

MINItherm

The unique design of the MINItherm® fan coil range offers the latest double skin construction in a compact air handling unit. They are available in Horizontal or Vertical configurations making them ideal for ceilings spaces and plant rooms where space is limited.

Mater Whitty Building

The original Mater Misericordiae Public Hospital in Brisbane, now known as the Whitty Building at Mater Hill, has returned to a clinical role thanks to a \$30 million redevelopment. Mater Health Services and the University of Queensland partnered in an Alliance Agreement to transform the heritage-listed building into a modern teaching facility. With new education and teaching spaces, administrative offices and student amenities, the former hospital has transformed to a clinical teaching environment delivering customised UQ/Mater nursing and midwifery programs.

Air Design MINItherm Air Handling Units were chosen for their advanced EC technology. Furthermore, Fantech's reliability and on-time delivery was paramount as the hospital remained in operation for the duration of the project.

Location: Woolloongabba, Queensland

Consultant: Aurecon

Mechanical contractor: Cockram Construction



MINItherm®

Flinders Medical Centre

Facilities for patients and visitors at Adelaide's Flinders Medical Centre are much improved following a \$185.5 million investment. The public teaching hospital and medical school has a new rehabilitation centre; a new centre for the Older Persons' Mental Health Service; a dedicated orthogeriatric service; and new space for Southern Adelaide Palliative Services. A new multi-deck carpark provides 1,220 additional car spaces and brings visitors and patients closer to the hospital.

The upgrade has enabled improved patient safety and privacy. New gyms, a hydrotherapy pool and access to shared garden spaces add to patient wellbeing, aiding recovery and rehabilitation. Air Design MINItherm, MODUtherm and SM series air handling units optimise the indoor conditions and occupant comfort.

Location: Bedford Park, South Australia

Consultant: BCA Engineers

Mechanical contractor: West Side Mechanical

Projects



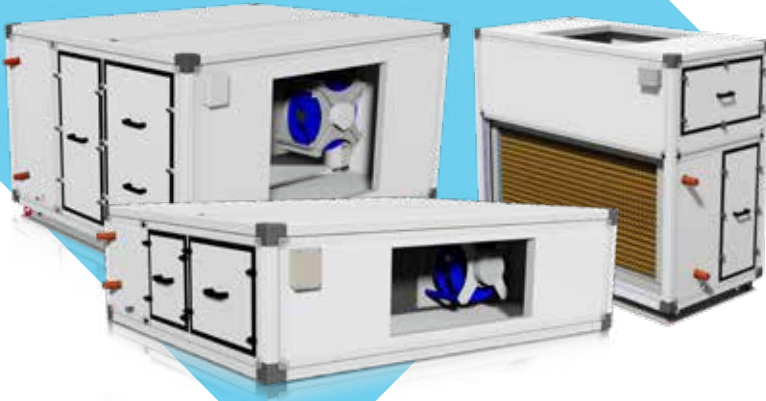


Mater Whitty Building.
Image courtesy of idec Solutions

Flinders Medical Centre

MINItherm

Modular Fan Coil Units with EC fan motors.
Up to 9,500 Litres/Sec.



The unique design of the MINItherm® fan coil range offers the latest double skin construction in a compact air handling unit. The units are available in Horizontal or Vertical configurations making them ideal for ceilings or plant rooms where space is limited.

MINItherm units are purpose-built to enable easy access for servicing and are well suited to projects where performance and value are important. They include high efficiency EC plug fans that can be controlled by MODBUS or 0-10V signal. The fans can run independently or integrated into most building management systems.

The units are constructed with 50mm thick insulated panels that are fitted with the revolutionary AHU CLIP 'n' LOCK fastening system. This airtight system includes a synthetic cord and aluminium capping that gives the unit a strong, rigid structure and allows the panels to be removed easily for maintenance and cleaning. AHU CLIP 'n' LOCK also provides a high thermal performance which reduces condensation and minimises energy loss. The high quality modular casing construction achieves both the highest degree of air tightness, rating "L1", and the highest resistance to condensation rating "TB1", as defined in BS EN 1886:2007.

Features

- High quality double skin Colorbond 50mm polyurethane panel construction that complies with National Construction Code insulation specification J5.2
- Panels have zero ozone depleting potential (0% ODP)
- High efficiency EC plug fans with integrated speed control, current overload and motor phase protection, reverse polarity, locked rotor protection and soft starting
- EC plug fan motors exceed EU's minimum level of efficiency for electric motors (IE4)
- To minimise on-site installation time fan motors are pre-wired to a junction box
- Commissioning is easier with speed controller located on the coil pipe side adjacent to fan discharge
- Chilled water cooling coils available with 3, 4, 5, 6 or 8 rows and 315, 394 or 472 fins per metre
- Hot water heating coils available with 1 or 2 rows and 315, 394 or 472 fins per metre
- Combined maximum of 8 cooling and heating coil rows per unit
- Matching filter plenums are available
- Drain tray manufactured from quality 304 grade stainless steel with 10mm polyethylene insulation (316 grade stainless steel option also available)
- Intermediate tray for stacked core is manufactured from quality 304 grade stainless steel (316 grade stainless steel option also available)

Construction

Units incorporate the unique AHU CLIP 'n' LOCK system where the removable casing panels clip into a continuous aluminium locking strip with an EPDM closed cell foam underseal. The locking strip is secured into position with a continuous synthetic cord, forming an airtight seal. MINItherm units include a modular, thermally broken aluminium frame construction with double skin, 50mm thick polyurethane-filled panels. The unit case has a Class L1 leakage rating and TB1 thermal bridging rating. Casing construction complies with National Construction Code insulation specification J5.2 (all areas except for alpine areas).

Each unit is complete with an access panel on the coil pipe side. The condensate tray is of a non-ponding design manufactured from grade 304 stainless steel. Fans are high efficiency EC plug type in a single or dual arrangement depending on the model.

