51	5.60	0.35	15.70	46.94	
	MED	1699	1000	37973	11.13	22002	6.45	4.90	0.31	12.20	36.48	
	LOW	1172	690	25326	7.42	14787	4.33	3.30	0.21	5.90	17.64	
80/67	HI	2039	1200	45005	13.19	30320	8.88	5.80	0.37	16.40	49.04	
	MED	1699	1000	39287	11.51	26120	7.65	5.10	0.32	13.00	38.87	
	LOW	1172	690	26961	7.90	17995	5.27	3.50	0.22	6.60	19.73	
85/67	HI	2039	1200	46690	13.68	36558	10.71	6.00	0.38	17.60	52.62	
	MED	1699	1000	40582	11.89	31476	9.22	5.30	0.33	13.90	41.56	
	LOW	1172	690	28745	8.42	22060	6.46	3.70	0.23	7.40	22.13	

PERFORMANCE DATA

4FCC134R4A2	Cooling Coil Air Inlet			Entering/Leaving Water Temperature								
	DB/WB	Speed	Air Flow Rate		42/58 (°F); 5.5/14.4 (°C)							
					Total Cooling		Sensible Cooling		Water Flow rate		Water Pressure drop	
			m³/h	CFM	(X 1,000 Btu/Hr)	kW	(X 1,000 Btu/Hr)	kW	GPM	L/S	Ft.wg	kPa
76/63	HI	2283	1344	35077	10.28	28654	8.40	4.50	0.28	7.20	21.53	
	MED	1903	1120	28064	8.22	23389	6.85	3.70	0.23	4.80	14.35	
	LOW	1312	772	20149	5.90	16606	4.87	2.70	0.17	2.30	6.88	
80/63	HI	2283	1344	40475	11.86	35776	10.48	5.20	0.33	9.20	27.51	
	MED	1903	1120	33864	9.92	30012	8.79	4.40	0.28	6.70	20.03	
	LOW	1312	772	23235	6.81	20730	6.07	3.10	0.20	3.20	9.57	
85/63	HI	2283	1344	46746	13.70	44289	12.98	6.00	0.38	11.90	35.58	
	MED	1903	1120	39664	11.62	37486	10.98	5.10	0.32	8.90	26.61	
	LOW	1312	772	23688	6.94	23688	6.94	3.10	0.20	3.40	10.17	
76/65	HI	2283	1344	40655	11.91	28276	8.28	5.30	0.33	9.30	27.81	
	MED	1903	1120	33367	9.78	23415	6.86	4.30	0.27	6.50	19.44	
	LOW	1312	772	22299	6.53	15856	4.65	2.90	0.18	2.90	8.67	
80/65	HI	2283	1344	44164	12.94	34573	10.13	5.70	0.36	10.80	32.29	
	MED	1903	1120	37127	10.88	29098	8.53	4.80	0.30	7.90	23.62	
	LOW	1312	772	24677	7.23	19700	5.77	3.20	0.20	3.70	11.06	
85/65	HI	2283	1344	48682	14.26	42443	12.44	6.30	0.40	12.80	38.27	
	MED	1903	1120	41362	12.12	35928	10.53	5.30	0.33	9.60	28.70	
	LOW	1312	772	28201	8.26	24715	7.24	3.70	0.23	4.90	14.65	
76/67	HI	2283	1344	48989	14.35	28669	8.40	6.30	0.40	13.00	38.87	
	MED	1903	1120	41352	12.12	24155	7.08	5.30	0.33	9.60	28.70	
	LOW	1312	772	25819	7.56	15500	4.54	3.40	0.21	4.10	12.26	
80/67	HI	2283	1344	50398	14.77	33988	9.96	6.50	0.41	13.60	40.66	
	MED	1903	1120	43033	12.61	28859	8.46	5.60	0.35	10.30	30.80	
	LOW	1312	772	27998	8.20	19205	5.63	3.70	0.23	4.80	14.35	
85/67	HI	2283	1344	52477	15.38	41053	12.03	6.80	0.43	14.70	43.95	
	MED	1903	1120	45268	13.26	35058	10.27	5.80	0.37	11.20	33.49	
	LOW	1312	772	31142	9.12	24224	7.10	4.00	0.25	5.80	17.34	

PERFORMANCE DATA

4FCC139R4A2	Cooling Coil Air Inlet			Entering/Leaving Water Temperature								
	DB/WB	Speed	Air Flow Rate		42/58 (°F); 5.5/14.4 (°C)							
					Total Cooling		Sensible Cooling		Water Flow rate		Water Pressure drop	
			m³/h	CFM	(X 1.000 Btu/Hr)	kW	(X 1.000 Btu/Hr)	kW	GPM	L/S	Ft.wg	kPa
76/63	HI	2372	1396	39056	11.44	31468	9.22	5.10	0.32	6.30	18.84	
	MED	2039	1200	32456	9.51	25688	7.53	4.25	0.27	4.21	12.57	
	LOW	1519	894	30494	8.93	24082	7.06	3.96	0.25	3.53	10.56	
80/63	HI	2372	1396	42309	12.40	37890	11.10	5.38	0.34	7.40	22.13	
	MED	2039	1200	35086	10.28	30826	9.03	4.53	0.29	4.88	14.59	
	LOW	1519	894	32902	9.64	28899	8.47	4.25	0.27	4.21	12.57	
85/63	HI	2372	1396	47391	13.89	46238	13.55	6.23	0.39	9.50	28.42	
	MED	2039	1200	39054	11.44	37569	11.01	5.09	0.32	6.31	18.86	
	LOW	1519	894	36558	10.71	35000	10.25	4.81	0.30	5.30	15.84	
76/65	HI	2372	1396	44449	13.02	30504	8.94	5.66	0.36	8.41	25.15	
	MED	2039	1200	37093	10.87	25046	7.34	4.81	0.30	5.64	16.85	
	LOW	1519	894	34863	10.21	23440	6.87	4.53	0.29	4.88	14.59	
80/65	HI	2372	1396	46455	13.61	36605	10.73	5.94	0.38	9.08	27.16	
	MED	2039	1200	38742	11.35	29862	8.75	5.09	0.32	5.97	17.85	
	LOW	1519	894	36379	10.66	27936	8.19	4.81	0.30	5.30	15.84	
85/65	HI	2372	1396	49799	14.59	44312	12.98	6.51	0.41	10.51	31.43	
	MED	2039	1200	41283	12.10	35963	10.54	5.38	0.34	6.98	20.87	
	LOW	1519	894	38742	11.35	33715	9.88	5.09	0.32	5.97	17.85	
76/67	HI	2372	1396	51582	15.11	29862	8.75	6.51	0.41	11.61	34.70	
	MED	2039	1200	43156	12.64	24725	7.24	5.66	0.36	7.74	23.14	
	LOW	1519	894	40570	11.89	23119	6.77	5.38	0.34	6.64	19.87	
80/67	HI	2372	1396	52786	15.47	35642	10.44	6.79	0.43	12.28	36.72	
	MED	2039	1200	44181	12.95	29220	8.56	5.66	0.36	8.07	24.14	
	LOW	1519	894	41551	12.17	27293	8.00	5.38	0.34	6.98	20.87	
85/67	HI	2372	1396	54836	16.07	43027	12.61	7.08	0.45	12.95	38.73	
	MED	2039	1200	45474	13.32	35000	10.25	5.94	0.38	8.75	26.15	
	LOW	1519	894	42755	12.53	32752	9.60	5.66	0.36	7.74	23.14	

