

NEW

WELLEA M HT

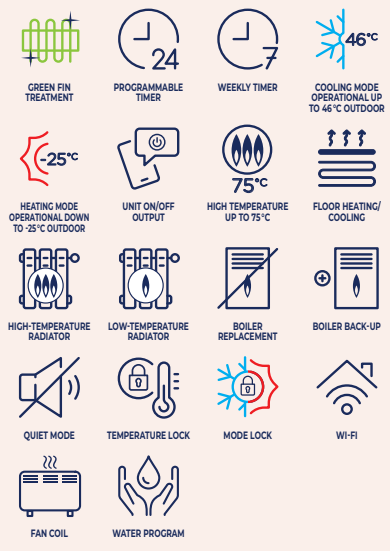
Monoblock heat pump with natural R290 fluid



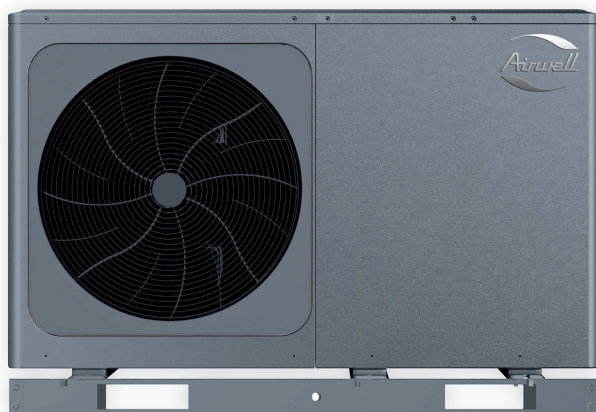
Connectivity



FEATURES



RCW31 included



+ “SUSTAINABLE DEVELOPMENT”

- Energy saving thanks to A+++ energy class.
- Cut your bills: COP up to 5,10.
- High-performance compressor for energy savings.
- Natural refrigerant, more respectful of the environment thanks to its low impact, GWP=3.

+ “USER”

- Ideal for replacing a gas or fuel oil boiler.
- Saves on heating elements thanks to the 75°C water temperature.
- Heat pump remote-controlled thanks to AirHome connectivity (as standard).

+ “INSTALLER”

- Cascade management up to 6 units.
- Customisable water program.
- ZERO concept option: 2-area control, dual-purpose control, Smart Grid contact, and more as standard.
- Modular product: Heating / Cooling / Domestic hot water. (with accessories).
- Backup of your settings via USB.

+ “TECHNOLOGY”

- Ultra-quiet model: 30 dB(A) at 5 m(1).
- Operates in extreme temperatures thanks to a dedicated condensate tray.
- HP Keymark certified, guaranteed performance.
- Maintains power even in cold weather.

(1) Acoustic pressure of 4 kW model, free field directivity 1.
 (2) Depending on model.