Fans

- EC motors are 3 phase 415V 50-60Hz or single phase 240V 50-60Hz
- Bearings are sealed for life ball type
- Integrated EC controller for infinite speed control
- IP54 rated

Thermal Protection

Integral thermal overload protection is supplied as standard. Protection will not prevent fans from functioning in fire mode as required by AS/NZS1668.1:2015.

Suggested Specification

The Air Handling Units shall be of the MINItherm series as designed by Fantech and be of the model numbers shown on the schedule drawing.

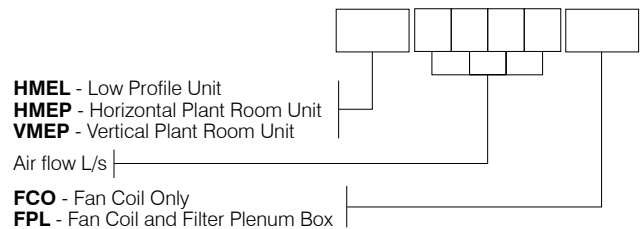
Units shall incorporate a modular, thermally broken, aluminium frame construction with double skin, 50mm thick, polyurethane-filled panels that achieve the highest degree of air tightness rating "L1", and the highest resistance to condensation, rating "TB1", as defined in BS EN 1886:2007. Panels shall also comply with the National Construction Code insulation specification J5.2 and have zero ozone depleting potential (0 % ODP).

Unit casings shall incorporate AHU CLIP 'n' LOCK removable panels that are sealed airtight by the use of a continuous clip in aluminium locking strip with a continuous EPDM closed cell foam underseal. The panels are locked into the strip with a continuous synthetic cord. The panels shall be removable without the need to remove screws or fasteners. Cooling and heating capacities and external static pressures shall be as shown on the schedule.

Units shall be complete with filter plenums with filter frames fitted. Filter plenums shall have the same construction as the Air Handling Unit.

Fans shall be backward curved centrifugal type, driven by EC motors with an IP54 rating. Fan motors shall be pre-wired to an external terminal box.

How to order



Select unit based on air flow.

Fantech to complete selection with customer, based on the required cooling coil and heating coil data.




MINItherm Low Profile Horizontal (HMEL Range)

Features a low height of only 620mm making it ideal for mounting in ceiling spaces.



MINItherm Plant Room Horizontal (HMEP Range)

Features a horizontal configuration and discharge. Suited to floor mounting in a plant room.



MINItherm Plant Room Vertical (VMEP Range)

Features a vertical configuration and discharge. Suited to floor mounting in a plant room where minimum footprint is required.



MINItherm

Technical Data Low Profile Horizontal Series



Model Number	Air Flow	External Static Pressure	Total Cooling Capacity	Sensible Cooling Capacity	Heating Capacity	No. of Fans	Absorbed Power	Fan Speed	Motor Power	Motor Full Load Current
	L/s	Pa	kW	kW	kW		kW	rps	kW	Amps
HMEL0450	450	450	12.2	8.2	8.9	1	0.5	44	0.8	3.7
HMEL0750	740	450	19.7	13.3	15.9	1	0.7	49	0.8	3.7
HMEL1000	1030	450	26.9	18.3	22.7	1	1.2	48	2.5	3.8
HMEL1300	1320	450	35.7	24.0	29.6	1	1.8	56	2.5	3.8
HMEL1600	1610	450	43.5	29.3	36.6	2	0.9 x 2	43	2.5 x 2	3.84 x 2

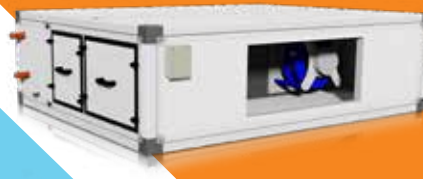
Air flow and coil performance are at 2.5m/s coil face velocity.
Cooling Capacities are based on 6 row 472fin/m coils with entering air conditions of 26/19°C and water temperatures of 6/12°C.
Heating Capacities are based on 1 row 394fin/m coils with entering air at 12°C and water temperatures of 80/65°C.
Absorbed power, motor power and current (per fan x no of fans).

Acoustic Data Low Profile Horizontal Series



Model Number	Air Flow	External Static Pressure	Sound Power Spectrum Db*								
				63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
HMEL0450	450	450	In Duct	72	68	76	72	73	72	66	63
			Breakout	63	55	61	53	52	45	35	32
HMEL0750	740	450	In Duct	71	66	76	75	76	74	70	67
			Breakout	62	54	60	57	55	47	38	35
HMEL1000	1030	450	In Duct	70	70	80	79	82	80	75	72
			Breakout	61	58	65	61	60	52	44	40
HMEL1300	1320	450	In Duct	76	74	82	85	87	85	80	77
			Breakout	67	63	68	68	65	57	49	45
HMEL1600	1610	450	In Duct	70	70	79	78	82	80	75	71
			Breakout	63	60	65	62	60	52	43	40

* Sound power includes multiple fans where applicable.



Performance Data

Cooling Coil

Low Profile Horizontal Series



Model Number	Air Flow	Cooling Coil	Air On DB / WB	Air Off DB / WB	Total Capacity	Sensible Capacity	Water Flow	Entering / Leaving water temp	Water Pressure Drop	Air Pressure Drop
	L/s	Rows / (Fins/m)	°C	°C	kW	kW	L/s	°C	kPa	Pa
HMEL0450	450	6/472	23 / 17	10.6 / 10.5	9.4	6.8	0.4	6 / 12	30	192
		6/472	26 / 19	11.1 / 11.0	12.2	8.2	0.5	6 / 12	47	192
		6/472	35 / 24	13.4 / 13.2	18.9	11.9	0.8	6 / 12	16	192
HMEL0750	740	6/472	23 / 17	10.8 / 10.6	15.1	11.1	0.6	6 / 12	15	191
		6/472	26 / 19	11.3 / 11.1	19.7	13.3	0.8	6 / 12	24	191
		6/472	35 / 24	13.1 / 12.8	31.9	19.8	1.3	6 / 12	20	191
HMEL1000	1030	6/472	23 / 17	10.4 / 10.3	22.1	15.8	0.9	6 / 12	37	190
		6/472	26 / 19	11.4 / 11.3	26.9	18.3	1.1	6 / 12	18	190
		6/472	35 / 24	13.0 / 12.8	44.6	27.7	1.8	6 / 12	22	190
HMEL1300	1320	6/472	23 / 17	10.7 / 10.5	27.3	19.9	1.1	6 / 12	23	190
		6/472	26 / 19	11.1 / 11.0	35.7	24.0	1.4	6 / 12	36	190
		6/472	35 / 24	13.6 / 13.3	54.9	34.6	2.2	6 / 12	16	190
HMEL1600	1610	6/472	23 / 17	10.4 / 10.3	34.5	24.7	1.4	6 / 12	40	190
		6/472	26 / 19	11.1 / 11.0	43.5	29.3	1.7	6 / 12	29	190
		6/472	35 / 24	12.9 / 12.7	70.1	43.4	2.8	6 / 12	28	190

