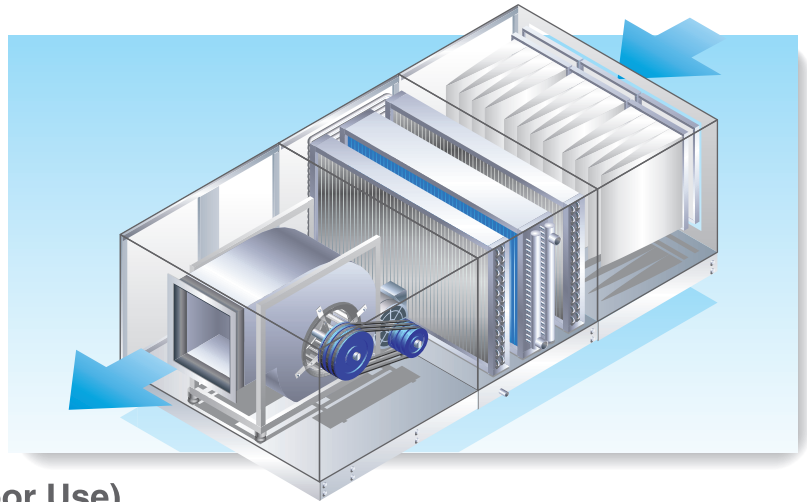


Fresh air Intake Type

FH

Energy-saving model
with built-in heat pipe



Standard Specifications (Indoor Use)

Main Component	Main Part Name	Standard Specifications
Casing	Panel	50mm thick double skinned casing panel with foamed Urethane insulation ·Internal/external panel : 0.5mm thick pre-coated steel sheet ·Density of polyurethane foam : 40[kg/m³]
	Main Frame	Steel
	Access Door	50mm thick double skinned casing panel with foamed Urethane insulation ·Internal/external panel : 0.5mm thick pre-coated steel sheet ·Density of polyurethane foam : 40[kg/m³]
	Base	Steel , Epoxy paint finished
Drain Pan	Drain Pan	Stainless steel 304
Fan & Motor	Fan	Forward wheel
	Motor	TEFC type , IP55 , Class F
	Vibration Isolator	Spring Vibration Isolator
Coil	Water Coil	Max.working pressure : 0.98 [MPa] Maximum face velocity : 3.0 [m/s]
	Main Tube	AHU Size FH-50~215 : 3/8"dia copper tube
		AHU Size FH-235~665 : 5/8"dia copper tube
	Fin	AHU Size FH-50~215 ·Aluminum , 0.115mm thickness , Bare surface ·Fin spacing : 11FPI
		AHU Size FH-235~665 ·Aluminum , 0.15mm thickness , Bare surface ·Fin spacing : 8 , 9 , 11FPI
	Header	Steel , Epoxy paint finished "Air vent with plug" and "Drain plug" is attached.
	Take-off pipe	20A~80A : Steel , MPT , Epoxy paint finished 100A , 125A : Steel , Steel pipe flanges , Epoxy paint finished
Casing	Steel , Epoxy paint finished	
Filter	Pre-filter	20mm panel type , Non-woven type EN779 Classification : G3 Size : (W)592×(H)592 , (W)592×(H)287 , (W)287×(H)592
	Main-filter	Bag type EN779 Classification : F6 , F7 , F8 Size : (W)592×(H)592 , (W)592×(H)287 , (W)287×(H)592

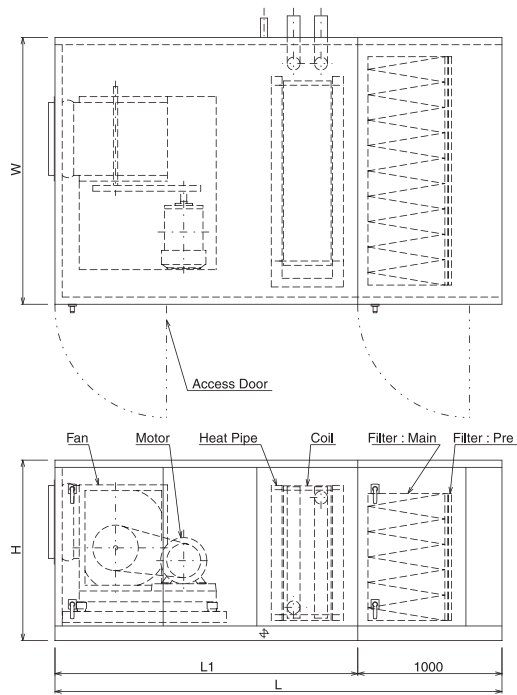
Optional Specifications

Main Component	Main Part Name	Optional Specifications
—	—	Use : Outdoor
Casing	Panel	Thicker pre-coated steel sheet available on request
	Access Door	Thicker pre-coated steel sheet available on request
Fan	Fan	Backward wheel
Coil	Water coil	Coil for higher working pressure available on request
	Fin	Pre-coated Aluminum Fin
	Header	Copper tube

