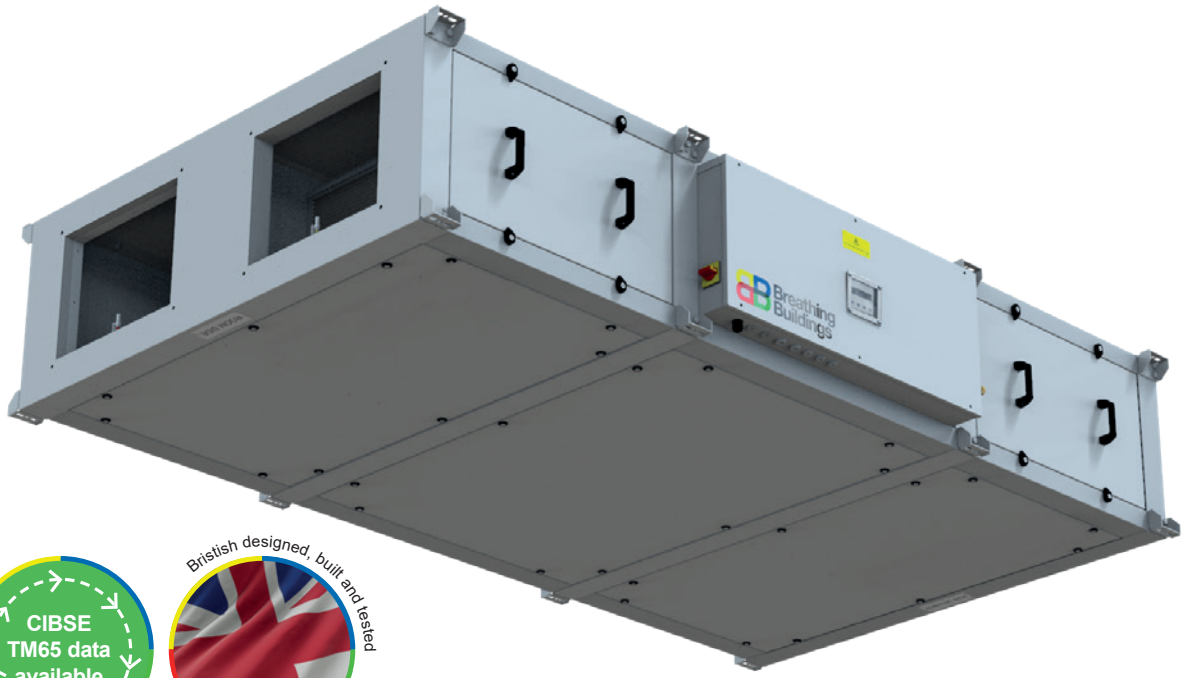
Breathing Buildings



CIBSE TM65 data available

Bristish designed, built and tested

NEW MVHRe

Industry-leading, energy efficient heat recovery ventilation units designed to help you achieve your Net-Zero ambitions in commercial applications.

www.breathingbuildings.com/mvhre

MVHRe

Key Points

- Designed to be installed within ceiling voids or on roofs, ensuring a seamless environment
- Super quiet, independently verified sound levels
- Utilising IE 5 equivalent motors to deliver low specific fan power
- Heat recovery efficiency up to 93% tested in accordance with European standard (EN308)
- Automatic summer bypass sized to eliminate performance loss
- Incorporates filters ePM10 50% and ePM1 55% to improve indoor air quality
- Filters easily accessed from beneath or the side of the unit to aid maintenance
- Digital on board controller and remote room controller as standard
- Wired and Wireless communication sensors available
- Integral condensate tray and pump
- Electric frost protection heater as standard

British designed and manufactured for quality and high performance

British designed and built to last, the MVHRe range is manufactured with a double skinned pentapost construction incorporating aluzinc frames and panels. The panels are acoustically and thermally treated with 90kg/m^3 high efficiency acoustic and thermally insulating foam (fire retardant to BS476 Part 7 Class 1 & Part 6 Class O). The construction of the unit, IPX4, allows for internal and external mounting as standard, however, the roof assembly should be included for full external locations.

The housing is designed to be as compact as possible for concealed false ceiling applications with top and bottom access panels for maintenance. Access panels are sized to enable single person maintenance.

Ease of Maintenance

To facilitate normal access and maintenance to the unit there are both side and bottom access panels as standard. Should it be required, all panels are removable allowing access and removal of the heat recovery cell and all other components. A lockable isolator is fitted to the control panel preventing accidental operation whilst any maintenance is being carried out.

The MVHRe benefits from fans designed with the latest EC/DC motors specifically chosen for their low power consumption and low noise characteristics. The assembly is dynamically balanced to DIN ISO 1940 Grade 6.3. Ball bearings are greased for life. Insulation is Class 'B' (from -25°C to +60°C). All models incorporate internal electronic overload protection and a soft start function.

The MVHRe range is complete as standard with ISO ePM10 50% (M5) extract filter and ISO ePM1 55% (F7) supply, complete with a filter change warning. Filters have been selected to fully comply with the requirements of ISO16890 whilst having low pressure loss characteristics.

An integral electric frost heater is included to provide frost protection of the cell and filters down to -10°C.

The unit is complete with an integral summer bypass facility which has been designed to provide full bypass without impact to the airflow or power consumption of the unit whilst in bypass mode.

Airflow and power consumption tested in accordance with BS EN 5801. Sound data derived from independent testing at Sound Research Laboratories in accordance with EN ISO 3741:2010. Published dB(A) figures are free field sound pressure levels at 3m with spherical propagation at a reference level of 2 x 10^{-5} Pa. The inlet/outlet sound power level spectra figures are dB with a reference of 10^{-12} watts.

