



**TRANE**<sup>®</sup>



# FCDA

*Chilled Water Fan Coil Units  
DC Motor Concealed Type 400-2,000 CFM  
FCDA Series 50 Hz*

# FCDA – Chilled water fan coil unit with DC motor technology

**FCDA** 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

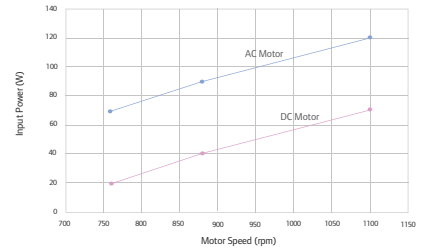
are 3-row type as standard design together with 4-row design as option. High efficient aluminum fins are mechanically bonded to seamless copper tubes. All coils are specially designed and circuted for chilled water use and are pressure leak tested at 380 psig.

## 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	
<b>Rated - Volts/Ph/Hz</b>	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	
<b>System Data</b>										
Nominal Airflow	400	600	800	1,000	1,200	1,400	1,600	1,800	2,000	
Cooling Capacity	12,000	18,000	24,000	30,000	36,000	42,000	48,000	54,000	60,000	
Water Inlet Connection Size	5/8	5/8	5/8	5/8	5/8	3/4	3/4	3/4	3/4	
Water Outlet Connection Size	5/8	5/8	5/8	5/8	5/8	3/4	3/4	3/4	3/4	
Water Connection Size	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	
<b>INDOOR COIL</b>										
Fin Type	Corrugate									
Fins per inch*										
3-Row coil	12	12	15	18	18	14	14	14	14	
4-Row coil	15	16	16	15	15	16	16	16	16	
Drain Connection Size	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
<b>FAN</b>										
Fan Type	Double Inlet Centrifugal Forward Curved Fan									
Qty	2	2	2	2	2	2	2	2	2	
Drive Type	Direct	Direct	Direct	Direct	Direct	Direct	Direct	Direct	Direct	
<b>FAN MOTOR (STANDARD)</b>										
No. of Speed	4	4	4	4	4	4	4	4	4	
RLA	0.30	0.51	0.70	1.20	1.28	3.25	3.25	4.08	4.08	
<b>DIMENSION (HxWxD)</b>										
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	410 x 1,250 x 700
<b>WEIGHT</b>										
3-Row Uncrated (Net)	kg	17	20	23	26	28	49	49	56	56
4-Row Uncrated (Net)	kg	18	22	25	28	30	52	52	60	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 HFCDA8 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)															
				72 /61				74 /63				80 /67							
				TC	SC	GPM	PD	TC	SC	GPM	PD	TC	SC	GPM	PD				
10	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	4.50	19.42
				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	3.36	11.58
				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	2.58	7.28
	06	600	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	6.46	15.56
				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	4.79	9.20
				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	3.65	5.71
	08	800	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	8.68	31.98
				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	6.51	19.25
				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	5.04	12.25
	10	1000	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	11.16	21.37
				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	8.28	12.60
				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	6.35	7.91
12	1200	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	13.29	33.88	
			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	9.91	20.17	
			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	7.66	12.80	
14	1400	8	31.27	30.13	8.29	12.18	36.34	31.27	9.95	15.57	48.07	38.34	12.49	24.85	61.11	43.37	15.15	37.14	
			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	15.13	13.63	
			25.18	23.15	5.82	3.31	30.33	28.33	7.14	5.17	43.25	31.14	10.51	11.81	57.83	35.11	13.11	11.11	
16	1600	8	36.33	32.13	9.05	6.50	42.78	34.10	10.66	8.64	58.68	42.09	14.62	14.98	76.90	46.91	19.15	24.03	
			32.37	30.51	6.45	3.60	38.31	32.28	7.64	4.82	54.10	40.13	10.82	8.66	71.19	44.72	14.19	14.15	
			28.10	26.85	4.67	2.04	33.62	30.45	5.58	2.78	48.84	38.28	8.11	5.32	65.26	42.52	10.84	8.81	
18	1800	8	41.53	34.76	9.77	7.30	45.61	36.80	11.36	9.65	62.53	45.37	15.57	17.33	81.94	50.45	20.41	26.86	
			34.76	33.11	6.93	4.07	40.96	34.94	8.16	5.41	60.04	43.29	12.01	9.65	75.73	48.09	15.09	15.76	
			30.39	29.03	5.05	2.34	36.13	33.05	6.00	3.15	52.09	41.34	8.65	5.95	69.35	45.74	11.52	9.78	
20	2000	8	46.81	38.43	10.66	8.16	50.00	41.53	12.49	11.17	68.81	50.00	17.33	19.15	88.81	55.74	22.41	29.15	
			42.78	40.96	7.30	4.07	45.61	39.45	8.16	5.41	64.04	46.34	13.01	10.66	81.94	51.41	17.33	16.81	
			38.43	36.34	6.13	3.15	40.96	36.34	6.13	3.15	60.04	43.29	12.01	9.65	75.73	48.09	15.09	15.76	



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