PERFORMANCE DATA

4FCC159R4A2	Cooling Coil Air Inlet				Entering/Leaving Water Temperature							
	DB/WB	Speed	Air Flow Rate		42/58 (°F); 5.5/14.4 (°C)							
					Total Cooling		Sensible Cooling		Water Flow rate		Water Pressure drop	
			m ³ /h	CFM	(X 1.000 Btu/Hr)	kW	(X 1.000 Btu/Hr)	kW	GPM	L/S	Ft.wg	kPa
	76/63	HI	2712	1596	46939	13.75	36935	10.82	6.10	0.38	9.20	27.51
		MED	2175	1280	39007	11.43	30151	8.83	5.08	0.32	6.14	18.36
		LOW	1740	1024	36649	10.74	28266	8.28	4.74	0.30	5.16	15.42
	80/63	HI	2712	1596	50848	14.90	44472	13.03	6.43	0.41	10.81	32.32
		MED	2175	1280	42168	12.36	36181	10.60	5.42	0.34	7.12	21.30
		LOW	1740	1024	39543	11.59	33920	9.94	5.08	0.32	6.14	18.36
	85/63	HI	2712	1596	56956	16.69	54271	15.90	7.45	0.47	13.88	41.50
		MED	2175	1280	46937	13.75	44096	12.92	6.09	0.38	9.21	27.54
		LOW	1740	1024	43936	12.87	41080	12.04	5.76	0.36	7.74	23.14
	76/65	HI	2712	1596	53420	15.65	35804	10.49	6.77	0.43	12.28	36.72
		MED	2175	1280	44579	13.06	29397	8.61	5.76	0.36	8.23	24.60
		LOW	1740	1024	41900	12.28	27513	8.06	5.42	0.34	7.12	21.30
	80/65	HI	2712	1596	55831	16.36	42965	12.59	7.11	0.45	13.26	39.66
		MED	2175	1280	46562	13.64	35050	10.27	6.09	0.38	8.72	26.07
		LOW	1740	1024	43722	12.81	32789	9.61	5.76	0.36	7.74	23.14
	85/65	HI	2712	1596	59850	17.54	52010	15.24	7.79	0.49	15.35	45.90
		MED	2175	1280	49616	14.54	42211	12.37	6.43	0.41	10.19	30.48
		LOW	1740	1024	46562	13.64	39573	11.59	6.09	0.38	8.72	26.07
	76/67	HI	2712	1596	61993	18.16	35050	10.27	7.79	0.49	16.95	50.68
		MED	2175	1280	51866	15.20	29020	8.50	6.77	0.43	11.30	33.79
		LOW	1740	1024	48759	14.29	27136	7.95	6.43	0.41	9.70	29.01
	80/67	HI	2712	1596	63440	18.59	41834	12.26	8.13	0.51	17.93	53.62
		MED	2175	1280	53099	15.56	34297	10.05	6.77	0.43	11.79	35.25
		LOW	1740	1024	49937	14.63	32035	9.39	6.43	0.41	10.19	30.48
	85/67	HI	2712	1596	65904	19.31	50503	14.80	8.46	0.53	18.91	56.55
		MED	2175	1280	54652	16.01	41080	12.04	7.11	0.45	12.77	38.19
		LOW	1740	1024	51384	15.06	38442	11.26	6.77	0.43	11.30	33.79

PERFORMANCE DATA

4FCC179R4A2	Cooling Coil Air Inlet				Entering/Leaving Water Temperature							
	DB/WB	Speed	Air Flow Rate		42/58 (°F); 5.5/14.4 (°C)							
					Total Cooling		Sensible Cooling		Water Flow rate		Water Pressure drop	
			m ³ /h	CFM	(X 1.000 Btu/Hr)	kW	(X 1.000 Btu/Hr)	kW	GPM	L/S	Ft.wg	kPa
76/63	HI		3051	1796	49378	14.47	39894	11.69	6.50	0.41	5.80	17.34
	MED		2795	1645	41034	12.02	32566	9.54	5.41	0.34	3.87	11.58
	LOW		2379	1400	38554	11.30	30531	8.95	5.05	0.32	3.25	9.72
80/63	HI		3051	1796	53490	15.67	48035	14.07	6.85	0.43	6.81	20.37
	MED		2795	1645	44359	13.00	39080	11.45	5.77	0.36	4.49	13.43
	LOW		2379	1400	41597	12.19	36637	10.73	5.41	0.34	3.87	11.58
85/63	HI		3051	1796	59916	17.56	58619	17.18	7.94	0.50	8.75	26.16
	MED		2795	1645	49376	14.47	47628	13.96	6.49	0.41	5.81	17.36
	LOW		2379	1400	46219	13.54	44372	13.00	6.13	0.39	4.88	14.59
76/65	HI		3051	1796	56196	16.47	38672	11.33	7.22	0.46	7.74	23.15
	MED		2795	1645	46896	13.74	31752	9.30	6.13	0.39	5.19	15.51
	LOW		2379	1400	44077	12.91	29717	8.71	5.77	0.36	4.49	13.43
80/65	HI		3051	1796	58732	17.21	46407	13.60	7.58	0.48	8.36	25.00
	MED		2795	1645	48981	14.35	37858	11.09	6.49	0.41	5.50	16.44
	LOW		2379	1400	45994	13.48	35416	10.38	6.13	0.39	4.88	14.59
85/65	HI		3051	1796	62960	18.45	56177	16.46	8.30	0.52	9.68	28.94
	MED		2795	1645	52194	15.29	45593	13.36	6.85	0.43	6.43	19.22
	LOW		2379	1400	48981	14.35	42743	12.52	6.49	0.41	5.50	16.44
76/67	HI		3051	1796	65214	19.11	37858	11.09	8.30	0.52	10.69	31.95
	MED		2795	1645	54561	15.99	31345	9.18	7.22	0.46	7.12	21.30
	LOW		2379	1400	51292	15.03	29310	8.59	6.85	0.43	6.12	18.29
80/67	HI		3051	1796	66736	19.55	45186	13.24	8.66	0.55	11.30	33.80
	MED		2795	1645	55858	16.37	37044	10.85	7.22	0.46	7.43	22.23
	LOW		2379	1400	52532	15.39	34602	10.14	6.85	0.43	6.43	19.22
85/67	HI		3051	1796	69329	20.31	54549	15.98	9.02	0.57	11.92	35.65
	MED		2795	1645	57492	16.85	44372	13.00	7.58	0.48	8.05	24.08
	LOW		2379	1400	54054	15.84	41522	12.17	7.22	0.46	7.12	21.30

