

VIVAX



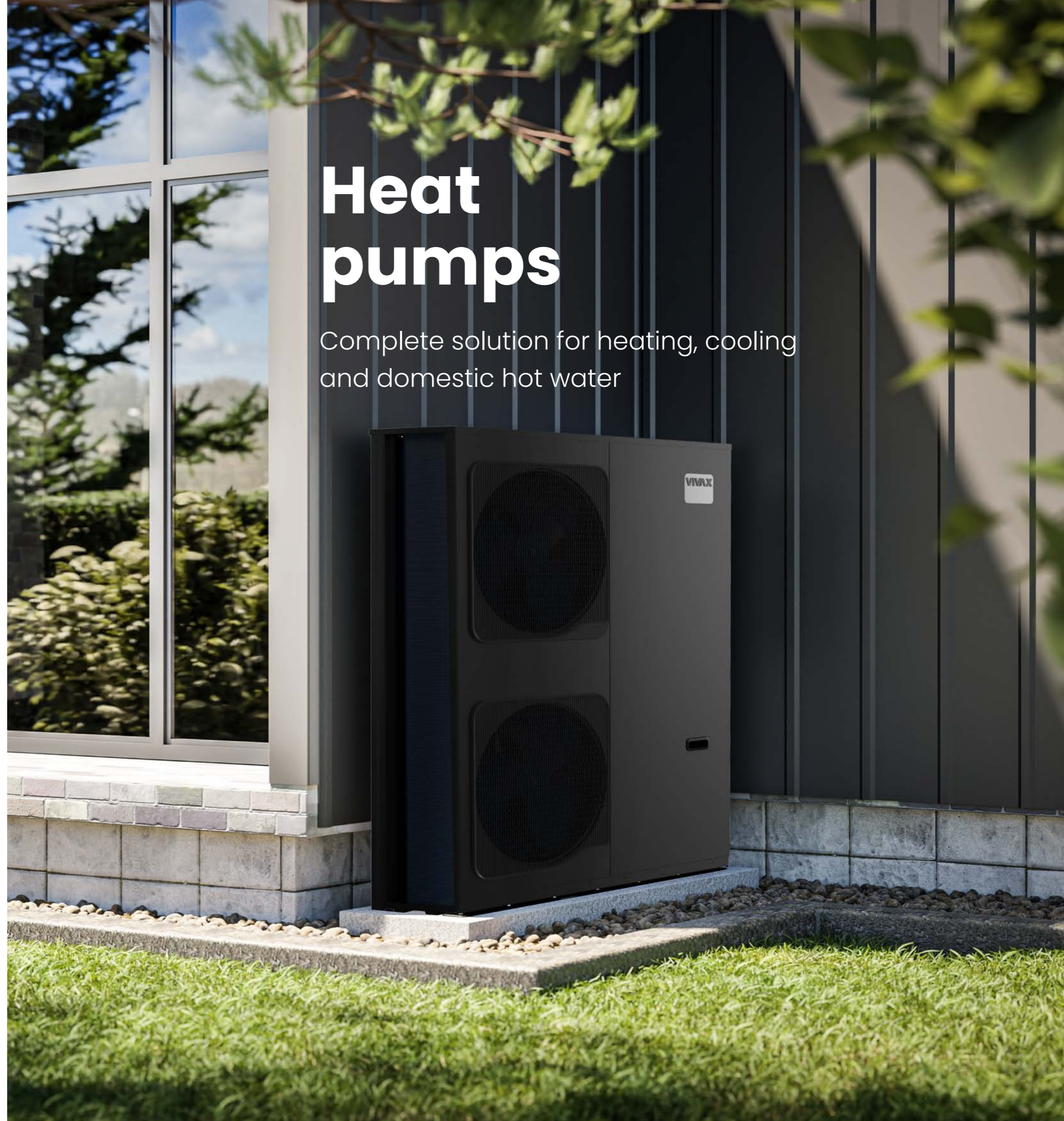
Heat pumps and ESS catalogue **2025**

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Heat pumps

Complete solution for heating, cooling and domestic hot water



Product overview

A

Heat pumps are becoming increasingly available economic and ecological solutions enabling heating, cooling and domestic hot water. Their numerous benefits make them a top solution for all the living spaces.

B

WHY HEAT PUMPS?

Heat pumps use free energy from the environment. Energy sources can be earth, groundwater or air. Only cost of the heat pump operation is electric energy that the heat pump uses.

C

5 YEAR FACTORY WARRANTY

The warranty for VIVAX heat pumps is 60 months with mandatory annual service by an authorised service centre. This is a regular warranty for our heat pumps, and after the purchase, no additional registration of the device is required to obtain the warranty. Detailed information on warranty conditions and a list of authorised services can be found at vivax.com.

D

LONGTERM COST EFFECTIVENESS

Although the initial investment in a heat pump is a bit higher it is a long-term cost-effective investment, compared to traditional heating solutions based on fossil fuels. Savings in heating goes over 75%. Considering the high savings in energy consumption, average investment in heat pump completely returns in only a few years. Seasonal efficiency coefficient (SCOP) of the VIVAX heat pumps is measured in different operation modes, considering the user needs. In heating mode, it is determined for a water supply temperature of 35 °C, where the values rise up to 6.91, and for a supply temperature of 55 °C, where the values rise up to 4.94.

E

Monoblock units R290



Capacity (kW)	8,0	10,0	12,0	14,0	16,0	26,0	30,0	35,0
220 ~ 240 - 1 Ph	•	•						
380 ~ 415 - 3 Ph			•	•	•	•	•	•

Split system R32



	Outdoor unit		Outdoor unit				Indoor unit		
Capacity (kW)	6.0	8.0	10.0	12.0	14.0	16.0	6.0	8.0-10.0	12.0-16.0
220 ~ 240 - 1 Ph	•	•	•				•	•	•
380 ~ 415 - 3 Ph				•	•	•		•	•

Split system R32



ESS



	Indoor unit		
Capacity (kW)	6.0	8.0-10.0	12.0-16.0
220 ~ 240 - 1 Ph	•	•	•
380 ~ 415 - 3 Ph	•	•	•

Monoblock units R32



Capacity (kW)	6.0	8.0	10.0	12.0	14.0	16.0
220 ~ 240 - 1 Ph	•	•	•			
380 ~ 415 - 3 Ph				•	•	•

SECTION A-A

MASTER SLATE



R290

Investing in a sustainable green future

Long-term solution is our mission



GWP **3** Lower global warming impact

ODP **0** Ozone layer neutral

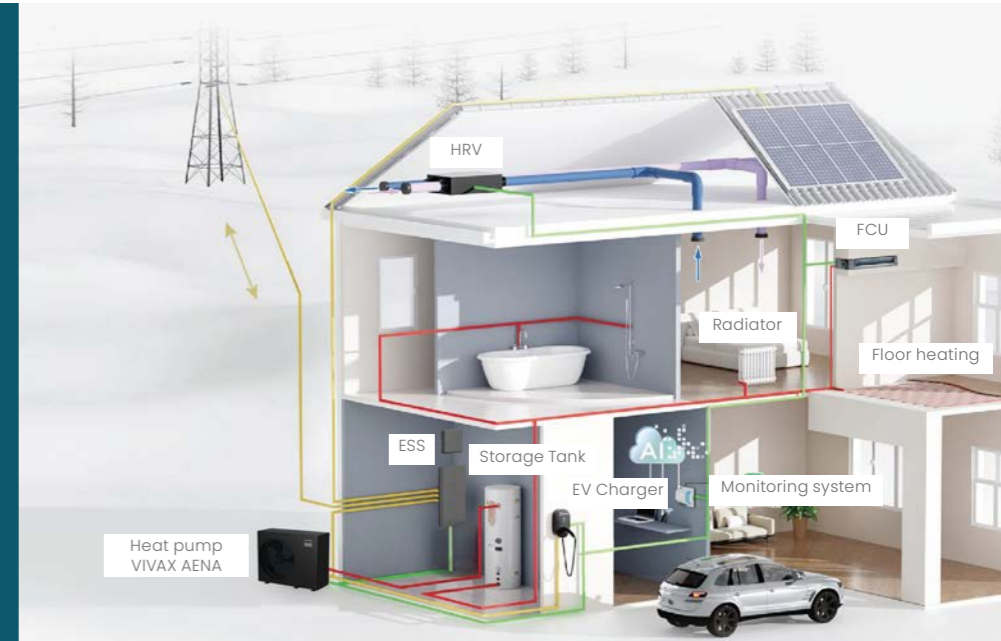
Natural refrigerant

- The low GWP value further demonstrates its environmental protection characteristics, which provides great support to reach EU carbon neutrality.
- Thanks to the excellent thermodynamic properties of R290 and the advanced heat pump technology, with only a small amount of R290, VIVAX AENA and AEMA heat pumps show great performance under cold condition.
- It is a modern solution that balances ecosystem requirements with economic performance.