TECHNICAL DATA

OUTDOOR UNIT		BDHW-040R-04M25	BDHW-060R-04M25	BDHW-080R-04M25	BDHW-100R-04M25	BDHW-120R-04M25	BDHW-140R-04M25	BDHW-160R-04M25	BDHW-120R-04T35	BDHW-140R-04T35	BDHW-160R-04T35		
Part number		7MB140020	7MB140021	7MB140022	7MB140023	7MB140024	7MB140025	7MB140026	7MB140027	7MB140028	7MB140029		
Phase		Single-phase				Single-phase			Three-phase				
HEATING MODE													
Air +7°C Water 55°C	Heating capacity	kW	4.40	6.00	7.50	9.50	11.90	13.80	16.00	11.90	13.80	16.00	
	Power input	kW	1.49	2.03	2.36	3.06	3.90	4.68	5.61	3.90	4.68	5.61	
	COP		2.95	2.95	3.18	3.10	3.05	2.95	2.85	3.05	2.95	2.85	
Air -7°C Water 55°C	Heating capacity	kW	4.00	5.15	6.15	6.85	9.80	11.00	12.50	9.80	11.00	12.50	
	Power input	kW	2.05	2.58	3.00	3.43	4.78	5.37	6.25	4.78	5.37	6.25	
	COP		1.95	2.00	2.05	2.00	2.05	2.05	2.00	2.05	2.05	2.00	
Air +7°C Water 60°C	Heating capacity	kW	4.58	6.20	8.31	9.27	12.06	14.00	15.10	12.06	14.00	15.10	
	Power input	kW	1.56	2.20	2.79	3.28	4.18	5.05	5.64	4.18	5.05	5.64	
	COP		2.94	2.82	2.98	2.82	2.88	2.77	2.68	2.88	2.77	2.68	
Air -7°C Water 60°C	Heating capacity	kW	4.61	5.10	6.98	7.12	10.35	11.24	11.65	10.35	11.24	11.65	
	Power input	kW	2.39	2.74	3.36	3.51	5.20	5.75	6.19	5.20	5.75	6.19	
	COP		1.93	1.86	2.08	2.03	1.99	1.95	1.88	1.99	1.95	1.88	
Air +7°C Water 65°C	Heating capacity	kW	4.63	6.19	8.11	9.26	12.02	13.71	14.71	12.02	13.71	14.71	
	Power input	kW	1.80	2.51	3.03	3.64	4.58	5.47	6.06	4.58	5.47	6.06	
	COP		2.57	2.47	2.67	2.55	2.63	2.51	2.43	2.63	2.51	2.43	
Air -7°C Water 65°C	Heating capacity	kW	4.44	5.05	7.21	7.39	10.27	10.74	10.85	10.27	10.74	10.85	
	Power input	kW	2.57	2.99	3.57	3.71	5.61	5.96	6.05	5.61	5.96	6.05	
	COP		1.73	1.69	2.02	1.99	1.83	1.80	1.79	1.83	1.80	1.79	
Air +7°C Water 75°C	Heating capacity	kW	4.65	5.84	8.04	8.85	10.89	11.40	12.36	10.89	11.40	12.36	
	Power input	kW	2.22	3.00	3.73	4.32	5.41	5.79	6.43	5.41	5.79	6.43	
	COP		2.10	1.95	2.15	2.05	2.01	1.97	1.92	2.01	1.97	1.92	
Air -7°C Water 75°C	Heating capacity	kW	3.93	4.09	7.04	7.12	9.18	9.48	10.06	9.18	9.48	10.06	
	Power input	kW	2.86	3.17	4.05	4.12	5.64	5.93	6.42	5.64	5.93	6.42	
	COP		1.37	1.29	1.74	1.73	1.63	1.60	1.57	1.63	1.60	1.57	
COOLING MODE													
Air +35°C Water 18°C	Cooling capacity	kW	4.50	6.50	8.30	10.00	12.00	14.00	16.00	12.00	14.00	16.00	
	EER		5.50	5.10	5.15	4.75	4.50	4.20	3.90	4.50	4.20	3.90	
Air +35°C Water 7°C	Cooling capacity	kW	4.70	6.80	7.50	8.90	11.50	12.70	14.00	11.50	12.70	14.00	
	EER		3.65	3.10	3.45	3.25	3.05	2.90	2.75	3.05	2.90	2.75	
PERFORMANCE													
Energy label (average climate)	Water outlet to 35°C		A+++				A+++						
	Water outlet to 55°C		A++				A++						
Seasonal efficiency (average climate)	Water outlet to 35°C	%	199	192	204	199	183	182	180	183	182	180	
	Water outlet to 55°C	%	148	149	149	149	141	141	139	141	141	139	
SCOP (average climate)	Water outlet to 35°C		5.07	4.89	5.19	5.07	4.67	4.63	4.59	4.67	4.63	4.59	
	Water outlet to 55°C		3.79	3.82	3.82	3.82	3.62	3.61	3.57	3.62	3.61	3.57	
Sound level		dB(A)	56	58	60	61	65	65	69	65	65	69	
Sound pressure level (1m)		dB(A)	44	46	48	49	51	52	56	51	52	56	
OPERATING LIMITS													
Outdoor air temperature	Cooling	°C	-5/46				-5/46						
	Heating	°C	-25/35				-25/35						
	Domestic hot water	°C	-25/46				-25/46						
POWER SUPPLY													
Phase/Voltage/Frequentie		1P/220-240V/50Hz				1P/220-240V/50Hz			3P/380-415V/50Hz				
Power cable section	mm ²	3G2.5	3G2.5	3G4	3G4	3G6	3G6	3G6	5G2.5	5G2.5	5G2.5		
Fuse rating am	A	16	16	20	20	32	32	32	16	16	16		
Electric backup heater built-in	kW	3				3			3/6/9				
Power cable section electric backup heater	mm ²	3G2.5	3G2.5	3G2.5	3G2.5	3G2.5	3G2.5	3G2.5	5G2.5	5G2.5	5G2.5		
Fuse rating am electric backup heater	A	16	16	16	16	16	16	16	16	16	16		
Remote controller connection (shielded)	mm ²	2G0.75	2G0.75	2G0.75	2G0.75	2G0.75	2G0.75	2G0.75	2G0.75	2G0.75	2G0.75		
INSTALLATION AND OTHERS													
Airflow	m ³ /h	2770		4030		4060		4650		4650			
Refrigerant/GWP		R290/3											
Charge	kg	0.7		1.1		1.25							
Outline dimensions (WxHxD)	mm	1295x792x429				1385x945x526				1385x945x526			
Package dimensions (WxHxD)	mm	1375x965x475				1465x1120x560				1465x1120x560			
Net weight/Gross weight	kg	98/121		121/148		144/170		160/188		160/188			
Pipe diameter (water)	inches	R1"		R1"1/4		R1"1/4							

