

+ PRODUCT

- RCW31 controller included
- Water temperature up to 85°C
- DHW temperature up to 70°C
- Cascade up to 6 units

Connectivity



* With AirConnect 4.0.

Technology



GREEN FIN
TREATMENT
EXCHANGERS

User functions



Installer functions



Heating



(I) Available with the Netatmo thermostat.

NEW

WELLEA M DF HT

Monoblock heat pump with R290 natural fluid



RCW31 included

+ SUSTAINABLE DEVELOPMENT

- Energy savings thanks to A+++ energy class.
- Maintains performance down to -10°C without the need for an electrical back-up.
- Natural refrigerant with low environmental impact, GWP=0.02.

+ USER

- Ideal for small multi-unit buildings.
- Keeps your cast iron radiators at a water temperature of 75°C.
- Quiet operation.
- Remote control via Netatmo thermostat..

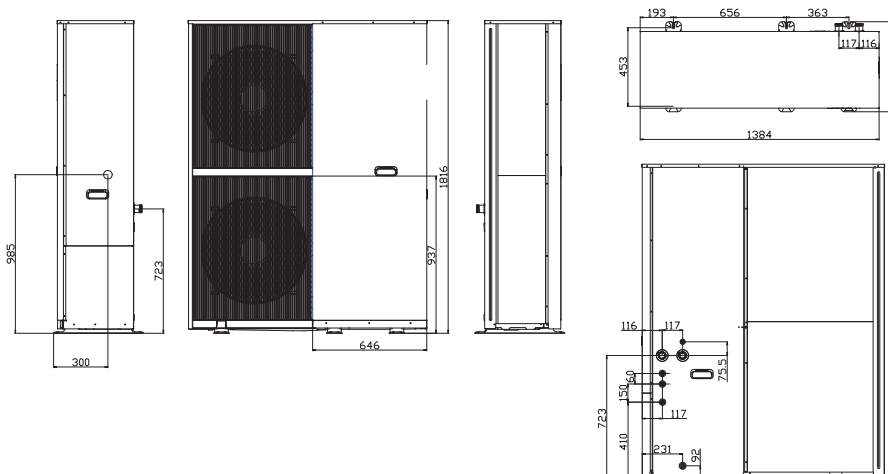
+ INSTALLER

- Customisable water program.
- High temperature up to 85°C.
- Specific anti-corrosion treatment.
- Cascade operation up to 234 kW.

+ TECHNOLOGY

- R290 EVI compressor.
- Works down to an outdoor of -25°C.
- Class VI regulation with RCW31.

TECHNICAL DRAWS



Capacity tables

WELLEA M DF HT - Maximum heating capacity (without defrosting)