Comprehensive and flexible system monitoring in combination with PV panels and ESS system

- Heating, cooling, domestic hot water
- Ideal for replacement
- 80 °C high water



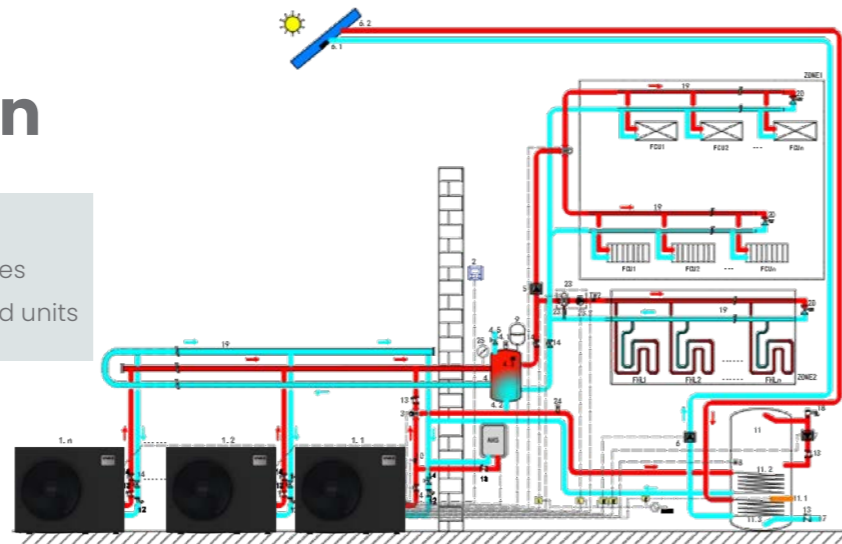
AENA Series

- 80 °C hot water from -10 °C to 15 °C ambient temperature by heat pump only.
- 80 °C hot water from -25 °C to 35 °C ambient temperature by heat pump with integrated electric heater.
- 60 °C hot water under -25 °C ambient temperature by heat pump only.

Heat pump		-10 to 15°C	80°C
Heat pump + Internal electric heater		-25 to 35°C	80°C
Heat pump + Auxiliary heating source (Field supplied)		-25 to 35°C	80°C
Heat pump		-25°C	60°C

Complete solution

- Double zone application
- The possibility of achieving higher capacities (48-96 kW) with a maximum of 6 connected units



DC Inverter technology

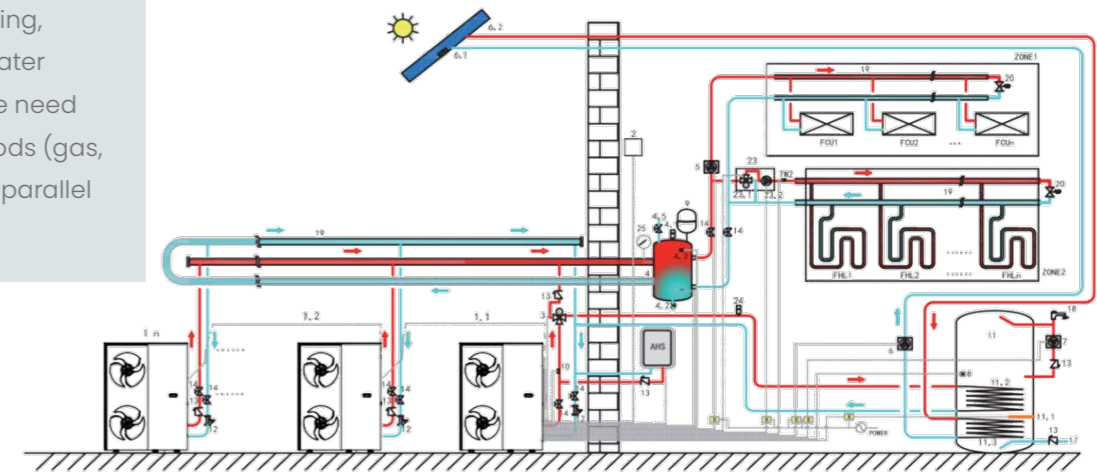
- CE/CCC certification
- BLDC fan motor
- Quiet operation
- Low power consumption

- CE certification
- Wide working frequency
- High efficiency
- Compact structure

- CE certification
- High efficiency
- Level of protection IPX4D

AEMA Series

A complete solution for heating, cooling and domestic hot water needs that can eliminate the need for traditional heating methods (gas, wood, heating oil) or work in parallel with existing systems.



Main characteristics

- -10 °C Heating capacity = 100%
- -15 °C Heating capacity ≥ 75%
- -20 °C Heating capacity ≥ 70%
- -25 °C Heating capacity ≥ 65%
- Maximum water temperature flow 85 °C
- Maximum DHW temperature flow 75 °C

NATURAL REFRIGERANT

POWERFUL HEATING

HIGH EFFICIENCY

HIGH WATER TEMPERATURE

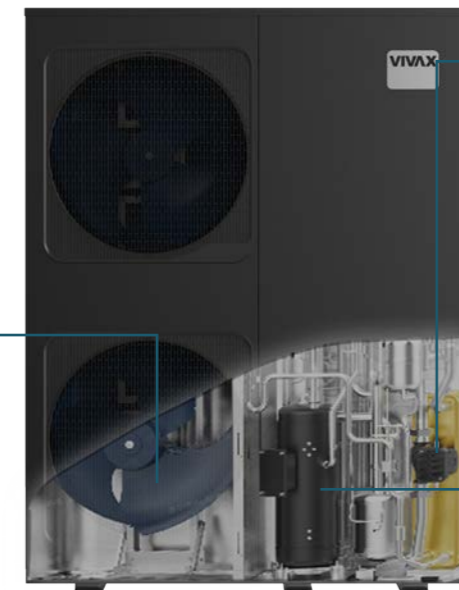
SMART CONTROL

NEW STRUCTURE & APPEARANCE

SAFETY

DC Inverter technology

- ### INVERTER FAN AND COMPRESSOR
- Precise water temperature control (0.1 °C)
 - Adaptive and efficient operation throughout the operating range



DC INVERTER WATER PUMP

- Adaptive adjustment to the optimal target temperature difference
- Combine efficiency with user comfort
- The power consumption of water pump transmission and distribution can be reduced by 70%

R290 EVI SCROLL COMPRESOR

- Low temperature heating performance improved by 20%
- Condensation temperature is up to 85 °C, and the unit has a higher outlet water temperature