Air flow and coil performance are at 2.5m/s coil face velocity.

Performance Data

Heating Coil

Low Profile Horizontal Series

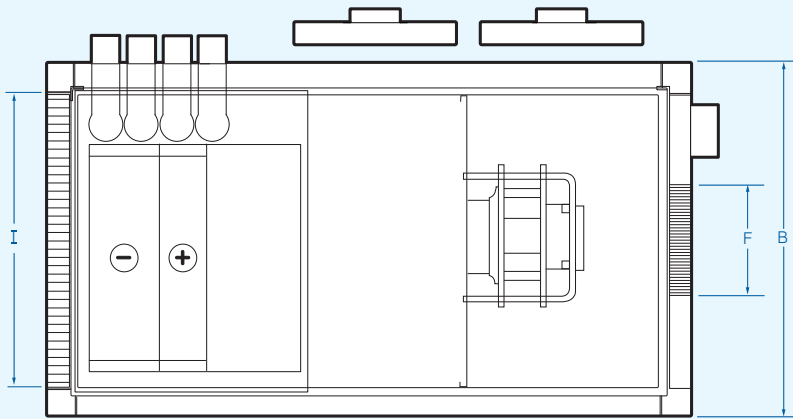


Model Number	Air Flow	Heating Coil	Air On DB	Air Off DB	Total Capacity	Water Flow	Entering / Leaving water temp	Water Pressure Drop	Air Pressure Drop
	L/s	Rows / (Fins/m)	°C	°C	kW	L/s	°C	kPa	Pa
HMEL0450	450	1 / 394	12	28.2	8.9	0.2	80 / 65	1	18
HMEL0750	740	1 / 394	12	29.5	15.9	0.3	80 / 65	3	18
HMEL1000	1030	1 / 394	12	30.1	22.7	0.4	80 / 65	7	18
HMEL1300	1320	1 / 394	12	30.3	29.6	0.5	80 / 65	13	18
HMEL1600	1610	1 / 394	12	30.6	36.6	0.6	80 / 65	22	18

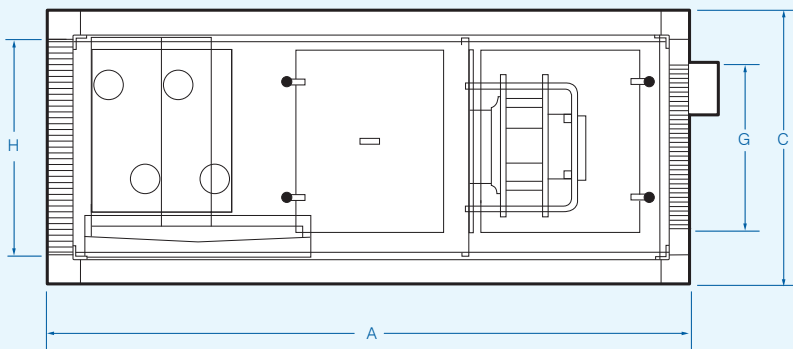
Air flow and coil performance are at 2.5m/s coil face velocity.

MINItherm

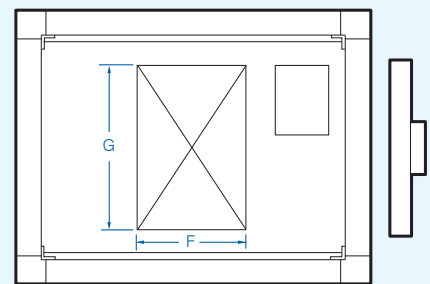
Dimensional Data Low Profile Series



Top View



Right Side View



Back View

Model Number	Length	Width	Height	S/A Opening [†]		R/A Opening [#]		Weight
	A	B	C	F	G	H	I	kg
HMEL0450-FCO	1468	810	620	300	380	470	660	117
HMEL0750-FCO	1468	1115	620	605	380	470	965	145
HMEL1000-FCO	1468	1420	620	910	380	470	1270	182
HMEL1300-FCO	1620	1725	620	1215	380	470	1575	230
HMEL1600-FCO	1620	2030	620	1520	380	470	1880	266

All dimensions in mm.
[†]S/A Opening = Outlet.
[#]R/A Opening = Inlet.