PERFORMANCE DATA

4FCC200R4A2	Cooling Coil Air Inlet				Entering/Leaving Water Temperature							
	DB/WB	Speed	Air Flow Rate		42/58 (°F); 5.5/14.4 (°C)							
					Total Cooling		Sensible Cooling		Water Flow rate		Water Pressure drop	
			m³/h	CFM	(X 1.000 Btu/Hr)	kW	(X 1.000 Btu/Hr)	kW	GPM	L/S	Ft.wg	kPa
76/63	HI	3398	2000	55171	16.17	44609	13.07	7.20	0.45	5.80	17.34	
	MED	3126	1840	45848	13.43	36415	10.67	5.99	0.38	3.87	11.58	
	LOW	2803	1650	43077	12.62	34139	10.00	5.59	0.35	3.25	9.72	
80/63	HI	3398	2000	59766	17.51	53712	15.74	7.59	0.48	6.81	20.37	
	MED	3126	1840	49563	14.52	43698	12.80	6.39	0.40	4.49	13.43	
	LOW	2803	1650	46478	13.62	40967	12.00	5.99	0.38	3.87	11.58	
85/63	HI	3398	2000	66945	19.61	65547	19.21	8.79	0.55	8.75	26.16	
	MED	3126	1840	55168	16.16	53257	15.60	7.19	0.45	5.81	17.36	
	LOW	2803	1650	51642	15.13	49616	14.54	6.79	0.43	4.88	14.59	
76/65	HI	3398	2000	62789	18.40	43243	12.67	7.99	0.50	7.74	23.15	
	MED	3126	1840	52397	15.35	35505	10.40	6.79	0.43	5.19	15.51	
	LOW	2803	1650	49249	14.43	33229	9.74	6.39	0.40	4.49	13.43	
80/65	HI	3398	2000	65623	19.23	51892	15.20	8.39	0.53	8.36	25.00	
	MED	3126	1840	54728	16.04	42333	12.40	7.19	0.45	5.50	16.44	
	LOW	2803	1650	51390	15.06	39602	11.60	6.79	0.43	4.88	14.59	
85/65	HI	3398	2000	70346	20.61	62816	18.41	9.19	0.58	9.68	28.94	
	MED	3126	1840	58317	17.09	50981	14.94	7.59	0.48	6.43	19.22	
	LOW	2803	1650	54728	16.04	47795	14.00	7.19	0.45	5.50	16.44	
76/67	HI	3398	2000	72865	21.35	42333	12.40	9.19	0.58	10.69	31.95	
	MED	3126	1840	60962	17.86	35050	10.27	7.99	0.50	7.12	21.30	
	LOW	2803	1650	57310	16.79	32774	9.60	7.59	0.48	6.12	18.29	
80/67	HI	3398	2000	74566	21.85	50526	14.80	9.59	0.61	11.30	33.80	
	MED	3126	1840	62411	18.29	41422	12.14	7.99	0.50	7.43	22.23	
	LOW	2803	1650	58695	17.20	38691	11.34	7.59	0.48	6.43	19.22	
85/67	HI	3398	2000	77463	22.70	60995	17.87	9.99	0.63	11.92	35.65	
	MED	3126	1840	64237	18.82	49616	14.54	8.39	0.53	8.05	24.08	
	LOW	2803	1650	60396	17.70	46429	13.60	7.99	0.50	7.12	21.30	

PERFORMANCE DATA

4FCC238R4A2	Cooling Coil Air Inlet			Entering/Leaving Water Temperature								
	DB/WB	Speed	Air Flow Rate		42/58 (°F); 5.5/14.4 (°C)							
					Total Cooling		Sensible Cooling		Water Flow rate		Water Pressure drop	
			m³/h	CFM	(X 1.000 Btu/Hr)	kW	(X 1.000 Btu/Hr)	kW	GPM	L/S	Ft.wg	kPa
	76/63	HI	4045	2381	71736	21.02	55810	16.35	9.40	0.59	10.10	30.20
MED		3746	2205	59613	17.47	45559	13.35	7.83	0.49	6.74	20.16	
LOW		3313	1950	56010	16.41	42711	12.51	7.30	0.46	5.66	16.93	
80/63	HI	4045	2381	77710	22.77	67199	19.69	9.91	0.63	11.87	35.48	
	MED	3746	2205	64445	18.88	54671	16.02	8.35	0.53	7.82	23.38	
	LOW	3313	1950	60432	17.71	51254	15.02	7.83	0.49	6.74	20.16	
85/63	HI	4045	2381	87046	25.50	82006	24.03	11.48	0.72	15.24	45.56	
	MED	3746	2205	71733	21.02	66630	19.52	9.39	0.59	10.11	30.24	
	LOW	3313	1950	67147	19.67	62074	18.19	8.87	0.56	8.49	25.40	
76/65	HI	4045	2381	81641	23.92	54101	15.85	10.43	0.66	13.48	40.32	
	MED	3746	2205	68130	19.96	44420	13.02	8.87	0.56	9.03	27.01	
	LOW	3313	1950	64035	18.76	41572	12.18	8.35	0.53	7.82	23.38	
80/65	HI	4045	2381	85326	25.00	64921	19.02	10.96	0.69	14.56	43.54	
	MED	3746	2205	71159	20.85	52962	15.52	9.39	0.59	9.57	28.62	
	LOW	3313	1950	66820	19.58	49545	14.52	8.87	0.56	8.49	25.40	
85/65	HI	4045	2381	91467	26.80	78589	23.03	12.00	0.76	16.85	50.39	
	MED	3746	2205	75827	22.22	63782	18.69	9.91	0.63	11.19	33.46	
	LOW	3313	1950	71159	20.85	59796	17.52	9.39	0.59	9.57	28.62	
76/67	HI	4045	2381	94743	27.76	52962	15.52	12.00	0.76	18.61	55.64	
	MED	3746	2205	79266	23.23	43850	12.85	10.43	0.66	12.40	37.09	
	LOW	3313	1950	74517	21.83	41003	12.01	9.91	0.63	10.65	31.85	
80/67	HI	4045	2381	96954	28.41	63213	18.52	12.52	0.79	19.69	58.86	
	MED	3746	2205	81150	23.78	51823	15.18	10.43	0.66	12.94	38.70	
	LOW	3313	1950	76318	22.36	48406	14.18	9.91	0.63	11.19	33.46	
85/67	HI	4045	2381	100721	29.51	76311	22.36	13.04	0.82	20.76	62.09	
	MED	3746	2205	83524	24.47	62074	18.19	10.96	0.69	14.02	41.93	
	LOW	3313	1950	78529	23.01	58087	17.02	10.43	0.66	12.40	37.09	

