

Heat pumps - Cooling and heating mode

WELLEA MONOBLOC

R32 MONOBLOC HEAT PUMP



COP up to 5.00

EER up to 4.82



+ PRODUCTS

- Cooling and heating mode.
- No refrigerant handling.
- Energy efficiency: 177% (η_s).



(included)

FEATURES



DC INVERTER



R32 FLUID



WEEK TIMER



COOLING MODE OPERATIONAL UP TO 46°C OUTDOORS



HEATING MODE OPERATIONAL DOWN TO -25°C OUTDOORS



HIGH TEMPERATURE UP TO 60°C



FLOOR HEATING



HIGH-TEMPERATURE RADIATOR



LOW-TEMPERATURE RADIATOR



BOILER BACKUP



ULTRA QUIET



WATER PROGRAMS



DOMESTIC HOT WATER

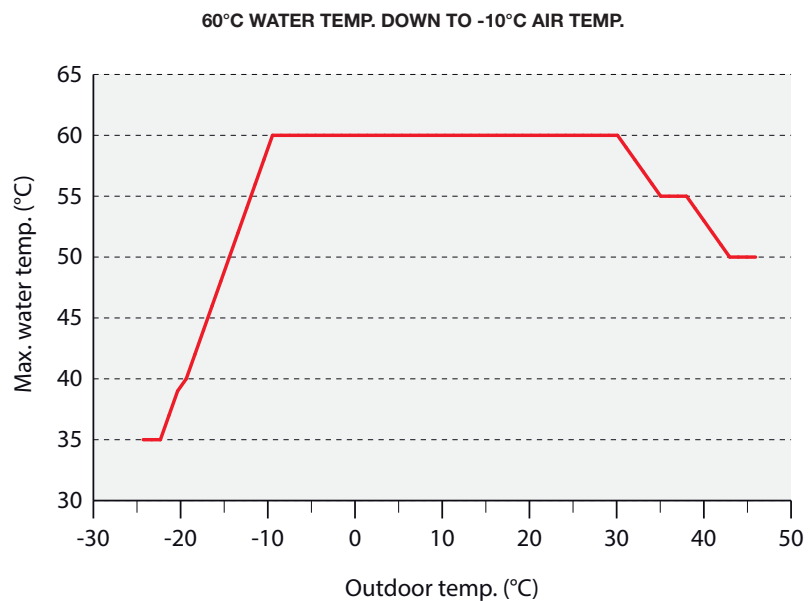


5-7-9 kW



12-14-16 kW

- Compatible with several transmitters: heated floors, radiators, fan-convectors...
- "Plug & Play" solution to replace old monobloc heat pumps.
- Compact solution: small footprint.
- Safety features included (safety valve, expansion tank).
- High performance: COP up to 5.00 and EER up to 4.82.
- Auxiliary heat resistance included (models 12-14-16 kW).
- Large control screen integrated on the product (status, diagnosis...).
- Durability: high protection treatment on electronic cards.
- ModBus connexion. Connected your house!