MODEL	OUT-T° (°C)	LEAVING WATER TEMPERATURE (°C)											
		35		45		55		65		75		85	
		Heat.C. (l·W)	P.input (l·W)	Heat.C. (l·W)	P.input (l·W)	Heat.C. (l·W)	P.input (l·W)	Heat.C. (l·W)	P.input (l·W)	Heat.C. (l·W)	P.input (l·W)	Heat.C. (l·W)	P.input (l·W)
26 l·W	-25	16.52	8.22	17.85	11.02	18.67	13.24	19.68	15.14	17.55	14.63		
	-20	18.63	8.41	20.14	10.75	20.29	12.00	21.03	13.84	18.51	13.62		
	-15	20.47	8.50	21.10	9.62	21.24	11.28	22.20	12.89	20.85	12.99	18.03	13.59
	-10	25.58	9.76	26.02	10.41	26.01	11.26	26.01	12.39	23.78	13.55	18.95	11.81
	-7	26.06	10.62	26.37	11.59	27.43	13.35	27.96	15.32	26.26	15.18	19.45	12.64
	-5	26.13	9.82	26.56	11.16	26.33	12.00	26.87	13.74	26.86	14.92	18.92	12.37
	0	24.76	7.50	25.64	8.86	25.07	10.85	25.32	12.20	26.21	14.17	17.46	11.26
	2	26.41	7.50	26.70	8.70	26.10	10.65	26.51	12.14	27.60	13.83	17.78	10.52
	5	24.64	5.13	24.64	6.31	21.99	7.48	21.98	9.48	21.98	10.29	16.38	8.69
	7	26.00	5.45	26.00	6.32	26.00	7.85	26.00	9.86	26.00	11.06		
	10	26.01	5.10	26.02	5.60	26.01	6.88	26.01	8.26	26.01	9.97		
	15	26.02	4.86	26.01	5.26	26.01	6.18	26.01	7.05	26.02	9.53		
	20	26.01	4.55	26.01	4.90	26.02	5.48	26.01	6.47	26.02	9.50		
30 l·W	-25	16.52	8.22	17.85	11.02	20.93	14.84	21.88	16.83	19.38	16.15		
	-20	20.52	9.27	22.19	12.19	22.36	13.61	23.17	15.69	20.39	15.44		
	-15	22.55	9.37	23.25	10.91	23.40	12.78	24.46	14.61	22.97	14.72	18.03	13.98
	-10	28.18	10.75	29.08	12.26	30.05	14.82	30.01	16.77	26.20	15.36	18.95	12.15
	-7	24.00	8.06	28.26	12.18	30.22	15.14	30.80	17.36	28.93	17.21	19.45	13.01
	-5	28.07	10.47	28.62	12.13	29.01	13.22	29.61	15.58	29.59	16.43	18.92	12.10
	0	26.51	7.93	27.45	9.95	27.63	13.60	28.40	14.08	29.09	15.82	17.46	10.81
	2	27.96	8.15	28.27	9.50	28.75	12.07	29.68	13.99	30.59	15.77	17.78	10.29
	5	27.25	7.42	27.25	8.45	25.37	9.75	25.37	11.16	25.37	12.40	16.38	8.94
	7	30.00	6.67	30.00	8.26	30.00	9.57	30.00	11.85	30.00	12.82		
	10	30.00	6.32	30.01	7.82	30.01	8.77	30.01	10.38	30.01	11.96		
	15	30.02	5.94	30.01	7.01	30.02	8.01	30.02	9.35	30.02	11.08		
	20	30.05	5.72	30.01	6.44	30.01	7.23	30.05	8.44	30.01	11.28		
35 l·W	-25	16.52	8.22	18.54	11.44	22.75	16.13	24.55	18.88	19.38	16.15		
	-20	23.70	11.45	25.62	14.64	25.82	16.34	26.75	18.84	23.55	18.54		
	-15	26.04	11.57	26.85	13.10	27.02	15.35	28.25	17.55	26.52	17.68	18.03	14.54
	-10	32.54	13.28	33.58	15.40	35.01	17.73	35.01	20.10	30.25	18.45	18.95	12.63
	-7	33.15	14.46	33.54	15.78	34.90	18.18	35.57	20.85	33.41	20.67	19.45	13.53
	-5	33.25	13.37	33.91	15.12	33.50	16.34	34.19	18.71	34.17	19.73	18.92	12.58
	0	31.50	10.20	32.62	14.12	31.90	14.77	31.87	16.43	33.34	18.86	17.46	11.24
	2	33.60	10.60	33.97	13.75	33.20	14.50	33.73	16.53	35.11	18.82	17.78	10.70
	5	33.18	8.16	33.22	9.27	33.60	11.62	33.56	14.53	34.21	16.21	16.38	9.00
	7	35.00	8.40	35.00	9.51	35.00	11.75	35.00	14.60	35.00	15.24		
	10	35.06	8.18	35.06	9.43	35.06	10.76	35.06	12.72	35.07	14.62		
	15	35.06	7.20	35.06	8.39	35.06	9.48	35.06	11.37	35.08	13.98		
	20	35.06	6.92	35.06	7.66	35.06	8.69	35.06	10.32	35.06	13.23		
39 l·W	-25	18.41	9.64	20.66	13.43	25.35	18.93	27.36	22.16	21.59	18.95		
	-20	26.41	13.44	28.55	17.18	28.77	19.18	29.81	22.11	26.24	21.76		
	-15	29.02	13.58	29.92	15.37	30.11	18.02	31.48	20.59	29.55	20.75	20.09	17.06
	-10	36.26	15.59	37.42	17.28	39.01	20.81	39.01	23.59	33.71	21.64	21.12	14.82
	-7	36.52	16.37	36.95	17.85	38.01	20.75	38.73	23.81	36.38	23.60	21.19	15.93
	-5	36.04	15.83	36.75	17.90	37.25	19.99	38.01	22.89	37.99	24.14	21.03	15.40
	0	36.78	12.73	38.09	15.04	38.33	19.19	38.30	21.36	40.06	24.51	20.98	14.61
	2	38.20	12.56	38.62	14.58	39.28	18.53	39.90	21.13	41.54	24.06	21.03	13.67
	5	33.21	10.06	33.25	11.43	33.21	12.77	33.25	16.72	33.39	18.31	18.38	11.10
	7	39.00	9.75	39.00	11.90	39.00	14.00	39.00	16.67	39.00	17.88		
	10	39.07	9.59	39.07	11.07	39.07	12.63	39.07	14.92	39.08	17.15		
	15	39.07	8.45	39.07	9.84	39.07	11.12	39.07	13.35	39.09	16.40		
	20	39.07	8.12	39.07	8.99	39.07	10.20	39.07	12.11	39.07	15.53		