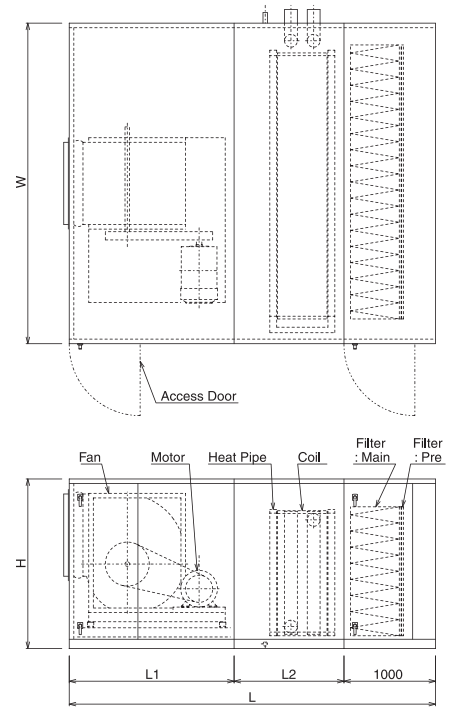
Note : Selection of optional components is subject to change in dimension from the standard.

Dimensions

FH-50~215 (Type1)



FH-235~665 (Type2)



Model	Dimensions [mm]						Maximum Fan Model	Maximum Motor Size
	W	H	L	L1	L2	Type		
FH- 50	1350	950	2700	1700	-	1	FDA 250	5.5 kW
FH- 65	1450	1000	2750	1750	-	1	FDA 280	7.5 kW
FH- 85	1550	1000	2750	1750	-	1	FDA 280	7.5 kW
FH-100	1650	1050	3050	2050	-	1	FDA 315	11 kW
FH-120	1750	1150	3050	2050	-	1	FDA 355	11 kW
FH-135	1850	1250	3100	2100	-	1	FDA 400	11 kW
FH-150	1850	1250	3100	2100	-	1	FDA 400	15 kW
FH-165	1950	1250	3100	2100	-	1	FDA 400	15 kW
FH-185	2050	1300	3100	2100	-	1	FDA 450	15 kW
FH-200	2150	1300	3100	2100	-	1	FDA 450	15 kW
FH-215	2150	1300	3100	2100	-	1	FDA 450	15 kW
FH-235	2250	1400	3650	1450	1200	2	FDA 500	15 kW
FH-250	2250	1400	3700	1500	1200	2	FDA 500	18.5 kW
FH-285	2450	1400	3700	1500	1200	2	FDA 500	18.5 kW
FH-335	2700	1550	3750	1550	1200	2	FDA 560	18.5 kW
FH-365	2700	1550	3750	1550	1200	2	FDA 560	22 kW
FH-415	2900	1700	3750	1550	1200	2	FDA 630	22 kW
FH-450	3100	1700	3850	1650	1200	2	FDA 630	30 kW
FH-500	3100	1700	3850	1650	1200	2	FDA 630	30 kW
FH-535	3300	1850	4000	1800	1200	2	FDA710	30 kW
FH-585	3300	1850	4000	1800	1200	2	FDA 710	37 kW
FH-665	3500	1850	4000	1800	1200	2	FDA 710	37 kW

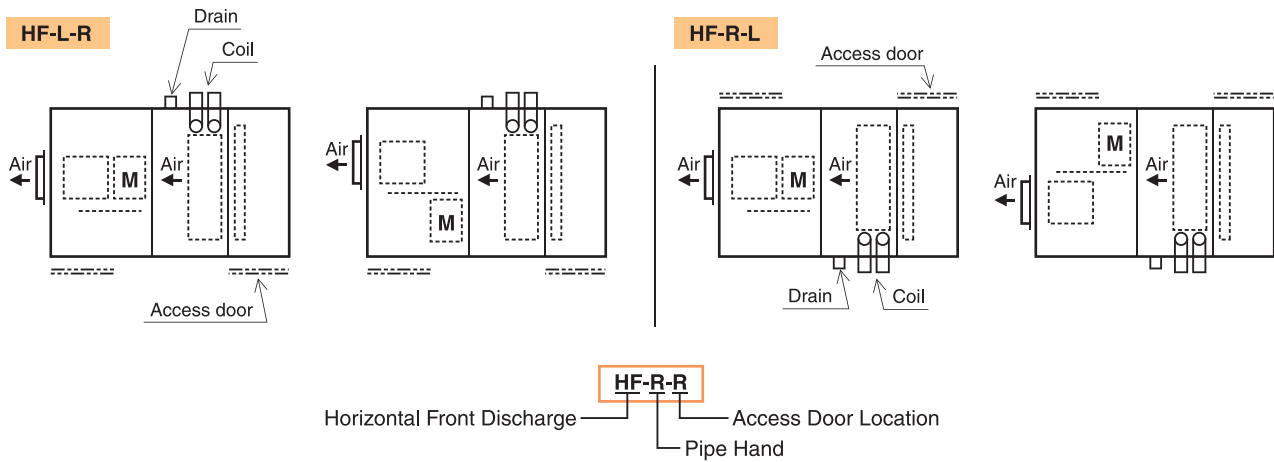


Cooling Capacity

On coil air temperature : DB39.2 [°C] / WB28.6 [°C] On coil water temperature : 7 [°C] Water temperature difference : 5 [K]

