KENTATSU

DK11-01.01.11

TECHNICAL SERVICE MANUAL

Fancoil unit
High Static Pressure Duct type

Models:

KFTE65H0EN1

KFTE89H0EN1

KFTE112H0EN1

KFTE120H0EN1

KFTE140H0EN1

KFTE158H0EN1

KFTE200H0EN1

Contents

1. Product Schedule

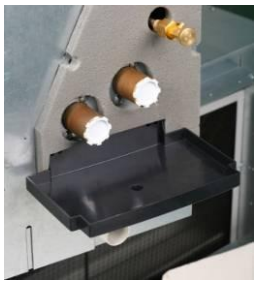
No	Model	External appearance	Net dimension (W×H×D) (unit: mm)	Net weight (kg)	Power supply
1	KFTE65H0EN1		946×400×816	50	220-240V/1ph/50Hz
2	KFTE89H0EN1		946×400×816	52	
3	KFTE112H0EN1		946×400×816	52	
4	KFTE120H0EN1		946×400×816	54	
5	KFTE140H0EN1		1290×400×809	76	
6	KFTE158H0EN1		1290×400×809	76	
7	KFTE200H0EN1		1290×400×809	76	

2. Features

1. High air volume, high static pressure, high capacity
2. Includes air plenum and air filters.

3. Easy to clean or change the air filter.

4. Extra drain pan to protecting your ceiling



3. Specifications

Model			KFTE65H0EN1	KFTE89H0EN1	KFTE112H0EN1	KFTE120H0EN1
Air Volume	High speed	m^3/h	1360	1700	2040	2380
		CFM	800	1000	1200	1400
	Mid speed	m^3/h	1224	1530	1877	2118
		CFM	720	902	1104	1246
	Low speed	m^3/h	1088	1377	1612	1856
		CFM	640	810	948	1092
Capacity (Hi-speed)	Cooling (kW)		6.6	8.8	10	12
	Heating (kW)		9.7	13.2	15	17.9
	Water flow (m^3/h)		1.11	1.51	1.71	2.05
	Hydraulic resistance (kPa)		8	24	24	36
Standard external static pressure (Pa)			70	70	70	70
Fan	Type		Forward curved double inlet centrifugal			
	Quantity		1	1	1	1
	Noise dB(A)		62	61	61	60
Motor	Type		4 speed, low noise capacitance motor			
	Quantity		1	1	1	1
	Power source		220V~240V, 50Hz			
	Power input (W)		350	350	350	350
Coil	Type		copper tube bounded with grilled aluminum fin			
	Working pressure		1.6MPa			
Connection pipe	Water inlet		RC3/4” internal thread			
	Water outlet		RC3/4” internal thread			
	Drainage		ZG3/4” external thread			
Net Dimension (W×H×D)	KFTE_H0EN1		946×400×816	946×400×816	946×400×816	946×400×816
Packing dimension (W×H×D)	KFTE_H0EN1		1015×480×857	1015×480×857	1015×480×857	1015×480×857
Net weight (kg)	KFTE_H0EN1		50	52	52	54
Gross weight (kg)	KFTE_H0EN1		55	57	57	59

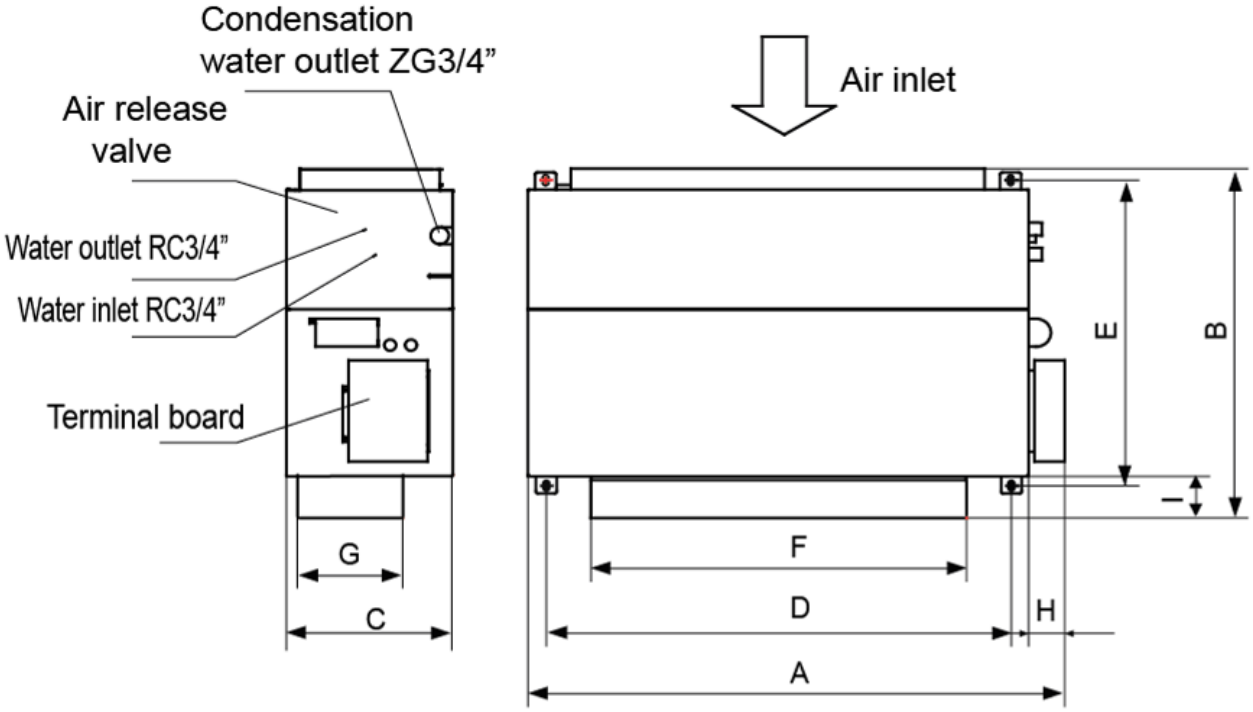
1. All performance data above is based upon 70Pa external static pressure.
2. Cooling capacity test condition: air inlet Temp. : 27DB℃/19WB℃, water inlet Temp. 7℃, water Temp. difference 5℃.
3. Heating capacity test condition: air inlet Temp. : 21DB℃, water inlet Temp. 60℃, the volume of air and water is same as cooling.
4. Noise level is tested in semi-anechoic room.

Model			KFTE140H0EN1	KFTE158H0EN1	KFTE200H0EN1
Air Volume	High speed	m^3/h	2720	3060	3740
		CFM	1600	1800	2200
	Mid speed	m^3/h	2450	2754	3360
		CFM	1441	1620	1980
	Low speed	m^3/h	2170	2448	2990
		CFM	1226	1440	1760
Capacity	Cooling (kW)		14.1	15.8	19.9
	Heating (kW)		21.2	23.8	30
	Water flow (m^3/h)		2.42	2.72	3.43
	Hydraulic resistance (kPa)		52	90	130
Standard external static pressure (Pa)			100	100	100
Fan	Type		Forward curved double inlet centrifugal		
	Quantity		2	2	2
	Noise dB(A) Hi-Speed		62	63	66
Motor	Type		4 speed, low noise capacitance motor		
	Quantity		1	1	1
	Power source		220V~240V, 50Hz		
	Power input (W)		550	800	950
Coil	Type		copper tube bounded with grilled aluminum fin		
	Working pressure		1.6MPa		
Connection pipe	Water inlet		RC3/4” internal thread		
	Water outlet		RC3/4” internal thread		
	Drainage		ZG3/4” external thread		
Net Dimension (W×H×D)	KFTE_H0EN1		1290×400×809	1290×400×809	1290×400×809
Packing dimension (W×H×D)	KFTE_H0EN1		1368×460×877	1368×460×877	1368×460×877
Net weight (kg)	KFTE_H0EN1		76	76	76
Gross weight (kg)	KFTE_H0EN1		83	83	83

Remark:

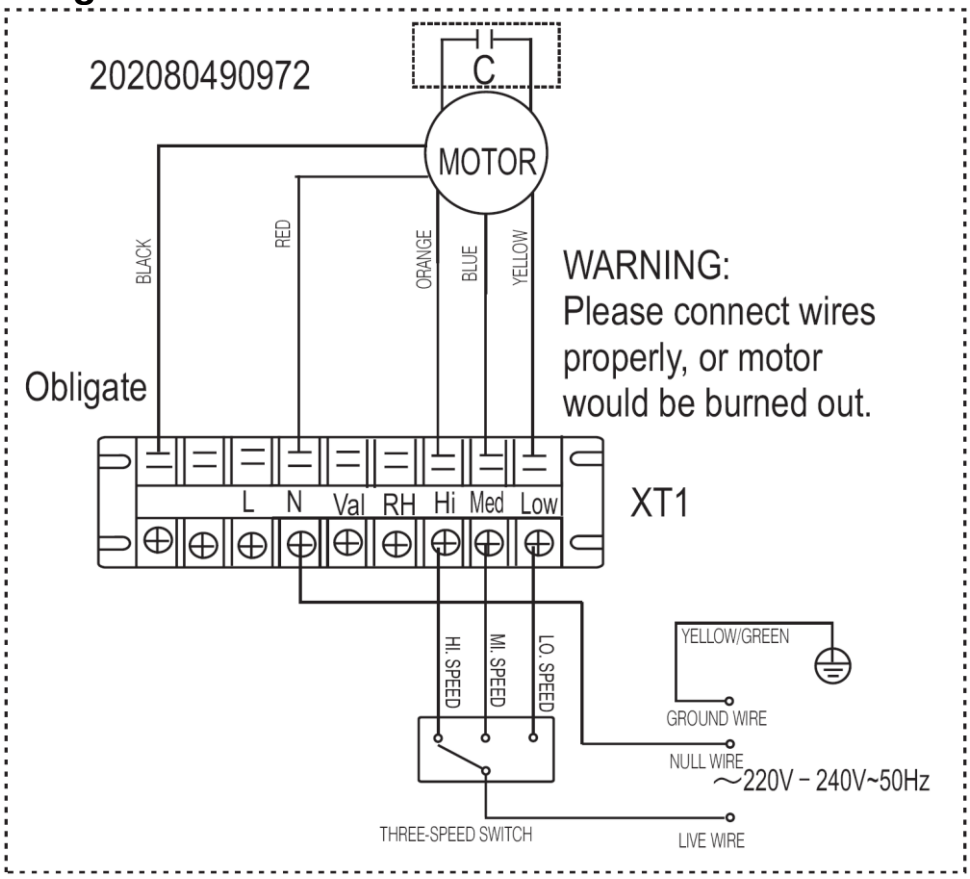
1. All performance data above is based upon 100Pa external static pressure.
2. Cooling capacity test condition: air inlet Temp. : 27DB℃/19WB℃, water inlet Temp. 7℃, water Temp. difference 5℃.
3. Heating capacity test condition: air inlet Temp. : 21DB℃, water inlet Temp. 60℃, the volume of air and water is same as cooling.
4. Noise level is tested in semi-anechoic room.