PERFORMANCE DATA

4FCC322R4A2	Cooling Coil Air Inlet			Entering/Leaving Water Temperature								
	DB/WB	Speed	Air Flow Rate		42/58 (°F); 5.5/14.4 (°C)							
					Total Cooling		Sensible Cooling		Water Flow rate		Water Pressure drop	
			m³/h	CFM	(X 1.000 Btu/Hr)	kW	(X 1.000 Btu/Hr)	kW	GPM	L/S	Ft.wg	kPa
	76/63	HI	5471	3220	90032	26.38	71054	20.82	11.90	0.75	10.80	32.29
MED		5046	2970	74818	21.92	58003	16.99	9.91	0.63	7.21	21.55	
LOW		4485	2640	70296	20.60	54378	15.93	9.25	0.58	6.06	18.11	
80/63	HI	5471	3220	97530	28.58	85554	25.07	12.55	0.79	12.69	37.94	
	MED	5046	2970	80881	23.70	69603	20.39	10.57	0.67	8.36	25.00	
	LOW	4485	2640	75845	22.22	65253	19.12	9.91	0.63	7.21	21.55	
85/63	HI	5471	3220	109246	32.01	104405	30.59	14.53	0.92	16.29	48.71	
	MED	5046	2970	90028	26.38	84829	24.85	11.89	0.75	10.81	32.33	
	LOW	4485	2640	84273	24.69	79029	23.16	11.23	0.71	9.08	27.16	
76/65	HI	5471	3220	102463	30.02	68878	20.18	13.21	0.83	14.42	43.11	
	MED	5046	2970	85506	25.05	56553	16.57	11.23	0.71	9.66	28.88	
	LOW	4485	2640	80367	23.55	52928	15.51	10.57	0.67	8.36	25.00	
80/65	HI	5471	3220	107088	31.38	82654	24.22	13.87	0.88	15.57	46.56	
	MED	5046	2970	89308	26.17	67428	19.76	11.89	0.75	10.24	30.61	
	LOW	4485	2640	83862	24.57	63078	18.48	11.23	0.71	9.08	27.16	
85/65	HI	5471	3220	114796	33.64	100055	29.32	15.19	0.96	18.02	53.89	
	MED	5046	2970	95166	27.88	81204	23.79	12.55	0.79	11.97	35.78	
	LOW	4485	2640	89308	26.17	76129	22.31	11.89	0.75	10.24	30.61	
76/67	HI	5471	3220	118907	34.84	67428	19.76	15.19	0.96	19.90	59.49	
	MED	5046	2970	99483	29.15	55828	16.36	13.21	0.83	13.26	39.66	
	LOW	4485	2640	93522	27.40	52203	15.30	12.55	0.79	11.39	34.06	
80/67	HI	5471	3220	121681	35.65	80479	23.58	15.85	1.00	21.05	62.94	
	MED	5046	2970	101847	29.84	65978	19.33	13.21	0.83	13.84	41.39	
	LOW	4485	2640	95783	28.06	61628	18.06	12.55	0.79	11.97	35.78	
85/67	HI	5471	3220	126409	37.04	97155	28.47	16.51	1.04	22.20	66.39	
	MED	5046	2970	104827	30.71	79029	23.16	13.87	0.88	14.99	44.83	
	LOW	5471	3220	98558	28.88	73954	21.67	13.21	0.83	13.26	39.66	

FAN CHARACTERISTICS - LOW STATIC

Air Flow (CFM)

Model	Speed	External static pressure (Pa)		
		0	25	50
4FCC042R4A2	H	533	483	420
	M	445	403	350
	L	307	278	241
4FCC048R4A2	H	610	552	480
	M	508	460	400
	L	350	317	276
4FCC072R4A2	H	914	828	720
	M	762	690	600
	L	526	476	414
4FCC096R4A2	H	1219	1104	960
	M	1016	920	800
	L	701	634	552
4FCC120R4A2	H	1524	1380	1200
	M	1270	1150	1000
	L	876	793	690
4FCC134R4A2	H	1640	1519	1344
	M	1366	1266	1120
	L	942	873	772

Current (Amps)

Model	Speed	External static pressure (Pa)		
		0	25	50
4FCC042R4A2	H	0.68	0.64	0.54
	M	0.61	0.58	0.49
	L	0.56	0.53	0.45
4FCC048R4A2	H	0.70	0.66	0.56
	M	0.62	0.58	0.50
	L	0.57	0.54	0.46
4FCC072R4A2	H	0.85	0.80	0.68
	M	0.74	0.70	0.59
	L	0.70	0.66	0.56
4FCC096R4A2	H	1.30	1.22	1.04
	M	1.13	1.06	0.90
	L	1.05	0.99	0.84
4FCC120R4A2	H	1.48	1.39	1.19
	M	1.28	1.20	1.02
	L	1.21	1.14	0.97
4FCC134R4A2	H	1.64	1.54	1.31
	M	1.45	1.36	1.16
	L	1.35	1.27	1.08

Input Power (Watts)

Model	Speed	External static pressure (Pa)		
		0	25	50
4FCC042R4A2	H	125	117	100
	M	113	106	90
	L	103	97	83
4FCC048R4A2	H	128	121	103
	M	114	107	91
	L	106	99	84
4FCC072R4A2	H	157	148	126
	M	137	129	109
	L	128	121	103
4FCC096R4A2	H	239	224	191
	M	208	195	166
	L	193	182	155
4FCC120R4A2	H	273	256	218
	M	235	221	188
	L	223	210	179
4FCC134R4A2	H	302	284	242
	M	266	250	213
	L	248	233	199

FAN CHARACTERISTICS - HIGH STATIC

Air Flow (CFM)

Model	Speed	External static pressure (Pa)		
		50	75	100
4FCC139R4A2	H	1396	1198	1030
	M	1200	1030	885
	L	894	767	660
4FCC159R4A2	H	1596	1370	1178
	M	1280	1098	945
	L	1024	879	756
4FCC179R4A2	H	1796	1541	1325
	M	1645	1412	1214
	L	1400	1201	1033
4FCC200R4A2	H	2000	1716	1476
	M	1840	1579	1358
	L	1650	1416	1218
4FCC238R4A2	H	2381	2043	1757
	M	2205	1892	1627
	L	1950	1673	1439
4FCC322R4A2	H	3220	2763	2376
	M	2970	2549	2192
	L	2640	2265	1948

Current (Amps)

Model	Speed	External static pressure (Pa)		
		50	75	100
4FCC139R4A2	H	2.85	2.68	2.28
	M	2.28	2.15	1.83
	L	1.83	1.72	1.46
4FCC159R4A2	H	3.40	3.20	2.72
	M	2.72	2.56	2.18
	L	2.17	2.04	1.74
4FCC179R4A2	H	3.70	3.48	2.96
	M	2.96	2.78	2.37
	L	2.37	2.23	1.90
4FCC200R4A2	H	4.53	4.26	3.62
	M	3.51	3.30	2.80
	L	2.99	2.81	2.39
4FCC238R4A2	H	5.71	5.36	4.57
	M	4.57	4.29	3.65
	L	3.65	3.43	2.92
4FCC322R4A2	H	8.56	8.05	6.85
	M	6.85	6.44	5.48
	L	5.48	5.15	4.38

Input Power (Watts)

Model	Speed	External static pressure (Pa)		
		50	75	100
4FCC139R4A2	H	525	494	420
	M	420	395	336
	L	336	316	269
4FCC159R4A2	H	626	588	501
	M	501	471	401
	L	400	376	320
4FCC179R4A2	H	681	640	545
	M	545	512	436
	L	436	410	349
4FCC200R4A2	H	833	783	666
	M	645	606	516
	L	550	517	440
4FCC238R4A2	H	1050	987	840
	M	840	790	672
	L	672	632	538
4FCC322R4A2	H	1575	1481	1260
	M	1260	1184	1008
	L	1008	948	806