Model	Coil Face Area [m ²]	Air Volume			8 Rows			9 Rows			12 Rows		
					Capacity		Water Side Pressure Drop [kPa]	Capacity		Water Side Pressure Drop [kPa]	Capacity		Water Side Pressure Drop [kPa]
		[l/s]	[m ³ /h]	[CFM]	Sensible [kW]	Total [kW]		Sensible [kW]	Total [kW]		Sensible [kW]	Total [kW]	
FH- 50	0.280	700	2520	1487	21.85	45.52	9.8	22.99	48.92	26.5	25.04	53.27	18.6
		833	3000	1770	25.13	52.36	11.8	26.63	56.65	33.3	29.16	62.05	23.5
FH- 65	0.372	931	3350	1977	29.33	61.11	10.8	30.66	65.24	28.4	33.28	70.81	19.6
		1111	4000	2360	33.54	69.87	13.7	35.56	75.66	36.3	39.02	83.03	26.5
FH- 85	0.465	1164	4190	2472	36.85	76.78	14.7	38.58	82.08	39.2	41.78	88.90	27.5
		1389	5000	2950	42.29	88.10	17.7	43.79	91.22	7.8	48.96	104.18	35.3
FH- 100	0.554	1386	4990	2944	44.10	91.88	17.7	44.50	94.69	6.9	49.92	106.22	33.3
		1667	6000	3540	51.03	106.32	22.6	52.55	109.48	8.8	57.88	123.15	14.7
FH- 120	0.653	1633	5880	3469	51.35	109.26	27.5	52.96	112.69	10.8	58.42	124.29	17.7
		1944	7000	4130	60.12	125.26	34.3	62.34	129.87	13.7	68.05	144.79	22.6
FH- 135	0.743	1858	6690	3947	59.76	124.50	30.4	60.31	128.32	12.7	66.47	141.42	19.6
		2222	8000	4720	68.72	143.17	39.2	69.87	148.65	15.7	78.00	165.95	25.5
FH- 150	0.822	2056	7400	4366	64.90	138.08	32.4	66.90	142.33	12.7	73.56	156.50	20.6
		2500	9000	5310	77.30	161.04	42.2	80.17	167.02	16.7	87.50	186.17	27.5
FH- 165	0.939	2350	8460	4991	74.55	158.62	38.2	76.54	162.86	15.7	84.36	179.49	23.5
		2778	10000	5900	77.25	157.66	38.2	88.12	187.49	19.6	97.93	208.37	30.4
FH- 185	1.012	2531	9110	5375	82.08	170.99	47.1	82.76	176.08	18.6	91.14	193.91	28.4
		3056	11000	6490	80.18	157.22	40.2	96.93	206.24	24.5	107.73	229.21	38.2
FH- 200	1.123	2808	10110	5965	82.52	168.41	42.2	92.16	196.08	20.6	101.15	215.22	31.4
		3333	12000	7080	85.86	168.35	42.2	106.23	226.03	26.5	117.93	250.92	41.2
FH- 215	1.218	3047	10970	6472	88.32	180.25	42.2	100.09	212.95	21.6	109.76	233.53	33.3
		3611	13000	7670	91.67	179.75	42.2	115.09	244.87	27.5	126.89	269.98	42.2
FH- 235	1.299	3247	11690	6897	107.12	227.91	14.7	113.21	240.88	38.2	120.23	255.81	25.5
		3889	14000	8260	123.37	262.49	18.6	126.11	268.32	6.9	141.56	301.20	34.3
FH- 250	1.363	3408	12270	7239	112.43	239.22	16.7	115.20	245.11	6.9	126.48	269.11	29.4
		4167	15000	8850	132.18	281.24	21.6	135.12	287.48	8.8	151.67	322.71	40.2
FH- 285	1.533	3833	13800	8142	127.50	271.28	22.6	130.58	277.83	8.8	142.86	303.96	40.2
		4722	17000	10030	150.50	320.21	29.4	154.26	328.22	11.8	169.52	360.69	18.6
FH- 335	1.835	4589	16520	9747	153.87	327.38	29.4	157.22	334.50	11.8	169.36	360.35	17.7
		5556	20000	11800	173.43	361.32	34.3	183.27	389.93	14.7	200.85	427.33	22.6
FH- 365	2.038	5097	18350	10827	170.92	363.65	31.4	175.04	372.43	12.7	188.45	400.96	18.6
		6111	22000	12980	188.08	391.83	35.3	201.84	429.45	15.7	221.72	471.75	24.5
FH- 415	2.303	5758	20730	12231	193.08	410.81	35.3	198.05	421.38	13.7	213.21	453.63	20.6
		6944	25000	14750	201.92	420.66	36.3	230.99	491.46	17.7	251.96	536.08	27.5
FH- 450	2.493	6233	22440	13240	197.75	420.74	39.2	215.16	457.79	17.7	230.79	491.05	25.5
		7500	27000	15930	206.55	421.53	39.2	250.43	532.84	22.6	273.02	580.89	34.3
FH- 500	2.758	6897	24830	14650	215.37	448.68	40.2	238.67	507.80	18.6	255.51	543.64	28.4
		8333	30000	17700	225.66	451.31	41.2	278.26	592.05	24.5	303.35	645.43	37.3
FH- 535	2.961	7406	26660	15729	216.43	450.90	43.2	257.18	547.19	22.6	275.14	585.41	34.3
		8889	32000	18880	230.46	451.89	44.1	298.06	634.16	29.4	317.93	676.45	43.2
FH- 585	3.221	8053	28990	17104	235.74	481.10	44.1	279.66	595.02	24.5	299.19	636.57	35.3
		9722	35000	20650	245.55	481.47	44.1	326.00	693.61	31.4	339.91	723.21	44.1
FH- 665	3.685	9214	33170	19570	255.84	511.67	48.1	319.98	680.81	29.4	343.39	730.62	44.1
		11111	40000	23600	270.95	511.23	48.1	360.32	766.63	36.3	360.32	766.63	47.1