Technical Data

Horizontal & Vertical Plant Room

Model Number	Air Flow	External Static Pressure	Total Cooling Capacity	Sensible Cooling Capacity	Heating Capacity	No. of Fans	Absorbed Power	Fan Speed	Motor Power	Motor Full Load Current
	L/s	Pa	kW	kW	kW		kW	rps	kW	Amps
HMEP / VMPE0650	670	450	16.2	11.4	13.5	1	0.8	49	0.8	3.7
HMEP / VMPE1100	1100	450	29.7	20.0	23.9	1	1.4	50	2.5	3.8
HMEP / VMPE1550	1540	450	40.9	27.7	34.5	1	1.7	36	2.4	3.7
HMEP / VMPE1950	1980	310	51.6	35.2	45.0	1	2.1	40	2.4	3.7
HMEP / VMPE2400	2410	450	65.1	43.8	55.5	2	1.6 x 2	53	2.5 x 2	3.8 x 2
HMEP / VMPE3500	3630	450	94.3	63.4	79.3	2	2 x 2	38	2.4 x 2	3.7 x 2
HMEP / VMPE3100	3086	450	81.4	55.3	68.1	1	3.7	33	5.4	8.2
HMEP / VMPE3950	3958	420	106.9	71.9	88.6	1	4.4	29	5.0	7.7
HMEP / VMPE4800	4829	450	130.5	87.8	109.7	2	2.7 x 2	29	5.4 x 2	8.2 x 2
HMEP / VMPE5900	5902	450	159.5	107.3	134.1	2	3.5 x 2	32	5.4 x 2	8.2 x 2
HMEP / VMPE7000	6975	450	188.5	126.8	158.4	2	3.8 x 2	27	5 x 2	7.7 x 2
HMEP / VMPE8300	8234	450	214.7	146.4	181.7	2	4.8 x 2	30	6 x 2	9 x 2
HMEP / VMPE9500	9493	450	252.0	170.7	209.5	3	3.4 x 3	26	5 x 3	7.7 x 3

Air flow and coil performance are at 2.5m/s coil face velocity.
 Cooling Capacities are based on 6 row 472fin/m coils with entering air conditions of 26/19°C and water temperatures of 6/12 °C.
 Heating Capacities are based on 1 row 394fin/m coils with entering air at 12°C and water temperatures of 80/65 °C.
 Absorbed power, motor power and current (per fan x no of fans).
 HMEP= Horizontal MINItherm EC Plantroom, VMPE=Vertical MINItherm Plantroom.

Acoustic Data

Horizontal & Vertical Plant Room

Model Number	Air Flow	External Static Pressure	Sound Power Spectrum dB*								
				63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
HMEP / VMPE0650	670	450	In Duct	70	65	75	74	76	74	69	66
			Breakout	61	52	60	55	54	46	38	34
HMEP / VMPE1100	1100	450	In Duct	71	71	80	80	83	81	77	73
			Breakout	62	58	65	61	61	53	45	41
HMEP / VMPE1550	1540	450	In Duct	68	68	80	77	79	76	72	73
			Breakout	60	56	65	59	57	47	40	41
HMEP / VMPE1950	1980	310	In Duct	73	75	86	81	84	82	76	82
			Breakout	65	63	72	64	62	53	44	50
HMEP / VMPE2400	2410	450	In Duct	76	76	83	86	88	86	82	78
			Breakout	68	65	69	69	65	57	49	45
HMEP / VMPE3500	3630	450	In Duct	79	81	90	88	88	82	79	77
			Breakout	70	70	75	70	64	52	45	43
HMEP / VMPE3100	3086	450	In Duct	71	69	84	79	82	78	73	77
			Breakout	61	57	69	61	58	48	40	44
HMEP / VMPE3950	3958	420	In Duct	79	83	92	89	86	80	80	80
			Breakout	70	70	77	71	62	50	46	47
HMEP / VMPE4800	4829	450	In Duct	78	83	90	87	85	81	76	73
			Breakout	70	71	75	69	62	51	43	39
HMEP / VMPE5900	5902	450	In Duct	81	84	92	90	90	84	81	79
			Breakout	73	72	77	72	65	54	47	45
HMEP / VMPE7000	6975	450	In Duct	79	85	93	89	86	80	79	78
			Breakout	70	73	79	71	62	49	45	43
HMEP / VMPE8300	8234	450	In Duct	85	86	96	93	90	85	83	82
			Breakout	77	75	82	74	65	54	48	47
HMEP / VMPE9500	9493	450	In Duct	79	88	91	89	86	80	79	76
			Breakout	71	77	77	70	61	49	44	42

* Sound power includes multiple fans where applicable.
 HMEP= Horizontal MINItherm EC Plantroom, VMPE=Vertical MINItherm Plantroom.