4. Dimension



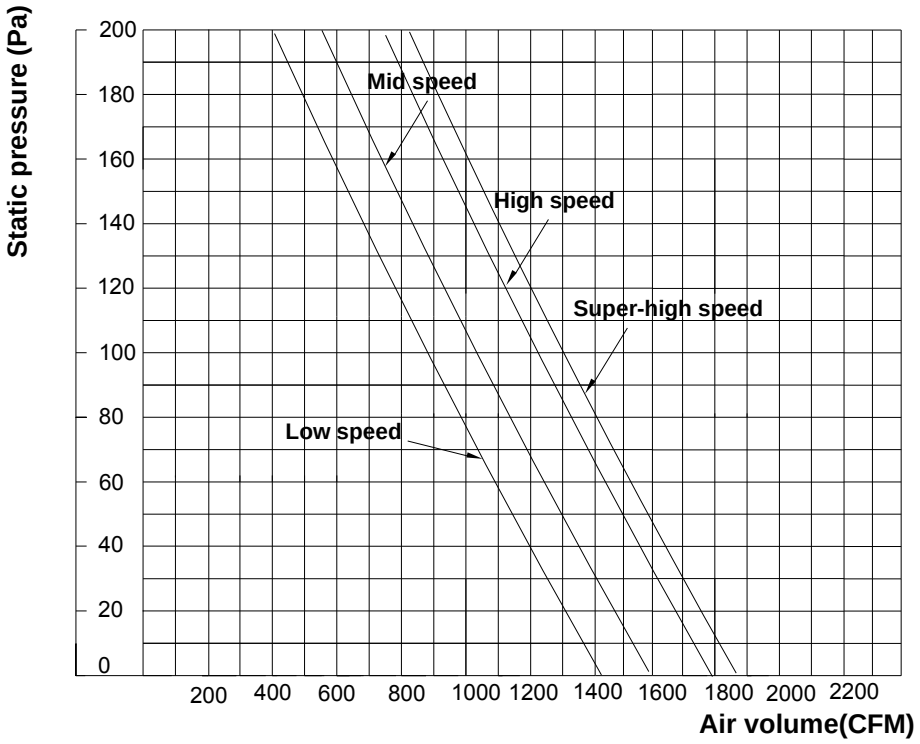
Model / Size	KFTE65H0EN1 KFTE89H0EN1 KFTE112H0EN1 KFTE120H0EN1	KFTE140H0EN1 KFTE158H0EN1 KFTE200H0EN1
A	946	1290
B	816	809
C	400	400
D	778	1118
E	767	765
F	306	900
G	219	249
H	88	88
I	37	39

5. Wiring Diagram

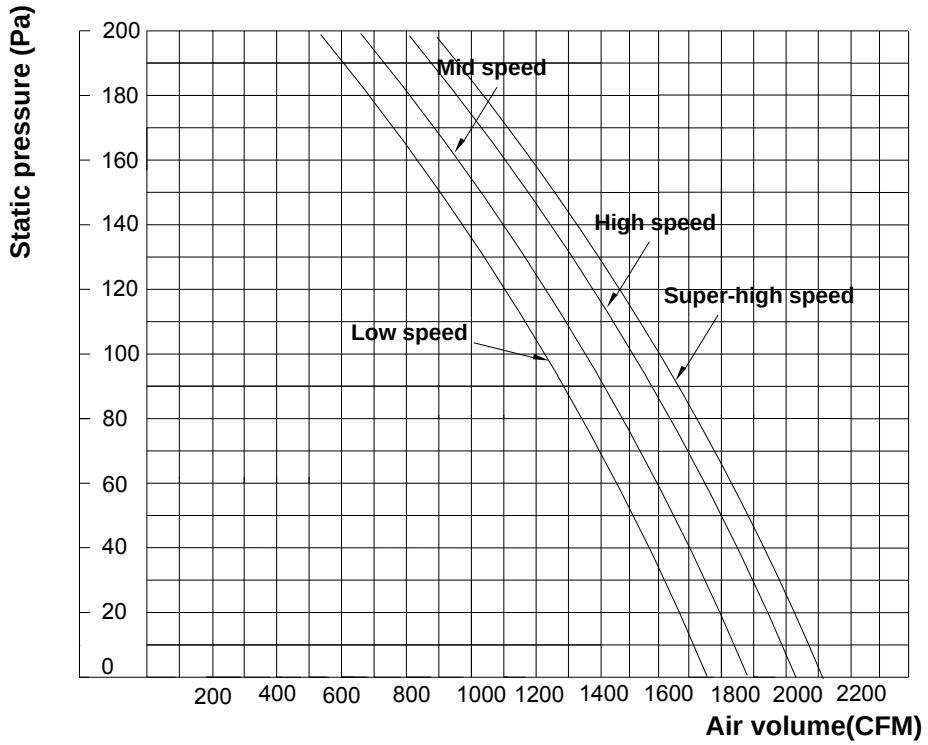


6. Static Pressure Graph

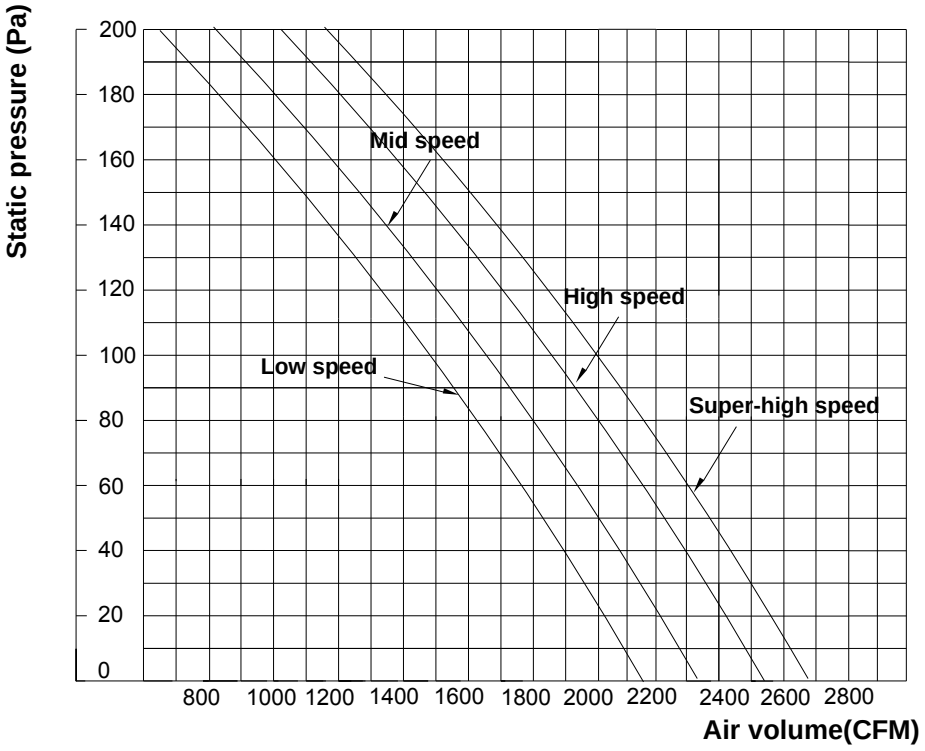
KFTE65H0EN1



KFTE89H0EN1



KFTE112H0EN1



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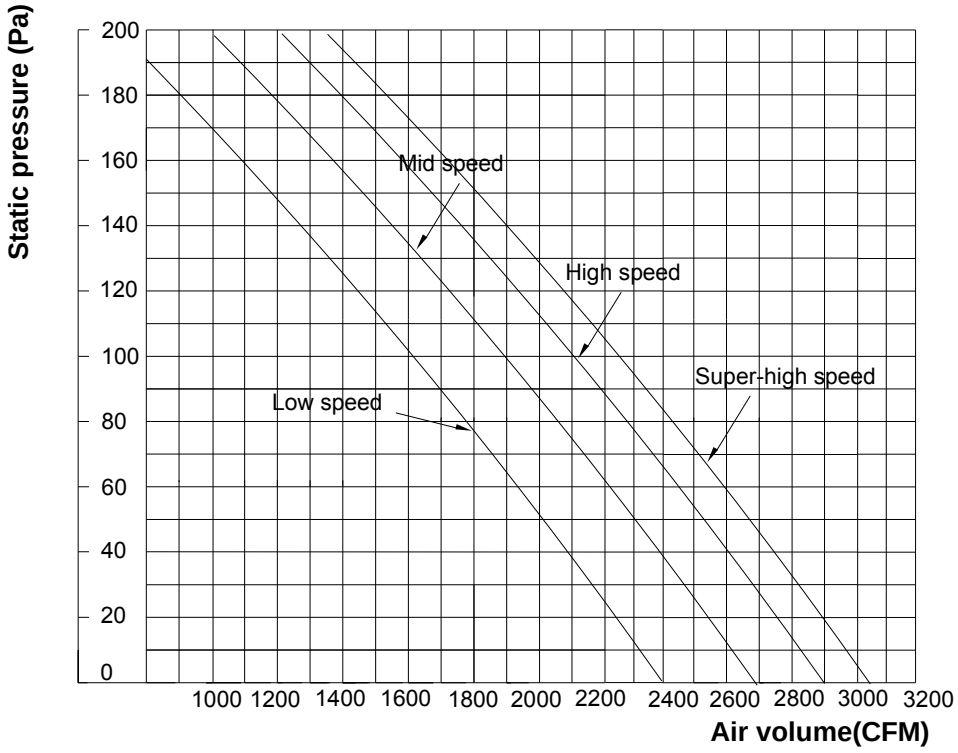
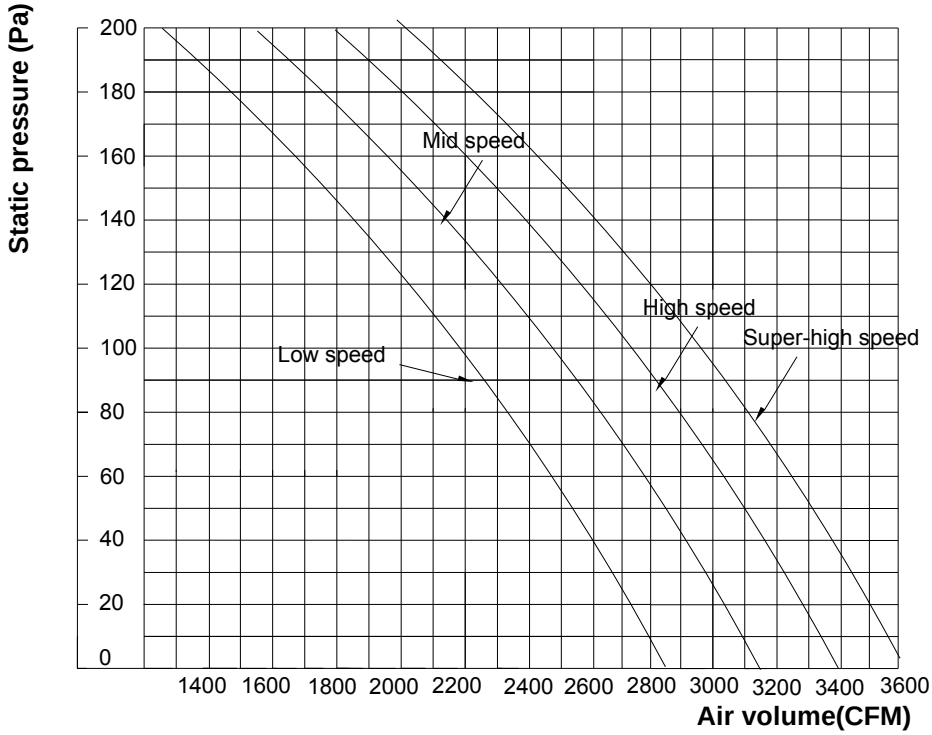
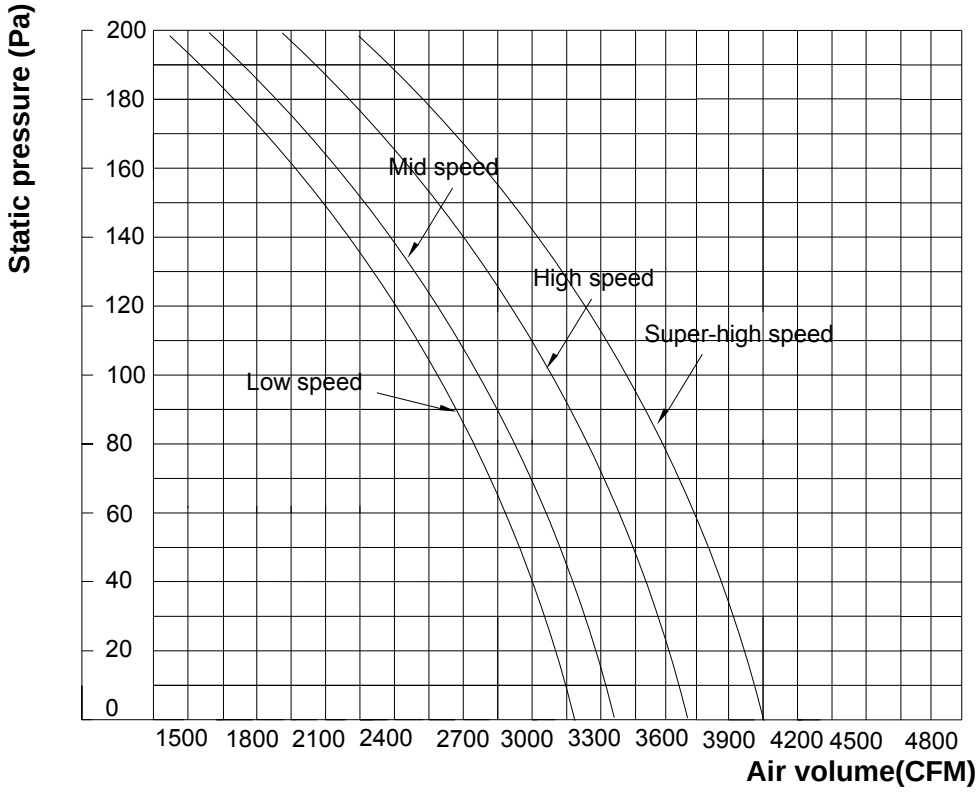