WELLEA M DF HT - Maximum cooling capacity

		LEAVING WATER TEMPERATURE (°C)													
		5		7		10		15		18		20		25	
MODEL	O _{UT} T (°C)	Cool.C. (l·W)	P.input (l·W)	Cool.C. (l·W)	P.input (l·W)	Cool.C. (l·W)	P.input (l·W)	Cool.C. (l·W)	P.input (l·W)	Cool.C. (l·W)	P.input (l·W)	Cool.C. (l·W)	P.input (l·W)	Cool.C. (l·W)	P.input (l·W)
26 l·W	20	22.33	5.90	23.12	5.78	24.88	5.91	26.01	5.64	26.04	5.22	26.01	4.76	26.03	4.53
	25	24.45	6.68	25.83	6.83	26.01	6.34	26.03	5.89	26.01	5.36	26.02	4.86	26.01	4.81
	30	25.01	7.28	26.01	7.19	26.02	6.99	26.03	5.98	26.05	5.76	26.01	5.18	26.01	4.83
	35	25.57	9.08	26.00	8.40	26.00	8.00	26.00	6.18	26.00	5.60	26.00	5.25	26.00	5.08
	40	22.43	8.16	23.33	8.25	23.93	8.14	26.02	6.52	26.03	6.12	26.01	5.63	26.02	5.36
	45	12.48	4.71	13.44	4.66	14.05	4.53	20.30	5.68	26.02	6.02	26.03	5.75	26.01	5.59
	48	7.36	2.84	7.86	2.78	8.77	2.88	10.13	2.98	14.21	3.82	14.65	3.80	16.52	4.02
30 l·W	20	23.82	6.84	24.66	6.70	26.54	6.85	29.89	7.12	30.03	6.46	30.02	6.18	30.02	6.06
	25	26.08	7.74	27.56	7.91	28.86	7.91	30.03	7.24	30.01	6.64	30.04	6.50	30.03	6.32
	30	27.52	8.71	28.50	8.79	30.02	8.70	30.01	7.48	30.01	6.68	30.04	6.57	30.02	6.44
	35	29.72	11.47	30.00	10.70	30.00	10.17	30.00	7.79	30.00	6.80	30.00	6.68	30.00	6.58
	40	23.92	9.46	24.89	9.57	25.53	9.44	30.03	9.36	30.02	7.06	30.02	6.98	30.01	6.74
	45	13.31	5.47	14.34	5.40	14.98	5.26	21.66	6.59	25.24	7.33	26.07	7.15	27.36	7.04
	48	7.85	3.29	8.38	3.22	9.35	3.34	10.81	3.30	13.41	3.92	14.25	4.02	15.41	4.07
35 l·W	20	24.25	7.22	25.10	7.07	27.01	7.22	30.43	7.51	32.83	7.62	35.10	7.39	35.01	6.99
	25	26.55	8.17	28.05	8.35	29.37	8.34	32.84	8.57	35.10	8.20	35.01	8.05	35.04	7.74
	30	28.01	9.18	29.01	9.27	32.19	10.03	35.01	10.42	35.10	8.26	35.10	8.07	35.06	7.88
	35	30.25	12.10	32.00	11.98	33.55	12.20	35.00	9.83	35.00	8.50	35.00	8.25	35.00	8.05
	40	24.35	9.98	25.33	10.09	25.98	9.96	31.82	9.79	35.05	9.10	35.03	8.87	35.02	8.24
	45	13.55	5.77	14.60	5.86	15.25	5.91	22.05	7.23	25.69	8.23	26.54	8.17	27.85	7.43
	48	7.99	3.47	8.53	3.48	9.52	3.78	11.00	3.73	13.65	4.42	14.51	4.53	15.69	4.30
39 l·W	20	24.25	7.22	25.10	7.07	30.10	8.22	33.90	8.55	36.58	8.67	39.11	8.41	39.01	7.95
	25	26.55	8.17	28.05	8.35	32.70	9.59	36.55	9.85	39.07	9.42	38.97	9.25	39.00	8.89
	30	28.01	9.18	29.01	9.27	35.81	11.64	38.95	12.10	39.05	9.59	39.05	9.37	39.00	9.15
	35	30.25	12.10	32.00	11.98	37.38	14.15	39.00	11.40	39.00	9.85	39.00	9.57	39.00	9.33
	40	24.35	9.98	25.33	10.09	28.99	11.55	35.49	11.36	39.10	10.57	39.08	10.29	39.07	9.56
	45	13.55	5.77	14.60	5.86	16.99	6.85	24.57	8.38	28.63	9.55	29.57	9.47	31.03	8.61
	48	7.99	3.47	8.53	3.48	10.61	4.38	12.26	4.32	15.21	5.12	16.17	5.26	17.48	4.98