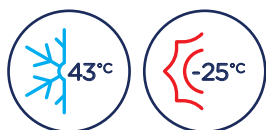
WELLEA M HT - Maximum heating capacity (without defrosting)

MODELS		LEAVING WATER TEMPERATURE (°C)													
		35		45		55		60		65		70		75	
		HEATING CAPACITY (kW)	POWER INPUT (kW)	HEATING CAPACITY (kW)	POWER INPUT (kW)	HEATING CAPACITY (kW)	POWER INPUT (kW)	HEATING CAPACITY (kW)	POWER INPUT (kW)	HEATING CAPACITY (kW)	POWER INPUT (kW)	HEATING CAPACITY (kW)	POWER INPUT (kW)	HEATING CAPACITY (kW)	POWER INPUT (kW)
16 kW	-25	8.83	5.08	8.45	5.70	8.18	6.30								
	-20	10.56	5.39	10.59	6.22	9.82	6.28	9.37	6.45	8.66	6.21				
	-15	11.96	5.37	11.60	6.11	11.19	6.26	10.45	6.24	9.67	6.36	9.17	5.99		
	-10	12.55	5.39	12.08	5.92	11.30	5.95	10.85	6.07	10.37	6.02	9.99	5.98	9.69	6.79
	-7	12.70	5.08	12.50	5.56	12.40	6.05	11.65	6.19	10.85	6.05	10.61	6.14	10.06	6.42
	-5	12.55	4.64	12.56	5.49	11.85	5.68	11.39	5.98	10.83	5.98	10.38	5.92	9.71	5.94
	-2	12.47	4.14	12.66	5.05	12.28	5.64	11.54	5.74	10.89	5.72	10.45	5.84	9.71	5.89
	0	12.80	4.03	13.17	5.01	12.91	5.70	11.91	5.72	11.29	5.83	10.45	5.73	9.68	5.79
	2	12.80	4.00	13.10	4.76	13.10	5.35	12.18	5.59	11.32	5.63	10.68	5.70	9.72	5.74
	5	14.20	3.63	14.18	4.38	14.27	5.19	14.19	5.70	13.21	5.60	12.90	6.07	11.59	6.15
	7	15.00	3.41	15.00	4.48	15.00	5.26	15.10	5.64	14.71	6.06	13.59	6.22	12.36	6.43
	10	14.94	2.97	15.01	3.73	14.99	4.49	15.00	5.11	15.00	5.75	13.71	5.61	11.91	5.68
	12	15.01	2.72	15.12	3.57	15.00	4.22	14.97	4.72	15.17	5.53	13.87	5.38	12.40	5.56
15	15.03	2.68	15.14	3.46	14.95	4.14	15.04	4.69	15.04	5.36	14.32	5.42	12.88	5.57	
20	15.00	2.46	15.01	3.25	14.72	3.88	14.03	4.18	13.09	4.27	13.14	4.60	11.12	4.21	