SPECIFIC FAN POWER

Expressed in W/lps
W - Input Power @ 50Pa ESP
LPS - Airflow @ 50 Pa ESP

FCU Model	Airflow		Input Power	Specific Fan Power (SFP)
	CFM	LPS	W	W / LPS
4FCC042R4A2	350	165	90	0.55
4FCC048R4A2	400	189	91	0.48
4FCC072R4A2	600	283	109	0.39
4FCC096R4A2	800	378	166	0.44
4FCC120R4A2	1000	472	188	0.4
4FCC134R4A2	1120	529	213	0.4
4FCC134R4A2	1200	566	420	0.74
4FCC159R4A2	1480	698	501	0.72
4FCC179R4A2	1645	776	545	0.7
4FCC200R4A2	1840	868	645	0.74
4FCC238R4A2	2205	1041	840	0.81
4FCC322R4A2	2970	1402	1260	0.9

SOUND DATA

Unit operating conditions are the following:
Air on coil DBT 76 °F / WBT 64 °F , water at (5.5°C / 14.5°C) (41.9°F/57.9°F) District Cooling
Sound Pressure Level according to ISO 11203 at 1 meter from the unit

Model	ESP in.wg	Speed	Freq [Hz]								Sound Power Level	Sound Pressure Level
			63	125	250	500	1000	2000	4000	8000	dB(A)	dB(A)
			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)		
4FCC 042R4A2	ESP 50 Pa	H	34.5	46.2	50	50.6	49.2	45.6	42.7	34.8	59	46
		M	31.2	36.3	42.2	43.5	40.1	37.2	34.2	29.4	55	41
		L	23.4	28.4	34.6	34.7	32.4	29.8	26.4	21.8	49	35
4FCC 048R4A2	ESP 50 Pa	H	34.5	46.2	50	50.6	49.2	45.6	42.7	34.8	59	46
		M	31.2	36.3	42.2	43.5	40.1	37.2	34.2	29.4	55	41
		L	23.4	28.4	34.6	34.7	32.4	29.8	26.4	21.8	49	35
4FCC 072R4A2	ESP 50 Pa	H	33	44.2	47.9	48.5	47.4	43.8	40.5	32.5	60	46
		M	30.1	35.2	41.1	42.6	38.5	36	34.5	29.5	54	40
		L	25.1	30.4	36.7	36.9	34.3	31.4	28.2	23.7	48	34
4FCC 096R4A2	ESP 50 Pa	H	36.4	48	50.8	51.4	50.4	46.6	43.2	35.2	61	46
		M	33.3	38.5	44.1	45.3	41.7	40.1	37.2	32.2	54	40
		L	30.1	35.4	41.6	41.8	39.1	36.6	33.8	29.7	47	33
4FCC 120R4A2	ESP 50 Pa	H	38.2	46.2	53	53.9	52.7	48.4	45.2	37.2	62	47
		M	34.3	39.4	45.2	46.2	42.8	41.1	37.3	33.3	56	42
		L	32.2	37.3	43.5	43.9	41.2	38.8	35.7	31.9	49	34
4FCC 134R4A2	ESP 50 Pa	H	38.2	46.2	53.1	54	52.8	48.2	45.2	37.2	63	48
		M	36.2	41.2	47.3	48.1	45.1	43.2	39.5	35.5	58	44
		L	32.2	37.3	43.5	43.9	41.2	38.8	35.7	31.9	50	35
4FCC 139R4A2	ESP 50 Pa	H	44.9	51.9	53.7	57.6	61	57.2	55.3	49.4	66	55
		M	43.2	49.2	50.3	54.9	57.3	51.1	51	44.4	62	51
		L	39.3	45.4	44.7	51.1	52.1	47.1	43.7	25.3	57	46
4FCC 159R4A2	ESP 50 Pa	H	46	53	54.8	58.7	62.1	58.3	56.4	50.5	70	59
		M	44.9	50.9	52	56.6	59	52.8	52.7	46.1	68	57
		L	41.2	47.3	46.6	53	54	49	45.6	27.2	65	54
4FCC 179R4A2	ESP 50 Pa	H	46.7	53.7	55.5	59.4	62.8	59	57.1	51.2	70	59
		M	44.4	50.4	51.5	56.1	58.5	52.3	52.2	45.6	68	57
		L	42.3	48.4	47.7	54.1	55.1	50.1	46.7	28.3	65	54
4FCC 200R4A2	ESP 50 Pa	H	47.6	54.4	56.2	60.1	63.5	59.7	57.8	51.9	69	58
		M	45.8	51.8	52.9	57.5	59.9	53.7	53.6	47	65	54
		L	44.7	50.8	50.1	56.5	57.5	52.5	49.1	30.7	63	52
4FCC 238R4A2	ESP 50 Pa	H	47.8	54.7	56.5	60.4	63.8	60	58.1	52.2	69	58
		M	46.1	52.3	53.4	58	60.4	54.2	54.1	47.5	65	54
		L	45.2	51.3	50.6	57	58	53	49.6	31.2	63	52
4FCC 322R4A2	ESP 50 Pa	H	48.1	50.3	62.5	61.3	63.1	61.6	59	52.5	70	59
		M	46.2	50	57	58.2	59.3	56.5	53.8	45.9	66	55
		L	42.2	51.6	55.6	58.8	54.2	54.1	52.4	41.1	64	53

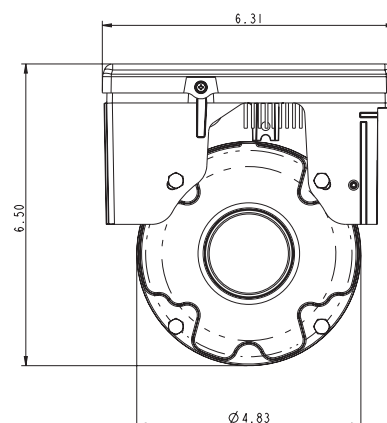
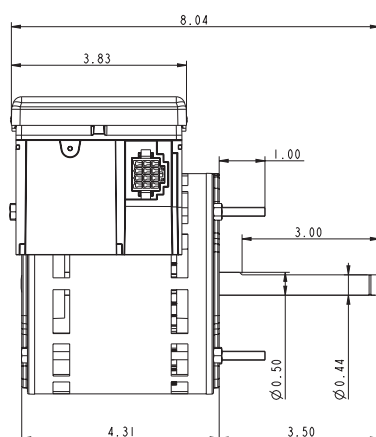
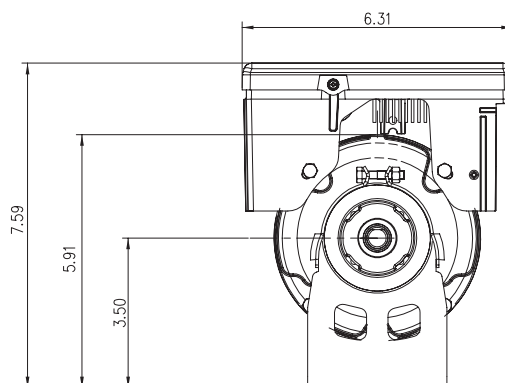
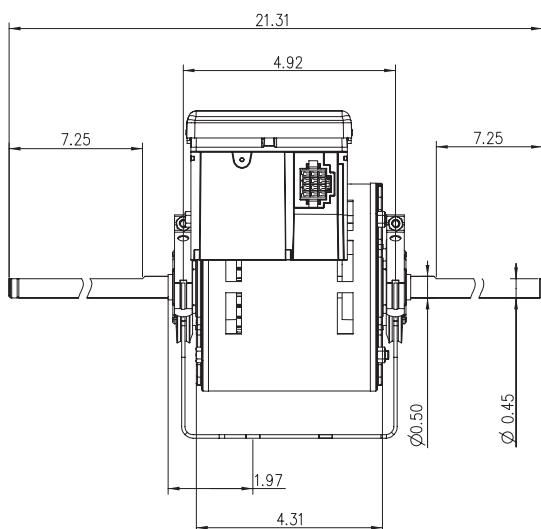
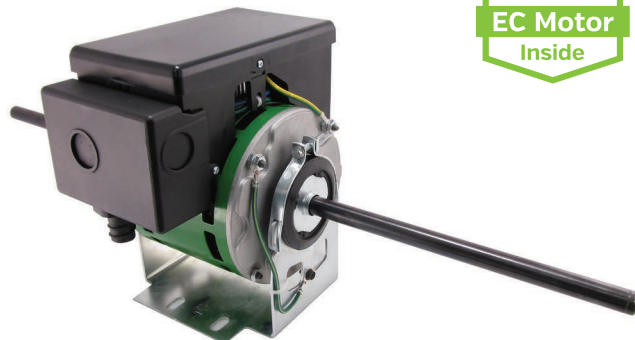
EC motors (optional equipment) - Technical specifications

