



FCDA

Chilled Water Fan Coil Units

DC Motor Concealed Type 400-2,000 CFM

FCDA Series 50 Hz

TRANE
TECHNOLOGIES



FCDA – Chilled water fan coil unit with DC motor technology

FDCA latest chilled water FCU with DC motor technology that can help save energy with smoother and quieter operation to provide maximum comfort.

Unit Casing

constructed of galvanized steel. Interior surface of unit panels are acoustically and thermally insulated with polyethylene foam. Return plenum as standard for FCDA14-20.



Digital Wired Control

Fans

are double width, double inlet and centrifugal type. All fans are statically and dynamically balanced and tested from factory.

Coils

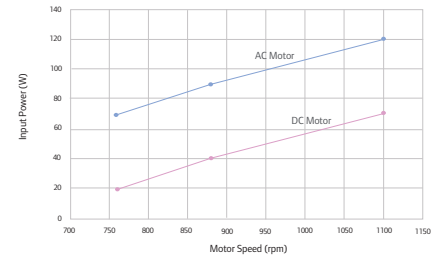
are 3-row type as standard design together with 4-row design as option. High efficient aluminum fins are mechanically bonded to seamless copper tubes. All coils are specially designed and circuited for chilled water use and are pressure leak tested at 380 psig.

Drain Pan

3-layer drain pan is integrally attached to coil casings. Drain pan covers the entire coil. The inner side is plastic insulated with PS foam galvanized steel as the outer side to protect drain pan.

DC Motor

4-speed DC motor with direct drive type is provided with ease of control and operation by digital wired control to provide maximum comfort and energy savings.



Options

- Return air plenum with PP-Net filter for FCDA04-12 models.
- Control valve completely installed from factory.

General Data FCDA 50 Hz

Product Specification

MODEL	FCDA04	FCDA06	FCDA08	FCDA10	FCDA12	FCDA14	FCDA16	FCDA18	FCDA20
Rated - Volts/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
System Data									
Nominal Airflow	cfm	400	600	800	1,000	1,200	1,400	1,600	2,000
Cooling Capacity	Btu/h	12,000	18,000	24,000	30,000	36,000	42,000	48,000	60,000
Water Inlet Connection Size	in	5/8	5/8	5/8	5/8	5/8	3/4	3/4	3/4
Water Outlet Connection Size	in	5/8	5/8	5/8	5/8	5/8	3/4	3/4	3/4
Water Connection Size		Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed
INDOOR COIL									
Fin Type		Corrugate							
Fins per inch*									
3-Row coil		12	12	15	18	18	14	14	14
4-Row coil		14	15	16	15	15	16	16	16
Drain Connection Size	in	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
FAN									
Fan Type		Double Inlet Centrifugal Forward Curved Fan							
Qty		2	2	2	2	2	2	2	2
Drive Type		Direct	Direct	Direct	Direct	Direct	Direct	Direct	Direct
FAN MOTOR (STANDARD)									
No. of Speed		4	4	4	4	4	4	4	4
RLA	A	0.30	0.51	0.70	1.20	1.28	3.25	4.08	4.08
DIMENSION (HxWxD)									
Uncrated w/o (Net)	mm	230 x 945 x 445	260 x 945 x 445	260 x 1,100 x 445	260 x 1,100 x 509	260 x 1,250 x 509	410 x 1,100 x 700	410 x 1,100 x 700	410 x 1,250 x 700
WEIGHT									
3-Row Uncrated (Net)	kg	17	20	23	26	28	49	49	56
4-Row Uncrated (Net)	kg	18	22	25	28	30	52	52	60

*Note: 1. 3-Row coil is standard coil.

2. 4-Row coil is optional coil.