MINItherm

Performance Data Cooling Coil Horizontal & Vertical Plant Room



Model Number	Air Flow	Cooling Coil Rows / (Fins/m)	Air On DB / WB	Air Off DB / WB	Total Capacity kW	Sensible Capacity kW	Water Flow L/s	Entering / Leaving water temp	Water Pressure Drop kPa	Air Pressure Drop Pa
	L/s		°C	°C				°C		
HMEP / VMEP0650	670	6/472	23 / 17	10.4 / 10.3	14.4	10.3	0.6	6 / 12	43	189
			26 / 19	12.1 / 11.9	16.2	11.4	0.6	6 / 12	6	189
			35 / 24	13.4 / 13.2	28.2	17.7	1.1	6 / 12	17	189
HMEP / VMEP1100	1100	6/472	23 / 17	10.8 / 10.6	22.5	16.4	0.9	6 / 12	15	188
			26 / 19	11.1 / 11.0	29.7	20.0	1.2	6 / 12	25	188
			35 / 24	12.9 / 12.7	47.9	29.7	1.9	6 / 12	23	188
HMEP / VMEP1550	1540	6/472	23 / 17	10.4 / 10.3	33.0	23.7	1.3	6 / 12	38	189
			26 / 19	11.3 / 11.1	40.9	27.7	1.6	6 / 12	22	189
			35 / 24	12.9 / 12.7	67.0	41.5	2.7	6 / 12	27	189
HMEP / VMEP1950	1980	6/472	23 / 17	10.6 / 10.4	41.7	30.1	1.7	6 / 12	27	190
			26 / 19	11.4 / 11.3	51.6	35.2	2.1	6 / 12	19	190
			35 / 24	13.6 / 13.3	82.3	51.9	3.3	6 / 12	25	190
HMEP / VMEP2400	2410	6/472	23 / 17	10.4 / 10.3	51.7	37.0	2.1	6 / 12	45	189
			26 / 19	11.1 / 11.0	65.1	43.8	2.6	6 / 12	33	189
			35 / 24	12.9 / 12.7	104.9	65.0	4.2	6 / 12	42	189
HMEP / VMEP3500	3630	6/472	23 / 17	10.4 / 10.3	74.9	53.6	3.0	6 / 12	42	190
			26 / 19	11.1 / 11.0	94.3	63.4	3.7	6 / 12	31	190
			35 / 24	12.9 / 12.7	151.9	94.1	6.0	6 / 12	34	190
HMEP / VMEP3100	3086	6/472	23 / 17	10.4 / 10.3	66.2	47.4	2.6	6 / 12	37	190
			26 / 19	11.3 / 11.2	81.4	55.3	3.2	6 / 12	19	190
			35 / 24	13.0 / 12.8	133.6	82.9	5.3	6 / 12	23	190
HMEP / VMEP3950	3958	6/472	23 / 17	10.7 / 10.5	81.9	59.5	3.3	6 / 12	23	190
			26 / 19	11.1 / 11.0	106.9	71.9	4.2	6 / 12	36	190
			35 / 24	12.4 / 12.2	178.0	109.1	7.1	6 / 12	44	190
HMEP / VMEP4800	4829	6/472	23 / 17	10.4 / 10.3	103.6	74.2	4.1	6 / 12	40	190
			26 / 19	11.1 / 11.0	130.5	87.8	5.2	6 / 12	30	190
			35 / 24	12.9 / 12.7	210.2	130.2	8.3	6 / 12	31	190
HMEP / VMEP5900	5902	6/472	23 / 17	10.4 / 10.3	126.6	90.7	5.0	6 / 12	42	190
			26 / 19	11.1 / 11.0	159.5	107.3	6.3	6 / 12	29	190
			35 / 24	12.9 / 12.7	256.9	159.2	10.2	6 / 12	30	190
HMEP / VMEP7000	6975	6/472	23 / 17	10.4 / 10.3	149.6	107.2	5.9	6 / 12	42	190
			26 / 19	11.1 / 11.0	188.5	126.8	7.5	6 / 12	31	190
			35 / 24	12.9 / 12.7	303.6	188.1	12.0	6 / 12	34	190
HMEP / VMEP8300	8234	6/472	23 / 17	10.4 / 10.3	176.6	126.6	7.0	6 / 12	31	190
			26 / 19	11.4 / 11.3	214.7	146.4	8.5	6 / 12	20	190
			35 / 24	12.9 / 12.4	366.3	225.3	14.5	6 / 12	52	190
HMEP / VMEP9500	9493	6/472	23 / 17	10.4 / 10.3	203.6	145.9	8.1	6 / 12	44	190
			26 / 19	11.3 / 11.1	252.0	170.7	10.0	6 / 12	29	190
			35 / 24	12.3 / 12.1	431.5	263.5	17.1	6 / 12	76	190

Air flow and coil performance are at 2.5m/s coil face velocity.
HMEP= Horizontal MINItherm EC Plantroom, VMEP=Vertical MINItherm Plantroom.

Performance Data Heating Coil Horizontal & Vertical Plant Room

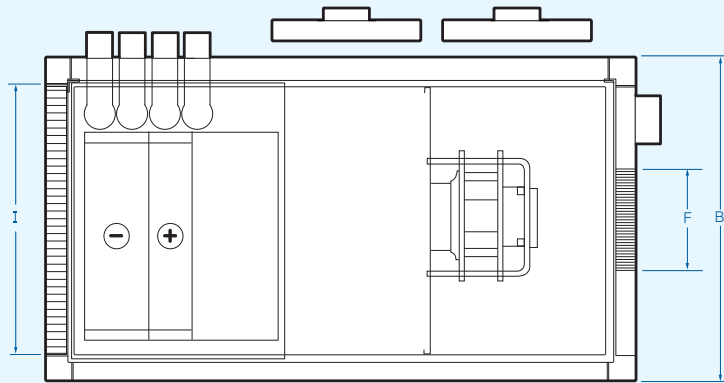


Model Number	Air Flow	Heating Coil Rows / (Fins/m)	Air On DB	Air Off DB	Total Capacity kW	Water Flow L/s	Entering / Leaving water temp	Water Pressure Drop kPa	Air Pressure Drop Pa
	L/s		°C	°C			°C		
HMEP / VMEP0650	670	1 / 394	12	28.5	13.5	0.2	80 / 65	1	18
HMEP / VMEP1100	1100	1 / 394	12	29.8	23.9	0.4	80 / 65	3	18
HMEP / VMEP1550	1540	1 / 394	12	30.3	34.5	0.6	80 / 65	8	18
HMEP / VMEP1950	1980	1 / 394	12	30.6	45.0	0.7	80 / 65	16	18
HMEP / VMEP2400	2410	1 / 394	12	30.9	55.5	0.9	80 / 65	27	18
HMEP / VMEP3500	3630	1 / 394	12	30.6	79.3	1.3	80 / 65	25	18
HMEP / VMEP3100	3086	1 / 394	12	30.1	68.1	1.1	80 / 65	7	18
HMEP / VMEP3950	3958	1 / 394	12	30.3	88.6	1.5	80 / 65	13	18
HMEP / VMEP4800	4829	1 / 394	12	30.6	109.7	1.8	80 / 65	22	18
HMEP / VMEP5900	5902	1 / 394	12	30.6	134.1	2.2	80 / 65	19	18
HMEP / VMEP7000	6975	1 / 394	12	30.6	158.4	2.6	80 / 65	25	18
HMEP / VMEP8300	8234	1 / 394	12	30.1	181.7	3.0	80 / 65	5	18
HMEP / VMEP9500	9493	1 / 394	12	30.1	209.5	3.4	80 / 65	7	18

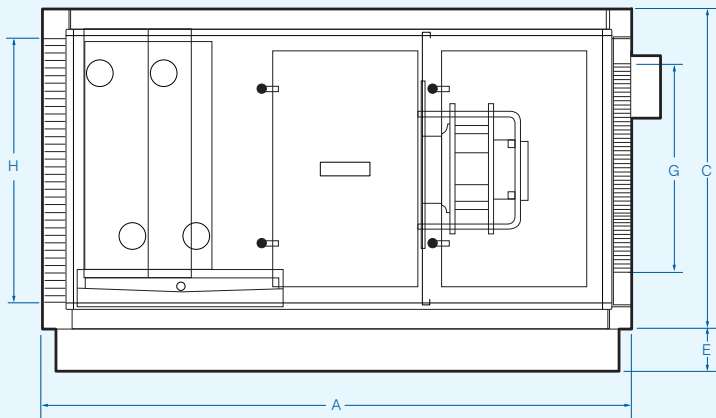
Air flow and coil performance are at 2.5m/s coil face velocity.
HMEP= Horizontal MINItherm EC Plantroom, VMEP=Vertical MINItherm Plantroom.



