

**Chilled Water Ducted Fan Coil Unit**



**MEDIUM STATIC (100 PA EXTERNAL STATIC)**

## Fan coil unit



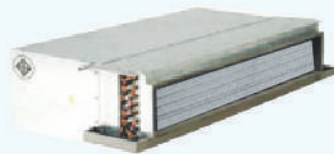
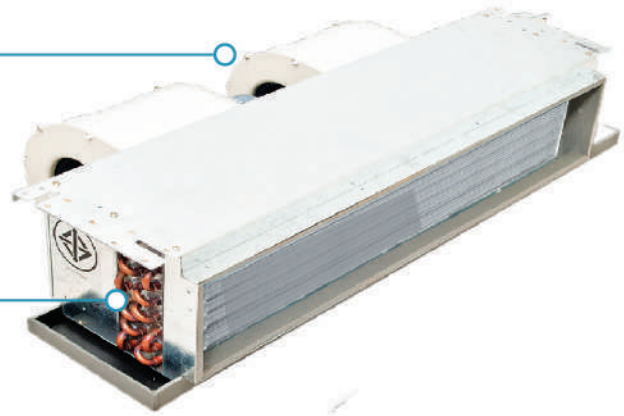
### Turbo Fan

Powerful turbo motor helps fill the coolness to the room quickly yet quietly.



### Copper tube

Plain copper tube.  
Reduce pressure drop



Ducted fan coil with return plenum and air filter

## Thermostat



### options

#### Digital wired thermostat

Modern-designed, easy-to-use digital wired thermostat with LCD display. Can be used as a control signal receiver from wireless remote controller

### options

#### Wireless digital thermostat



#### 4 Speed Motor

4 speeds adjustable wind blow  
Turbo-High-Medium-Low  
For Turbo cool or Quiet cool.



#### ECO Mode

Power saving by automatically setting temperature at 25 °C



#### Turbo Fan

Powerful turbo motor delivers coolness to the room quickly yet quietly.



#### Timer On / Off

24-hour timer for turning on or turning off the air conditioning system



#### Sleep Mode

Adjust suitable temperature for sleeping time



#### 4 Directional airflow

Manually adjustable air vent in 4 directions left - right & upper - lower (Can not be used)

### options



#### Wired digital remote controller WIFI

With WIFI controller, multiple units in a same or different area can be operated from anywhere through internet connection