VIVAX AENA R290

Nominal capacity		kw	8	10	12	14	16
VIVAX R290 AENA Series			HPM-28CH84AENA R290-1	HPM-34CH100AENA R290-1	HPM-41CH120AENA R290-3	HPM-48CH140AENA R290-3	HPM-53CH155AENA R290-3
Power supply	V/Ph/Hz		220-240/1/50		380-415/3/50		
Heating A7W35	Capacity	W	8000	9500	12100	14000	15500
	Rated input	W	1524	1919	2444	2979	3444
	COP	/	5.25	4.95	4.95	4.70	4.50
Heating A7W55	Capacity	W	8000	9500	11900	13800	16000
	Rated input	W	2388	2969	3662	4381	5246
	COP	/	3.35	3.20	3.25	3.15	3.05
Heating A2W35	Capacity	W	7100	8200	9200	11000	13000
	Rated input	W	1732	2103	2300	2895	3714
	COP	/	4.10	3.90	4.00	3.80	3.50
Heating A2W55	Capacity	W	8000	9000	11500	12500	13800
	Rated input	W	2963	3529	4340	4808	5520
	COP	/	2.70	2.55	2.65	2.60	2.50
Heating A-7W35	Capacity	W	7000	8000	10000	12000	13100
	Rated input	W	2154	2540	3175	4286	4852
	COP	/	3.25	3.15	3.15	2.80	2.70
Heating A-7W55	Capacity	W	7500	8800	11000	12000	13000
	Rated input	W	3261	4000	4889	5581	6190
	COP	/	2.30	2.20	2.25	2.15	2.10
Cooling A35W18	Capacity	W	8300	10000	12000	14000	15000
	Rated input	W	1581	2174	2609	3182	3529
	EER	/	5.25	4.60	4.60	4.40	4.25
Cooling A35W7	Capacity	W	7450	8100	11500	12400	14000
	Rated input	W	2224	2613	3770	4133	5185
	EER	/	3.35	3.10	3.05	3.00	2.70
Seasonal space heating energy efficiency class	Leaving water temperature at 35 °C		A+++				
	Leaving water temperature at 55 °C		A+++				
SEER	LWT at 7 °C		5.61	5.53	4.99	4.97	4.98
	LWT at 18 °C		7.63	7.67	7.03	6.94	6.87
SCOP	Warmer climate	LWT at 35 °C	6.91	6.87	6.8	6.74	6.77
		LWT at 55 °C	4.86	4.85	4.89	4.87	4.86
	Average climate	LWT at 35 °C	5.35	5.33	4.94	4.76	4.72
		LWT at 55 °C	4.06	4.01	3.96	3.85	3.86
	Colder climate	LWT at 35 °C	4.6	4.53	4.53	4.45	4.31
		LWT at 55 °C	3.45	3.49	3.56	3.54	3.51
Erp Sound power level	dB	53	54	55	57	59	
Sound power level	Heating A7W35	dB	40	41	43	46	49
	Cooling A35W18	dB	39	41	42	43	44
Water flow range	m³/h	0.40 - 1.65	0.40 - 2.10	0.70 - 2.50	0.70 - 2.75	0.70 - 3.00	

Notes: The above data test reference standard EN14511; EN14825; EN50564;EN 12102; (EU) No:811

VIVAX AENA R290

Nominal capacity		kw	8	10	12	14	16
VIVAX R290 AENA Series			HPM-28CH84AENA R290-1	HPM-34CH100AENA R290-1	HPM-41CH120AENA R290-3	HPM-48CH140AENA R290-3	HPM-53CH155AENA R290-3
Compressor	Type		Twin rotary				
Outdoor fan	Motor type/ Number of fans		DC fan / 1				
Air-side heat exchanger			Finned tube heat exchanger				
Refrigerant	Type/Charged volume		R290/1100g		R290/1500g		
Unit dimensions (H×W×D)		mm	1051×1330×475				
Packing dimensions (H×W×D)		mm	1235×1390×570				
Net weight		kg	156		176		
Gross weight		kg	181		201		
Backup electric heater weight		kg	5				
Water-side heat exchanger			Plate heat exchanger				
Water-side Connection dimensions			G1 1/4" BSP				
Water pump	Max. pump head	m	9				
Safety valve		MPa	0.3				
Flow switch		m³/h	0.36		0.6		
Outdoor air temperature range	Cooling	°C	-5-46				
	Heating	°C	-25-35				
	DHW	°C	-25-46				
Water setting temperature range	Cooling	°C	5-25				
	Heating	°C	25-80				
	DHW	°C	20-70				

Notes: The above data test reference standard EN14511; EN14825; EN50564;EN 12102; (EU) No:811



VIVAX AEMA R290

Nominal capacity		kW	26	30	35
VIVAX R290 AEMA Series			HPM-89CH260AEMA R290-3	HPM-102CH300AEMA R290-3	HPM-120CH350AEMA R290-3
Power supply	V/Ph/Hz	380-415/3/50			
Heating A7W35	Capacity	W	26000	30000	35000
	Rated input	W	5450	6670	8400
	COP	/	4.77	4.50	4.17
Heating A7W55	Capacity	W	26000	30000	35000
	Rated input	W	7850	9570	11750
	COP	/	3.31	3.13	2.98
Heating A2W35	Capacity	W	23500	26800	30400
	Rated input	W	6350	7620	9520
	COP	/	3.70	3.52	3.19
Heating A2W55	Capacity	W	21950	25350	29600
	Rated input	W	8100	9650	12060
	COP	/	2.71	2.63	2.45
Heating A-7W35	Capacity	W	21000	24000	28200
	Rated input	W	6930	8380	11100
	COP	/	3.03	2.86	2.54
Heating A-7W55	Capacity	W	18800	21300	24800
	Rated input	W	8170	9600	11900
	COP	/	2.30	2.22	2.08
Cooling A35W18	Capacity	W	26000	30000	35000
	Rated input	W	5600	6800	8500
	EER	/	4.64	4.41	4.12
Cooling A35W7	Capacity	W	26000	30000	32000
	Rated input	W	8400	10700	11980
	EER	/	3.10	2.80	2.67
Seasonal space heating energy efficiency class	LWT (leaving water temperature)	35 °C	A+++		
		55 °C	A+++	A++	
SCOP	Warmer climate	35 °C	6.57	6.26	6.08
		55 °C	4.94	4.90	4.75
	Average climate	35 °C	4.95	4.92	4.48
		55 °C	3.84	3.79	3.63
	Colder climate	35 °C	3.95	3.91	3.85
		55 °C	3.23	3.14	3.03
SEER	LWT (leaving water temperature)	7 °C	5.21	4.99	4.82
		18 °C	7.17	6.8	6.43
Erp Sound power level	dB	69	74	75	
Sound power level	Heating A7W55	dB	54.8	61.3	61.7
	Cooling A35W18	dB	59.9	60.3	60.7
Water flow range	m³/h	1.2-5.4	1.2-6.2	1.2-7.2	

Notes: The above data test reference standard EN14511; EN14825; EN50564;EN 12102; (EU) No:811

VIVAX AEMA R290

Nominal capacity		kW	26	30	35
VIVAX R290 AEMA Series			HPM-89CH260AEMA R290-3	HPM-102CH300AEMA R290-3	HPM-120CH350AEMA R290-3
Compressor	Type	Scroll			
Outdoor fan	Motor type/Number of fans	DC fan / 2			
Air-side heat exchanger		Finned tube heat exchanger			
Refrigerant		R290 2900g			
Unit dimensions (W×H×D)		mm	1384×1816×523		
Packing dimensions (W×H×D)		mm	1480×2000×570		
Net weight		kg	260		
Gross weight		kg	285		
Water-side heat exchanger		Plate heat exchanger			
Water-side Connection method		Threaded connection			
Water side Connection dimension		mm	DN32		
Water pump	Max. pump head	m	12		
	Nominal volume	L	5		
Expansion vessel (primary circuit)	Charge pressure	Bar	8		
	Safety valve	Bar	3		
Flow switch		m³/h	0.87		
Outdoor air temperature range	Cooling	°C	-15~48		
	Heating	°C	-25~43		
	DHW	°C	-25~43		
Water setting temperature range	Cooling	°C	5~25		
	Heating	°C	25~85		
	DHW	°C	20~75		