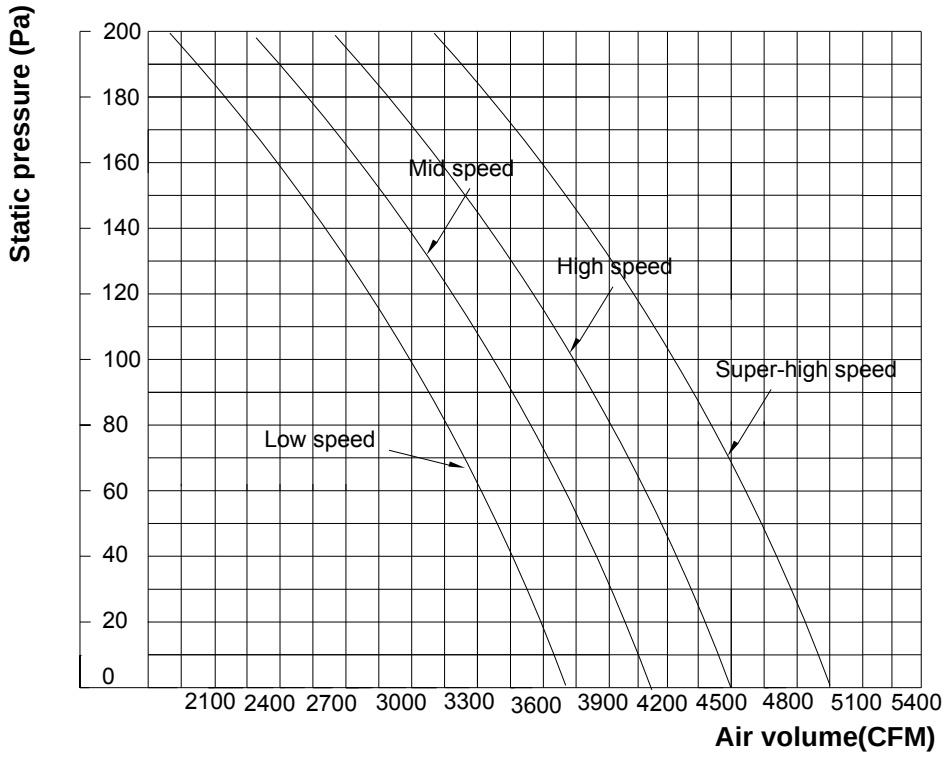
KFTE140H0EN1



KFTE158H0EN1



KFTE200H0EN1



7. Capacity Tables

7.1 Cooling Capacity

Model	Speed	Air On FCU		Water		Delta Water Temp.	ESP	Speed of Fan	Air Flow	Air Off FCU		Capacity		Water Flow	Water Pressure Drop	Weight	Input	
		DB	WB	EWT	LWT					DB	WB	Total	Sens.			CB	PWR	Fan Motors
		℃	℃	℃	℃	℃	Pa	rpm	m^3/h	℃	℃	kW	kW	m^3/h	kPa	kg	W	nos.
KFTE65H0EN1	High	26.7	19.4	7	12	5	0	1290	1797	14.4	13.7	8.2	8.09	1.41	10.15	50	350	1
							30	1290	1597	14.6	13.9	7.62	7.37	1.31	9.43	50	350	1
							70	1290	1360	14.8	14	6.95	6.56	1.2	8.64	50	350	1
				5.5	14.5	9	0	1290	1797	17.3	16.2	4.92	4.85	0.47	3.38	50	350	1
							30	1290	1597	17.6	16.6	4.57	4.42	0.44	3.17	50	350	1
							70	1290	1360	17.8	16.9	4.17	3.94	0.40	2.88	50	350	1
		27	19	7	12	5	0	1290	1797	14.3	13.1	8.57	8.41	1.47	10.58	50	350	1
							30	1290	1597	14.6	13.6	7.84	7.69	1.35	9.72	50	350	1
							70	1290	1360	14.8	13.9	6.5	6.36	1.11	8.00	50	350	1
				5.5	14.5	9	0	1290	1797	16.7	16	5.14	5.05	0.49	3.53	50	350	1
							30	1290	1597	16.9	16.3	4.70	4.61	0.45	3.24	50	350	1
							70	1290	1360	17.1	16.2	3.90	3.82	0.37	2.66	50	350	1
		29	21	7	12	5	0	1290	1797	14.4	13.3	10.99	9.34	1.89	13.61	50	350	1
							30	1290	1597	14.7	13.8	10.18	8.51	1.75	12.60	50	350	1
							70	1290	1360	15	14	9.23	7.57	1.59	11.45	50	350	1
				5.5	14.5	9	0	1290	1797	18	16.8	6.59	5.60	0.63	4.54	50	350	1
							30	1290	1597	18.2	17.1	6.11	5.11	0.58	4.18	50	350	1
							70	1290	1360	18.4	17.4	5.54	4.54	0.53	3.82	50	350	1
	Mid	26.7	19.4	7	12	5	0	1235	1577	14.2	13.2	7.56	7.3	1.3	9.36	50	330	1
							30	1235	1406	14.4	13.5	7.04	6.67	1.21	8.71	50	330	1
							70	1235	1217	14.6	13.8	6.43	5.95	1.1	7.92	50	330	1
				5.5	14.5	9	0	1235	1577	16.5	15.4	4.54	4.38	0.43	3.10	50	330	1
							30	1235	1406	16.8	15.9	4.22	4.00	0.40	2.88	50	330	1
							70	1235	1217	17	16.2	3.86	3.57	0.37	2.66	50	330	1
		27	19	7	12	5	0	1235	1577	13.8	12.7	7.76	7.62	1.33	9.58	50	330	1
							30	1235	1406	14	13.1	7.12	6.98	1.22	8.78	50	330	1
							70	1235	1217	14.3	13.6	6.37	6.25	1.09	7.85	50	330	1
				5.5	14.5	9	0	1235	1577	16.5	15.4	4.66	4.57	0.45	3.24	50	330	1
							30	1235	1406	16.7	15.8	4.27	4.19	0.41	2.95	50	330	1
							70	1235	1217	16.9	16	3.82	3.75	0.37	2.66	50	330	1
		29	21	7	12	5	0	1235	1577	14.2	13	10.10	8.43	1.73	12.46	50	330	1
							30	1235	1406	14.4	13.4	9.36	7.70	1.61	11.59	50	330	1
							70	1235	1217	14.7	13.9	8.51	6.87	1.46	10.51	50	330	1
				5.5	14.5	9	0	1235	1577	17.2	15.7	6.06	5.06	0.58	4.18	50	330	1
							30	1235	1406	17.5	16.2	5.62	4.62	0.54	3.89	50	330	1
							70	1235	1217	18	17.1	5.11	4.12	0.49	3.53	50	330	1