WELLEA MONOBLOC TECHNICAL DATA - SINGLE PHASE

Models		AW-WHPM05-H91	AW-WHPM07-H91	AW-WHPM09-H91	AW-WHPM12-H91	AW-WHPM14-H91	AW-WHPM16-H91	
Part number		7HP061050	7HP061051	7HP061052	7HP061053	7HP061054	7HP061055	
Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	
HEATING MODE								
Air +7°C Water 30/35°C	Heating capacity	kW	4.65	6.65	8.60	12.30	14.10	16.30
	Power input	kW	0.93	1.35	1.87	2.56	3.07	3.66
	COP		5.00	4.94	4.60	4.81	4.60	4.45
Air -7°C Water 30/35°C	Heating capacity	kW	4.90	6.45	7.50	12.00	12.80	13.50
	Power input	kW	1.64	2.16	2.53	4.29	4.60	4.91
	COP		2.99	2.98	2.96	2.80	2.78	2.75
Air +7°C Water 40/45°C	Heating capacity	kW	4.80	6.70	8.60	12.40	14.10	16.20
	Power input	kW	1.33	1.88	2.50	3.52	4.06	4.72
	COP		3.60	3.57	3.44	3.53	3.47	3.43
Air +7°C Water 47/55°C	Heating capacity	kW	4.65	6.80	8.60	11.90	14.20	16.10
	Power input	kW	1.77	2.42	3.13	4.28	5.17	5.91
	COP		2.63	2.81	2.75	2.78	2.75	2.73
COOLING MODE								
Air 35°C Water 12/7°C	Cooling capacity	kW	4.85	6.30	7.95	10.90	12.90	13.80
	Power input	kW	1.63	2.27	3.15	3.74	4.62	5.21
	EER		2.98	2.77	2.53	2.92	2.80	2.65
Air 35°C Water 23/18°C	Cooling capacity	kW	4.60	6.45	8.00	12.20	14.00	15.50
	Power input	kW	0.95	1.39	1.92	2.55	3.10	3.64
	EER		4.82	4.65	4.16	4.78	4.52	4.26
PERFORMANCE								
Energy label	Water outlet to 35°C	ηs/class	176%/A+++	176%/A+++	177%/A+++	169%/A++	168%/A++	169%/A++
	Water outlet to 55°C	ηs/class	127%/A++	127%/A++	126%/A++	126%/A++	128%/A++	128%/A++
SCOP (average climate)	Water outlet to 35°C		4.47	4.47	4.51	4.29	4.27	4.30
	Water outlet to 55°C		3.24	3.24	3.22	3.23	3.26	3.27
SEER (average climate)	Water outlet to 7°C		4.71	4.99	4.92	4.85	4.73	4.54
	Water outlet to 18°C		7.61	8.58	7.88	7.50	7.16	6.78
Sound level		dB(A)	61	64	67	68	71	71
OPERATING LIMITS								
Outdoor air temperature	Cooling	°C	-5/43			-5/46		
	Heating	°C				-25/35		
	DHW	°C				-25/43		
Water temperature	Cooling	°C				5/25		
	Heating	°C				25/60		
	DHW	°C				40/60		
POWER SUPPLY								
Electric backup heater	Built-in standard	kW	-	-	-	3.0	3.0	3.0
	Optional	kW	3.0	3.0	3.0	-	-	-
	Number of stages		1	1	1	1	1	1
Power supply			1P/220-240V/50Hz					
Fuse rating	A	25	25	25	30	30	30	
INSTALLATION & OTHERS								
Air flow		m³/h	3050	3050	3050	6150	6150	6150
Refrigerant	Type/GWP		R32/675					
	Charge	kg	2.0			2.8		
Outline dimensions (WxHxD)	mm	1210x945x402				1404x1414x405		
Package dimensions (WxHxD)	mm	1500x1140x450				1475x1580x440		
Net weight/Gross weight	kg	92/110				163/183		
Water connection	inches	1" Male				1-1/4" Male		