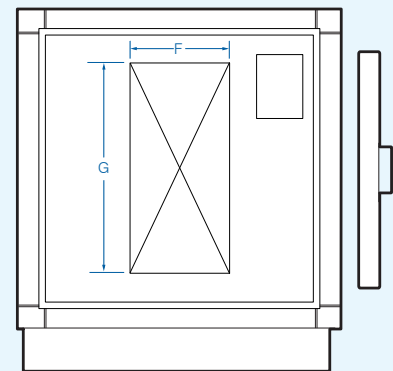
Dimensional Data Horizontal Plant Room



Top View



Right Side View



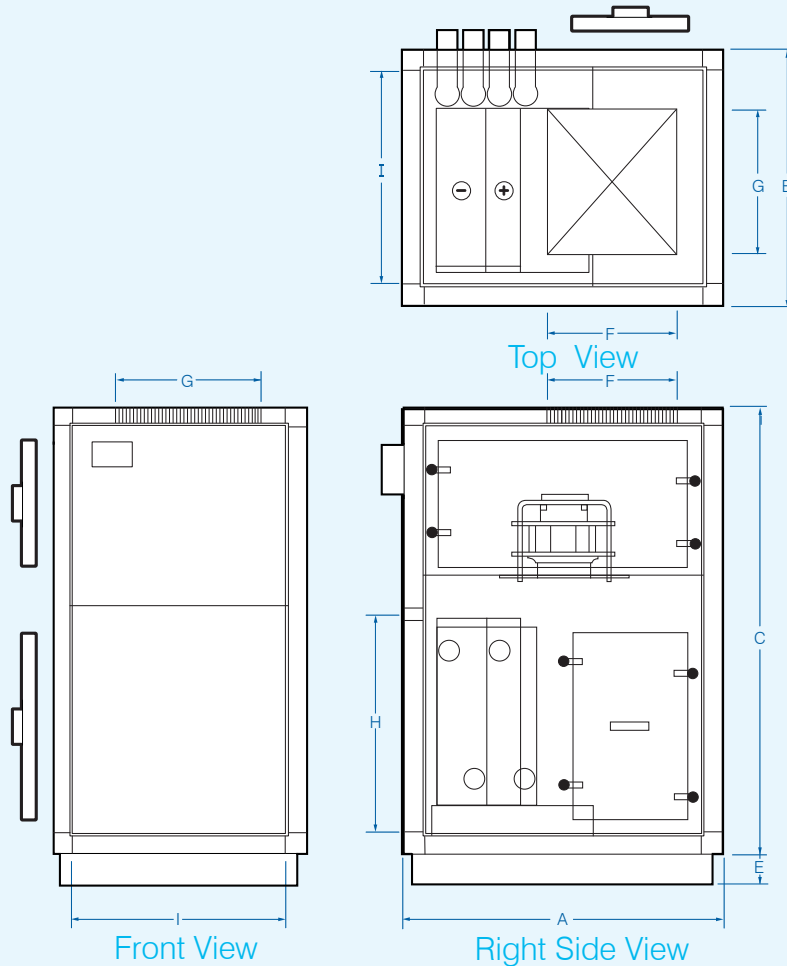
Back View

Model Number	Length	Width	Height	Base Height	S/A Opening*		R/A Opening#		Weight
	A	B	C	E	F	G	I	H	kg
HMEP0650-FCO	1468	810	810	100	300	570	660	660	177
HMEP1100-FCO	1468	1115	810	100	605	570	965	660	216
HMEP1550-FCO	1620	1420	810	100	910	570	1270	660	268
HMEP1950-FCO	1620	1725	810	100	1215	570	1575	660	309
HMEP2400-FCO	1620	2030	810	100	1520	570	1880	660	362
HMEP3100-FCO	1620	1420	1420	100	910	1180	1270	1270	406
HMEP3500-FCO	1620	2030	1115	100	1520	875	1880	965	428
HMEP3950-FCO	1620	1725	1420	100	1215	1180	1575	1270	461
HMEP4800-FCO	1925	2030	1420	100	1520	1180	1880	1270	552
HMEP5900-FCO	1925	2030	1725	100	1520	1485	1880	1575	648
HMEP7000-FCO	1925	2030	2030	100	1520	1790	1880	1880	711
HMEP8300-FCO	1925	2335	2030	100	1825	1790	2185	1880	794
HMEP9500-FCO	1925	2640	2030	100	2130	1790	2490	1880	909

All dimensions in mm.
* SA Opening = Outlet.
R/A Opening = Inlet.

MINItherm

Dimensional Data Vertical Plant Room



Model Number	Length	Width	Height	Base Height	S/A Opening*		R/A Opening [#]		Weight
	A	B	C	E	F	G	H	I	kg
VMEP0650-FCO	1010	810	1420	100	380	585	660	660	166
VMEP1100-FCO	1010	1115	1420	100	380	890	660	965	214
VMEP1550-FCO	1010	1420	1420	100	380	1195	660	1270	264
VMEP1950-FCO	1010	1725	1420	100	380	1500	660	1575	302
VMEP2400-FCO	1010	2030	1420	100	380	1805	660	1880	363
VMEP3100-FCO	1010	2030	1725	100	480	1195	1270	1270	422
VMEP3500-FCO	1010	1420	2230	100	380	1805	965	1880	446
VMEP3950-FCO	1010	1725	2230	100	480	1500	1270	1575	481
VMEP4800-FCO	1010	2030	2230	100	480	1805	1270	1880	594
VMEP5900-FCO	1010	2030	2535	100	480	1805	1575	1880	660
VMEP7000-FCO	1010	2030	2840	100	480	1805	1880	1880	716
VMEP8300-FCO	1010	2335	2840	100	480	2110	1880	2185	807
VMEP9500-FCO	1010	2640	2840	100	480	2415	1880	2490	924