KFTE89H0EN1	Low	26.7	19.4	7	12	5	0	1170	1408	13.3	12.2	7.05	6.67	1.21	8.71	50	310	1
							30	1170	1260	13.6	12.7	6.57	6.11	1.13	8.14	50	310	1
							70	1170	1089	13.9	13	5.99	5.45	1.03	7.42	50	310	1
				5.5	14.5	9	0	1170	1408	16.7	15.5	4.23	4.00	0.40	2.88	50	310	1
							30	1170	1260	17	16	3.94	3.67	0.37	2.66	50	310	1
							70	1170	1089	17.3	16.5	3.59	3.27	0.34	2.45	50	310	1
		27	19	7	12	5	0	1170	1408	13.8	12.9	7.12	6.99	1.22	8.78	50	310	1
							30	1170	1260	14.1	13.4	6.54	6.42	1.12	8.06	50	310	1
							70	1170	1089	14.3	13.7	6.12	5.58	1.05	7.56	50	310	1
				5.5	14.5	9	0	1170	1408	16.5	15.4	4.27	4.19	0.41	2.95	50	310	1
							30	1170	1260	16.7	15.7	3.92	3.85	0.38	2.74	50	310	1
							70	1170	1089	16.9	16	3.67	3.35	0.35	2.52	50	310	1
		29	21	7	12	5	0	1170	1408	13.1	12	9.37	7.71	1.61	11.59	50	310	1
							30	1170	1260	13.5	12.6	8.71	7.06	1.5	10.80	50	310	1
							70	1170	1089	13.8	13	7.89	6.28	1.36	9.79	50	310	1
				5.5	14.5	9	0	1170	1408	17	15.9	5.62	4.63	0.54	3.89	50	310	1
							30	1170	1260	17.3	16.3	5.23	4.24	0.50	3.60	50	310	1
							70	1170	1089	17.6	16.7	4.73	3.77	0.45	3.24	50	310	1
	High	26.7	19.4	7	12	5	0	1290	2109	14.4	13.7	10.66	8.4	1.83	29.10	52	350	1
							30	1290	1923	14.6	13.9	10.03	7.82	1.72	27.35	52	350	1
							70	1290	1700	14.8	14	9.26	7.13	1.59	25.28	52	350	1
				5.5	14.5	9	0	1290	2109	17.3	16.2	6.40	5.04	0.61	9.70	52	350	1
							30	1290	1923	17.6	16.6	6.02	4.69	0.57	9.06	52	350	1
							70	1290	1700	17.8	16.9	5.56	4.28	0.53	8.43	52	350	1
		27	19	7	12	5	0	1290	2109	14.3	13.1	10.14	8.72	1.74	27.67	52	350	1
							30	1290	1923	14.6	13.6	9.56	8.12	1.64	26.08	52	350	1
							70	1290	1700	14.8	13.9	8.8	7.39	1.51	24.00	52	350	1
				5.5	14.5	9	0	1290	2109	16.7	16	6.08	5.23	0.58	9.22	52	350	1
							30	1290	1923	16.9	16.3	5.74	4.87	0.55	8.75	52	350	1
							70	1290	1700	17.1	16.2	5.28	4.43	0.50	7.95	52	350	1
		29	21	7	12	5	0	1290	2109	14.4	13.3	13.43	9.59	2.31	36.73	52	350	1
							30	1290	1923	14.7	13.8	12.62	8.94	2.17	34.50	52	350	1
							70	1290	1700	15	14	11.62	8.14	2	31.80	52	350	1
				5.5	14.5	9	0	1290	2109	18	16.8	8.06	5.75	0.77	12.24	52	350	1
							30	1290	1923	18.2	17.1	7.57	5.36	0.72	11.45	52	350	1
							70	1290	1700	18.4	17.4	6.97	4.88	0.67	10.65	52	350	1
	Mid	26.7	19.4	7	12	5	0	1235	1878	14.2	13.2	9.88	7.68	1.7	27.03	52	330	1
							30	1235	1695	14.4	13.5	9.23	7.1	1.59	25.28	52	330	1
							70	1235	1524	14.6	13.8	8.6	6.54	1.48	23.53	52	330	1
				5.5	14.5	9	0	1235	1878	16.5	15.4	5.93	4.61	0.57	9.06	52	330	1
							30	1235	1695	16.8	15.9	5.54	4.26	0.53	8.43	52	330	1
							70	1235	1524	17	16.2	5.16	3.92	0.50	7.95	52	330	1

		27	19	7	12	5	0	1235	1878	13.8	12.7	9.41	7.97	1.62	25.76	52	330	1
							30	1235	1695	14	13.1	8.8	7.37	1.51	24.01	52	330	1
							70	1235	1524	14.3	13.6	8.19	6.78	1.41	22.42	52	330	1
				5.5	14.5	9	0	1235	1878	16.5	15.4	5.65	4.78	0.54	8.59	52	330	1
							30	1235	1695	16.7	15.8	5.28	4.42	0.50	7.95	52	330	1
							70	1235	1524	16.9	16	4.91	4.07	0.47	7.47	52	330	1
		29	21	7	12	5	0	1235	1878	14.2	13	12.42	8.78	2.13	33.87	52	330	1
							30	1235	1695	14.4	13.4	11.58	8.11	1.99	31.64	52	330	1
							70	1235	1524	14.7	13.9	10.76	7.47	1.85	29.42	52	330	1
				5.5	14.5	9	0	1235	1878	17.2	15.7	7.45	5.27	0.71	11.29	52	330	1
							30	1235	1695	17.5	16.2	6.95	4.87	0.66	10.49	52	330	1
							70	1235	1524	18	17.1	6.46	4.48	0.62	9.86	52	330	1
	Low	26.7	19.4	7	12	5	0	1170	1741	13.3	12.2	9.4	7.25	1.62	25.76	52	310	1
							30	1170	1581	13.6	12.7	8.81	6.73	1.51	24.01	52	310	1
							70	1170	1355	13.9	13	7.57	6.18	1.3	20.67	52	310	1
				5.5	14.5	9	0	1170	1741	16.7	15.5	5.64	4.35	0.54	8.59	52	310	1
							30	1170	1581	17	16	5.29	4.04	0.51	8.11	52	310	1
							70	1170	1355	17.3	16.5	4.54	3.71	0.43	6.84	52	310	1
		27	19	7	12	5	0	1170	1741	13.8	12.9	8.95	7.52	1.54	24.49	52	310	1
							30	1170	1581	14.1	13.4	8.4	6.98	1.44	22.90	52	310	1
							70	1170	1355	14.3	13.7	7.57	6.18	1.3	20.67	52	310	1
				5.5	14.5	9	0	1170	1741	16.5	15.4	5.37	4.51	0.51	8.11	52	310	1
							30	1170	1581	16.7	15.7	5.04	4.19	0.48	7.63	52	310	1
							70	1170	1355	16.9	16	4.54	3.71	0.43	6.84	52	310	1
		29	21	7	12	5	0	1170	1741	13.1	12	11.8	8.28	2.03	32.28	52	310	1
							30	1170	1581	13.5	12.6	11.04	7.68	1.9	30.21	52	310	1
							70	1170	1355	13.8	13	9.92	6.81	1.7	27.03	52	310	1
				5.5	14.5	9	0	1170	1741	17	15.9	7.08	4.97	0.68	10.81	52	310	1
							30	1170	1581	17.3	16.3	6.62	4.61	0.64	10.18	52	310	1
							70	1170	1355	17.6	16.7	5.95	4.09	0.57	9.06	52	310	1

Model	Speed	Air On FCU		Water		Delta Water Temp.	ESP	Speed of Fan	Air Flow	Air Off FCU		Capacity		Water Flow	Water Pressure Drop	Weight	Input	
		DB	WB	EWT	LWT					DB	WB	Total	Sens.			CB	PWR	Fan Motors
		℃	℃	℃	℃	℃	Pa	rpm	m^3/h	℃	℃	kW	kW	m^3/h	kPa	kg	W	nos.
KFTE112H0EN1	High	26.7	19.4	7	12	5	0	1290	2602	14.4	13.7	12.29	9.91	2.11	29.60	52	350	1
							30	1290	2302	14.6	13.9	11.36	9.04	1.95	27.36	52	350	1
							70	1290	2040	14.8	14	10.45	8.2	1.8	25.25	52	350	1
				5.5	14.5	9	0	1290	2602	17.3	16.2	7.37	5.95	0.70	9.82	52	350	1
							30	1290	2302	17.6	16.6	6.82	5.42	0.65	9.12	52	350	1
							70	1290	2040	17.8	16.9	6.27	4.92	0.60	8.42	52	350	1
		27	19	7	12	5	0	1290	2602	14.3	13.1	11.7	10.31	2.01	28.20	52	350	1
							30	1290	2302	14.6	13.6	10.82	9.4	1.86	26.10	52	350	1
							70	1290	2040	14.8	13.9	10	8.51	1.71	24.00	52	350	1
				5.5	14.5	9	0	1290	2602	16.7	16	7.02	6.19	0.67	9.40	52	350	1
							30	1290	2302	16.9	16.3	6.49	5.64	0.62	8.70	52	350	1
							70	1290	2040	17.1	16.2	6.00	5.11	0.57	8.00	52	350	1
		29	21	7	12	5	0	1290	2602	14.4	13.3	15.56	11.33	2.67	37.46	52	350	1
							30	1290	2302	14.7	13.8	14.65	10.34	2.47	34.65	52	350	1
							70	1290	2040	15	14	13.17	9.37	2.26	31.71	52	350	1
				5.5	14.5	9	0	1290	2602	18	16.8	9.34	6.80	0.89	12.49	52	350	1
							30	1290	2302	18.2	17.1	8.79	6.20	0.84	11.79	52	350	1
							70	1290	2040	18.4	17.4	7.90	5.62	0.75	10.52	52	350	1
	Mid	26.7	19.4	7	12	5	0	1235	2401	14.2	13.2	11.68	9.34	2.01	28.20	52	330	1
							30	1235	2122	14.4	13.5	10.79	8.51	1.85	25.96	52	330	1
							70	1235	1865	14.6	13.8	9.92	7.71	1.7	23.85	52	330	1
				5.5	14.5	9	0	1235	2401	16.5	15.4	7.01	5.60	0.67	9.40	52	330	1
							30	1235	2122	16.8	15.9	6.47	5.11	0.62	8.70	52	330	1
							70	1235	1865	17	16.2	5.95	4.63	0.59	8.28	52	330	1
		27	19	7	12	5	0	1235	2401	13.8	12.7	11.12	9.7	1.91	26.80	52	330	1
							30	1235	2122	14	13.1	10.27	8.83	1.77	24.83	52	330	1
							70	1235	1865	14.3	13.6	9.44	8	1.62	22.73	52	330	1
				5.5	14.5	9	0	1235	2401	16.5	15.4	6.67	5.82	0.64	8.98	52	330	1
							30	1235	2122	16.7	15.8	6.16	5.30	0.59	8.28	52	330	1
							70	1235	1865	16.9	16	5.66	4.80	0.54	7.58	52	330	1
		29	21	7	12	5	0	1235	2401	14.2	13	14.76	10.67	2.54	35.64	52	330	1
							30	1235	2122	14.4	13.4	13.6	9.72	2.34	32.83	52	330	1
							70	1235	1865	14.7	13.9	12.47	8.8	2.14	30.02	52	330	1
				5.5	14.5	9	0	1235	2401	17.2	15.7	8.86	6.40	0.85	11.93	52	330	1
							30	1235	2122	17.5	16.2	8.16	5.83	0.78	10.94	52	330	1
							70	1235	1865	18	17.1	7.48	5.28	0.71	9.96	52	330	1
	Low	26.7	19.4	7	12	5	0	1170	2087	13.3	12.2	10.67	8.4	1.83	25.67	52	310	1