An integral condensate tray is fitted along with an internal quiet running high quality pump allowing for removal of the condensate via a 10mm condensate pipe.

The electrical supply for most of the unit is 230V +/- 10% / 50 / 60Hz / 1ph. A 24V DC power is available from the unit for powering any of the matched sensors and switches.

Controls and Sensors

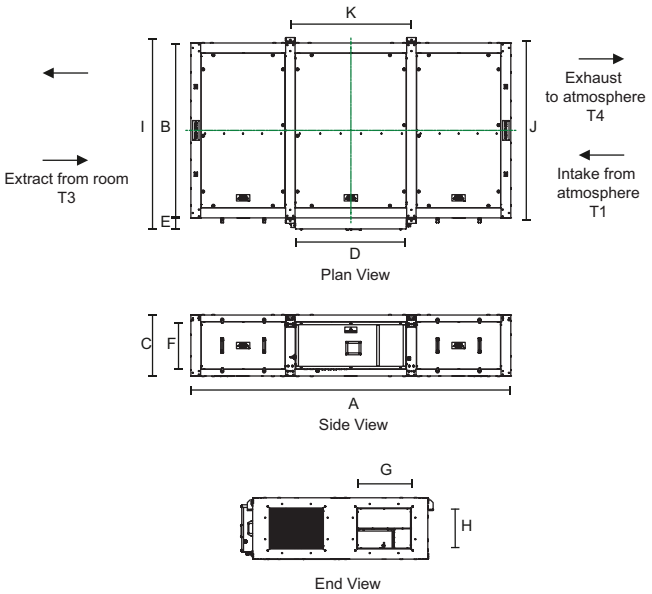
A new advanced control system provides on board control, in room control full functionality commissioning and monitoring is simply provided. This control can be coupled with Breathing Buildings's new range of sensors with wired or wireless communication providing close control of, and monitoring of your indoor air quality. Sensors include CO_2, humidity and temperature and provide both proportional and switch control.

The MVHRe range is fitted with an integrated control system as standard with a purpose designed user interface controller incorporating an alphanumerical 2 line display with 4 button keypad for fan status and a basic commissioning setup mounted within the control panel. A remote HMI is also included for that can be mounted within the room that is being ventilated. This allows for local monitoring of the unit along with the commissioning set-up.

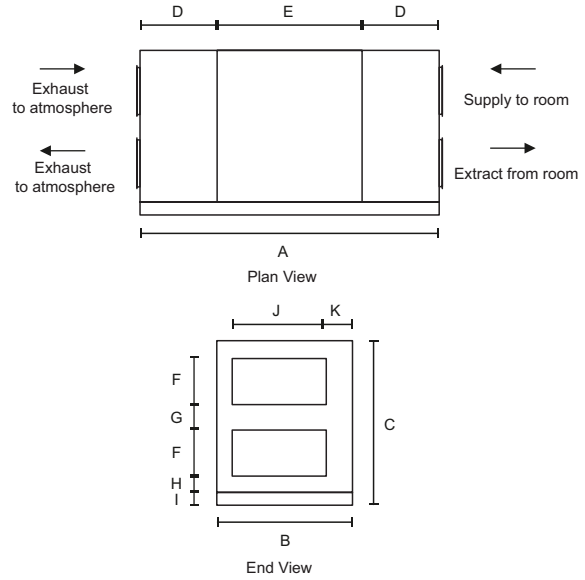
A full range of sensors are available including humidity, temperature and CO_2 monitoring. These sensors are available for both wired and wireless communication with the wireless sensors being either local mains or battery powered.

Dimensions (mm)