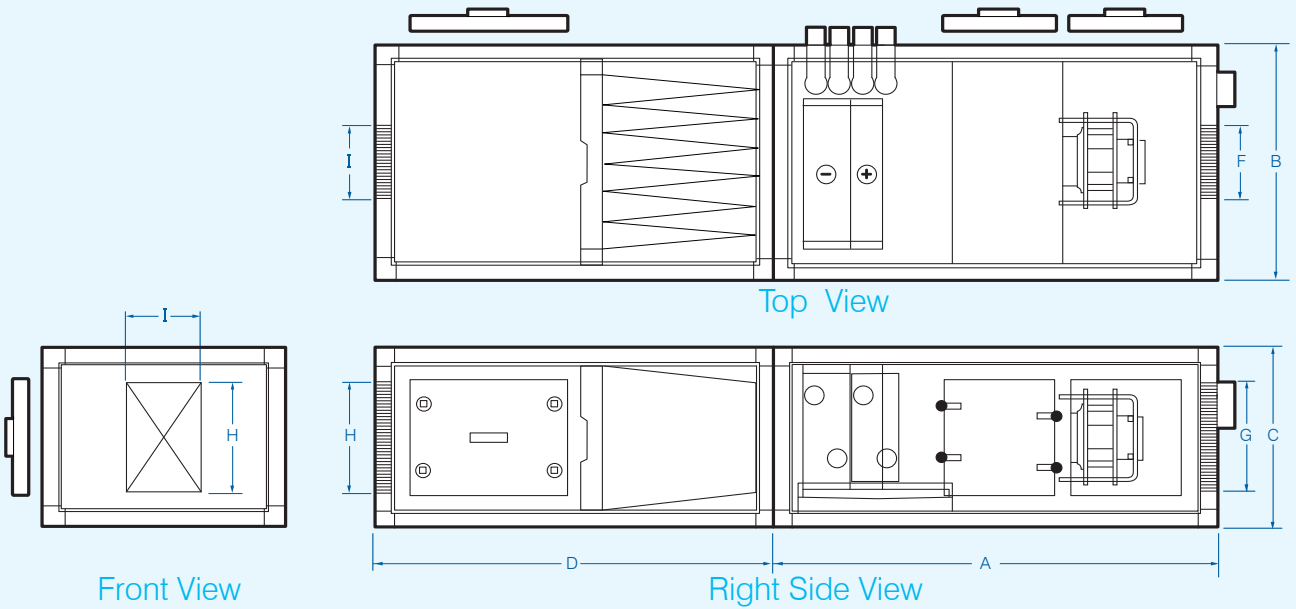
All dimensions in mm.
 *S/A Opening = Outlet.
[#]R/A Opening = Inlet.



Dimensional Data

Filter & Mixing Box

Low Profile Series

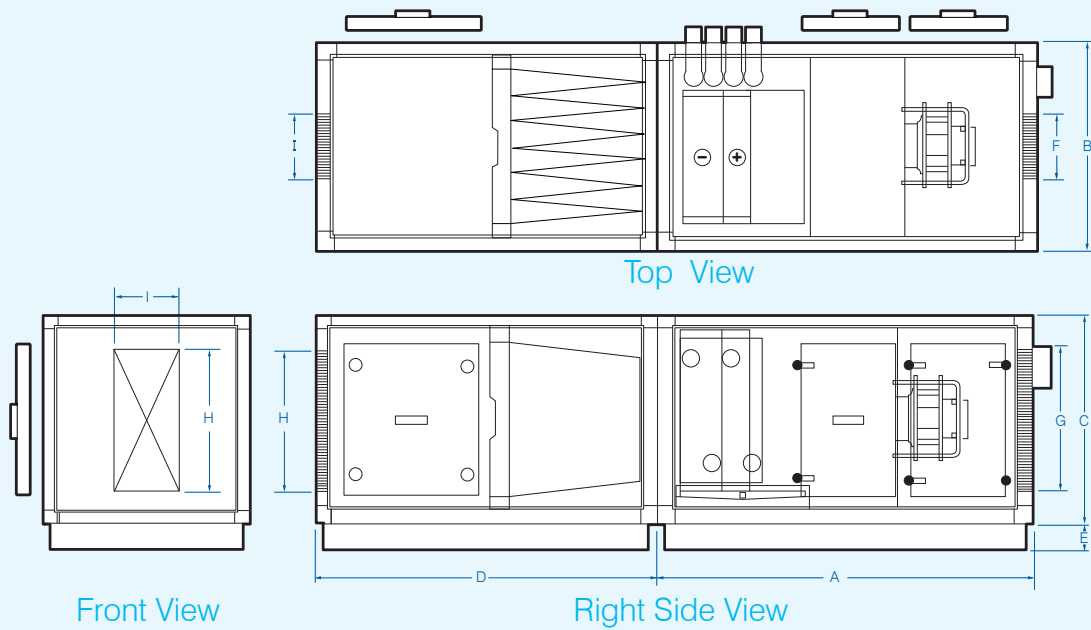


Model Number	Length	Width	Height	FPL Length	S/A Opening*		R/A Opening [#]		Weight kg
	A	B	C	D	F	G	H	I	
HMEL0450-FPL	1468	810	620	1315	300	380	380	570	66
HMEL0750-FPL	1468	1115	620	1315	605	380	380	875	79
HMEL1000-FPL	1468	1420	620	1315	910	380	380	1180	92
HMEL1300-FPL	1620	1725	620	1315	1215	380	380	1485	106
HMEL1600-FPL	1620	2030	620	1315	1520	380	380	1790	119

All dimensions in mm.
 *S/A Opening = Outlet.
 #R/A Opening = Inlet.