							30	1170	1865	13.6	12.7	9.92	7.71	1.7	23.85	52	310	1
							70	1170	1598	13.9	13	8.95	6.84	1.54	21.61	52	310	1
				5.5	14.5	9	0	1170	2087	16.7	15.5	6.40	5.04	0.61	8.56	52	310	1
							30	1170	1865	17	16	5.95	4.63	0.57	8.00	52	310	1
							70	1170	1598	17.3	16.5	5.37	4.10	0.51	7.16	52	310	1
		27	19	7	12	5	0	1170	2087	13.8	12.9	10.16	8.72	1.75	24.55	52	310	1
							30	1170	1865	14.1	13.4	9.44	8	1.62	22.73	52	310	1
							70	1170	1598	14.3	13.7	8.53	7.09	1.47	20.62	52	310	1
				5.5	14.5	9	0	1170	2087	16.5	15.4	6.10	5.23	0.58	8.14	52	310	1
							30	1170	1865	16.7	15.7	5.66	4.80	0.54	7.58	52	310	1
							70	1170	1598	16.9	16	5.12	4.25	0.49	6.87	52	310	1
		29	21	7	12	5	0	1170	2087	13.1	12	13.45	9.59	2.31	32.41	52	310	1
							30	1170	1865	13.5	12.6	12.47	8.8	2.14	30.02	52	310	1
							70	1170	1598	13.8	13	11.22	7.81	1.93	27.08	52	310	1
				5.5	14.5	9	0	1170	2087	17	15.9	8.07	5.75	0.77	10.80	52	310	1
							30	1170	1865	17.3	16.3	7.48	5.28	0.71	9.96	52	310	1
							70	1170	1598	17.6	16.7	6.73	4.69	0.64	8.98	52	310	1
KFTE120H0EN1	High	26.7	19.4	7	12	5	0	1290	2993	14.4	13.7	14.62	10.69	2.51	44.08	54	350	1
							30	1290	2729	14.6	13.9	13.74	9.96	2.36	41.44	54	350	1
							70	1290	2380	14.8	14	12.44	8.89	2.14	37.58	54	350	1
				5.5	14.5	9	0	1290	2993	17.3	16.2	8.77	6.41	0.84	14.75	54	350	1
							30	1290	2729	17.6	16.6	8.24	5.98	0.79	13.87	54	350	1
							70	1290	2380	17.8	16.9	7.46	5.33	0.71	12.47	54	350	1
		27	19	7	12	5	0	1290	2993	14.3	13.1	14.01	11.07	2.41	42.32	54	350	1
							30	1290	2729	14.6	13.6	13.17	10.31	2.26	39.69	54	350	1
							70	1290	2380	14.8	13.9	12	9.19	2.05	36.00	54	350	1
				5.5	14.5	9	0	1290	2993	16.7	16	8.41	6.64	0.80	14.05	54	350	1
							30	1290	2729	16.9	16.3	7.90	6.19	0.75	13.17	54	350	1
							70	1290	2380	17.1	16.2	7.20	5.51	0.68	11.94	54	350	1
		29	21	7	12	5	0	1290	2993	14.4	13.3	17.96	12.11	3.09	54.26	54	350	1
							30	1290	2729	14.7	13.8	16.86	11.28	2.9	50.92	54	350	1
							70	1290	2380	15	14	15.22	10.07	2.62	46.01	54	350	1
				5.5	14.5	9	0	1290	2993	18	16.8	10.78	7.27	1.03	18.09	54	350	1
							30	1290	2729	18.2	17.1	10.12	6.77	0.97	17.03	54	350	1
							70	1290	2380	18.4	17.4	9.13	6.04	0.87	15.28	54	350	1
	Mid	26.7	19.4	7	12	5	0	1235	2590	14.2	13.2	13.26	9.56	2.28	40.04	54	330	1
							30	1235	2523	14.4	13.5	13.03	9.37	2.24	39.33	54	330	1
							70	1235	2230	14.6	13.8	11.96	8.51	2.06	36.17	54	330	1
				5.5	14.5	9	0	1235	2590	16.5	15.4	7.96	5.74	0.76	13.35	54	330	1
							30	1235	2523	16.8	15.9	7.82	5.62	0.75	13.17	54	330	1
							70	1235	2230	17	16.2	7.18	5.11	0.69	12.12	54	330	1
		27	19	7	12	5	0	1235	2590	13.8	12.7	12.71	9.89	2.18	38.28	54	330	1

							30	1235	2523	14	13.1	12.49	9.69	2.15	37.75	54	330	1
							70	1235	2230	14.3	13.6	11.47	8.79	1.97	34.59	54	330	1
				5.5	14.5	9	0	1235	2590	16.5	15.4	7.63	5.93	0.73	12.82	54	330	1
							30	1235	2523	16.7	15.8	7.49	5.81	0.72	12.64	54	330	1
							70	1235	2230	16.9	16	6.88	5.27	0.66	11.59	54	330	1
		29	21	7	12	5	0	1235	2590	14.2	13	16.25	10.83	2.79	48.99	54	330	1
							30	1235	2523	14.4	13.4	15.96	10.62	2.74	48.11	54	330	1
							70	1235	2230	14.7	13.9	14.63	9.63	2.51	44.08	54	330	1
				5.5	14.5	9	0	1235	2590	17.2	15.7	9.75	6.50	0.93	16.33	54	330	1
							30	1235	2523	17.5	16.2	9.58	6.37	0.92	16.16	54	330	1
							70	1235	2230	18	17.1	8.78	5.78	0.84	14.75	54	330	1
	Low	26.7	19.4	7	12	5	0	1170	2412	13.3	12.2	12.63	9.05	2.17	38.11	54	310	1
							30	1170	2228	13.6	12.7	11.96	8.5	2.06	36.17	54	310	1
							70	1170	1897	13.9	13	10.68	7.48	1.83	32.13	54	310	1
				5.5	14.5	9	0	1170	2412	16.7	15.5	7.58	5.43	0.72	12.64	54	310	1
							30	1170	2228	17	16	7.18	5.10	0.69	12.12	54	310	1
							70	1170	1897	17.3	16.5	6.41	4.49	0.61	10.71	54	310	1
		27	19	7	12	5	0	1170	2412	13.8	12.9	12.11	9.36	2.08	36.52	54	310	1
							30	1170	2228	14.1	13.4	11.46	8.79	1.97	34.59	54	310	1
							70	1170	1897	14.3	13.7	10.24	7.72	1.76	30.91	54	310	1
				5.5	14.5	9	0	1170	2412	16.5	15.4	7.27	5.62	0.69	12.12	54	310	1
							30	1170	2228	16.7	15.7	6.88	5.27	0.65	11.41	54	310	1
							70	1170	1897	16.9	16	6.14	4.63	0.59	10.36	54	310	1
		29	21	7	12	5	0	1170	2412	13.1	12	15.46	10.25	2.66	46.71	54	310	1
							30	1170	2228	13.5	12.6	14.62	9.63	2.51	44.08	54	310	1
							70	1170	1897	13.8	13	13.02	8.47	2.24	39.33	54	310	1
				5.5	14.5	9	0	1170	2412	17	15.9	9.28	6.15	0.89	15.63	54	310	1
							30	1170	2228	17.3	16.3	8.77	5.78	0.84	14.75	54	310	1
							70	1170	1897	17.6	16.7	7.81	5.08	0.75	13.17	54	310	1

Model	Speed	Air On FCU		Water		Delta Water Temp.	ESP	Speed of Fan	Air Flow	Air Off FCU		Capacity		Water Flow	Water Pressure Drop	Weight	Input	
		DB	WB	EWT	LWT					DB	WB	Total	Sens.			CB	PWR	Fan Motors
		℃	℃	℃	℃	℃	Pa	rpm	m^3/h	℃	℃	kW	kW	m^3/h	kPa	kg	W	nos.
KFTE140H0EN1	High	26.7	19.4	7	12	5	0	750	3401	14.4	13.7	17.21	12.76	2.96	63.58	76	474	1
							50	750	3095	14.6	13.9	16.13	11.87	2.77	59.50	76	474	1
							100	750	2720	14.8	14	14.75	10.74	2.53	54.34	76	474	1
				5.5	14.5	9	0	750	3401	17.3	16.2	10.33	7.66	0.99	21.27	76	474	1
							50	750	3095	17.6	16.6	9.68	7.12	0.92	19.76	76	474	1
							100	750	2720	17.8	16.9	8.85	6.44	0.85	18.26	76	474	1
		27	19	7	12	5	0	750	3401	14.3	13.1	16.42	13.21	2.82	60.57	76	474	1
							50	750	3095	14.6	13.6	15.4	12.28	2.65	56.92	76	474	1
							100	750	2720	14.8	13.9	14.1	11.11	2.42	52.00	76	474	1
				5.5	14.5	9	0	750	3401	16.7	16	9.85	7.93	0.94	20.19	76	474	1
							50	750	3095	16.9	16.3	9.24	7.37	0.88	18.90	76	474	1
							100	750	2720	17.1	16.2	8.46	6.67	0.81	17.40	76	474	1
		29	21	7	12	5	0	750	3401	14.4	13.3	21.27	14.5	3.65	78.40	76	474	1
							50	750	3095	14.7	13.8	19.91	13.49	3.42	73.46	76	474	1
							100	750	2720	15	14	18.16	12.2	3.12	67.02	76	474	1
				5.5	14.5	9	0	750	3401	18	16.8	12.76	8.70	1.22	26.21	76	474	1
							50	750	3095	18.2	17.1	11.95	8.09	1.14	24.49	76	474	1
							100	750	2720	18.4	17.4	10.90	7.32	1.04	22.34	76	474	1
	Mid	26.7	19.4	7	12	5	0	705	3100	14.2	13.2	16.15	11.89	2.78	59.71	76	428	1
							50	705	2798	14.4	13.5	15.04	10.98	2.58	55.42	76	428	1
							100	705	2434	14.6	13.8	13.65	9.86	2.34	50.26	76	428	1
				5.5	14.5	9	0	705	3100	16.5	15.4	9.69	7.13	0.93	19.98	76	428	1
							50	705	2798	16.8	15.9	9.02	6.59	0.87	18.69	76	428	1
							100	705	2434	17	16.2	8.19	5.92	0.79	16.97	76	428	1
		27	19	7	12	5	0	705	3100	13.8	12.7	15.42	12.3	2.65	56.92	76	428	1
							50	705	2798	14	13.1	14.36	11.36	2.47	53.06	76	428	1
							100	705	2434	14.3	13.6	13.03	10.18	2.24	48.12	76	428	1
				5.5	14.5	9	0	705	3100	16.5	15.4	9.25	7.38	0.88	18.90	76	428	1
							50	705	2798	16.7	15.8	8.62	6.82	0.82	17.61	76	428	1
							100	705	2434	16.9	16	7.82	6.11	0.75	16.11	76	428	1
		29	21	7	12	5	0	705	3100	14.2	13	19.93	13.5	3.43	73.68	76	428	1
							50	705	2798	14.4	13.4	18.54	12.47	3.19	68.52	76	428	1
							100	705	2434	14.7	13.9	16.78	11.19	2.88	61.86	76	428	1
				5.5	14.5	9	0	705	3100	17.2	15.7	11.96	8.10	1.14	24.49	76	428	1
							50	705	2798	17.5	16.2	11.12	7.48	1.06	22.77	76	428	1
							100	705	2434	18	17.1	10.07	6.71	0.96	20.62	76	428	1
	Low	26.7	19.4	7	12	5	0	663	2803	13.3	12.2	15.06	11	2.59	55.63	76	389	1
							50	663	2477	13.6	12.7	13.82	9.99	2.37	50.91	76	389	1