MVHRe 600/1000/1500/2100

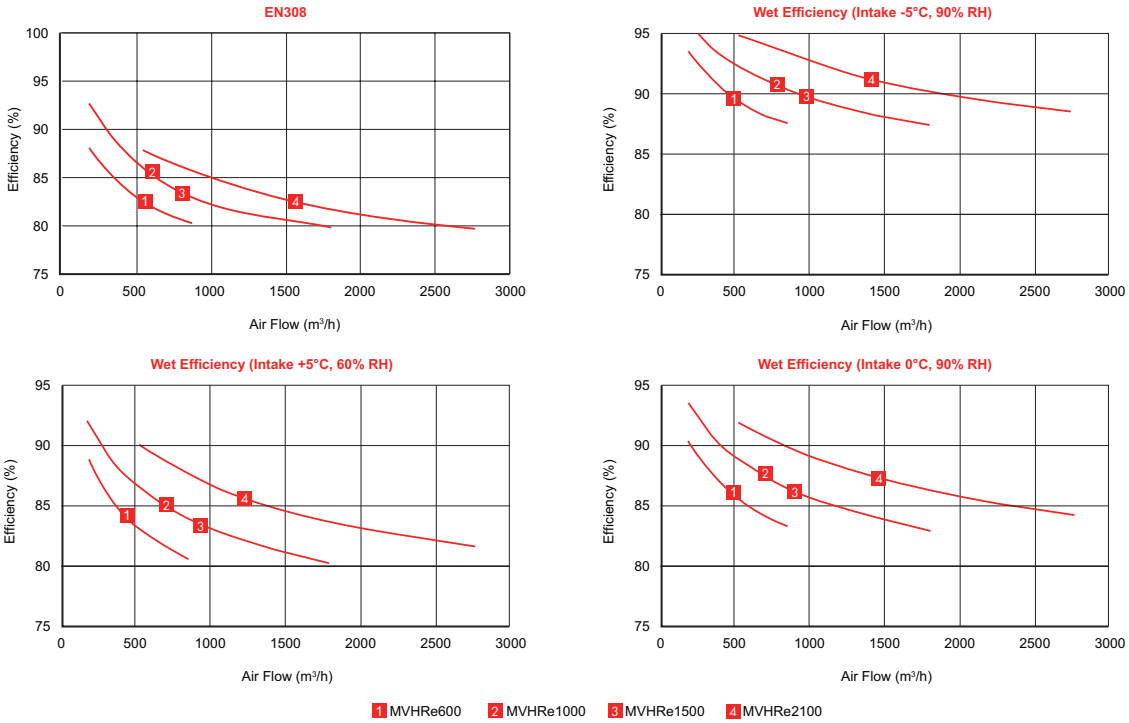


MVHRe 4000



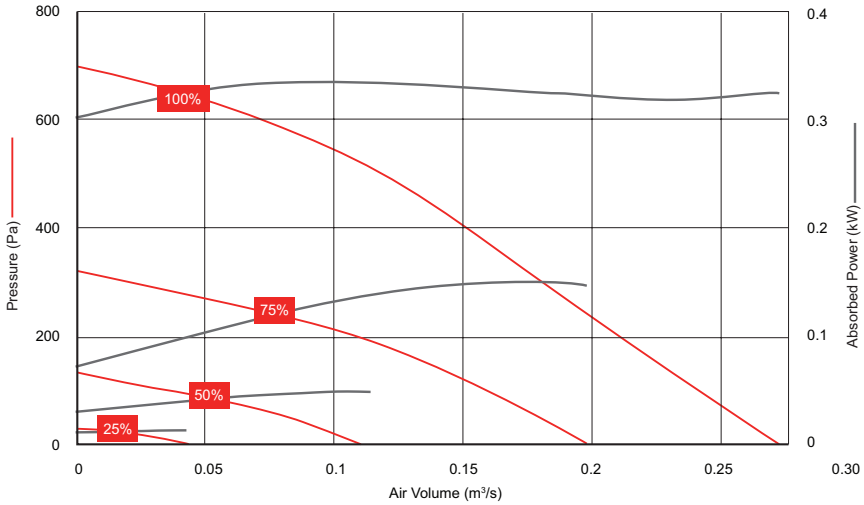
Model	A (LENGTH)	B (WIDTH)	C (HEIGHT)	D	E	F	G	H	I	J	K	kg
MVHRe 600	2141	1323	350	719	89	248	400	200	1450	1363	791	275
MVHRe 1000	2400	1312	460	831	88	356	400	300	1440	1353	908	338
MVHRe 1500	2400	1312	460	831	88	356	400	300	1440	1353	908	348
MVHRe 2100	2965	1319	620	1024	88	518	500	400	1446	1359	1097	470
MVHRe 4000	2541	1161	1427	653	1235	400	217	145	120	800	230	519

Heat Recovery Efficiency



MVHRe 600

Performance Guide



Speed		Airflow, m³/s @ Pa 0	25	50	100	150	200	250	300	400	500	Fans F.L.C.	Supply Voltage	Frost Heater	Unit Rated Current
100%	m³/s	0.27	0.27	0.26	0.24	0.22	0.21	0.19	0.18	0.15	0.12				
	SFP	1.19	1.21	1.25	1.34	1.42	1.51	1.67	1.82	2.19	2.78				
	kW	0.323	0.320	0.320	0.318	0.318	0.318	0.320	0.323	0.334	0.334				
75%	m³/s	0.20	0.19	0.18	0.16	0.13	0.11	0.07							
	SFP	0.73	0.77	0.84	0.93	1.07	1.23	1.66							
	kW	0.144	0.145	0.147	0.147	0.143	0.132	0.116							
50%	m³/s	0.11	0.10	0.08	0.04							1.5A	230/1/50	2.4kW	12A
	SFP	0.41	0.47	0.55	0.95										
	kW	0.045	0.045	0.044	0.036										
25%	m³/s	0.04	0.01												
	SFP	0.012	0.27												
	kW	0.011	1.06												

