



SPECIFICATION

Casing - Single Skinned

Casings are to be manufactured from 0.9 or 1.2mm thick galvanised mild steel suitably braced for rigidity. Access to all fan and filter compartments is to be via lift off access doors with quick release fasteners. All panels are to be flush mounted into a rebate and onto a neoprene sealing gasket.

Acoustic Lining (Optional with Single Skinned Models)

Where required acoustic lining shall be 25mm thick to building regulations class 'O' fire propagation (A) index of performance (I) ≤ 12 (B) sub index (II) ≤ 6 to BS476 Part 6, spread of flame class I to BS476 Part 7 and shall have a thermal conductive 'U' value of $1.92\text{Wm}^{-2}\text{K}^{-1}$.

Casing - Double Skinned

As single skinned models but with 0.9mm thick galvanised mild steel inner skin enclosing 25mm of 65kg/m^3 fibre glass insulation.

Fans and Motors

Fans are to be double inlet double width forward curved centrifugal housed in a purpose designed scroll with integral deep drawn inlet rings to facilitate maximum efficiency. Motors are to be isolated from the unit case and have anti-vibration mounts fitted between the motor mounting arms and the fan case.

Heaters

Heaters are to be fitted into the units on slide rails manufactured from pre - galvanised sheet steel. L.P.H.W. coils are to be constructed from copper tubes with aluminium fins. All coils are to be inspected prior to despatch and subjected to an air under water test at 1400kPa . All waterside connections are to be B.S.P.

Filters

Filters are to be 100mm deep disposable type to grade G4 to BS EN779 (EU4). They are to be for side withdrawal and mounted into the unit in slide rails manufactured from pre-galvanised sheet steel.

Quality Management

All units are to be designed and manufactured with procedures as defined in BS EN ISO 9001:2000. EEC directives shall be met.

All FFH units are to be tested to ISO 5801:1997 (airside performance) and BS 848 pt 2:1985 (sound performance)

Model	A	B	C	D	E	F	G	H	J
1	1000	350	550	450	250	125	50	155	275
2	1100	420	675	575	320	225	50	120	275
3	1200	600	675	575	500	260	75	265	235
4	1200	600	750	650	500	260	75	260	300
5	1250	600	820	720	500	290	75	235	335
6	1400	660	950	850	560	345	75	210	315

ACCESSORIES

- ◆ Intake Dampers
- ◆ Channel Supports

FAN FILTER & ELECTRIC HEATER BATTERY 220V-240 / 1PH / 50HZ

Product Code	Speed rpm	Airflow m ³ /sec @ Static Pressure Pa.										Motor Electrical Data		
		0	50	100	150	200	250	300	400	500	600	FL Amps	SC Amps	Output kW
FFHE/1	1330	0.33	0.31	0.28	0.23							1.09	2.70	0.150
FFHE/2	1120	0.56	0.50	0.44	0.37	0.28	0.13					3.20	8.00	0.373
FFHE/3	1280	-	-	-	0.71	0.66	0.60	0.52				4.80	12.0	0.373
FFHE/4	1190	1.09	1.04	0.98	0.92	0.85	0.77	0.65				6.30	15.8	0.55
FFHE/5	1210	-	-	-	-	-	1.00	0.96	0.75	0.30		5.90	14.8	0.55
FFHE/6	900	1.54	1.44	1.33	1.21	1.06	0.81					8.10	20.3	0.736

High temp cut-out and airflow switch fitted as standard.

FAN FILTER & L.P.H.W. HEATER BATTERY 220V-240 / 1PH / 50HZ

Product Code	Speed rpm	Airflow m ³ /sec @ Static Pressure Pa.										Motor Electrical Data		
		0	50	100	150	200	250	300	400	500	600	FL Amps	SC Amps	Output kW
FFHW/1	1330	0.31	0.29	0.26	0.21	0.09						1.09	2.70	0.150
FFHW/2	1120	0.44	0.39	0.34	0.28	0.21	0.12					3.20	8.00	0.373
FFHW/3	1280	-	-	0.70	0.65	0.60	0.53	0.42	0.15			4.80	12.0	0.373
FFHW/4	1190	1.02	0.97	0.90	0.84	0.76	0.67	0.54	0.20			6.30	15.8	0.55
FFHW/5	1210	-	-	-	-	-	0.97	0.92	0.60	0.24		5.90	14.8	0.55
FFHW/6	900	1.44	1.34	1.23	1.11	0.95	0.70	0.42				8.10	20.3	0.736

L.P.H.W. HEATER DATA (82°C FLOW / 71°C RET)

Unit Size	Ext Pa	Airflow m ³ /s	Airside		Waterside	
			kW	ΔT(deg C)	F/R(l/s)	Pd(kPa)
1	200	0.09	5.21	48.0	0.114	5.0
1	150	0.21	7.86	31.0	0.171	8.0
1	100	0.26	8.64	27.5	0.188	9.0
1	50	0.28	8.96	26.5	0.195	10.0
2*	250	0.12	-	-	-	-
2	200	0.21	10.65	42.0	0.232	4.0
2	150	0.28	12.17	36.0	0.265	5.0
2	100	0.34	13.35	32.5	0.291	5.0
2	50	0.39	14.13	30.0	0.308	5.0
3*	400	0.15	-	-	-	-
3	300	0.42	18.77	37.0	0.409	3.0
3	250	0.53	20.81	32.5	0.453	4.0
3	200	0.60	22.47	31.0	0.489	4.0
3	150	0.65	23.17	29.5	0.505	4.0
3	100	0.70	23.68	28.0	0.516	4.0
4*	400	0.20	-	-	-	-
4	300	0.54	22.83	35.0	0.497	3.0
4	250	0.67	25.50	31.5	0.555	3.0
4	200	0.78	26.63	29.0	0.580	4.0
4	150	0.84	27.91	27.5	0.608	4.0
4	100	0.90	28.82	26.5	0.628	4.0
4	50	0.97	29.89	25.5	0.651	4.0
5*	600	0.10	-	-	-	-
5*	500	0.24	-	-	-	-
5	400	0.60	28.62	39.5	0.623	4.0
5	300	0.92	35.01	31.5	0.762	5.0
5	250	0.97	35.74	30.5	0.778	5.0
6*	300	0.42	-	-	-	-
6	250	0.70	36.77	43.5	0.801	6.0
6	200	0.95	43.03	37.5	0.937	7.0
6	150	1.11	45.59	34.0	0.993	7.0
6	100	1.23	48.29	32.5	1.052	8.0
6	50	1.34	50.18	31.0	1.093	9.0

* Heating duties available on application.

Heating duties for 0Pa selections also available.

Flow rates must be maintained between min and max values shown for each unit size.