							100	663	2134	13.9	13	12.43	8.89	2.14	45.97	76	389	1
				5.5	14.5	9	0	663	2803	16.7	15.5	9.04	6.60	0.86	18.47	76	389	1
							50	663	2477	17	16	8.29	5.99	0.79	16.97	76	389	1
							100	663	2134	17.3	16.5	7.46	5.33	0.71	15.25	76	389	1
		27	19	7	12	5	0	663	2803	13.8	12.9	14.38	11.37	2.47	53.06	76	389	1
							50	663	2477	14.1	13.4	13.19	10.32	2.27	48.76	76	389	1
							100	663	2134	14.3	13.7	11.87	9.17	2.05	44.03	76	389	1
				5.5	14.5	9	0	663	2803	16.5	15.4	8.63	6.82	0.82	17.61	76	389	1
							50	663	2477	16.7	15.7	7.91	6.19	0.76	16.32	76	389	1
							100	663	2134	16.9	16	7.12	5.50	0.68	14.61	76	389	1
		29	21	7	12	5	0	663	2803	13.1	12	18.56	12.49	3.19	68.52	76	389	1
							50	663	2477	13.5	12.6	16.99	11.34	2.92	62.72	76	389	1
							100	663	2134	13.8	13	15.25	10.08	2.62	56.28	76	389	1
				5.5	14.5	9	0	663	2803	17	15.9	11.14	7.49	1.06	22.77	76	389	1
							50	663	2477	17.3	16.3	10.19	6.80	0.97	20.84	76	389	1
							100	663	2134	17.6	16.7	9.15	6.05	0.87	18.69	76	389	1
KFTE158H0EN1	High	26.7	19.4	7	12	5	0	920	3705	14.4	13.7	18.88	14.1	3.24	107.18	76	740	1
							50	920	3468	14.6	13.9	18.05	13.14	3.1	102.55	76	740	1
							100	920	3060	14.8	14	16.44	12.08	2.83	93.62	76	740	1
				5.5	14.5	9	0	920	3705	17.3	16.2	11.33	8.46	1.08	35.73	76	740	1
							50	920	3468	17.6	16.6	10.83	7.88	1.03	34.07	76	740	1
							100	920	3060	17.8	16.9	9.86	7.25	0.94	31.10	76	740	1
		27	19	7	12	5	0	920	3705	14.3	13.1	18.02	14.6	3.1	102.55	76	740	1
							50	920	3468	14.6	13.6	17.23	13.88	2.96	97.92	76	740	1
							100	920	3060	14.8	13.9	15.8	12.49	2.72	90.00	76	740	1
				5.5	14.5	9	0	920	3705	16.7	16	10.81	8.76	1.03	34.07	76	740	1
							50	920	3468	16.9	16.3	10.34	8.33	0.99	32.75	76	740	1
							100	920	3060	17.1	16.2	9.48	7.49	0.91	30.10	76	740	1
		29	21	7	12	5	0	920	3705	14.4	13.3	23.36	16.02	4.01	132.65	76	740	1
							50	920	3468	14.7	13.8	22.32	15.23	3.83	126.70	76	740	1
							100	920	3060	15	14	20.28	13.72	3.48	115.12	76	740	1
				5.5	14.5	9	0	920	3705	18	16.8	14.02	9.61	1.34	44.33	76	740	1
							50	920	3468	18.2	17.1	13.39	9.14	1.28	42.34	76	740	1
							100	920	3060	18.4	17.4	12.17	8.23	1.16	38.37	76	740	1
	Mid	26.7	19.4	7	12	5	0	850	3332	14.2	13.2	17.56	13	3.02	99.90	76	660	1
							50	850	3117	14.4	13.5	16.78	12.36	2.88	95.27	76	660	1
							100	850	2726	14.6	13.8	15.29	11.14	2.63	87.00	76	660	1
				5.5	14.5	9	0	850	3332	16.5	15.4	14.05	10.40	1.34	44.33	76	660	1
							50	850	3117	16.8	15.9	13.42	9.89	1.28	42.34	76	660	1
							100	850	2726	17	16.2	12.23	8.91	1.17	38.70	76	660	1
		27	19	7	12	5	0	850	3332	13.8	12.7	16.76	13.46	2.88	95.27	76	660	1
							50	850	3117	14	13.1	16.02	12.78	2.75	90.97	76	660	1
							100	850	2726	14.3	13.6	14.6	11.52	2.51	83.03	76	660	1

				5.5	14.5	9	0	850	3332	16.5	15.4	10.06	8.08	0.96	31.76	76	660	1
							50	850	3117	16.7	15.8	9.61	7.67	0.92	30.43	76	660	1
							100	850	2726	16.9	16	8.76	6.91	0.84	27.79	76	660	1
		29	21	7	12	5	0	850	3332	14.2	13	21.7	14.78	3.73	123.39	76	660	1
							50	850	3117	14.4	13.4	20.71	14.04	3.56	117.76	76	660	1
							100	850	2726	14.7	13.9	18.84	12.65	3.24	107.18	76	660	1
				5.5	14.5	9	0	850	3332	17.2	15.7	13.02	8.87	1.24	41.02	76	660	1
							50	850	3117	17.5	16.2	12.43	8.42	1.19	39.37	76	660	1
							100	850	2726	18	17.1	11.30	7.59	1.08	35.73	76	660	1
	Low	26.7	19.4	7	12	5	0	790	3001	13.3	12.2	16.35	12	2.81	92.95	76	592	1
							50	790	2771	13.6	12.7	15.47	11.29	2.66	87.99	76	592	1
							100	790	2472	13.9	13	14.1	10.18	2.42	80.05	76	592	1
				5.5	14.5	9	0	790	3001	16.7	15.5	9.81	7.20	0.94	31.10	76	592	1
							50	790	2771	17	16	9.28	6.77	0.89	29.44	76	592	1
							100	790	2472	17.3	16.5	8.46	6.11	0.81	26.79	76	592	1
		27	19	7	12	5	0	790	3001	13.8	12.9	15.61	12.41	2.68	88.65	76	592	1
							50	790	2771	14.1	13.4	14.77	11.67	2.54	84.02	76	592	1
							100	790	2472	14.3	13.7	13.46	10.52	2.31	76.41	76	592	1
				5.5	14.5	9	0	790	3001	16.5	15.4	9.37	7.45	0.90	29.77	76	592	1
							50	790	2771	16.7	15.7	8.86	7.00	0.85	28.12	76	592	1
							100	790	2472	16.9	16	8.08	6.31	0.77	25.47	76	592	1
		29	21	7	12	5	0	790	3001	13.1	12	20.17	13.63	3.47	114.79	76	592	1
							50	790	2771	13.5	12.6	19.06	12.82	3.28	108.50	76	592	1
							100	790	2472	13.8	13	17.33	11.55	2.98	98.58	76	592	1
				5.5	14.5	9	0	790	3001	17	15.9	12.10	8.18	1.16	38.37	76	592	1
							50	790	2771	17.3	16.3	11.44	7.69	1.09	36.06	76	592	1
							100	790	2472	17.6	16.7	10.40	6.93	0.99	32.75	76	592	1
KFTE200H0EN1	High	26.7	19.4	7	12	5	0	980	4501	14.4	13.7	23.58	17.89	4.05	153.50	76	805	1
							50	980	4154	14.6	13.9	22.36	16.85	3.84	145.54	76	805	1
							100	980	3740	14.8	14	20.91	15.64	3.59	136.06	76	805	1
				5.5	14.5	9	0	980	4501	17.3	16.2	14.15	10.73	1.35	51.17	76	805	1
							50	980	4154	17.6	16.6	13.42	10.11	1.28	48.51	76	805	1
							100	980	3740	17.8	16.9	12.55	9.38	1.20	45.48	76	805	1
		27	19	7	12	5	0	980	4501	14.3	13.1	22.5	18.55	3.87	146.67	76	805	1
							50	980	4154	14.6	13.6	21.34	17.46	3.67	139.09	76	805	1
							100	980	3740	14.8	13.9	19.9	16.19	3.43	130.00	76	805	1
				5.5	14.5	9	0	980	4501	16.7	16	13.50	11.13	1.29	48.89	76	805	1
							50	980	4154	16.9	16.3	12.80	10.48	1.22	46.24	76	805	1
							100	980	3740	17.1	16.2	11.94	9.71	1.14	43.21	76	805	1
		29	21	7	12	5	0	980	4501	14.4	13.3	29.28	20.35	5.03	190.64	76	805	1
							50	980	4154	14.7	13.8	27.72	19.16	4.76	180.40	76	805	1
							100	980	3740	15	14	25.89	17.77	4.45	168.66	76	805	1
				5.5	14.5	9	0	980	4501	18	16.8	17.57	12.21	1.68	63.67	76	805	1

							50	980	4154	18.2	17.1	16.63	11.50	1.59	60.26	76	805	1
							100	980	3740	18.4	17.4	15.53	10.66	1.48	56.09	76	805	1
	Mid	26.7	19.4	7	12	5	0	888	4051	14.2	13.2	21.99	16.54	3.78	143.26	76	705	1
							50	888	3738	14.4	13.5	20.83	15.57	3.58	135.68	76	705	1
							100	888	3382	14.6	13.8	19.47	14.43	3.34	126.59	76	705	1
				5.5	14.5	9	0	888	4051	16.5	15.4	13.19	9.92	1.26	47.75	76	705	1
							50	888	3738	16.8	15.9	12.50	9.34	1.19	45.10	76	705	1
							100	888	3382	17	16.2	11.68	8.66	11.12	421.45	76	705	1
		27	19	7	12	5	0	888	4051	13.8	12.7	20.98	17.14	3.61	136.82	76	705	1
							50	888	3738	14	13.1	19.88	16.12	3.42	129.62	76	705	1
							100	888	3382	14.3	13.6	18.58	14.93	3.19	120.90	76	705	1
				5.5	14.5	9	0	888	4051	16.5	15.4	12.59	10.28	1.20	45.48	76	705	1
							50	888	3738	16.7	15.8	11.93	9.67	1.14	43.21	76	705	1
							100	888	3382	16.9	16	11.15	8.96	1.07	40.55	76	705	1
		29	21	7	12	5	0	888	4051	14.2	13	27.25	18.8	4.68	177.37	76	705	1
							50	888	3738	14.4	13.4	25.79	17.69	4.43	167.90	76	705	1
							100	888	3382	14.7	13.9	24.06	16.4	4.13	156.53	76	705	1
				5.5	14.5	9	0	888	4051	17.2	15.7	16.35	11.28	1.56	59.12	76	705	1
							50	888	3738	17.5	16.2	15.47	10.61	1.48	56.09	76	705	1
							100	888	3382	18	17.1	14.44	9.84	1.38	52.30	76	705	1
	Low	26.7	19.4	7	12	5	0	805	3644	13.3	12.2	20.48	15.27	3.52	133.41	76	620	1
							50	805	3362	13.6	12.7	19.39	14.36	3.33	126.21	76	620	1
							100	805	3033	13.9	13	18.06	13.27	3.1	117.49	76	620	1
				5.5	14.5	9	0	805	3644	16.7	15.5	12.29	9.16	1.17	44.34	76	620	1
							50	805	3362	17	16	11.63	8.62	1.11	42.07	76	620	1
							100	805	3033	17.3	16.5	10.84	7.96	1.04	39.42	76	620	1
		27	19	7	12	5	0	805	3644	13.8	12.9	19.54	15.81	3.36	127.34	76	620	1
							50	805	3362	14.1	13.4	18.5	14.86	3.18	120.52	76	620	1
							100	805	3033	14.3	13.7	17.24	13.73	2.96	112.18	76	620	1
				5.5	14.5	9	0	805	3644	16.5	15.4	11.72	9.49	1.12	42.45	76	620	1
							50	805	3362	16.7	15.7	11.10	8.92	1.06	40.17	76	620	1
							100	805	3033	16.9	16	10.34	8.24	0.99	37.52	76	620	1
		29	21	7	12	5	0	805	3644	13.1	12	25.34	17.53	4.35	164.87	76	620	1
							50	805	3362	13.5	12.6	23.96	16.32	4.12	156.15	76	620	1
							100	805	3033	13.8	13	22.29	15.08	3.83	145.16	76	620	1
				5.5	14.5	9	0	805	3644	17	15.9	15.20	10.52	1.45	54.96	76	620	1
							50	805	3362	17.3	16.3	14.38	9.79	1.37	51.92	76	620	1
							100	805	3033	17.6	16.7	13.37	9.05	1.28	48.51	76	620	1