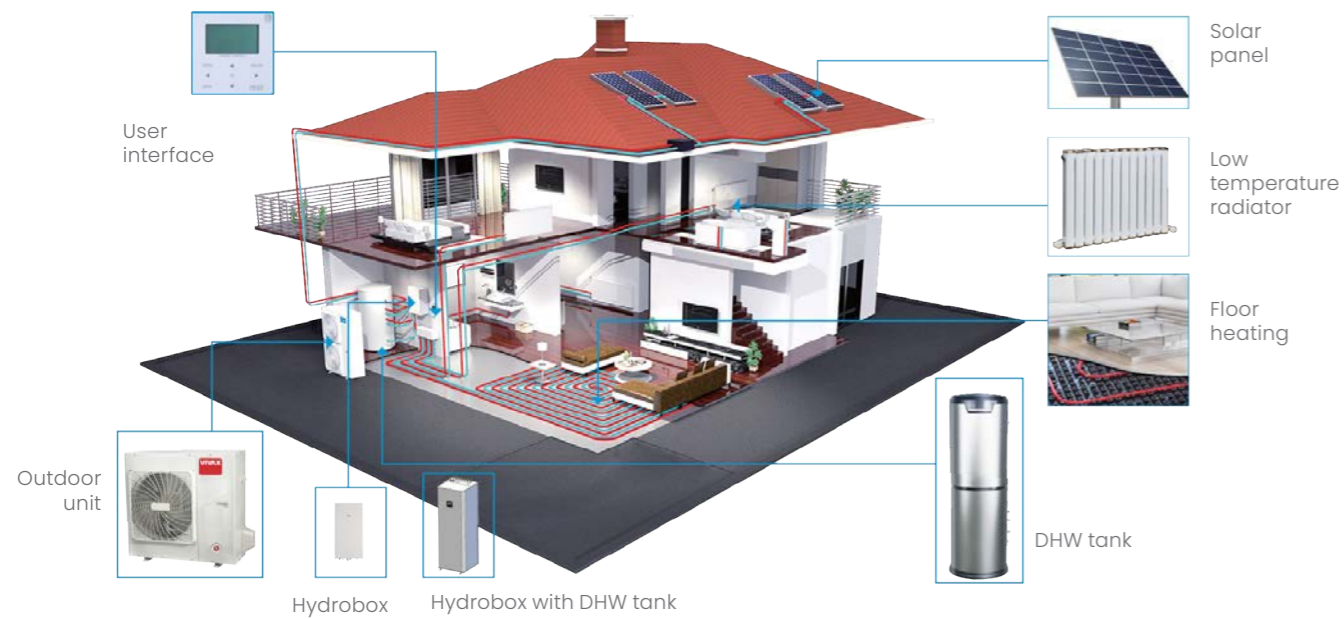
Notes: The above data test reference standard EN14511; EN14825; EN50564;EN 12102; (EU) No:811





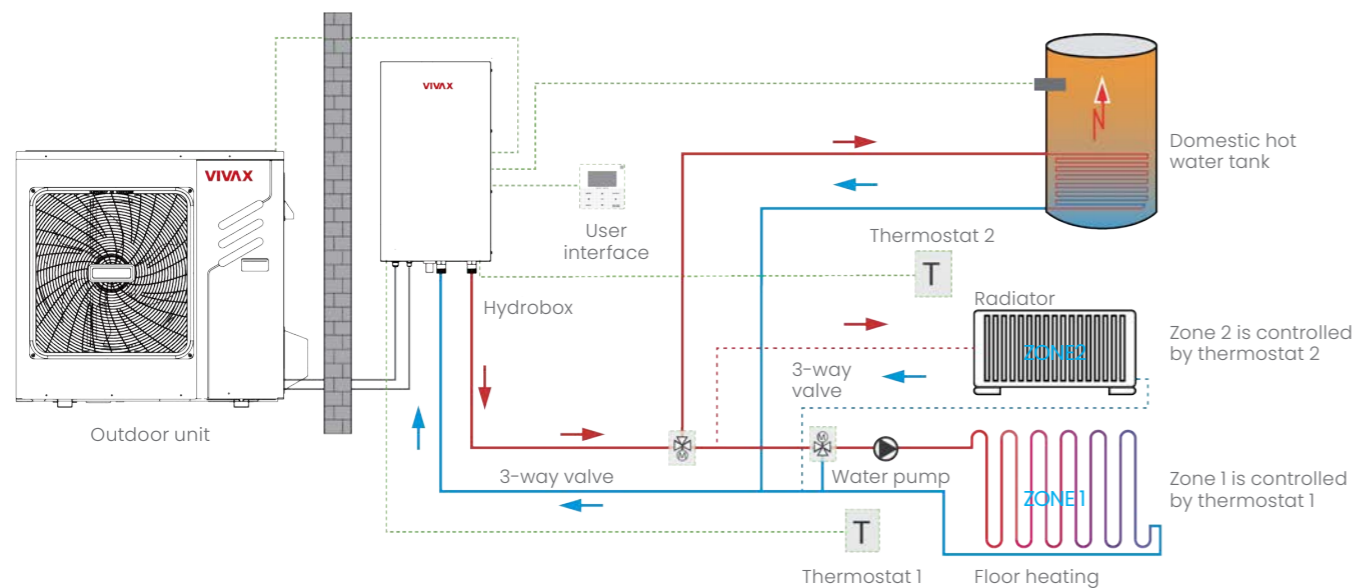
R32

Split system R32



Application	Heating + Cooling + Domestic hot water
Type	Split (outdoor unit + hydrobox)
Refrigerant piping	Between the outdoor unit and hydrobox
Water piping	Between the hydrobox and indoor heating appliances Under-floor heating loops Fan coil units
Combinational parts	Low temperature radiators Domestic hot water tank Auxiliary heat sources (such as water heaters and boilers)

Two zones controlled using user interface and thermostat.



SPLIT TYPE OUTDOOR UNIT

The outdoor unit absorbs heat from the outside air and transfers it inside through the refrigerant piping.

HYDROBOX

The hydrobox heats the water with refrigerant from the outdoor unit. The heated water circulates through heating apparatus such as floor heating, radiators, fan coil units as well as inner coil of domestic hot water tank.

DOMESTIC HOT WATER TANK

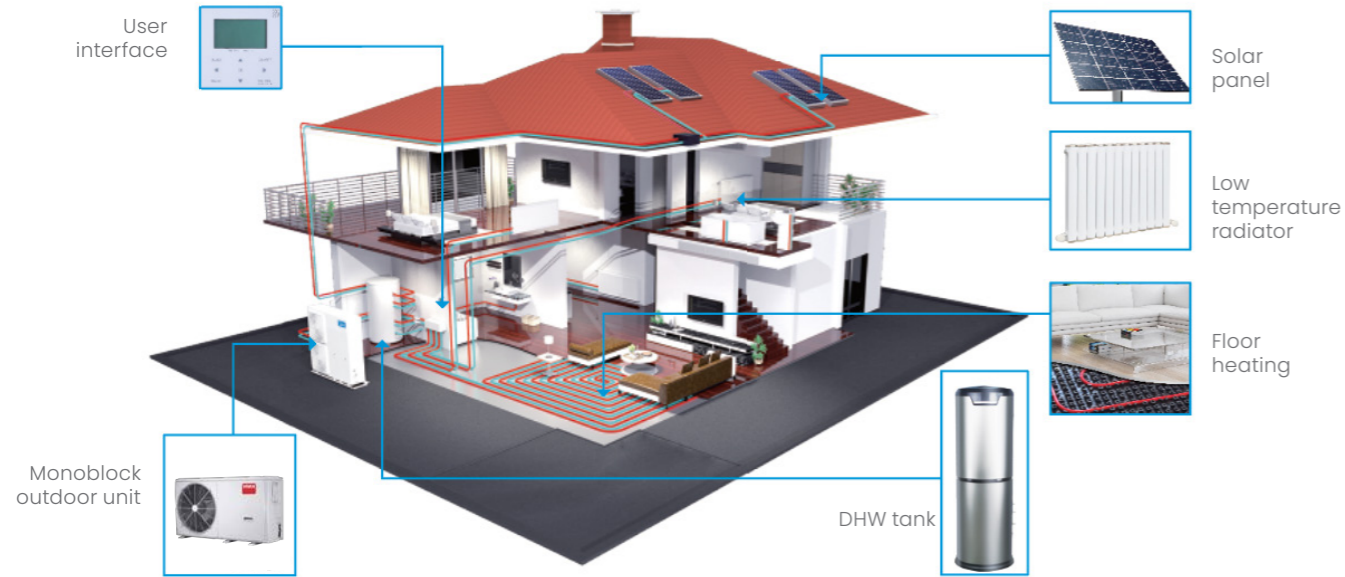
Hot water from the hydrobox is circulated through the domestic hot water tank heating water coil, heating the domestic hot water inside the tank. Immersion electric heaters could be installed in domestic hot water tanks as a backup.