WELLEA M HT - Maximum cooling capacity

MODELS		LEAVING WATER TEMPERATURE (°C)													
		5		7		10		15		18		20		25	
		COOLING CAPACITY (kW)	POWER INPUT (kW)	COOLING CAPACITY (kW)	POWER INPUT (kW)	COOLING CAPACITY (kW)	POWER INPUT (kW)	COOLING CAPACITY (kW)	POWER INPUT (kW)	COOLING CAPACITY (kW)	POWER INPUT (kW)	COOLING CAPACITY (kW)	POWER INPUT (kW)	COOLING CAPACITY (kW)	POWER INPUT (kW)
4 kW	20	4.53	0.82	4.74	0.80	4.59	0.72	4.49	0.59	4.52	0.52	4.51	0.47	4.66	0.46
	25	4.69	1.00	4.72	0.93	4.58	0.84	4.50	0.68	4.42	0.61	4.56	0.54	4.42	0.50
	30	4.68	1.15	4.73	1.07	4.62	0.98	4.56	0.79	4.50	0.71	4.52	0.64	4.46	0.55
	35	4.68	1.33	4.70	1.29	4.59	1.11	4.57	0.93	4.50	0.82	4.54	0.77	4.53	0.65
	40	4.70	1.56	4.71	1.45	4.59	1.28	4.54	1.06	4.52	0.95	4.44	0.88	4.45	0.74
	46	4.66	1.69	4.68	1.59	4.67	1.42	4.58	1.17	4.48	1.02	4.54	0.99	4.56	0.84
6 kW	20	5.54	1.08	5.90	1.08	6.47	1.09	6.49	0.89	6.47	0.79	6.45	0.71	6.51	0.68
	25	6.10	1.45	6.50	1.44	6.64	1.36	6.50	1.08	6.44	0.93	6.47	0.82	6.55	0.78
	30	6.75	1.94	6.75	1.79	6.75	1.62	6.57	1.28	6.49	1.13	6.48	0.99	6.45	0.82
	35	6.77	2.30	6.80	2.19	6.65	1.86	6.52	1.48	6.50	1.27	6.45	1.20	6.46	1.00
	40	5.44	1.95	5.82	1.98	6.40	2.02	6.58	1.78	6.45	1.49	6.42	1.40	6.41	1.15
	46	4.49	1.76	4.79	1.80	5.27	1.83	6.14	1.93	6.50	1.87	6.19	1.64	6.20	1.36
8 kW	20	6.82	1.32	7.24	1.31	7.71	1.26	8.08	1.20	8.30	1.11	8.22	0.98	8.27	0.83
	25	7.29	1.71	7.44	1.61	7.67	1.46	8.04	1.30	8.33	1.19	8.36	1.13	8.29	0.92
	30	7.48	2.06	7.48	1.87	7.62	1.69	8.01	1.54	8.30	1.37	8.21	1.17	8.37	1.00
	35	7.44	2.41	7.50	2.17	7.67	2.03	8.03	1.75	8.30	1.61	8.24	1.49	8.32	1.17
	40	6.76	2.44	7.23	2.48	7.64	2.39	8.10	2.12	8.33	1.94	8.23	1.78	8.22	1.38
	46	6.18	2.35	6.60	2.39	7.26	2.45	8.03	2.33	8.28	2.15	8.20	1.95	8.25	1.56
10 kW	20	5.26	2.06	5.63	2.10	6.20	2.14	8.08	2.60	7.96	2.26	8.29	2.23	8.37	1.81
	25	7.23	1.45	7.72	1.46	8.49	1.46	9.61	1.52	9.90	1.43	9.89	1.23	9.92	1.04
	30	8.20	2.40	8.73	2.44	9.21	2.37	9.68	1.99	9.99	1.82	9.97	1.48	10.03	1.26
	35	8.23	2.86	8.76	2.91	9.20	2.79	9.67	2.41	10.00	2.11	9.94	1.93	9.87	1.49