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and heating mode

WELLEA MONOBLOC


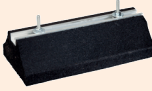
R32 MONOBLOC HEAT PUMP

Air to water heat pumps

WELLEA MONOBLOC TECHNICAL DATA - THREE PHASE



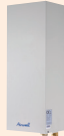
Models		AW-WHPM12-H93		AW-WHPM14-H93		AW-WHPM16-H93	
Part number		7HP061056		7HP061057		7HP061058	
Phase		Triphasé		Triphasé		Triphasé	
HEATING MODE							
Air +7°C Water 30/35°C	Heating capacity	kW	12.30	14.10	16.30		
	Power input	kW	2.54	3.05	3.63		
	COP		4.84	4.63	4.49		
Air -7°C Water 30/35°C	Heating capacity	kW	12.00	12.80	13.50		
	Power input	kW	4.22	4.55	4.85		
	COP		2.84	2.81	2.79		
Air +7°C Water 40/45°C	Heating capacity	kW	12.40	14.10	16.20		
	Power input	kW	3.45	3.99	4.70		
	COP		3.59	3.54	3.45		
Air +7°C Water 47/55°C	Heating capacity	kW	11.90	14.20	16.10		
	Power input	kW	4.24	5.10	5.83		
	COP		2.81	2.79	2.76		
COOLING MODE							
Air 35°C Water 12/7°C	Cooling capacity	kW	10.90	12.90	13.80		
	Power input	kW	3.72	4.62	5.19		
	EER		2.93	2.80	2.66		
Air 35°C Water 23/18°C	Cooling capacity	kW	12.20	14.00	15.50		
	Power input	kW	2.53	3.11	3.63		
	EER		4.83	4.50	4.27		
PERFORMANCE							
Energy label	Water outlet to 35°C	ηs/ class	169%/A++	168%/A++	169%/A++		
	Water outlet to 55°C	ηs/ class	126%/A++	128%/A++	128%/A++		
SCOP (average climate)	Water outlet to 35°C		4.29	4.27	4.30		
	Water outlet to 55°C		3.23	3.26	3.27		
SEER (average climate)	Water outlet to 7°C		4.86	4.73	4.54		
	Water outlet to 18°C		7.5	7.16	6.78		
Sound level		dB(A)	68	71	71		
OPERATING LIMITS							
Outdoor air temperature	Cooling	°C		-5/46			
	Heating	°C		-25/35			
	DHW	°C		-25/43			
Water temperature	Cooling	°C		5/25			
	Heating	°C		25/60			
	DHW	°C		40/60			
POWER SUPPLY							
Electric backup heater	Built-in standard	kW	4.5	4.5	4.5		
	Number of stages		1	1	1		
Power supply			3P/380-415V/50Hz				
Fuse rating	A		15	15	15		
INSTALLATION & OTHERS							
Air flow		m³/h	6150				
Refrigerant	Type/GWP		R32/675				
	Charge	kg	2.8				
Outline dimensions (WxHxD)		mm	1404x1414x405				
Package dimensions (WxHxD)		mm	1475x1580x440				
Net weight/Gross weight		kg	177/198				
Water connection		inches	1-1/4" Male				

ALL HEAT PUMPS ACCESSORIES

PART NUMBER	NAME	FUNCTION
(included)	Y-shape filter ⓘ	Protect the heat pump from sludging and preserve optimum thermal exchange.
7ACFH0663	Buffer tank 140 L	It protects the heat pump against short cycles that can reduce the useful life of the compressors and improves operation during defrosting phases.
 7ACFH0666	Settling filter (pot) ⓘ	Protect the heat pump from sludging and preserve optimum thermal exchange.
 7ACTL0510	Floor support rubber recycled (pair) ⓘ Length: 1 000 mm	Necessary for a professional installation.

ⓘ Mandatory accessory.

WELLEA MONOBLOC ACCESSORIES

PART NUMBER	NAME	FUNCTION
 (included)	User interface kit (digital remote controller)	<ul style="list-style-type: none"> - ON/OFF unit, outside heat source. - Operation mode setting: cooling/heating/auto. - DHW setting: fast DHW / holiday / disinfect. / DHW pump setting. - Temperature setting: water outlet temperature, room temperature. - Time setting: 12h/24. - Timer ON/OFF setting, day/weekly. - Display space heating/cooling set temperature, water tank temperature. - Display components status. - Query, malfunction code, parameter. - Test mode setting.
(included)	Thermistor for domestic hot water tank	DHW temperature control.
 7ACFH0662	300 L domestic hot water tank kit	Optimised with the operation of the heat pump: <ul style="list-style-type: none"> - Programmable anti-legionella function. - Management of the three-way valve / circulator pump couple. - 3.1 m² exchange surface.
 7ACFH0822	On-line electric heater - 3 kW	It provides extra heating when the heating demand is greater than the capacity of the heat pump. It is matching only with sizes 5, 7 and 9.