KEY FEATURES AND BENEFITS:

- Available in single and dual shaft configurations.
- Tri-voltage (115 through 277V) means one model for multiple applications
- Multiple input options compatible with a wide variety of control systems
- Fully programmable to the specific application
- Integrated motor and control.

SPECIFICATIONS:

- **Horsepower:** 1/4 1/8 HP
- **Voltage:** 115/230/277V (tri-voltage)
- **Speeds:** 300-1800 RPM, OR 300-1200 RPM
- **Inputs:** 0-10V, PWM or 3 - 24V Speed Taps
- **Operation Modes:** Constant Torque, Constant Speed
- **Frame:** NEMA *† 42
- **Enclosure:** Open Air Over (OAO)
- **Efficiency:** Up to 80%
- **Mounting:** Resilient, Stud or Belly Band



EC motors characteristics

The data presents performance of EC motor at varying torque requirements, which is determined by ESP parameter RPM value is determined by the room temperature setpoint.
The RPM reduces as the room set point is achieved
The true indicator of EC motor effectiveness is the reduction in power consumption when room set point temperatue is achieved

Tq Demand 1/4 HP	Speed 230V	Torque 50Hz	Vac	Iac	Pac	Shaft Power	System Efficiency
%	(rpm)	(lb-in)	(Vrms)	(Irms)	(W)	(W)	"ShaftPower/Pac (%)"
30	300	4.47	230.67	0.287	28.6	15.93	55.70%
	401	4.52	230.60	0.332	34.6	21.46	62.02%
	499	4.54	230.50	0.375	40.6	26.90	66.26%
	601	4.57	230.50	0.420	46.7	32.51	69.61%
	699	4.61	230.50	0.466	53.1	38.20	71.94%
	801	4.49	230.50	0.502	58.1	42.61	73.34%
	899	4.52	230.50	0.543	64.0	48.22	75.34%
	1002	4.55	230.50	0.593	71.1	54.00	75.95%
	1101	4.58	230.40	0.636	77.2	59.77	77.42%
	1201	4.62	230.40	0.683	83.8	65.73	78.44%
	1302	4.49	230.40	0.707	87.5	69.28	79.18%
	1401	4.52	230.30	0.756	94.5	75.00	79.37%
	1502	4.56	230.38	0.810	101.5	81.41	80.21%
	1600	4.58	230.30	0.850	107.7	86.89	80.68%
	1702	4.62	230.30	0.901	114.8	93.12	81.11%
	1755	4.64	230.40	0.997	117.7	96.54	82.02%
40	304	6.01	230.6	0.354	37.50	21.60	57.60%
	401	6.06	230.6	0.410	45.20	28.75	63.61%
	500	6.09	230.56	0.467	53.10	36.11	68.00%
	600	6.14	230.5	0.525	61.40	43.60	71.01%
	702	6.18	230.4	0.586	70.00	51.44	73.49%
	801	6.23	230.4	0.640	78.60	59.06	75.14%
	901	6.27	230.4	0.704	87.00	66.97	76.98%
	999	6.32	230.3	0.769	96.20	74.95	77.91%
	1101	6.37	230.3	0.830	104.90	83.03	79.15%
	1200	6.42	230.3	0.895	113.80	91.24	80.18%
	1305	6.47	230.2	0.964	123.60	99.98	80.89%
	1400	6.51	230.2	1.031	132.90	108.07	81.32%
	1506	6.56	230.2	1.170	144.60	117.03	80.93%
	1603	6.62	230.2	1.178	153.20	125.60	81.98%
	1694	6.66	230.2	1.240	161.90	133.70	82.58%
	1785	5.90	230.3	1.242	157.30	124.40	79.08%
50	303	7.52	230.60	0.424	47.0	27.00	57.45%
	400	7.50	230.50	0.490	56.1	35.58	63.42%
	500	7.54	230.50	0.558	65.9	44.69	67.81%
	600	7.51	230.40	0.622	75.0	53.67	71.56%
	702	7.56	230.40	0.690	85.4	62.78	73.51%
	799	7.51	230.30	0.757	94.4	71.10	75.32%
	900	7.55	230.37	0.827	104.3	80.52	77.20%
	999	7.51	230.30	0.890	113.2	88.80	78.45%
	1100	7.49	230.30	0.959	122.8	97.61	79.49%
	1202	7.54	230.20	1.033	133.1	107.36	80.66%
	1302	7.51	230.20	1.103	142.8	115.80	81.09%
	1398	7.56	230.20	1.182	153.7	125.10	81.39%
	1499	7.51	230.20	1.240	161.9	133.30	82.33%
	1602	7.57	230.20	1.327	174.0	143.29	82.35%
	1707	7.51	230.19	1.404	184.6	151.70	82.18%
	1750	7.53	230.18	1.432	188.1	155.96	82.91%

EC motors characteristics

The data presents performance of EC motor at varying torque requirements, which is determined by ESP parameter RPM value is determined by the room temperature setpoint.
The RPM reduces as the room set point is achieved
The true indicator of EC motor effectiveness is the reduction in power consumption when room set point temperatue is achieved