	40	6.76	2.44	7.23	2.48	7.95	2.54	9.25	2.65	9.98	2.65	9.95	2.39	10.00	1.85
	46	6.18	2.35	6.60	2.39	7.26	2.45	8.49	2.55	9.28	2.61	9.89	2.62	9.95	2.07
12 kW	20	9.82	1.99	10.46	1.99	11.49	2.00	11.85	1.65	11.92	1.41	11.80	1.30	11.90	1.16
	25	10.63	2.68	11.32	2.71	11.69	2.47	11.86	1.97	11.90	1.77	11.78	1.55	11.81	1.39
	30	11.13	3.39	11.56	3.29	11.71	2.91	11.83	2.31	11.96	2.12	11.95	1.84	12.02	1.62
	35	11.25	4.03	11.50	3.77	11.63	3.39	11.84	2.84	12.00	2.67	12.07	2.27	12.01	1.79
	40	9.88	3.86	10.57	3.91	10.57	3.50	12.01	3.46	12.01	3.08	12.05	2.79	12.15	2.21
	46	8.60	3.51	9.13	3.58	10.04	3.66	11.58	3.80	12.09	3.66	12.05	3.09	12.02	2.64
14 kW	20	6.64	2.88	7.08	2.93	7.80	2.99	9.05	3.08	9.88	3.14	10.46	3.17	11.54	3.15
	25	10.32	2.16	11.00	2.17	12.07	2.18	13.58	2.06	14.08	1.86	14.13	1.74	13.91	1.46
	30	11.21	2.96	11.93	2.99	13.07	3.04	13.59	2.50	14.15	2.31	13.96	2.03	13.91	1.75
	35	11.92	3.83	12.67	3.89	13.11	3.59	13.63	2.97	13.99	2.70	14.12	2.40	14.09	2.03
	40	11.98	4.52	12.70	4.38	13.05	4.21	13.61	3.59	14.00	3.33	14.06	2.99	14.16	2.36
	46	9.88	3.86	10.57	3.91	11.55	4.12	13.31	4.17	14.13	4.00	14.08	3.75	14.05	2.89
16 kW	20	8.60	3.51	9.13	3.58	10.04	3.66	11.58	3.80	12.60	3.88	13.31	3.94	14.07	3.52
	25	6.64	2.88	7.08	2.93	7.80	2.99	9.05	3.08	9.88	3.14	10.46	3.17	11.54	3.15
	30	11.22	2.45	11.95	2.47	13.12	2.49	15.19	2.49	16.12	2.37	16.06	2.20	16.08	1.79
	35	12.16	3.36	12.93	3.40	14.16	3.46	15.43	3.16	16.04	2.88	16.30	2.63	16.17	2.20
	40	13.12	4.44	13.94	4.52	14.50	4.20	15.43	3.66	16.00	3.39	16.17	3.06	16.15	2.57
	46	13.41	5.26	14.00	5.09	14.61	5.06	15.45	4.41	16.00	4.10	16.06	3.74	16.09	2.92
16 kW	20	10.48	4.17	11.13	4.26	12.23	4.48	14.12	4.50	15.34	4.59	16.05	4.77	16.06	3.61
	25	9.13	3.82	9.71	3.89	10.67	3.97	12.33	4.12	13.42	4.33	14.18	4.26	15.34	4.17
	30	7.02	3.08	7.48	3.15	8.24	3.23	9.56	3.31	10.43	3.49	10.97	3.41	12.06	3.53
	35	11.22	2.45	11.95	2.47	13.12	2.49	15.19	2.49	16.12	2.37	16.06	2.20	16.08	1.79
	40	12.16	3.36	12.93	3.40	14.16	3.46	15.43	3.16	16.04	2.88	16.30	2.63	16.17	2.20
	46	13.12	4.44	13.94	4.52	14.50	4.20	15.43	3.66	16.00	3.39	16.17	3.06	16.15	2.57