USER INTERFACE

User interface is connected to the split unit through signal wire. Its main functions are ON / OFF, parameter setting, timer and service parameter setting.

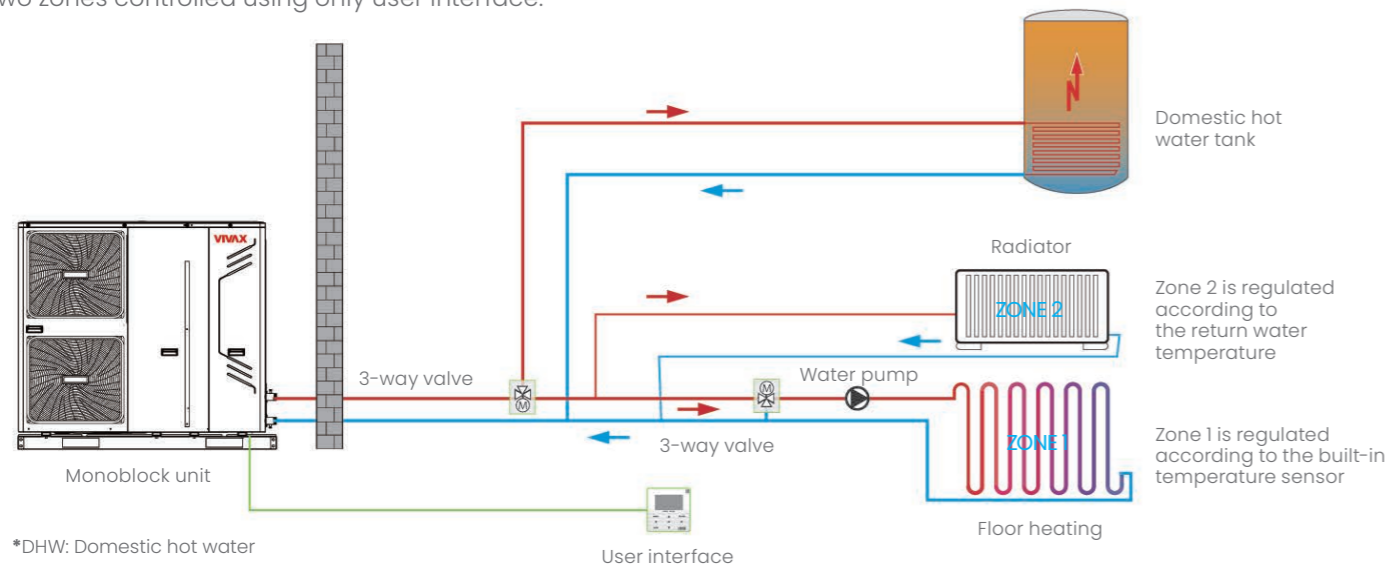


Monoblock system R32



Application	Heating + Cooling + Domestic hot water
Type	Integrated (Heat pump and hydronic box are in the same casing)
Refrigerant piping	Inside outdoor unit
Water piping	Between outdoor unit and indoor heating appliances Under-floor heating coils Fan coil units
Combinational parts	Low temperature radiators Domestic hot water tank Auxiliary heat sources (such as water heaters and boilers)

Two zones controlled using only user interface.



MONOBLOCK OUTDOOR UNIT

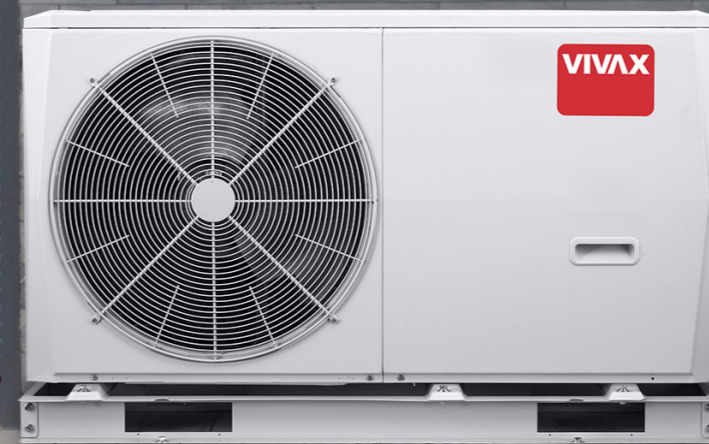
Monoblock outdoor unit absorbs heat from the outside air and transfers it to the water in the hydronic module, through water to supply heat to indoor side.

DOMESTIC HOT WATER TANK

Hot water from the monoblock unit is circulated through the domestic hot water tank's heating water coil, heating the domestic hot water inside the tank. Immersion heaters could be installed in domestic hot water tanks as a backup.

USER INTERFACE

User interface is connected to the monoblock unit through signal wire. Its main functions are ON/OFF, parameter setting, timer and service parameter setting.



Split systems R32

Outdoor units

Nominal capacity		kW	6	8	10	12	14	16
Outdoor unit model name			HPS-22CH65AERI /O1s R32	HPS-28CH84AERI /O1s R32	HPS-34CH100AERI /O1s R32	HPS-41CH120AERI /O3s R32	HPS-48CH140AERI /O3s R32	HPS-53CH155AERI /O3s R32
Heating A7W35	Capacity	kW	6.20	8.30	10.0	12.1	14.5	16.0
	Rated input	kW	1.24	1.60	2.00	2.44	3.09	3.56
	COP		5.00	5.20	5.00	4.95	4.70	4.50
Heating A7W55	Capacity	kW	6.00	7.50	9.50	12.0	13.8	16.0
	Rated input	kW	2.00	2.36	3.06	3.87	4.60	5.52
	COP		3.00	3.18	3.10	3.10	3.00	2.90
Heating A2W35	Capacity	kW	5.50	7.10	8.20	9.3	11.4	13.0
	Rated input	kW	1.39	1.73	2.02	2.35	3.12	3.71
	COP		3.95	4.10	4.05	3.95	3.65	3.50
Heating A2W55	Capacity	kW	5.65	7.10	8.10	11.40	11.80	13.40
	Rated input	kW	2.31	2.73	3.16	4.47	4.82	5.58
	COP		2.45	2.60	2.56	2.55	2.45	2.40
Heating A-7W35	Capacity	kW	6.10	7.10	8.25	10.00	12.00	13.30
	Rated input	kW	2.00	2.18	2.62	3.33	4.29	4.93
	COP		3.05	3.25	3.15	3.00	2.80	2.70
Heating A-7W55	Capacity	kW	5.15	6.15	6.85	10.00	11.00	12.50
	Rated input	kW	2.58	3.00	3.43	4.88	5.37	6.19
	COP		2.00	2.05	2.00	2.05	2.05	2.02
Cooling A35W18	Capacity	kW	6.55	8.40	10.00	12.00	13.50	14.90
	Rated input	kW	1.34	1.66	2.08	3.00	3.75	4.38
	EER		4.90	5.05	4.80	4.00	3.60	3.40
Cooling A35W7	Capacity	kW	7.00	7.40	8.20	11.6	12.7	14.0
	Rated input	kW	2.33	2.19	2.48	4.22	4.98	5.71
	EER		3.00	3.38	3.30	2.75	2.55	2.45
Seasonal space heating energy efficiency class ⁶	Water outlet at 35°C		A+++					
	Water outlet at 55°C		A++					
SCOP	Water outlet at 35°C		4.95	5.21	5.19	4.81	4.72	4.62
	Water outlet at 55°C		3.52	3.36	3.49	3.45	3.47	3.41
SEER	Water outlet at 7°C		5.34	5.83	5.98	4.86	4.83	4.67
	Water outlet at 18°C		8.21	8.95	8.78	7.04	6.85	6.71