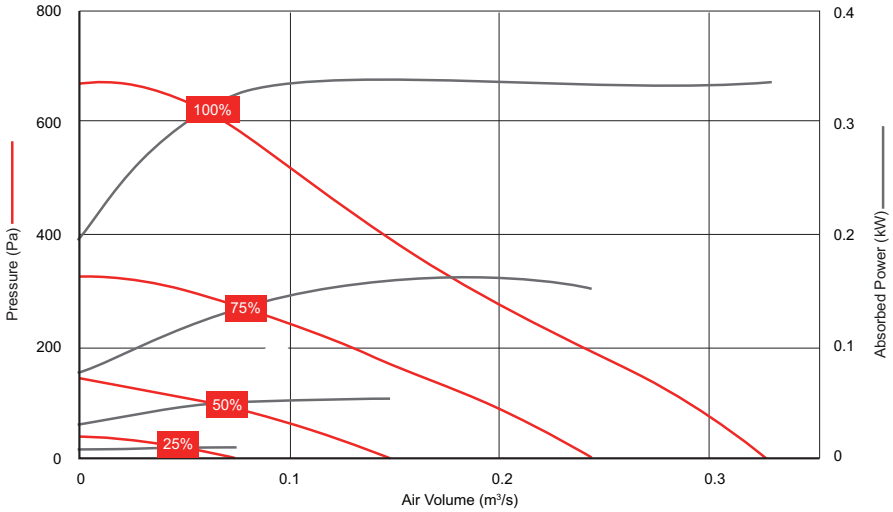
Sound Data

Speed	Test Mode	63	125	250	500	1k	2k	4k	8k	Sound Pressure level @ 3.0m dBA
100%	Breakout	58	54	56	48	46	43	35	29	32
	Exhaust T4	58	55	61	54	54	54	46	36	
	Extract T3	64	64	72	64	56	56	55	48	
	Intake T1	64	64	71	63	57	56	55	48	
	Supply T2	58	54	59	53	53	54	46	36	
75%	Breakout	53	52	54	40	39	36	29	23	27
	Exhaust T4	52	50	52	47	46	47	39	28	
	Extract T3	60	59	68	54	48	48	47	40	
	Intake T1	59	59	67	55	50	49	47	39	
	Supply T2	52	50	54	46	47	48	39	28	
50%	Breakout	46	51	38	30	28	26	25	21	17
	Exhaust T4	45	55	41	36	35	35	26	23	
	Extract T3	53	64	53	44	37	36	34	26	
	Intake T1	54	68	53	44	39	37	34	26	
	Supply T2	45	49	41	35	35	36	26	24	
25%	Breakout	40	35	30	17	19	16	22	21	9
	Exhaust T4	38	32	27	21	19	17	18	23	
	Extract T3	44	43	35	28	20	18	19	23	
	Intake T1	44	40	35	27	21	18	18	23	
	Supply T2	37	32	27	21	19	18	19	24	

Sound data derived from independent testing at Sound Research Laboratories in accordance with EN ISO 3741:2010. Published dB(A) figures are free field sound pressure levels at 3m with spherical propagation at a reference level of 2 x 10^{-5} Pa. The inlet/outlet sound power level spectra figures are dB with a reference of 10^{-12} watts.

MVHRe 1000

Performance Guide



Speed		Airflow, m³/s @ Pa										Fans F.L.C.	Supply Voltage	Frost Heater	Unit Rated Current
		0	25	50	100	150	200	250	300	400	500				
100%	m³/s	0.33	0.32	0.31	0.29	0.26	0.24	0.21	0.18	0.15	0.10				
	SFP	1.03	1.05	1.08	1.17	1.28	1.40	1.61	1.87	2.32	3.24				
	kW	0.337	0.337	0.337	0.334	0.333	0.333	0.335	0.337	0.337	0.338				
75%	m³/s	0.24	0.23	0.22	0.19	0.15	0.13	0.09							
	SFP	0.62	0.67	0.74	0.84	1.03	1.22	1.55							
	kW	0.151	0.155	0.160	0.160	0.160	0.153	0.138							
50%	m³/s	0.15	0.13	0.11	0.06							1.5A	230/1/50	2.8kW	14A
	SFP	0.34	0.37	0.47	0.79										
	kW	0.050	0.050	0.051	0.046										
25%	m³/s	0.07	0.03												
	SFP	0.08	0.21												
	kW	0.006	0.006												

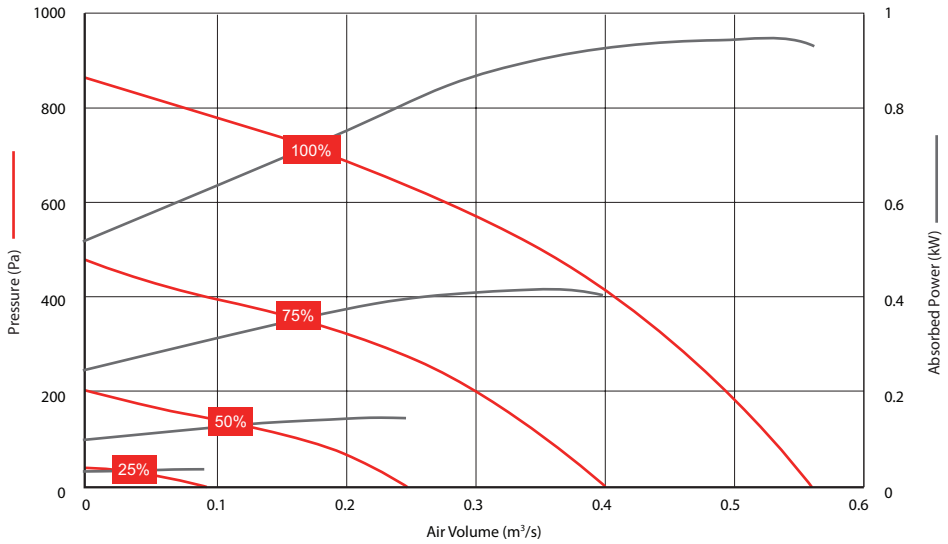
Sound Data

Speed	Test Mode	63	125	250	500	1k	2k	4k	8k	Sound Pressure level @ 3.0m dBA
100%	Breakout	57	53	55	47	42	40	36	26	30
	Exhaust T4	55	57	63	54	56	52	42	33	
	Extract T3	58	59	71	61	59	59	56	51	
	Intake T1	58	58	68	58	60	59	56	51	
	Supply T2	51	49	61	54	54	51	42	34	
75%	Breakout	51	48	48	44	35	33	25	21	24
	Exhaust T4	50	53	54	51	48	45	33	25	
	Extract T3	53	56	52	56	54	51	48	41	
	Intake T1	53	56	61	51	54	51	47	39	
	Supply T2	46	46	53	48	46	44	33	25	
50%	Breakout	45	44	35	33	24	23	18	21	14
	Exhaust T4	44	49	39	38	38	35	22	23	
	Extract T3	48	54	50	44	42	41	36	25	
	Intake T1	47	52	51	42	42	40	34	25	
	Supply T2	40	43	38	37	37	34	22	23	
25%	Breakout	36	31	27	18	14	15	17	21	6
	Exhaust T4	36	30	24	20	19	17	18	23	
	Extract T3	40	37	34	26	23	19	19	22	
	Intake T1	40	34	32	23	20	17	19	23	
	Supply T2	31	27	24	20	17	15	18	23	

Sound data derived from independent testing at Sound Research Laboratories in accordance with EN ISO 3741:2010. Published dB(A) figures are free field sound pressure levels at 3m with spherical propagation at a reference level of 2 x 10^{-5} Pa. The inlet/outlet sound power level spectra figures are dB with a reference of 10^{-12} watts.