TECHNICAL DATA

UNITS OUTDOORS			BDHX-260R-04T35	BDHX-300R-04T35	BDHX-350R-04T35	BDHX-400R-04T35
Code			7MB140030	7MB140031	7MB140032	7MB140033
Phase			Three-phase	Three-phase	Three-phase	Three-phase
HEATING MODE						
Air +7°C Water 30/35°C	Heating capacity	kW	26.00	30.00	35.00	39.00
	Power input	kW	5.45	6.67	8.40	9.75
	COP		4.77	4.50	4.17	4.00
Air -7°C Water 30/35°C	Heating capacity	kW	26.06	29.04	33.15	33.65
	Power input	kW	10.62	11.60	14.46	12.84
	COP		2.45	2.50	2.29	2.62
Air +7°C Water 47/55°C	Heating capacity	kW	26.00	30.00	35.00	39.00
	Power input	kW	7.85	9.57	11.75	14.00
	COP		3.31	3.13	2.98	2.79
Air -7°C Water 47/55°C	Heating capacity	kW	27.43	30.22	34.90	36.52
	Power input	kW	13.35	15.14	18.18	16.37
	COP		2.05	2.00	1.92	2.23
Air +7°C Water 55/70°C	Heating capacity	kW	26.00	30.00	35.00	39.00
	Power input	kW	10.61	12.20	14.90	14.00
	COP		2.45	2.46	2.35	2.79
Air -7°C Water 55/70°C	Heating capacity	kW	28.63	31.54	36.42	38.01
	Power input	kW	16.11	18.26	21.93	20.75
	COP		1.78	1.73	1.66	1.83
Air +7°C Water 65/80°C	Heating capacity	kW	25.80	28.43	32.82	36.58
	Power input	kW	11.37	12.89	16.83	19.75
	COP		2.27	2.20	1.95	1.85
Air -7°C Water 65/80°C	Heating capacity	kW	24.32	26.80	30.94	33.70
	Power input	kW	15.43	17.49	21.00	24.42
	COP		1.58	1.53	1.47	1.38
COOLING MODE						
Air 35°C Water 12/7°C	Cooling capacity	kW	26.00	30.00	32.00	32.00
	Power input	kW	8.40	10.70	11.98	11.98
	EER		3.10	2.80	2.67	2.67
Air 35°C Water 23/18°C	Cooling capacity	kW	26.00	30.00	35.00	39.00
	Power input	kW	5.60	6.80	8.50	9.85
	EER		4.64	4.41	4.12	3.96
PERFORMANCES						
Energy label (average climate)	Water outlet at 35°C		A+++			A++
	Water outlet at 55°C		A+++	A++		
Seasonal efficiency (average climate)	Water outlet at 35°C	%	195	194	176	170
	Water outlet at 55°C	%	150	148	142	135
SCOP (average climate)	Water outlet at 35°C		4.95	4.92	4.48	3.84
	Water outlet at 55°C		3.84	3.79	3.63	3.00
Sound level		dB(A)	69	74	75	76
Sound pressure level (1m)		dB(A)	55	61	62	62
Sound level quiet mode		dB(A)	62	62	63.5	65
Sound pressure level quiet mode (1m)		dB(A)	45	47	48	50.5
Sound pressure level quiet mode (2m)		dB(A)	45	47	48	48.5
OPERATING LIMITS						
Outdoor air temperature	Cooling	°C	-15/48			
	Heating	°C	-25/43			
	Domestic hot water	°C	-25/43			
POWER SUPPLY						
Tension/Phase/Fréquence			3P/380-415V/50Hz			
Power cable section	mm²		5G6	5G10	5G10	5G10
Fuse rating am	A		32	32	40	40
Remote controller connection (shielded)	mm²		2x0.75	2x0.75	2x0.75	2x0.75
INSTALLATION AND OTHERS						
Airflow	m³/h		11000			
Refrigerant/PRP			R290/0.02			
Charge	kg		2.9			
Unit dimensions (WxHxD)	mm		1384x1816x523			
Package dimensions (WxHxD)	mm		1480x2000x570			
Net weight/Gross weight	kg		260/285			
Pipe diameter (water)	inches		R1-1/4"			