Tq Demand 1/4 HP	Speed 230V	Torque 50Hz	Vac	Iac	Pac	Shaft Power	System Efficiency
%	(rpm)	(lb-in)	(Vrms)	(Irms)	(W)	(W)	"ShaftPower/Pac (%)"
60	301	9.07	230.54	0.499	57.40	32.36	56.38%
	400	9.02	230.5	0.575	68.20	42.83	62.80%
	501	9.07	230.44	0.657	80.00	53.77	67.21%
	601	9.03	230.39	0.735	91.20	64.27	70.47%
	702	908.00	230.36	0.820	103.30	75.48	73.07%
	796	9.04	230.3	0.893	113.60	85.28	75.07%
	900	9.10	230.2	0.986	126.50	97.01	76.69%
	1000	9.16	230.27	1.079	139.30	108.40	77.82%
	1099	8.99	230.2	1.137	147.30	117.01	79.44%
	1200	9.04	230.2	1.233	160.80	128.50	79.91%
	1302	9.09	230.2	1.320	173.00	140.30	81.10%
	1399	9.05	230.1	1.397	183.80	149.80	81.50%
	1498	9.09	230.16	1.486	196.30	161.20	82.12%
70	1606	8.99	230.14	1.573	208.50	171.08	82.05%
	301	10.50	230.40	0.557	66.4	37.73	56.82%
	402	10.47	230.41	0.644	78.8	49.86	63.27%
	500	10.54	230.35	0.738	92.4	62.43	67.56%
	600	10.62	230.30	0.837	106.4	75.43	70.89%
	701	10.55	230.28	0.930	119.6	87.59	73.24%
	800	10.62	230.20	1.031	133.6	100.62	75.31%
	902	10.54	230.21	1.122	146.4	112.49	76.84%
	1002	10.52	230.18	1.219	159.9	124.50	77.86%
	1101	10.49	230.16	1.309	175.2	137.10	78.25%
	1201	10.56	230.14	1.415	187.5	150.20	80.11%
	1300	10.54	230.10	1.515	201.3	162.40	80.68%
	1405	10.49	230.09	1.606	214.2	174.40	81.42%
80	1504	10.55	230.07	1.714	229.5	187.70	81.79%
	301	12.11	230.4	0.649	78.90	43.13	54.66%
	400	12.08	230.3	0.749	93.50	57.20	61.18%
	499	12.11	230.3	0.858	109.00	71.500	65.60%
	602	12.19	230.2	0.980	126.30	86.90	68.80%
	699	12.26	230.2	1.093	142.10	101.60	71.50%
	802	12.17	230.17	1.196	156.50	115.50	73.80%
	903	12.24	230.1	1.317	173.50	130.94	75.47%
	1000	12.12	230.12	1.414	186.80	143.57	76.86%
	1104	12.19	230.09	1.537	204.40	159.50	78.03%
	1202	12.11	230.07	1.642	219.2	172.30	78.60%
	1306	12.18	230.03	1.766	236.9	188.10	79.40%
90	300	13.61	230.30	0.742	92.1	48.45	52.61%
	402	13.50	230.20	0.858	108.8	64.24	59.04%
	498	13.57	230.23	0.980	125.9	80.12	63.64%
	600	13.52	230.20	1.100	142.8	95.91	67.16%
	701	13.47	230.18	1.219	159.50	111.80	70.09%
	802	13.56	230.13	1.354	178.30	128.73	72.20%
	903	13.50	230.1	1.471	194.90	144.45	74.11%
	1002	13.58	230.05	1.603	213.60	160.98	75.37%
	1101	13.48	230.06	1.716	229.50	175.70	76.56%
	1197	13.56	230.03	1.855	249.60	192.26	77.03%
100	302	15.04	230.28	0.845	106.8	53.80	50.37%
	403	15.16	230.23	0.992	127.5	72.09	56.54%
	499	15.23	230.17	1.128	146.7	89.96	61.32%
	602	15.32	230.15	1.280	168.1	109.20	64.96%
	700	15.43	230.12	1.430	189.10	127.88	67.63%
	806	15.27	230.09	1.555	207.00	145.87	70.47%
	899	15.39	230.05	1.707	228.40	163.80	71.72%
	1003	15.32	230.01	1.847	248.30	182.55	73.52%

EC motors characteristics

The data presents performance of EC motor at varying torque requirements, which is determined by ESP parameter RPM value is determined by the room temperature setpoint.

The RPM reduces as the room set point is achieved

The true indicator of EC motor effectiveness is the reduction in power consumption when room set point temperature is achieved

Tq Demand 1/8 HP	Speed 230V	Torque 50Hz	Vac	Iac	Pac	Shaft Power	System Efficiency
%	(rpm)	(lb-in)	(Vrms)	(Irms)	(W)	(W)	"ShaftPower/Pac (%)"
30	305	2.25	229.99	0.157	16.5	8.12	49.20%
	407	2.26	229.96	0.184	20.0	10.86	54.32%
	507	2.25	229.93	0.209	23.5	13.51	57.48%
	610	2.25	229.93	0.237	27.2	16.25	59.74%
	696	2.25	229.00	0.261	30.2	18.59	61.56%
	800	2.25	229.87	0.289	34.1	21.30	62.47%
	899	2.25	229.85	0.314	37.3	23.95	64.22%
	999	2.26	229.84	0.342	41.0	26.69	65.09%
	1103	2.26	229.82	0.371	45.0	29.50	65.56%
	1202	2.25	229.81	0.396	48.3	32.85	68.01%
	1306	2.25	229.78	0.423	52.0	34.86	67.04%
	1404	2.25	229.77	0.451	55.7	37.40	67.14%
	1503	2.25	229.74	0.475	59.0	40.12	68.01%
	1602	2.25	229.72	0.504	63.0	42.65	67.70%
	1702	2.25	229.71	0.532	66.8	45.38	67.93%
	1743	2.25	229.70	0.545	68.7	46.46	67.62%
40	298	3.00	230.12	0.182	19.90	10.59	53.23%
	400	3.00	230.11	0.215	24.30	14.21	58.47%
	501	3.00	230.07	0.247	28.60	17.80	62.22%
	604	3.00	230.06	0.289	33.40	21.46	64.24%
	705	3.00	230.03	0.317	37.80	25.055	66.28%
	803	3.00	230	0.349	42.20	28.49	67.51%
	903	3.00	229.98	0.385	47.00	32.09	68.28%
	1004	3.00	229.95	0.419	51.60	35.68	69.14%
	1108	3.00	229.93	0.462	57.50	39.43	68.57%
	1197	3.00	229.98	0.480	60.00	42.47	70.78%
	1302	3.00	229.89	0.517	65.10	46.26	71.05%
	1402	3.00	229.86	0.552	70.00	49.86	71.23%
	1498	3.00	229.82	0.582	74.20	53.19	71.68%
	1615	3.00	229.79	0.617	79.00	57.34	72.58%
	1712	3.00	229.78	0.656	84.60	60.87	71.95%
	1742	3.00	229.76	0.670	86.40	61.87	71.60%
50	304	3.75	229.94	0.216	24.4	13.49	55.30%
	405	3.75	229.89	0.256	29.6	18.01	60.83%
	506	3.75	229.87	0.293	34.6	22.49	64.99%
	604	3.75	229.83	0.333	39.9	26.81	67.20%
	703	3.75	229.83	0.373	45.2	31.25	69.13%
	805	3.75	229.78	0.414	50.8	35.68	70.23%
	905	3.75	229.77	0.452	55.9	40.23	71.96%
	1004	3.75	229.73	0.489	60.9	44.56	73.17%
	1107	3.75	229.00	0.531	66.8	49.13	73.54%
	1202	3.75	229.66	0.567	71.8	53.32	74.26%
	1303	3.75	229.64	0.606	77.3	57.90	74.89%
	1399	3.75	229.61	0.642	82.4	62.12	75.39%
	1504	3.75	229.58	0.683	88.1	66.79	75.81%
	1608	3.75	229.55	0.721	93.3	71.39	76.51%
	1695	3.75	229.52	0.760	99.0	75.20	75.96%
	1742	3.76	229.51	0.776	101.2	77.47	76.55%