MVHRe 1500

Performance Guide



Speed		Airflow, m³/s @ Pa 0	25	50	100	150	200	300	400	Fans F.L.C.	Supply Voltage	Frost Heater	Unit Rated Current
100%	m³/s	0.56	0.55	0.54	0.52	0.50	0.49	0.45	0.40	5.0A	230/1/50	5.6kW	29.0A
	SFP	1.49	1.53	1.56	1.59	1.67	1.71	1.85	2.06				
	kW	0.83	0.85	0.85	0.84	0.84	0.84	0.84	0.83				
75%	m³/s	0.40	0.39	0.38	0.35	0.33	0.30	0.22	0.09				
	SFP	0.91	0.96	0.97	1.06	1.13	1.23	1.55	2.93				
	kW	0.36	0.38	0.37	0.37	0.37	0.36	0.34	0.27				
50%	m³/s	0.25	0.23	0.21	0.16	0.09							
	SFP	0.51	0.56	0.60	0.76	1.20							
	kW	0.13	0.13	0.13	0.12	0.11							
25%	m³/s	0.09	0.04										
	SFP	0.32	0.63										
	kW	0.03	0.03										

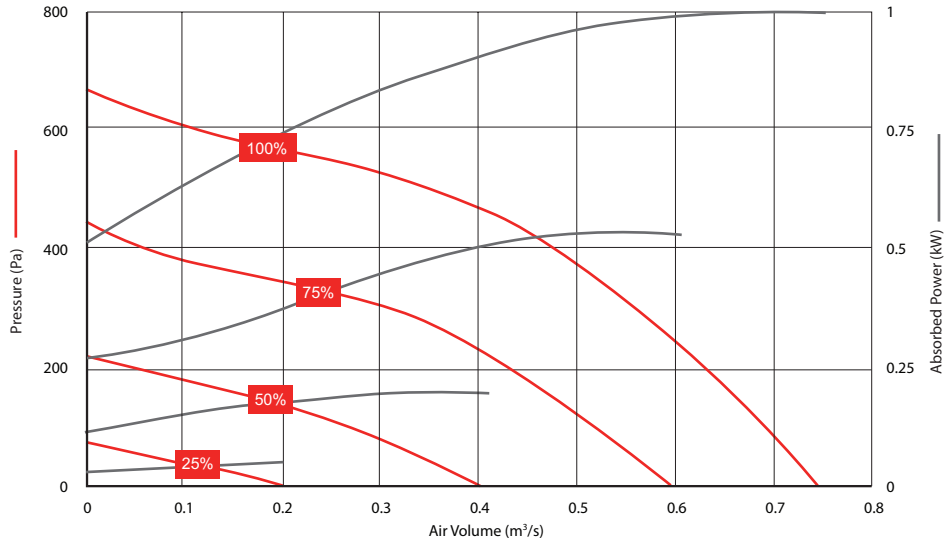
Sound Data

Speed	Test Mode	63	125	250	500	1k	2k	4k	8k	Sound Pressure level @ 3.0m dBA
100%	Breakout	65	59	67	59	51	48	41	40	38
	Exhaust T4	63	60	46	64	62	57	46	36	
	Extract T3	69	67	80	72	64	61	57	57	
	Intake T1	70	67	79	69	65	62	57	53	
	Supply T2	63	59	74	65	62	57	46	40	
75%	Breakout	59	57	62	52	43	38	32	32	30
	Exhaust T4	57	57	65	57	53	47	36	29	
	Extract T3	64	64	72	65	56	53	48	50	
	Intake T1	63	65	74	62	56	52	47	47	
	Supply T2	56	56	67	57	53	58	36	33	
50%	Breakout	53	57	46	40	32	27	23	24	22
	Exhaust T4	50	53	48	43	41	35	24	24	
	Extract T3	55	61	60	53	45	40	40	34	
	Intake T1	56	62	60	51	45	40	38	28	
	Supply T2	49	52	50	43	41	35	25	24	
25%	Breakout	49	51	40	31	27	23	20	24	14
	Exhaust T4	49	38	34	25	24	22	17	24	
	Extract T3	52	42	42	31	26	26	18	24	
	Intake T1	51	42	41	30	27	23	18	23	
	Supply T2	47	36	33	25	24	21	16	23	

Sound data derived from independent testing at Sound Research Laboratories in accordance with EN ISO 3741:2010. Published dB(A) figures are free field sound pressure levels at 3m with spherical propagation at a reference level of 2 x 10^{-5} Pa. The inlet/outlet sound power level spectra figures are dB with a reference of 10^{-12} watts.