Residence



Hotel



Office



Other places



# Performance Data

Model	Entering	Entering Air Temp. (° F db/°F wb)															
	Chilled	76/63				78/65				80/67				82/69			
		Total	Sensible	Chilled	Water	Total	Sensible	Chilled	Water	Total	Sensible	Chilled	Water	Total	Sensible	Chilled	Water
	Temp.	Capacity	Capacity	Water	Capacity	Capacity	Water	Pressure	Capacity	Capacity	Water	Pressure	Capacity	Capacity	Water	Pressure	
	°F	(BTUH)	(BTUH)	Flow rate	Drop	(BTUH)	(BTUH)	Flow rate	Drop	(BTUH)	(BTUH)	Flow rate	Drop	(BTUH)	(BTUH)	Flow rate	Drop
MCFHL-13W	40	7,600	6,500	1.52	0.61	10,100	7,500	2.02	0.99	13,400	9,200	2.68	1.65	16,300	10,300	3.26	2.31
	45	9,100	7,700	1.82	1.68	11,400	8,700	2.28	2.50	13,900	9,700	2.78	3.52	16,300	10,600	3.26	4.71
	50	8,800	8,100	1.76	5.36	11,100	9,000	2.22	7.99	13,300	9,800	2.66	11.03	15,700	10,600	3.14	14.64
MCFHL-18W	40	12,300	10,000	2.46	1.61	15,500	11,400	3.10	2.40	18,900	12,800	3.78	3.40	22,200	14,000	4.44	4.53
	45	12,300	10,500	2.46	3.27	15,500	11,800	3.10	4.84	18,500	13,000	3.70	6.65	21,600	14,000	4.32	8.72
	50	11,600	10,800	2.32	9.88	14,500	11,900	2.90	14.56	17,400	12,900	3.48	19.97	20,400	13,800	4.08	26.40
MCFHL-25W	40	18,700	14,700	3.74	3.70	23,300	16,800	4.66	5.44	27,800	18,500	5.56	7.39	32,200	20,100	6.44	9.59
	45	18,100	15,000	3.62	7.05	22,300	16,800	4.46	10.17	26,500	18,300	5.30	13.76	30,800	19,800	6.16	17.89
	50	16,500	15,100	3.30	20.17	20,500	16,500	4.10	29.42	24,500	17,900	4.90	40.15	28,600	19,200	5.72	53.17
MCFHL-30W	40	21,600	17,300	4.32	1.92	26,600	19,500	5.32	2.78	32,500	21,900	6.50	3.94	38,200	24,000	7.64	5.25
	45	21,200	17,900	4.24	3.78	26,600	20,200	5.32	5.61	31,800	22,200	6.36	7.72	37,200	24,000	7.44	10.14
	50	20,100	18,400	4.02	11.50	25,000	20,300	5.00	16.97	30,000	22,100	6.00	23.31	35,200	23,700	7.04	30.85
MCFHL-36W	40	25,700	20,600	5.14	3.14	32,100	23,400	6.42	4.65	38,200	25,900	7.64	6.30	44,400	28,100	8.88	8.22
	45	25,000	21,100	5.00	6.04	30,800	23,500	6.16	8.73	36,600	25,700	7.32	11.83	42,500	27,700	8.50	15.40
	50	22,900	21,300	4.58	17.38	28,300	23,300	5.66	25.42	33,900	25,200	6.78	34.7	39,700	27,100	7.94	45.75
MCFHL-40W	40	29,500	23,700	5.90	4.14	36,500	26,800	7.30	6.04	43,300	29,500	8.66	8.2	50,200	31,900	10.04	10.57
	45	28,300	24,100	5.66	7.79	34,800	26,800	6.96	11.21	41,300	29,200	8.26	15.2	47,900	31,400	9.58	19.71
	50	25,800	24,200	5.16	22.24	32,000	26,500	6.40	32.50	38,200	28,700	7.64	44.4	44,700	30,700	8.94	58.45
MCFHL-50W	40	38,000	29,900	7.60	6.48	46,600	33,600	9.32	9.28	55,100	36,900	11.02	12.5	63,800	39,900	12.76	16.08
	45	36,000	30,000	7.20	11.95	44,100	33,200	8.82	17.01	52,200	36,200	10.44	22.9	60,600	39,000	12.12	29.71
	50	32,500	29,800	6.50	33.44	40,200	32,600	8.04	48.69	48,000	35,300	9.60	66.4	56,200	37,900	11.24	87.35
MCFHL-60W	40	43,600	34,800	8.72	8.26	53,500	39,100	10.70	11.84	63,300	42,900	12.66	15.9	73,300	46,400	14.66	20.56
	45	41,300	35,000	8.26	15.19	50,700	38,900	10.14	21.78	60,100	42,400	12.02	29.4	69,800	45,600	13.96	38.19
	50	38,000	35,500	7.60	44.06	46,600	38,500	9.32	62.96	55,600	41,600	11.12	86.0	65,100	44,600	13.02	113.27

**SPECIFICATION MODEL : MCFHL\_\_W**

Model		MCFHL	13W	18W	25W	30W	36W	40W	50W	60W	
Cooling Capacity		BTUH	13,000	18,000	25,000	30,000	36,000	40,000	50,000	60,000	
		W	3,810	5,275	7,327	8,792	10,551	11,723	14,654	17,584	
Air Flow Rate		CFM	450	600	800	1,000	1,200	1,400	1,600	2,000	
		m³/h	765	1,020	1,359	1,699	2,039	2,379	2,719	3,398	
Water Flow Rate		GPM	2.60	3.60	5.00	6.00	7.20	8.00	10.00	12.00	
		L/s	0.16	0.23	0.32	0.38	0.45	0.50	0.63	0.76	
Power Supply		V/Ph/Hz	220/1/50								
Power Consumption		Watt	213	213	271	271	427	541	427	541	
Rated Current		A	0.97	0.97	1.23	1.23	0.97x2	1.23x2	0.97x2	1.23x2	
Cooling Coil		Face Area	Ft²	2.28	2.57	3.21	2.41	4.00	4.17		
		Type	Aluminium Corrugated Fin With Copper Tube								
		Row...FIN		3...10	3...10	3...12	3...12	3...10	3...10	3...12	3...13
		Tube Size	Inch	3/8							
Fan Motor		Q'ty	1				2				
Power Motor Output		Watt	134		158		134x2	158x2	134x2	158x2	
Fan Blower		Type	Multi Blade Centrifugal Fan								
		Q'ty	2				4				
Control		Type	-								
Air Filter		Type	-								
Connection		water In	Inch (MPT.)	3/4			1				
		water Out	Inch (MPT.)	3/4			1				
		Drain	Inch	3/ 4							
Dimension		Height	mm.	226.5			276				
		Width	mm.	1,118	1,270	1,405		1,693	1,753		
		Depth	mm.	476							510
Weight		Kg	25	27	30	32	34	40	42	43	

\* Shown capacity based on : Entering Air temp. 80° F db /67°F wb  
Chilled water temp inlet/outlet 45/55°F