Piping / Access Door Arrangement



Note : R , L is decided facing air discharged from the unit.

Sound Power Level

On coil air temperature : DB39.2 [°C] / WB28.6 [°C] Off coil air temperature : DB14.0 [°C] / WB13.5 [°C] Ext Static pressure : 350[Pa]

Model	Air Volume			Fan Model	Motor Size	Estimated PWL*							
	[l/s]	[m³/h]	[CFM]			Octave Band Center Frequency [Hz]							
						63	125	250	500	1000	2000	4000	8000
FH- 50	833	3000	1770	FDA 250	4kW	95	94	93	87	83	82	79	75
FH- 65	1111	4000	2360	FDA 250	5.5kW	95	94	94	88	83	82	79	76
FH- 85	1389	5000	2950	FDA 280	5.5kW	95	93	94	92	92	94	95	94
FH- 100	1667	6000	3540	FDA 315	7.5kW	98	95	98	94	97	96	96	95
FH- 120	1944	7000	4130	FDA 315	7.5kW	98	95	97	93	96	95	96	94
FH- 135	2222	8000	4720	FDA 355	11 kW	100	97	100	93	94	91	89	86
FH- 150	2500	9000	5310	FDA 400	11 kW	106	103	102	90	84	81	78	73
FH- 165	2778	10000	5900	FDA 400	11 kW	104	101	101	90	87	82	80	76
FH- 185	3056	11000	6490	FDA 400	11 kW	103	100	100	90	90	85	83	79
FH- 200	3333	12000	7080	FDA 450	11 kW	99	96	99	95	96	94	93	91
FH- 215	3611	13000	7670	FDA 450	11 kW	100	97	98	94	96	93	92	90
FH- 235	3889	14000	8260	FDA 500	11 kW	104	100	95	87	87	81	79	74
FH- 250	4167	15000	8850	FDA 500	11 kW	102	99	96	89	91	85	84	80
FH- 285	4722	17000	10030	FDA 500	11 kW	101	98	96	90	93	87	86	82
FH- 335	5556	20000	11800	FDA 560	15 kW	101	98	96	92	95	88	87	82
FH- 365	6111	22000	12980	FDA 560	15 kW	101	98	96	91	93	87	86	80
FH- 415	6944	25000	14750	FDA 630	18.5kW	98	95	94	94	86	81	74	68
FH- 450	7500	27000	15930	FDA 630	18.5kW	101	98	94	94	88	83	78	73
FH- 500	8333	30000	17700	FDA 630	18.5kW	101	98	94	93	88	83	79	74
FH- 535	8889	32000	18880	FDA 710	22 kW	108	105	94	89	85	86	80	74
FH- 585	9722	35000	20650	FDA 710	22 kW	106	103	92	86	82	82	77	70
FH- 665	11111	40000	23600	FDA 710	30 kW	105	101	90	85	80	80	74	67

*Sound data is discharge sound PWL of independent fan assembly.