Split systems R32

Outdoor units

Nominal capacity		kW	6	8	10	12	14	16	
Outdoor unit model name			HPS-22CH65AERI /O1s R32	HPS-28CH84AERI /O1s R32	HPS-34CH100AERI /O1s R32	HPS-41CH120AERI /O3s R32	HPS-48CH140AERI /O3s R32	HPS-53CH155AERI /O3s R32	
Power supply		V/Ph/Hz	220-240/1/50			380-415/3/50			
MOP		A	18	19	19	14	14	14	
MCA		A	14	16	17	10	11	12	
Compressor	Type	Twin rotary							
	Poles	6							
	Speed range	rps	10-120						
	Capacity (60rps)	W	5450	7100			14000		
	Input (60rps)	W	1735	2230			4380		
	Max. heating frequency	Hz	96	86	96	78	86	92	
	Max. cooling frequency	Hz	84	72	78	70	76	80	
Outdoor fan	Motor type	DC fan							
	Number of fans	1							
	Air flow	m ³ /h	2770	4030			4060	4650	
Air side heat exchanger	Number of rows	2		2		3			
	Number of circuits	7		8		12			
Refrigerant	Type (GWP)	R32(675)							
	Charged volume	kg	1.5	1.65			1.84		
Throttle type		Electronic expansion valve							
Sound power level	Heating A7W35	dB	57	59	60	64	64	67	
	Cooling A35W18	dB	58	60	60	64	64	67	
Unit dimension (W×H×D)		mm	1007×712×426			1120×864×523			
Packing dimension (W×H×D)		mm	1065×800×485			1180×890×560			
Net/Gross weight		kg	57/62		77/82		126/132		
Pipe size O.D.	Liquid	mm	6.35			9.52			
	Gas	mm	15.88			15.88			
Connection method		Flared							
Between indoor and outdoor unit	Height difference	m	Max. 20						
	Pipe length	m	2-30						
Additional refrigerant	Chargment	g/m	20		38				
	Min. pipe length	m	15						
Outdoor air temperature range	Cooling	°C	-5-43						
	Heating	°C	-25-35						
	DHW	°C	-25-43						
Notes The above data test reference standard EN14511:2013; EN14825:2013; EN50564:2011; 12102:2011; (EU) No:811:2013; (EU)No:813:2013; OJ 2014/C 207/02:2014									

Split systems R32

Hydrobox

Compatible Outdoor Unit		kW		6		8		10		12		14		16	
Indoor unit model name		HPS-42HM65AERI/IIs		HPS-84HM100AERI/IIs		HPS-120HM155AERI/IIs									
Indoor unit model name with backup heater of 3 kW		HPS-42HM65AERI/IIH3s		HPS-84HM100AERI/IIH3s		/									
Indoor unit model name with backup heater of 9 kW		/		HPS-84HM100AERI/IIH9s		HPS-120HM155AERI/IIH9s									
Unit dimension (W×H×D)		mm		420×790×270											
Packing dimension (W×H×D)		mm		520×1050×360											
Net/Gross weight		kg		41/47		43/49									
Water side heat exchanger				Plate type											
Water pump		Max. pump head		m		9									
Expansion vessel (Primary circuit)		Volume		L		8									
		Charge pressure		MPa		0,3									
Connection		Water side		mm		R1"									
		Refrigerant liquid		mm		6.35		9.52		9.52					
		Refrigerant gas		mm		15.88		15.88		15.88					
Safety valve		MPa		0.3											
Flow switch		m³/h		0.36		0.6									
Backup E-heater		Standard mounted		kW		/									
		Optional		kW		3		3/9		9					
		Capacity steps				1									
Power supply		3kW		V/Ph/Hz		220-240/1/50									
		6/9kW				380-415/3/50									
Room temperature range		°C		5-35											
Water outlet temperature range		Cooling		°C		5-30									
		Heating		°C		12-65									
		DHW (tank)		°C		10-60									
Nominal return water temperature range		Cooling mode		°C		6-35									
		heating mode (DHW)		°C		12-59									
Sound power level		dB		38		42		42		43		43		43	
The above data test reference standard EN14511:2013; EN14825:2013; EN50564:2011; 12102:2011; (EU) No:811:2013; (EU)No:813:2013; OJ 2014/C 207/02:2014															



Split systems R32

Hydrobox with integrated tank

Compatible Outdoor Unit		kW		6		8		10		6		8		10		12		14		16	
Indoor unit model name with backup heater of 3 kW		HPS-42HM65AERI/II19H3s		HPS-84HM100AERI/IT24IH3s		HPS-120HM155AERI/IT24IH3s															
Indoor unit model name with backup heater of 9 kW		HPS-42HM100AERI/I3T19H9		HPS-42HM100AERI/I3T24H9		HPS-120HM155AERI/I3T24H9															
Power supply		V/Ph/Hz		220-240/1/50 or 380-415/3/50																	
Rated input		W		3095		3095		3095													
Rated current		A		13.5		13.5		13.5													
DHW Tank		Type		Stainless steel																	
		Material		SUS 316L																	
		Water Volume		L		190		240		240											
		Maximum water temperature (Disinfection mode)		°C		70															
		Maximum water pressure limit		Bar		10															
		Insulation material		Polyurethane (Cyclopentane)																	
		Insulation thickness		45																	
Heat Exchanger		Plate heat exchanger																			
Backup E-heater		Standard mounted		kW		3 or 9															
		Capacity steps				1															
Water Pump		Type		DC inverter																	
		Max. Head		m		9															
Expansion vessel		Volume		L		8															
Water Piping connection		Water circuit		Inlet		R1"		R1"		R1"											
				Outlet																	
		DHW tank water circuit		Cold Inlet		R3/4"		R3/4"		R3/4"											
				Hot Outlet																	
Recirculation																					
Unit dimension (W×H×D)		mm		600x600x1943		600x600x1943		600x600x1943													
Packing dimension (W×H×D)		mm		730x730x1920		730x730x2180		730x730x2180													
Net/Gross weight		kg		140/161		157/178		159/180													
Ambient temperature range		°C		5-35		5-35		5-35													
LWT setting range		Heating		°C		25-65		25-65		25-65											
		Cooling		°C		5-25		5-25		5-25											
		Domestic hot water		°C																	
Indoor unit sound Power Level(3)		dB		38		40		38		40		42		44		44					
Notes: (1)According to EN16147/2017;EU No:811/2013 (2)According to EN14511/2018; EN14825/2018; EU No:811/2013 (3)Sound power in heating mode, measured according to the EN 12102 under conditions of the EN 14825																					