MVHRe 2100

Performance Guide



Speed		Airflow, m³/s @ Pa 0	25	50	100	150	200	250	300	400	500	600	Fans F.L.C.	Supply Voltage	Frost Heater	Unit Rated Current
100%	m³/s	0.76	0.74	0.72	0.70	0.66	0.63	0.60	0.57	0.48	0.34	0.11				
	SFP	1.31	1.36	1.40	1.45	1.52	1.59	1.64	1.72	2.00	2.53	6.08				
	kW	1.004	1.004	1.005	1.007	1.009	1.002	0.988	0.973	0.970	0.856	0.655				
75%	m³/s	0.60	0.59	0.56	0.52	0.49	0.43	0.38	0.31							
	SFP	0.89	0.92	0.97	1.04	1.09	1.22	1.32	1.49							
	kW	0.538	0.540	0.542	0.541	0.534	0.522	0.498	0.459							
50%	m³/s	0.41	0.39	0.35	0.27	0.17	0.03						4.2A	230/1/50	7.8kW	39A
	SFP	0.53	0.55	0.62	0.75	1.08	5.22									
	kW	0.214	0.213	0.213	0.204	0.179	0.145									
25%	m³/s	0.20	0.15	0.08												
	SFP	0.30	0.39	0.59												
	kW	0.061	0.057	0.050												

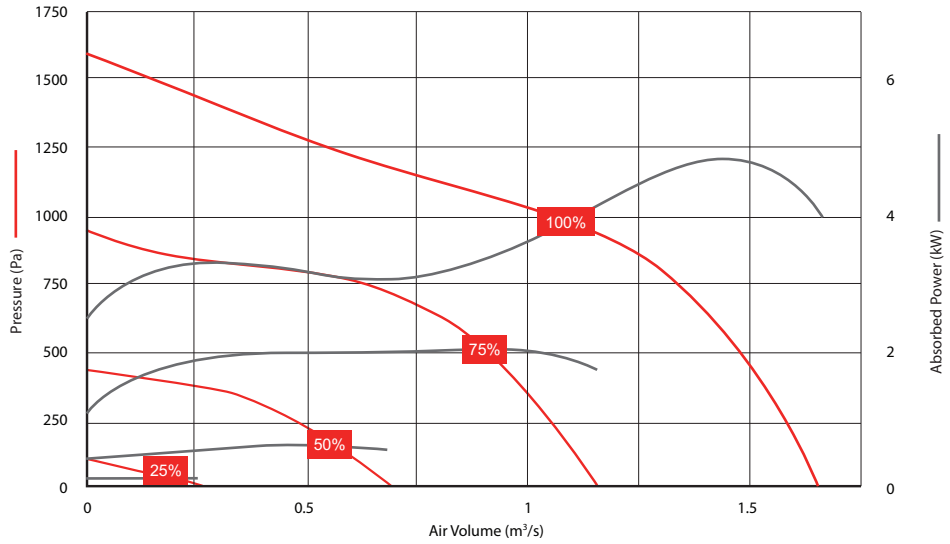
Sound Data

Speed	Test Mode	63	125	250	500	1k	2k	4k	8k	Sound Pressure level @ 3.0m dBA
100%	Breakout	60	57	57	47	44	38	34	32	100%
	Exhaust T4	60	58	60	57	57	51	44	42	
	Extract T3	64	65	67	64	61	56	50	48	
	Intake T1	63	65	68	64	61	56	51	49	
	Supply T2	59	59	62	57	57	51	46	42	
75%	Breakout	54	57	50	42	37	34	28	25	75%
	Exhaust T4	54	58	52	49	50	44	37	33	
	Extract T3	58	65	63	56	53	49	43	41	
	Intake T1	57	63	61	58	53	48	43	41	
	Supply T2	52	54	52	48	50	44	39	34	
50%	Breakout	51	52	45	35	31	27	21	22	50%
	Exhaust T4	65	55	47	40	42	36	30	27	
	Extract T3	60	60	58	49	44	40	35	31	
	Intake T1	57	62	56	49	45	39	34	31	
	Supply T2	53	49	47	39	42	36	29	27	
25%	Breakout	48	39	42	24	22	17	18	22	25%
	Exhaust T4	48	35	35	29	31	23	20	25	
	Extract T3	57	44	44	37	34	29	21	26	
	Intake T1	53	43	46	37	32	56	20	25	
	Supply T2	44	34	34	28	30	22	19	25	

Sound data derived from independent testing at Sound Research Laboratories in accordance with EN ISO 3741:2010. Published dB(A) figures are free field sound pressure levels at 3m with spherical propagation at a reference level of 2 x 10^{-5} Pa. The inlet/outlet sound power level spectra figures are dB with a reference of 10^{-12} watts.

MVHRe 4000

Performance Guide



Speed		Airflow, m³/s @ Pa 0	25	50	100	200	300	400	500	600	700	800	900	1000	1100	Fans F.L.C.	Supply Voltage	Frost Heater	Unit Rated Current
100%	m³/s	1.66	1.65	1.64	1.62	1.60	1.56	1.52	1.47	1.44	1.37	1.31	1.17	1.03	0.89	3.7A	400/3/50	*Data imminent*	
	SFP	2.49	2.53	2.56	2.63	2.76	2.91	3.06	3.22	3.35	3.54	3.74	3.69	3.62	3.52				
	kW	4.14	4.18	4.21	4.27	4.41	4.54	4.65	4.74	4.82	4.85	4.89	4.30	3.72	3.13				
75%	m³/s	1.15	1.14	1.13	1.12	1.06	1.01	0.96	0.92	0.86	0.69	0.42	0.14						
	SFP	1.53	1.55	1.58	1.64	1.80	1.95	2.09	2.18	2.32	2.83	4.56	10.69						
	kW	1.76	1.78	1.80	1.85	1.91	1.97	2.00	2.01	1.99	1.94	1.90	1.48						
50%	m³/s	0.68	0.66	0.64	0.59	0.51	0.38	0.11											
	SFP	0.80	0.84	0.88	0.99	1.17	1.44	3.84											
	kW	0.55	0.55	0.57	0.59	0.59	0.55	0.43											
25%	m³/s	0.25	0.21	0.13															
	SFP	0.40	0.49	0.80															
	kW	0.10	0.10	0.10															