3. Unit dimensions is not included hanging legs.

4. Blower size for HFCA08 will be 7x8 in when using with optional high static motor.

TC = Total Capacity, MBH
SC = Sensible Capacity, MBH
GPM = Water Flow Rate, gpm
PD = Water Pressure Drop, Ft. of Water
EWT = Entering Water Temperature
WTR = Water Temperature Rise

Performance Data - Cooling Capacities

Model FCDA04-20

Cooling Capacity for 3-Row Coil

EWT (F)	Unit Size	Rated Airflow CFM	WTR	Entering Air Temp - EDB/EWB (F)													
				74/63								80/67					
				TC	SC	GPM	PD	TC	SC	GPM	PD	TC	SC	GPM	PD	TC	SC
45	04	400	8	8.46	7.29	2.11	5.18	10.04	7.78	2.50	6.97	13.82	9.65	3.44	12.15	18.08	10.80
			10	7.51	6.90	1.50	2.85	8.96	7.34	1.79	3.87	12.66	9.18	2.52	7.04	16.85	10.32
			12	6.52	6.24	1.08	1.62	7.85	6.90	1.30	2.23	11.48	8.73	1.91	4.31	15.53	9.81
	06	600	15	4.75	4.68	0.63	0.63	6.01	5.73	0.80	0.95	9.66	8.04	1.28	2.16	13.41	9.03
			8	12.04	10.59	3.00	4.10	14.30	11.28	3.56	5.52	19.75	14.00	4.92	9.68	25.93	15.65
			10	10.57	9.98	2.11	2.21	12.63	10.61	2.52	3.01	18.00	13.30	3.59	5.56	24.04	14.92
	08	800	12	8.97	8.56	1.49	1.21	10.88	9.92	1.81	1.69	16.19	12.60	2.69	3.35	21.99	14.15
			15	6.17	6.09	0.82	0.43	7.67	7.55	1.02	0.62	13.31	11.54	1.77	1.61	18.73	12.97
			8	16.61	15.90	4.14	8.79	19.62	16.98	4.89	11.74	26.76	21.69	6.67	20.17	34.83	23.51
	10	1000	10	14.99	14.26	2.99	4.97	17.80	16.13	3.55	6.69	24.76	20.08	4.94	11.87	32.66	22.52
			12	13.29	13.21	2.21	2.93	15.90	15.25	2.64	3.99	22.78	19.18	3.78	7.45	30.32	21.48
			15	10.36	10.26	1.38	1.29	12.80	12.66	1.70	1.85	19.68	17.82	2.62	3.90	26.81	19.97
	12	1200	8	21.50	20.60	5.36	5.94	25.29	22.26	6.30	7.87	34.55	27.03	8.61	13.56	44.81	30.03
			10	19.12	18.53	3.81	3.27	22.65	21.08	4.51	4.39	31.70	25.77	6.32	7.87	41.53	28.62
			12	16.15	15.75	2.68	1.77	19.81	19.45	3.29	2.53	28.86	24.55	4.79	4.84	38.25	27.26
45	14	1400	15	11.12	11.00	1.48	0.63	14.80	14.64	1.97	1.03	24.26	22.63	3.23	2.42	33.74	25.23
			8	26.33	24.96	6.56	9.87	30.81	26.55	7.67	12.98	41.53	32.82	10.34	21.85	53.33	36.56
			10	23.83	23.80	4.75	5.60	27.95	25.25	5.57	7.39	38.35	31.38	7.64	12.81	49.72	34.95
	16	1600	12	21.18	21.15	3.52	3.31	25.03	23.94	4.16	4.42	35.25	30.01	5.86	8.01	46.11	33.37
			15	16.50	16.46	2.19	1.45	20.18	19.95	2.68	2.06	30.52	27.98	4.06	4.20	40.71	31.09
			8	28.14	25.12	7.01	3.58	33.38	26.73	8.31	4.81	46.18	33.14	11.50	8.45	60.74	37.03
	18	1800	10	24.39	23.61	4.87	1.89	29.21	25.06	5.82	2.58	42.03	31.47	8.41	4.82	55.93	35.18
			12	19.98	19.72	3.32	0.97	24.63	23.29	4.09	1.39	37.38	29.76	6.21	2.86	50.86	33.30
			15	13.27	13.09	1.76	0.33	15.03	14.81	2.00	0.40	29.94	27.02	3.98	1.32	42.73	30.40
	20	2000	8	30.78	27.86	7.67	4.18	36.34	29.55	9.05	5.57	50.14	36.51	12.49	9.75	65.95	40.67
			10	26.90	26.28	5.36	2.23	31.99	27.81	6.38	3.02	48.07	34.74	9.61	5.56	60.58	38.64
			12	22.58	21.51	3.75	1.20	27.31	25.99	4.54	1.67	40.80	32.95	6.78	3.33	55.11	36.63



ทราน (ประเทศไทย)

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MS-SLB-FCDA April 21, 2025