MINItherm

Dimensional Data Filter & Mixing Box Horizontal Plant Room



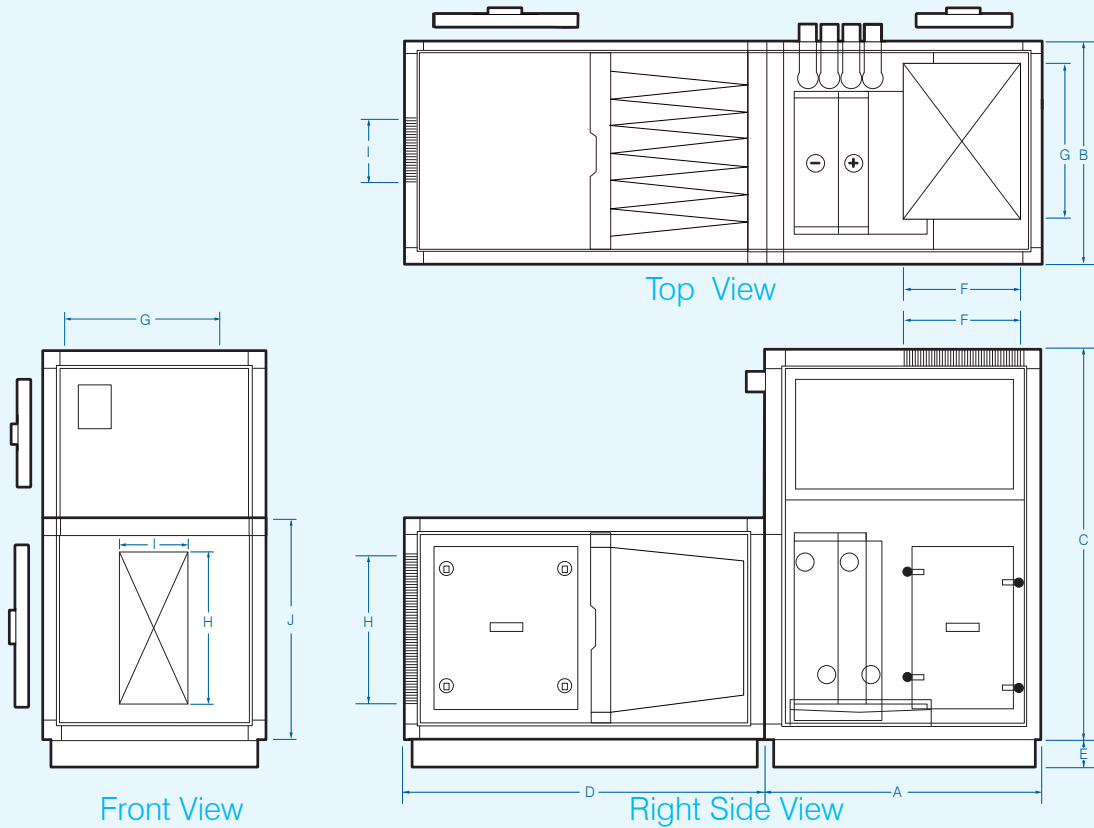
Model Number	Length	Width	Height	FPL Length	Base Height	S/A Opening*		R/A Opening#		Weight
	A	B	C	D	E	F	G	H	I	kg
HMEP0650-FPL	1468	810	810	1315	100	300	570	570	570	272
HMEP1100-FPL	1468	1115	810	1315	100	605	570	570	875	333
HMEP1550-FPL	1620	1420	810	1315	100	910	570	570	1180	412
HMEP1950-FPL	1620	1725	810	1315	100	1215	570	570	1485	475
HMEP2400-FPL	1620	2030	810	1315	100	1520	570	570	1790	557
HMEP3100-FPL	1620	1420	1420	1315	100	1520	875	1180	910	625
HMEP3500-FPL	1620	2030	1115	1315	100	910	1180	570	1790	658
HMEP3950-FPL	1620	1725	1420	1315	100	1215	1180	1180	1215	709
HMEP4800-FPL	1925	2030	1420	1315	100	1520	1180	1180	1520	849
HMEP5900-FPL	1925	2030	1725	1315	100	1520	1485	1200	1520	997
HMEP7000-FPL	1925	2030	2030	1315	100	1520	1790	1200	1685	1094
HMEP8300-FPL	1925	2335	2030	1315	100	1825	1790	1200	1825	1221
HMEP9500-FPL	1925	2640	2030	1315	100	2130	1790	1200	2130	1398

* S/A Opening = Outlet

All dimensions in mm.
R/A Opening = Inlet.



Dimensional Data Filter & Mixing Box Vertical Plant Room



Model Number	Length	Width	Height	FPL Length	FPL Height	Base Height	S/A Opening*		R/A Opening#		Weight kg
	A	B	C	D	J	E	F	G	H	I	
VMEP0650-FPL	1010	810	1420	1315	810	100	380	585	570	570	275
VMEP1100-FPL	1010	1115	1420	1315	810	100	380	890	570	875	340
VMEP1550-FPL	1010	1420	1420	1315	810	100	380	1195	570	1180	420
VMEP1950-FPL	1010	1725	1420	1315	810	100	380	1500	570	1485	480
VMEP2400-FPL	1010	2030	1420	1315	810	100	380	1805	570	1790	585
VMEP3100-FPL	1010	2030	1725	1315	1115	100	480	1195	1180	910	630
VMEP3500-FPL	1010	1420	2230	1315	1420	100	380	1805	570	1790	660
VMEP3950-FPL	1010	1725	2230	1315	1420	100	480	1500	1180	1215	725
VMEP4800-FPL	1010	2030	2230	1315	1420	100	480	1805	1180	1520	890
VMEP5900-FPL	1010	2030	2535	1315	1725	100	480	1805	1200	1520	985
VMEP7000-FPL	1010	2030	2840	1315	2030	100	480	1805	1200	1685	1022
VMEP8300-FPL	1010	2335	2840	1315	2030	100	480	2110	1200	1825	1235
VMEP9500-FPL	1010	2640	2840	1315	2030	100	480	2415	1200	2130	1310

* S/A Opening = Outlet
R/A Opening = Inlet

All dimensions in mm.