Zoom on air/water range functions



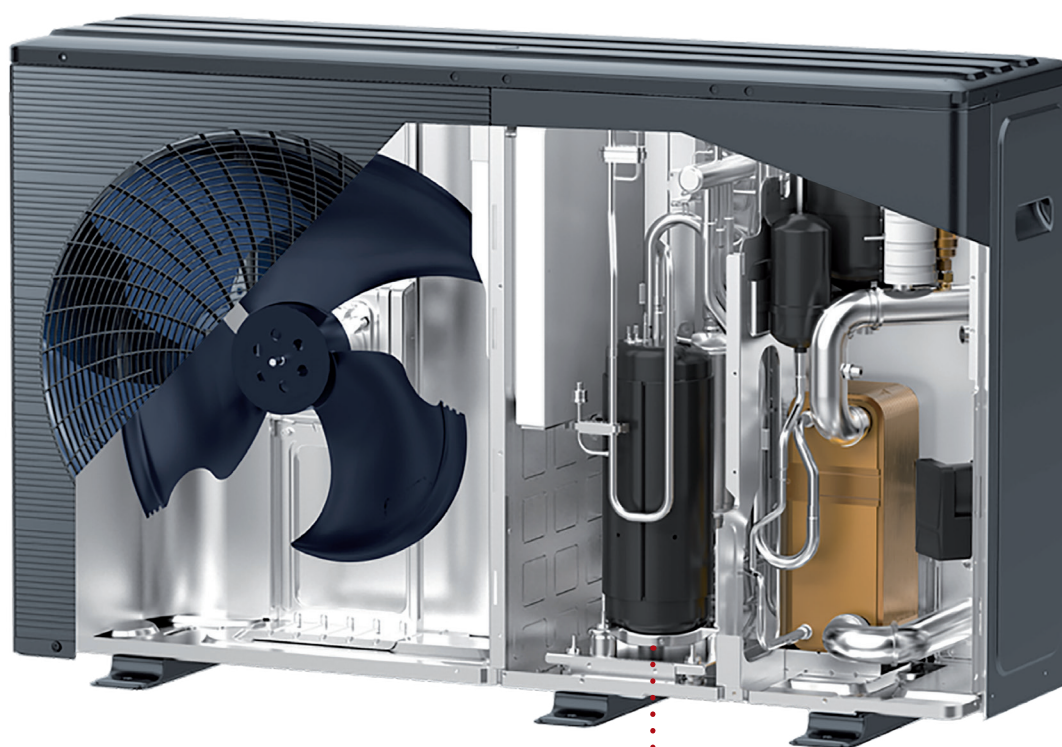
EXTREME TEMPERATURE OPERATION

Integrated condensate drip tray as standard, with electric heater at the bottom of the drip tray to limit freezing at extreme temperatures.



WI-FI BUILT-IN

Thanks to the remote control's built-in WiFi, you can control your heat pump remotely.



GREEN FIN TREATMENT

The new anti-corrosion treatment for the outdoor unit offers increased resistance to salty air (only available with Wellea M HT).



COMPACT AND SILENT

The outdoor unit is fitted with a single fan, which reduces both size and noise levels. Noise reduction thanks to sound insulation and compressor anti-vibration plate.

Air/water range selection guide

RANGE	WELLEA M HT	WELLEA WT MT	WELLEA S MT	WELLEA M MT	WELLEA M DF MT
					
Refrigerant	R290	R32	R32	R32	R32
Sizes	4-6-8-10-12-14-16	4-6-8-10-12-14-16	4-6-8-10-12-14-16	4-6-8-10-12-14-16	18-22-26-30
Link	Hydraulic	Refrigeration	Refrigeration	Hydraulic	Hydraulic
Water temperature	 75°C HIGH TEMPERATURE UP TO 75°C	 60°C MEDIUM TEMPERATURE UP TO 60°C	 60°C MEDIUM TEMPERATURE UP TO 60°C	 60°C MEDIUM TEMPERATURE UP TO 60°C	 60°C MEDIUM TEMPERATURE UP TO 60°C
POWER SUPPLY					
Single-phasee	✔	✔	✔	✔	✖
Three-phasee	✔	✔	✔	✔	✔
ENERGY LABELS					
Heating	A+++	A+++	A+++	A+++	A+++
Domestic hot water	✖	A+	✖	✖	✖
FUNCTIONS					
Heating	✔	✔	✔	✔	✔
Cooling	✔	✔	✔	✔	✔
Domestic hot water (DHW)	✔	✔	✔	✔	✔
PROJECT					
New	✖	✔	✔	✔	✖
Boiler replacement	✔	✔	✔	✔	✔
INSTALLATION					
Unit	Monoblock	Split	Split	Monoblock	Monoblock
Electric supply	✔	✔	✔	✔ ou ✔	✔
Anti-corrosion treatment	 GREEN FIN	 BLUE FIN	 BLUE FIN	 BLUE FIN	 BLUE FIN
CONNECTABLE HEATERS					
High-temperature radiators	✔	✖	✖	✖	✖
Low or medium temperature radiators	✔	✔	✔	✔	✔
Fan coils	✔	✔	✔	✔	✔
Underfloor heating	✔	✔	✔	✔	✔
CONNECTED SERVICES					
Remote control using the AirHome mobile application	✔	✔	✔	✔	✔
Compatible with our My Hybrid House by Airwell offer	✔	✔	✔	✔	✔

✔ Built-in ✔ Optional