Sound Data

Speed	Test Mode	63	125	250	500	1k	2k	4k	8k	Sound Pressure level @ 3.0m dBA
100%	Breakout	76	70	75	65	63	59	54	45	49
	Exhaust T4	76	79	81	80	84	79	74	70	
	Extract T3	68	66	73	67	60	54	44	36	
	Intake T1	67	65	72	56	56	54	43	35	
	Supply T2	75	75	79	78	82	79	74	70	
75%	Breakout	72	69	73	58	54	50	45	38	44
	Exhaust T4	69	75	82	71	75	70	65	63	
	Extract T3	63	61	68	58	54	46	36	28	
	Intake T1	61	60	62	49	59	43	34	27	
	Supply T2	69	71	76	69	73	70	65	62	
50%	Breakout	62	64	55	46	43	38	33	26	31
	Exhaust T4	61	80	61	59	63	58	52	51	
	Extract T3	55	63	50	46	43	33	23	23	
	Intake T1	53	63	47	37	48	30	22	25	
	Supply T2	60	69	56	58	62	58	53	50	
25%	Breakout	62	42	40	33	31	20	17	20	19
	Exhaust T4	60	48	39	43	45	36	25	24	
	Extract T3	50	36	36	27	25	17	18	24	
	Intake T1	47	34	27	22	19	15	18	24	
	Supply T2	58	46	37	46	45	35	30	25	

Sound data derived from independent testing at Sound Research Laboratories in accordance with EN ISO 3741:2010. Published dB(A) figures are free field sound pressure levels at 3m with spherical propagation at a reference level of 2 x 10^{-5} Pa. The inlet/outlet sound power level spectra figures are dB with a reference of 10^{-12} watts.

Accessories

Attenutator

Single skinned attenuators purpose designed for the MVHRe Heat Recovery range to minimise in duct noise. Attenuators are supplied in standard lengths of 900mm, 1200mm and 1500mm, constructed from Galvanised steel with profiled perforated sheet internal, mineral wool sound absorbing material and 30mm profiled flanges for duct and unit mounting. Data has been obtained by testing in accordance with BS EN ISO7235:2009.

	Dimensions (mm)			kg	Insertion Loss dB								m³/hr @ Pa					
Stock Ref.	Length	Width	Height	Weight	63	125	250	500	1k	2k	4k	8k	300	600	1000	1500	2000	3000
ATT900-MVHRe 600	900	400	200	17	2	5	11	19	33	39	31	24	8	30	83	-	-	-
ATT1200-MVHRe 600	1200	400	200	21	3	6	14	26	43	45	35	27	8	33	92	-	-	-
ATT1500-MVHRe 600	1500	400	200	31	4	7	18	32	52	52	38	30	9	37	103	-	-	-
ATT900-MVHRe 1000	900	400	300	18	2	3	8	15	27	21	14	10	1	3	8	17	30	-
ATT1200-MVHRe 1000	1200	400	300	23	2	4	10	19	36	24	16	12	1	3	8	18	32	-
ATT1500-MVHRe 1000	1500	400	300	34	2	5	12	24	44	28	19	14	1	3	9	20	36	-
ATT900-MVHRe 1500	900	400	300	18	2	3	8	15	27	21	14	10	1	3	8	17	30	-
ATT1200-MVHRe 1500	1200	400	300	23	2	4	10	19	36	24	16	12	1	3	8	18	32	-
ATT1500-MVHRe 1500	1500	400	300	34	2	5	12	24	44	28	19	14	1	3	9	20	36	-
ATT900-MVHRe 2100	900	500	400	25	3	7	11	20	28	21	13	8	1	2	5	11	19	43
ATT1200-MVHRe 2100	1200	500	400	32	4	9	15	26	35	26	15	10	1	2	5	12	21	47
ATT1500-MVHRe 2100	1500	500	400	46	5	11	19	33	45	31	18	11	1	2	5	12	22	50
ATT900-MVHRe 4000	900	800	400	33	*Data imminent*													
ATT1200-MVHRe 4000	1200	800	400	41														
ATT1500-MVHRe 4000	1500	800	400	60														

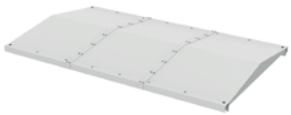
Duct mounted Heating / Cooling

Rectangular duct mounted heater battery with either electric heating complete with integral thyristor controls, or LPHW water heating, each designed to provide approximately 10°C temperature rise. Chilled water cooler also available with integral condensate tray. Note waterside controls are not included.