Monoblock units R32

Nominal capacity		kW	6	8	10	12	14	16
Outdoor unit model name			HPM-22CH65 AERis R32-1	HPM-28CH84 AERis R32-1	HPM-34CH100 AERis R32-1	HPM-41CH120 AERis R32-3	HPM-48CH140 AERis R32-3	HPM-53CH155 AERis R32-3
Heating A7W35	Capacity	kW	6.35	8.40	10.0	12.1	14.5	15.9
	Rated input	kW	1.28	1.63	2.02	2.44	3.15	3.53
	COP		4.95	5.15	4.95	4.95	4.60	4.50
Heating A7W55	Capacity	kW	6.00	7.50	9.50	11.9	13.8	16.0
	Rated input	kW	2.03	2.36	3.06	3.90	4.68	5.61
	COP		2.95	3.18	3.10	3.05	2.95	2.85
Heating A2W35	Capacity	kW	5.50	7.10	8.20	9.2	11.0	13.0
	Rated input	kW	1.41	1.73	2.05	2.36	3.06	3.77
	COP		3.90	4.10	4.00	3.90	3.60	3.45
Heating A2W55	Capacity	kW	5.65	7.10	8.10	11.30	12.40	13.30
	Rated input	kW	2.31	2.73	3.16	4.52	5.06	5.54
	COP		2.45	2.60	2.56	2.50	2.45	2.40
Heating A-7W35	Capacity	kW	6.00	7.00	8.00	10.00	12.00	13.10
	Rated input	kW	2.00	2.19	2.62	3.33	4.21	4.85
	COP		3.00	3.20	3.05	3.00	2.85	2.70
Heating A-7W55	Capacity	kW	5.15	6.15	6.85	9.80	11.00	12.50
	Rated input	kW	2.58	3.00	3.43	4.78	5.37	6.25
	COP		2.00	2.05	2.00	2.05	2.05	2.00
Cooling A35W18	Capacity	kW	6.50	8.30	9.90	12.00	13.50	14.90
	Rated input	kW	1.35	1.64	2.18	3.04	3.75	4.38
	EER		4.80	5.05	4.55	3.95	3.60	3.40
Cooling A35W7	Capacity	kW	7.00	7.45	8.20	11.5	12.4	14.0
	Rated input	kW	2.33	2.22	2.52	4.18	4.96	5.60
	EER		3.00	3.35	3.25	2.75	2.50	2.50
Seasonal space heating energy efficiency class	Water outlet at 35 °C		A+++					
	Water outlet at 55 °C		A++					
SCOP	Water outlet at 35 °C		4.95	5.21	5.19	4.81	4.72	4.62
	Water outlet at 55 °C		3.52	3.36	3.49	3.45	3.47	3.41
SEER	Water outlet at 7 °C		5.34	5.83	5.98	4.86	4.83	4.67
	Water outlet at 18 °C		8.21	8.95	8.78	7.04	6.85	6.71

Notes:
The above data test reference standard EN14511:2013; EN14825:2013; EN50564:2011; 12102:2011; (EU) No:811:2013; (EU)No:813:2013; OJ 2014/C 207/02:2014



Monoblock units R32

Nominal capacity		kW	6	8	10	12	14	16	
Outdoor unit model name			HPM-22CH65 AERis R32-1	HPM-28CH84 AERis R32-1	HPM-34CH100 AERis R32-1	HPM-41CH120 AERis R32-3	HPM-48CH140 AERis R32-3	HPM-53CH155 AERis R32-3	
Power supply		V/Ph/Hz	220-240/1/50			380-415/3/50			
MOP		A	18	19	19	14	14	14	
MCA		A	14	16	17	10	11	12	
Compressor	Type	Twin rotary							
	Poles	6							
	Speed range	rps	10-120						
	Capacity (60rps)	W	5450	7100		14000			
	Input (60rps)	W	1735	2230		4380			
	Max. heating frequency	Hz	96	86	96	78	86	92	
Outdoor fan	Max. cooling frequency	Hz	84	72	78	70	76	80	
	Motor type	Dc fan							
Air side heat exchanger	Number of fans	1							
	Air flow	m³/h	2770	4030		4060		4650	
	Number of rows		2	2		3			
Refrigerant	Number of circuits		7	8		12			
	Type (GWP)	R32 (675)							
Throttle type	Charged volume	kg	1.4			1.75			
		Electronic expansion valve							
Sound power level	Heating max	dB	61	61	62	65	65	69	
	Cooling max	dB	61	61	62	65	65	69	
Unit dimension (W×H×D)		mm	1295×792×429		1385×945×526				
Packing dimension (W×H×D)		mm	1375×945×475		1465×1120×560				
Net/Gross weight		kg	98/121	121/148		160/188			
Connection method		Flared							
Outdoor air temperature range	Cooling	°C	-5~43						
	Heating	°C	-25~35						
	DHW	°C	-25~43						
Water side heat exchanger		Plate type							
Water pump	Max. pump head	m	9						
Expansion vessel (Primary circuit)	Volume	L	8						
	Charge pressure	MPa	0.3						
Water side connection		mm	R1"	R5/4"					
Safety valve		MPa	0,3						
Flow switch		m³/h	0.36			0.6			
Total water volume		L	5						
Water outlet temperature range	Cooling	°C	5~30						
	Heating	°C	12~65						
	DHW (tank)	°C	10~60						
Nominal return water temperature range	Cooling mode	°C	6~35						
	Heating mode (DHW)	°C	12~59						

Notes:
The above data test reference standard EN14511:2013; EN14825:2013; EN50564:2011; 12102:2011; (EU) No:811:2013; (EU)No:813:2013; OJ 2014/C 207/02:2014



FLEXIBLE APPLICATION

Adapt to all application scenarios:

- PV Only;
- PV and energy storage;
- Existing PV system, expanding PV and energy storage.

CONTINUOUS OPERATION WITHOUT POWER OUTAGE

Supports 100% three-phase unbalanced output, which can maintain the normal operation of most household appliances in case of power grid outage.

INTEGRATED CONNECTION

Reserve a heat pump control interface to improve the PV selfconsumption rate by providing free PV electricity for hot water during the day.

REMOTE CONTROL

APP and WEB Monitoring for visualizing energy generation and consumption, user and installer friendly.

ESS Energy Storage System

UP TO 40 kW

The VIVAX ESS system is based on a modular design, consisting of an inverter, a power module and 5 kW batteries. One inverter allows connecting a maximum of two power modules and batteries with a total power of up to 40 kW.

HOW IT WORKS?