Remark:

ESP: external static pressure; **DB:** dry bulb temp.; **WB:** wet bulb temp.; **EWT:** enter water temp.;

LWT: leaving water temp.; **PWR:** power; **nos:** numbers. **CB:** ceiling concealed with back plenum;

7.2 Heating Capacity:

Model	Air flow volume (Hi)	Water temp. change	Air inlet temp. (21℃ DB) / Water inlet temp. (℃)																							
			35			40			45			50			55			60			65			70		
			Capacity	Water	Water	Capacity	Water	Water	Capacity	Water	Water	Capacity	Water	Water	Capacity	Water	Water	Capacity	Water	Water	Capacity	Water	Water	Capacity	Water	Water
	m^3/h	℃	kW	m^3/h	kPa	kW	m^3/h	kPa	kW	m^3/h	kPa	kW	m^3/h	kPa	kW	m^3/h	kPa	kW	m^3/h	kPa	kW	m^3/h	kPa	kW	m^3/h	kPa
KFTE65H0EN1	1360	10	1.05	0.09	0.65	2.77	0.24	1.73	4.52	0.39	2.81	6.28	0.54	3.89	8.05	0.69	4.97	8.97	0.84	6.06	11.58	1.00	7.21	13.35	1.15	8.29
		8	1.80	0.19	1.37	3.55	0.38	2.74	5.31	0.57	4.11	7.07	0.76	5.48	8.84	0.95	6.85	9.70	1.11	8.00	12.38	1.33	9.59	14.15	1.52	10.96
		7	2.18	0.27	1.95	3.94	0.48	3.46	5.70	0.70	5.05	7.47	0.92	6.63	9.24	1.13	8.15	10.06	1.35	9.73	12.78	1.57	11.32	14.56	1.79	12.91
		6	2.57	0.37	2.67	4.33	0.62	4.47	6.10	0.87	6.27	7.87	1.13	8.15	9.64	1.38	9.95	10.43	1.63	11.75	13.19	1.89	13.63	14.97	2.14	15.43
		5	2.97	0.51	3.68	4.73	0.81	5.84	6.50	1.12	8.08	8.27	1.42	10.24	10.04	1.73	12.47	10.80	2.03	14.64	13.60	2.34	16.87	15.38	2.64	19.03
KFTE89H0EN1	1700	10	2.42	0.21	3.34	5.09	0.44	7.00	7.65	0.66	10.49	8.40	0.87	13.83	10.38	1.09	17.33	12.51	1.30	20.67	17.61	1.51	24.01	20.08	1.73	27.51
		8	3.44	0.37	5.88	6.02	0.65	10.34	8.53	0.92	14.63	9.10	1.18	18.76	11.07	1.45	23.06	13.20	1.51	24.01	18.43	1.98	31.48	20.89	2.24	35.62
		7	3.92	0.48	7.63	6.46	0.79	12.56	8.96	1.10	17.49	9.45	1.40	22.26	11.41	1.71	27.19	13.53	2.01	31.96	18.83	2.31	36.73	21.29	2.61	41.50
		6	4.39	0.63	10.02	6.90	0.99	15.74	9.38	1.34	21.31	9.79	1.70	27.03	11.73	2.05	32.60	13.86	2.40	38.16	19.23	2.75	43.73	21.69	3.11	49.45
		5	4.83	0.83	13.20	7.32	1.26	20.03	9.79	1.68	26.71	10.13	2.11	33.55	12.07	2.53	40.23	14.19	2.95	46.91	19.63	3.37	53.58	22.09	3.80	60.42
KFTE112H0EN1	2040	10	2.67	0.23	3.07	5.70	0.49	6.53	8.63	0.74	9.86	11.51	0.99	13.20	12.21	1.23	16.40	14.21	1.48	19.73	20.06	1.72	22.93	22.90	1.97	26.26
		8	3.85	0.41	5.47	6.79	0.73	9.73	9.67	1.04	13.86	12.52	1.34	17.86	13.06	1.65	21.99	15.02	1.80	24.00	21.04	2.26	30.13	23.87	2.56	34.12
		7	4.40	0.54	7.20	7.31	0.90	12.00	10.17	1.25	16.66	13.02	1.60	21.33	13.48	1.95	25.99	15.42	2.29	30.53	21.52	2.64	35.19	24.35	2.99	39.86
		6	4.94	0.71	9.46	7.82	1.12	14.93	10.67	1.53	20.39	13.51	1.93	25.73	13.90	2.34	31.19	15.82	2.75	36.66	22.01	3.15	41.99	24.84	3.56	47.45
		5	5.47	0.94	12.53	8.32	1.43	19.06	11.17	1.92	25.59	14.00	2.41	32.13	14.31	2.89	38.52	16.22	3.38	45.06	22.49	3.87	51.59	25.32	4.35	57.99
KFTE120H0EN1	2380	10	4.25	0.37	6.34	8.18	0.70	12.00	11.89	1.02	17.48	13.18	1.33	22.80	15.26	1.64	28.11	17.60	1.95	33.42	26.18	2.25	38.57	29.71	2.55	43.71
		8	5.63	0.60	10.28	9.36	1.01	17.31	12.98	1.39	23.82	14.07	1.78	30.51	16.07	2.16	37.02	18.10	2.10	36.00	27.15	2.92	50.05	30.66	3.29	56.39
		7	6.25	0.77	13.20	9.92	1.22	20.91	13.50	1.66	28.45	14.49	2.09	35.82	16.46	2.53	43.36	19.28	2.96	50.73	27.62	3.39	58.10	31.13	3.82	65.47
		6	6.84	0.98	16.80	10.45	1.50	25.71	14.01	2.01	34.45	14.91	2.51	43.02	16.85	3.02	51.76	19.66	3.52	60.33	28.09	4.02	68.90	31.60	4.52	77.47
		5	7.39	1.27	21.77	10.96	1.88	32.22	14.50	2.49	42.68	15.32	3.10	53.13	17.22	3.70	63.42	20.03	4.30	73.70	28.55	4.91	84.16	32.06	5.51	94.44
KFTE140H0EN1	2720	10	4.61	0.40	8.32	8.86	0.76	15.81	12.89	1.11	23.09	16.84	1.65	34.32	18.68	1.78	37.02	20.45	2.12	44.10	28.52	2.45	50.96	32.39	2.78	57.82
		8	6.09	0.65	13.52	10.15	1.09	22.67	14.10	1.51	31.41	18.00	1.93	40.14	19.70	2.35	48.88	21.37	2.50	52.00	29.62	3.18	66.14	33.48	3.60	74.88
		7	6.77	0.83	17.26	10.77	1.32	27.46	14.68	1.80	37.44	18.57	2.28	47.42	20.20	2.75	57.20	21.83	3.23	67.18	30.16	3.70	76.96	34.01	4.18	86.94
		6	7.42	1.06	22.05	11.36	1.63	33.90	15.25	2.18	45.34	19.12	2.74	56.99	20.68	3.29	68.43	22.28	3.84	79.87	30.70	4.40	91.52	34.55	4.95	102.96
		5	8.03	1.38	28.70	11.93	2.05	42.64	15.81	2.72	56.58	19.67	3.38	70.30	21.17	4.04	84.03	22.73	4.71	97.97	31.23	5.37	111.70	35.08	6.03	125.42
KFTE158H0EN1	3060	10	4.92	0.42	13.44	9.53	0.82	26.24	13.92	1.20	38.40	17.22	1.56	49.92	20.68	1.93	61.76	22.71	2.30	73.60	30.94	2.66	74.48	35.16	3.02	81.54
		8	6.55	0.70	22.40	10.96	1.18	37.76	15.26	1.64	52.48	19.51	2.10	67.20	21.84	2.55	81.60	23.77	2.80	90.00	32.17	3.46	96.88	36.38	3.91	105.57
		7	7.29	0.90	28.80	11.64	1.43	45.76	15.90	1.95	62.40	20.14	2.47	79.04	22.41	2.99	95.68	24.28	3.51	112.32	32.78	4.02	112.56	36.99	4.54	122.58
		6	8.00	1.15	36.80	12.29	1.76	56.32	16.54	2.37	75.84	20.76	2.97	95.04	22.97	3.58	114.56	24.80	4.14	132.48	33.38	4.78	133.84	37.59	5.38	145.26
		5	8.68	1.49	47.68	12.93	2.22	71.04	17.16	2.95	94.40	21.37	3.67	117.44	23.53	4.40	140.80	25.31	5.12	163.84	33.99	5.84	163.52	38.19	6.56	177.12
KFTE200H0EN1	3740	10	5.61	0.48	16.32	11.02	0.95	32.30	16.20	1.39	48.65	21.29	1.83	64.05	26.35	2.26	79.10	28.87	2.70	94.50	36.40	3.13	100.16	41.41	3.56	110.36
		8	7.55	0.81	27.54	12.76	1.37	46.58	17.85	1.92	67.20	22.89	2.46	86.10	27.91	3.00	105.00	30.30	3.45	130.00	37.94	4.07	130.24	42.94	4.61	142.91
		7	8.45	1.04	35.36	13.59	1.67	56.78	18.64	2.29	80.15	23.67	2.91	101.85	28.69	3.52	123.20	30.99	4.14	144.90	38.70	4.75	152.00	43.70	5.36	166.16
		6	9.31	1.33	45.22	14.40	2.06	70.04	19.43	2.78	97.30	24.44	3.50	122.50	29.45	4.22	147.70	31.70	4.93	172.55	39.46	5.65	180.80	44.46	6.37	197.47
		5	10.14	1.74	59.16	15.19	2.61	88.74	20.20	3.47	121.45	25.21	4.33	151.55	30.21	5.19	181.65	32.40	6.05	211.75	40.22	6.91	221.12	45.23	7.77	240.87

Heating capacity modification coefficient table:

Model	KFTE65H0EN1	KFTE89H0EN1	KFTE112H0EN1	KFTE120H0EN1	KFTE140H0EN1	KFTE158H0EN1	KFTE200H0EN1
Mid-speed	0.88	0.87	0.86	0.88	0.86	0.88	0.89
Low-speed	0.74	0.75	0.75	0.76	0.74	0.75	0.75

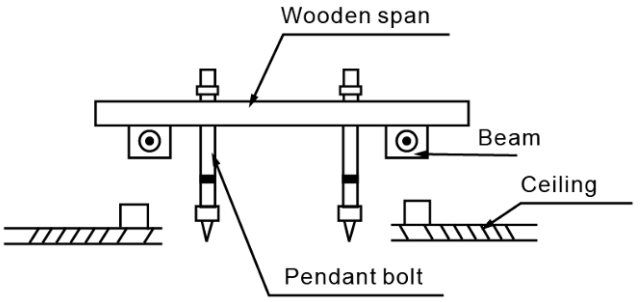
8. Installation

8.1 Installing the Fan Coil Unit

- Precautions before installation.
  - Decide the correct way of conveying the equipment.
  - Try to transport this equipment with the original package.
  - If the air conditioner needs to be installed on a metal part of the building, electric insulation must be performed, and the installation must meet the relevant technical standards of electric devices.
- Install F10 pendant bolts (4 bolts)
  - The intervals of the pendant bolts are shown in the following figure.
  - Use the F10 pendant bolts.
  - The treatment of the ceiling varies between buildings. For detailed measures, negotiate with the construction and fit-out staff.
- Scope of dismantling the ceiling…Please keep the ceiling horizontal. Reinforce the beams and girders of the ceiling lest vibration of the ceiling.
- Cut off the beams and girders of the ceiling.
- Reinforce the cut-off part, beams and girders of the ceiling.
  - After the main body is suspended, work on the pipes and wires in the ceiling. Decide the lead-out direction of the pipes after selecting the installation site. Especially, in a circumstance where a ceiling is available, extend the refrigerant pipe; drain pipe, indoor/outdoor connection wires and wire controller lines to the connection position before suspending the unit.
  - Procedure of installing the pendant bolts.

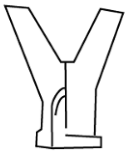
Wooden structure

Put rectangular sticks across the beams, and set pendant bolts.

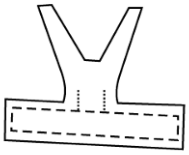


New concrete roughcast

Set it with embedded bushes or embedded bolts.



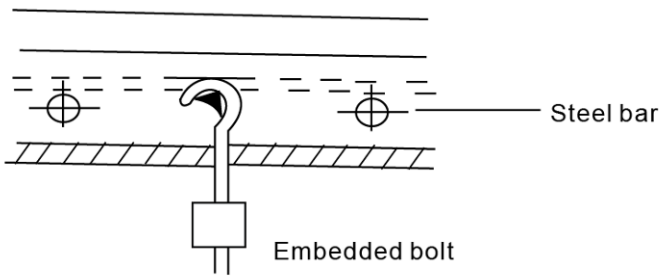
(Blade plug-in unit)



(Slide plug-in unit)

Old concrete roughcast

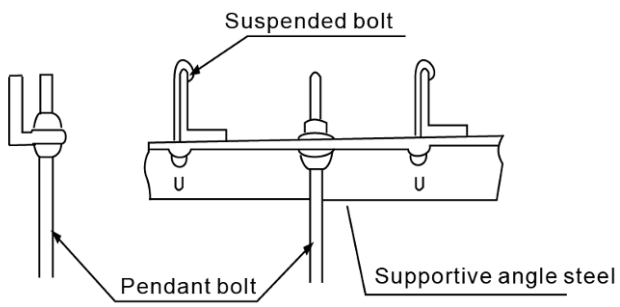
Use embedded bolts, embedded pulling plugs, and embedded stick harness.

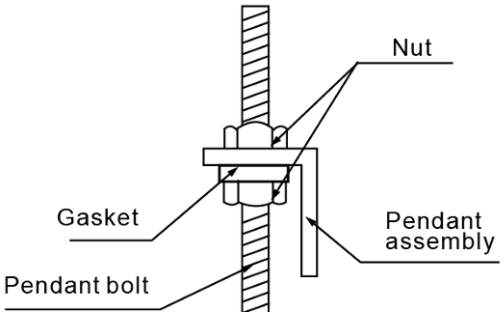


(Pipe pendant embedded bolt)

Steel beam and girder structure

Set and use supportive angle steel.





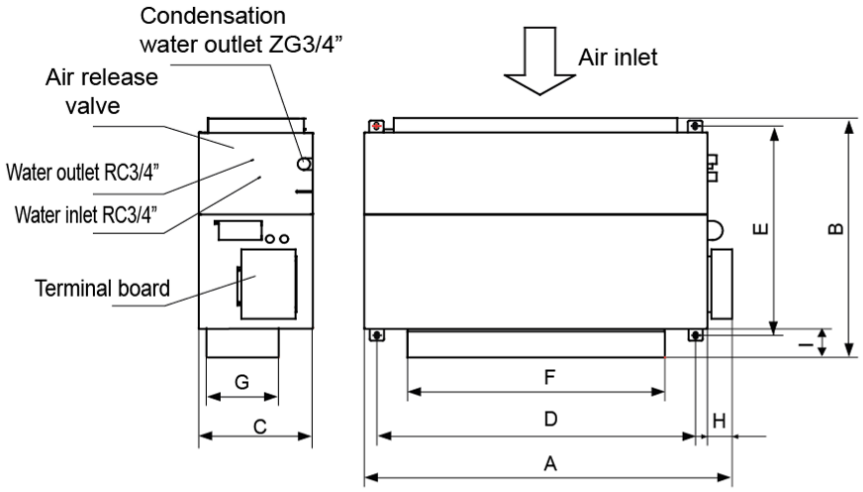
- Suspending the indoor unit
  - Use tools such as pulleys to hoist the indoor unit to the pendant bolt.
  - Use tools such as gradient to settle the indoor unit horizontally. Lack of horizontality may cause water leak.
- Connect the duct

The external static pressure is 70Pa or 100Pa, and the duct length is determined according to this parameter.

- Install the wire control switch

For installation of the wire control switch, see the installation manual of the wire controller.

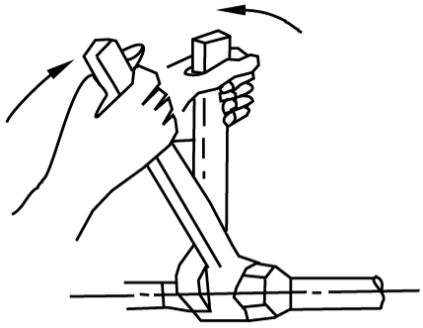
- Sample unit specification figure:



Model / Size	KFTE65H0EN1 KFTE89H0EN1 KFTE112H0EN1 KFTE120H0EN1	KFTE140H0EN1 KFTE158H0EN1 KFTE200H0EN1
A	946	1290
B	816	809
C	400	400
D	778	1118
E	767	765
F	306	900
G	219	249
H	88	88
I	37	39

8.2 Pipes Connection

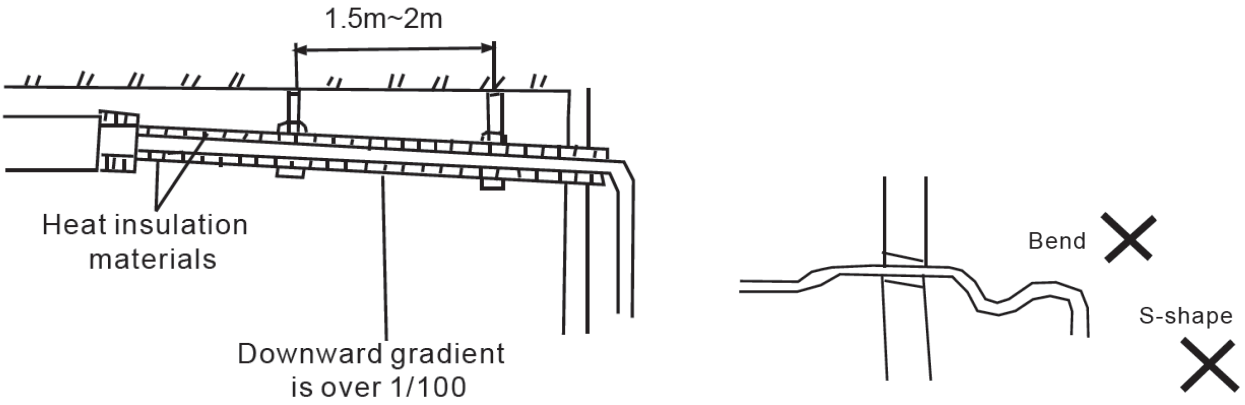
- With air release valve, the other side is water inlet pipe.
- When connect water collector, set the tightening torque to 6180~7540N.cm(630~770kgf.cm), and use a spanner to tighten it as shown in Fig..
- The diameter of connective junction in water inlet pipe and water outlet pipe is RC3/4 tapper pipe thread inside.
- The diameter of condensate pipe is ZG3/4 tapper pipe thread outside.

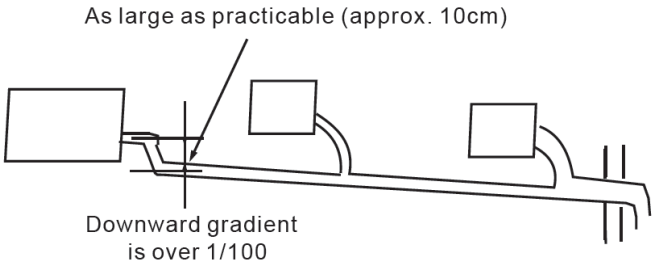


8.3 Installing Drainage Pipe

Cautions:

- Be sure to perform heat insulation for the drain pipe of the indoor unit. Otherwise, condensate will occur. The joint of the indoor unit should also undergo heat insulation treatment.
- When performing the en suite connection, use the rigid PVC binder, and make sure that no leak exists.
- Same as the joint of the indoor unit. Be careful not to apply force at the pipe side of the indoor unit.
- The downward gradient of the drain pipe should be higher than (1/100), without bend in the middle.
- The widthwise stretch of the drain pipe should be with1in 2110m. If the drain pipe is long, set up brackets to support it.
- The centralized pipes should be distributed against the figure shown on the right side.





- Drain test
  - Before the test, ensure that the drain pipes are smooth and the adapters are sealed.
  - Newly built rooms should undergo the drain test before the ceiling is laid.

8.4 Wiring

Fan coil units model	Name of cable	Cable Qty.	Specification(Optional)	Note
KFTE65H0EN1 KFTE89H0EN1 KFTE112H0EN1 KFTE120H0EN1 KFTE140H0EN1 KFTE158H0EN1 KFTE200H0EN1	Main power cord	1	RVV-300/500 3×2.5 mm^2	Owner purchase it optionally
	Controller power cord	1	RVV-300/500 3×2.0 mm^2	Owner purchase it optionally
	Control wire	1	RVV-300/500 5×1.5 mm^2	Owner purchase it optionally