		Dimensions (mm)			kg	Heater rating	Electrical	Water Temp			m³/hr @ Pa					
Stock Ref.	Type	L	W	H	Weight	kW	supply	Flow	Return	Connection	300	600	1000	1500	2000	3000
EHB-MVHRe 600	MVHRe 6 Duct mounted Rectangular electric heater with controls	300	400	200	5	2.00	230/1/50	N/A	N/A	N/A	8	33	92	-	-	-
HWC-MVHRe 600	MVHRe 6 Duct mounted Rectangular LPHW heating battery	200	400	200	5	2.01	N/A	80°C	60°C	1/2"	8	33	92	-	-	-
CWC-MVHRe 600	MVHRe 6 Duct mounted Rectangular water cooling battery	200	400	200	5	2.52	N/A	6°C	12°C	3/4"	8	33	92	-	-	-
EHB-MVHRe 1000	MVHRe 10 Duct mounted Rectangular electric heater with controls	300	400	300	6	4.00	230/1/50	N/A	N/A	N/A	1	3	8	18	32	-
HWC-MVHRe 1000	MVHRe 10 Duct mounted Rectangular LPHW heating battery	200	400	300	7	3.35	N/A	80°C	60°C	1/2"	1	3	8	18	32	-
CWC-MVHRe 1000	MVHRe 10 Duct mounted Rectangular water cooling battery	200	500	300	7	4.13	N/A	6°C	12°C	3/4"	1	3	8	18	32	-
EHB-MVHRe 1500	Heater with controls	300	400	300	7	5.00	230/1/50	N/A	N/A	N/A	1	3	8	18	32	-
HWC-MVHRe 1500	MVHRe 15 Duct mounted Rectangular LPHW heating battery	200	400	310	8	5.03	N/A	80°C	60°C	1/2"	1	3	8	18	32	-
CWC-MVHRe 1500	MVHRe 15 Duct mounted Rectangular water cooling battery	200	500	350	8	6.23	N/A	6°C	12°C	3/4"	1	3	8	18	32	-
EHB-MVHRe 2100	MVHRe 21 Duct mounted Rectangular electric heater with controls	300	500	400	10	7.50	230/1/50	N/A	N/A	N/A	1	2	5	12	21	47
HWC-MVHRe 2100	MVHRe 21 Duct mounted Rectangular LPHW heating battery	200	500	400	10	7.03	N/A	80°C	60°C	1/2"	1	2	5	12	21	47
CWC-MVHRe 2100	MVHRe 21 Duct mounted Rectangular water cooling battery	200	500	400	10	8.65	N/A	6°C	12°C	3/4"	1	2	5	12	21	47
EHB-MVHRe 4000	MVHRe 40 Duct mounted Rectangular electric heater with controls	300	500	700	14	10.00	415/3/50	N/A	N/A	N/A	-	-	-	-	-	-
HWC-MVHRe 4000	MVHRe 40 Duct mounted Rectangular LPHW heating battery	100	590	760	7.5	10.41	N/A	80°C	60°C	1/2"	0	1	3	6	9	17
CWC-MVHRe 4000	MVHRe 40 Duct mounted Rectangular water cooling battery	100	590	760	14.7	12.09	N/A	6°C	12°C	1"	1	4	8	15	24	46

MVHRe

Roof Assembly



Pitched roof for external mounting, supplied separate for fitting on site.

Stock Ref	Length mm	Width mm	Height mm	Weight kg
ROOF-MVHRe 600	2141	1455	95	48
ROOF-MVHRe 1000	2400	1455	95	52
ROOF-MVHRe 1500	2400	1455	95	52
ROOF-MVHRe 2100	2965	1455	95	63

Exhaust / Intake Cowl

Weather inlet/discharge cowl for external mounting (one required for each airstream).

Stock Ref	Length mm	Width mm	Height mm	Weight kg
EIC-MVHRe 600	294	402	274	4
EIC-MVHRe 1000	394	402	380	6
EIC-MVHRe 1500	394	402	380	6
EIC-MVHRe 2100	494	502	510	9
EIC-MVHRe 4000	498	804	501	12

Constant pressure duct damper & actuator

Stock Ref	Diameter mm
CPD100	100
CPD125	125
CPD150	150
CPD200	200
CPD250	250
CPD315	315

Transformation Piece

Rectangular to round transformation piece designed to fix directly to the unit or any of the specific range duct accessories to enable connection to 250mm round ducting.

Stock Ref	Length mm	Width mm	Height mm	Weight kg
ADA-MVHRe 600	250	400	200	3
ADA-MVHRe 1000	325	400	300	4
ADA-MVHRe 1500	325	400	300	4
ADA-MVHRe 2100	325	500	400	5
ADA-MVHRe 4000	430	802	500	8

Flexible Connection

Stock Ref	Length mm	Width mm	Height mm	Weight kg
FCZ-MVHRe 600	130	400	200	3
FCZ-MVHRe 1000	130	400	300	4
FCZ-MVHRe 1500	130	400	300	4
FCZ-MVHRe 2100	130	500	400	4
FCZ-MVHRe 4000	100	800	400	6

Controllers

Model	Stock Ref
Wired manual 0-10V controller	8802876
Wired temperature thermostat switch	8802884

Sensors

Power	Colour	Wireless	CO_2	PIR	Temperature	Humidity	4 Speed Switch	Pullcord	AIM	Stock Ref
24V	White					✓		✓		8802877
24V	White		✓		✓	✓				8802878
24V	White		✓							8802880
24V	White			✓						8802883
240V	White	✓	✓		✓	✓				8802879
240V	White	✓		✓						8802881
240V	White	✓			✓	✓	✓			8802882
240V	White	✓			✓	✓				8802885
240V	White				✓	✓	✓			8802886
240V	Black	✓			✓	✓	✓			8802887
240V	Black				✓	✓	✓			8802888
240V	White	✓			✓	✓			✓	8802889

Breathing Buildings

Our team is passionate about delivering the very best personalised service to our customers with emphasis on providing the ideal solution for your particular property needs. We will happily organise a free consultation at your convenience, to assess all of the ventilation options and ensure you are recommended the ideal solution that delivers enhanced indoor air quality, the best energy efficiency, ease of operation, thermal comfort and peace-of-mind.

Our customers can be assured of our product quality, our processes and our excellent customer service. Breathing Buildings have won several industry awards. In 2024, we won two product awards from the prestigious Energy Savings Awards and HVR Awards. Three prestigious awards were won in 2022 for one project, ask our team to explain more about the East Anglian Air Ambulance project that won awards from the Chartered Institute of Building Services Engineers (CIBSE), Heating and Ventilating Review (HVR) and the Society of Public Architecture, Construction, Engineering and Surveying (SPACES) for our NVHR range and our close collaboration with customers.

Our team would welcome the opportunity of demonstrating our case studies to you and answering any questions you may have. Simply call 01223 450060 or email us at info@breathingbuildings.com and we will visit you at your convenience.

Contact our team for a free site consultation at your convenience.

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