BATTERY CHARGING WITH SOLAR POWER

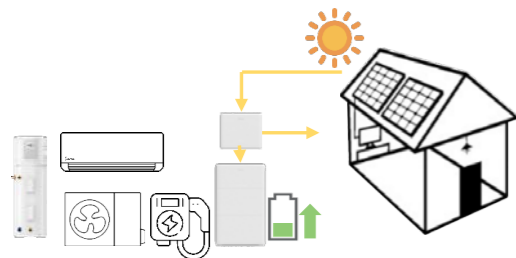
HEATING/COOLING WITH SOLAR POWER

USING DHW AND BATTERY POWER

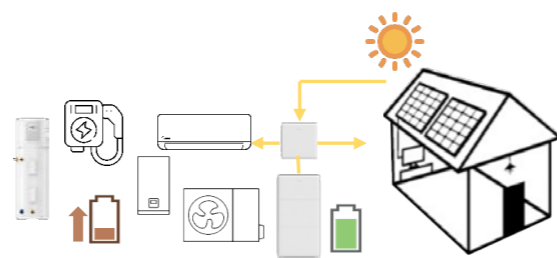
SUPPLIES YOUR HOME WITH BATTERY POWER



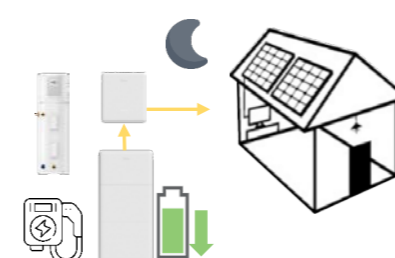
SUNRISE
AM 7:00



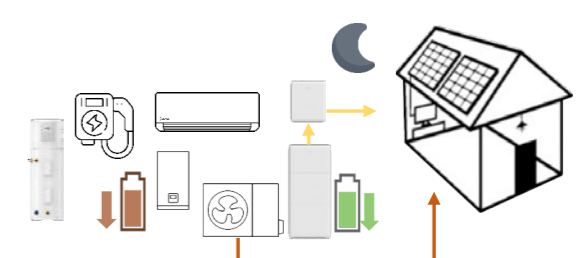
DAYTIME
PM 12:00

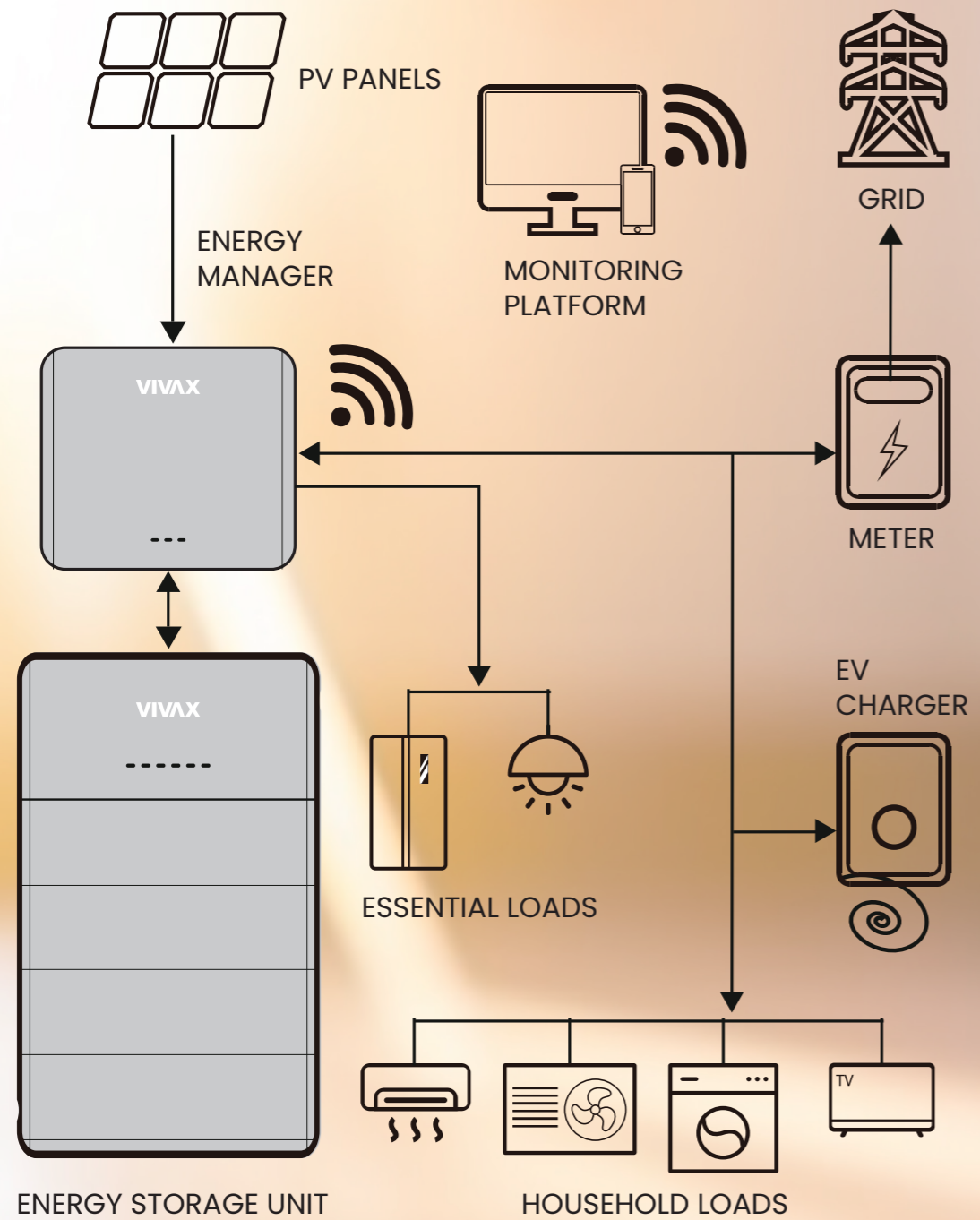


SUNSET
PM 17:30



NIGHT
PM 21:00





ESS

Energy Storage System

Inverter model		EMS-EM-3P-10K01
Input (PV)	Recommended max. PV power (Wp)	15000
	Max. input voltage (Vdc)	1000
	MPPT operating voltage range (Vdc)	160-800
	Start-up voltage(Vdc)	200
	Nominal input voltage(Vdc)	600
	Max. input current per MPPT(A)	14
	Max. short-circuit current (A)	16
	Number of MPP trackers	2
Max. input number per MPP tracker	1	
Input (Battery)	Battery Type	Li-ion
	Operating voltage range (Vdc)	600-980
	Max operating current (A)	16,7
	Max charge power (W)	10000
Output (AC Grid)	Max discharge power (W)	10000
	Grid connection	Three phase
	Nominal output power (W)	10000
	Max. apparent power (VA)	11000
	Nominal output voltage (Vac)	220/380, 230/400, 3/N/PE
	Nominal AC grid frequency (Hz)	50/60
	Nominal output current (A)	14,5
	Max. output current (A)	16
	Adjustable power factor	0.8 leading-0.8 lagging
	Max. total harmonic distortion	≤ 3 %
Output (AC backup)	Maximum apparent AC power (VA)	10000
	Output voltage (Vac)	220/380, 230/400, 3/N/PE
	Max. output current (A)	14,5
	Switching to backup mode	<3s
Efficiency	Max. Efficiency (%)	97,6
Protections & Features	Input-side disconnection device; Anti-islanding protection; DC reverse polarity protection; Insulation monitoring; Residual current monitoring; AC overcurrent protection; AC short-circuit protection; AC overvoltage protection; LVRT; Energy Management; Black start; Back-up power	Yes
General Data	Operating temperature range (°C)	- 25-+60
	Relative operating humidity (%RH)	0-100
	Max. operating altitude (m)	2000
	Cooling	Natural convection
	Display	LED indicators; integNominal WLAN + APP
	Communication	RS485, WLAN
	Net Weight (kg)	33,6
	Gross Weight (kg)	40,4
	Body Dimension (L×W×H)(mm)	521×247×516
	Package Dimension (L×W×H)(mm)	750×640×320
Degree of protection	IP65	
Standard Compliance	EMC	EN 61000-6-1,EN 61000-6-3,EN 62920
	Safety	IEC62109-1, IEC62109-2
	Grid	EN 50549-1, VDE-AR-N 4105

Power Module model	EMS-PM-LV-5K01
Rated charge and discharge power (W)	5kW
Nominal voltage (Vdc)	600V
Operating voltage range(three phase system) (Vdc)	600-980V
Power module Net dimension (L×W×H) (mm)	690×168×407
Power module Package dimension (L×W×H) (mm)	750×640×320
Power module Net weight (kg)	25,2
Power module Gross weight (kg)	38
Ingress Protection	IP65

Energy Storage Module Model	EMS-BM-LV-5K01
Nominal Voltage (V)	51,2
Voltage Range (V)	45-57,6
Max. Continuous Current (A)	50
Battery usable energy l (kWh)	5,12
Energy storage module net dimension (L*W*H) (mm)	690*165*408
Energy storage module package dimension (L*W*H) (mm)	785*535*285
Energy storage module Net weight (kg)	52
Power module Gross weight (kg)	58
Ingress Protection	IP66
Cell technology	Lithium-iron phosphate (LiFePO4)
Certificates	IEC 62477, EN 61000-6-1, EN 61000-6-3, IEC62619, UN38.3,IEC 62040-1, VDE2510-50



Smart

Simple

Safe

VIVAX

Simply good.

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