EC motors characteristics

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The RPM reduces as the room set point is achieved
The true indicator of EC motor effectiveness is the reduction in power consumption when room set point temperatue is achieved

Tq Demand 1/8 HP	Speed 230V	Torque 50Hz	Vac	Iac	Pac	Shaft Power	System Efficiency
%	(rpm)	(lb-in)	(Vrms)	(Irms)	(W)	(W)	"ShaftPower/Pac (%)"
60	306	4.51	230.1	0.247	28.50	16.29	57.14%
	404	4.50	230.5	0.292	34.40	21.49	62.47%
	498	4.50	230	0.336	40.30	26.54	65.85%
	599	4.50	229.9	0.384	46.80	31.93	68.23%
	701	4.50	229.95	0.430	53.00	37.31	70.40%
	803	4.50	229.92	0.477	59.50	42.80	71.93%
	906	4.50	229.88	0.525	66.10	48.29	73.06%
	1007	4.45	229.84	0.572	72.70	53.67	73.82%
	1095	4.50	229.83	0.609	77.90	58.33	74.88%
	1201	4.50	229.79	0.658	84.70	63.97	75.53%
	1300	4.50	229.75	0.703	91.10	69.28	76.05%
	1402	4.50	229.72	0.748	97.50	74.88	76.80%
	1500	4.50	229.66	0.797	104.50	80.01	76.56%
	1598	4.50	229.63	0.841	110.70	85.17	76.94%
70	1610	4.50	229.64	0.865	113.70	85.78	75.44%
	302	5.25	229.88	0.281	32.9	18.78	57.08%
	406	5.25	229.86	0.336	40.2	25.24	62.78%
	507	5.25	229.89	0.387	47.1	31.52	66.93%
	605	5.25	229.77	0.440	54.2	37.60	69.37%
	702	5.25	229.73	0.488	60.8	43.86	72.13%
	803	5.25	229.70	0.515	68.3	49.91	73.07%
	904	5.25	229.66	0.594	75.6	56.19	74.33%
	1005	5.25	229.68	0.649	82.7	62.50	75.57%
	1099	5.25	229.57	0.691	89.2	68.39	76.67%
	1207	5.25	229.54	0.746	97.0	75.00	77.32%
	1302	5.25	229.51	0.791	103.3	80.91	78.32%
	1402	5.25	229.47	0.843	110.6	87.13	78.78%
	1498	5.25	229.44	0.894	117.6	93.07	79.14%
80	1483	5.25	229.43	0.905	119.8	92.26	77.01%
	1498	5.25	229.44	0.894	117.6	93.07	79.14%
	1483	5.25	229.43	0.905	119.8	92.26	77.01%
	506	6.00	229.99	0.435	53.70	35.91	66.87%
	608	6.00	229.89	0.495	61.90	43.21	69.81%
	699	6.00	229.86	0.548	69.20	49.65	71.74%
	802	5.99	229.8	0.606	77.40	56.80	73.39%
	903	6.00	229.7	0.664	85.60	64.13	74.92%
	1000	6.00	229.73	0.720	93.50	71.08	76.02%
	1102	6.00	229.68	0.779	101.80	78.29	76.90%
	1204	6.00	229.64	0.839	110.20	85.53	77.61%
90	1301	6.00	229.61	0.891	117.60	92.30	78.49%
	1317	6.00	229.62	0.902	119.00	93.57	78.63%
	306	6.75	229.83	0.356	42.9	24.49	57.07%
	402	6.75	229.77	0.418	51.2	32.09	62.68%
	503	6.75	229.73	0.484	60.2	40.20	66.78%
	605	6.75	229.69	0.549	69.2	48.29	69.79%
	704	6.75	229.64	0.611	77.9	56.24	72.20%
	802	6.75	229.59	0.675	86.9	64.10	73.76%
	902	6.75	229.55	0.736	95.5	72.02	75.42%
	1003	6.75	229.50	0.803	105.0	80.14	76.32%
	1104	6.75	229.45	0.864	113.4	88.19	77.77%
100	1204	6.75	229.43	0.929	122.5	96.22	78.54%
	1191	6.75	229.43	0.921	121.4	95.22	78.43%
	302	7.50	229.98	0.391	47.60	26.78	56.25%
	401	7.50	229.93	0.461	57.20	35.56	62.17%
	500	7.50	229.87	0.531	66.90	44.43	66.41%
	601	7.50	229.8	0.604	77.00	53.34	69.28%
	703	7.50	229.77	0.674	87.00	62.37	71.69%
	799	7.50	229.72	0.743	96.70	70.98	73.40%
	898	7.50	229.67	0.811	106.20	79.74	75.09%
	1004	7.50	229.64	0.885	116.60	89.12	76.44%
	1074	7.50	229.62	0.922	121.70	95.37	78.36%

MECHANICAL SPECIFICATION

HVAC Mechanical Specification

Size Range: 350 – 2950 Nominal CFM

Part 1 – General

1.1 System Description

The fan coil units are blow through type factory assembled, chilled water cooling coil with integral fan type horizontal mounting with filter. Unit is complete with chilled water coil, fan(s), motor(s), drain pan, cleanable filters and all required wiring, collars for ducted units. Standard unit provided with factory installed rear return section.

1.2 Quality Assurance

Units are manufactured in a facility registered to the ISO 9001 manufacturing quality standard. All units shall be as per Eurovent standards.

Part 2 - Products

2.1 Cabinets

The cabinets are fabricated from continuous galvanized steel sheet metal varying from 0.8 to 1.0mm thickness. Panels are easily removable.

Standard units are provided with thermal insulation on supply air side. Standard unit lined with 6mm closed cell rubber insulation complying with BS 476 part 6 & 7 and ASTM D3575-91. Insulation are fire rated to Class 0 & Class 1 with density ranging from 50-70Kg/m³.

2.2 Cooling coil

Standard unit is equipped with a 4-row cooling coil for installation in a 2-pipe system. Coils have 0.28mm thick copper tubes, aluminium fins of 0.105mm thickness bonded to the tubes by mechanical expansion. Each coil has a manual air vent. Units comes with an extended drain pan covers entire length & width of coil. Each coil is factory tested for leakage at 350 psig nitrogen pressure with coil submerged in water.

2.3 Blower

Fans are forward curved centrifugal type direct driven of double inlet, statically and dynamically balanced to ensure quiet operation. Fan impeller and scroll are made of galvanized steel.

2.4 Motors

Motors are single phase, 3 speed High-Medium-Low, operates at 220-240V/1 Phase/50 Hz with internal thermal protection permanent split capacity and lubricated sleeve bearing. All internal wiring is inside the flexible conduit. Motors comply and tested to IEC 60335-1 standards.

2.5 Filter

All Units are provided with 12.5 mm, Aluminum Mesh filter as a standard. 25mm Filter can be provided as an optional feature.

2.6 Drain Pan

Drain pans are fabricated from heavy gauge 0.8mm thick galvanized steel. Drain pan is powder coated to RAL 9002 on both sides and insulated with 3mm closed cell rubber foam insulation to prevent condensation. Extended drain pan as a standard feature. SS Drain Pan can be provided as an optional feature.



Note: Due to our policy of innovation some specification may be changed without any prior notification.

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