

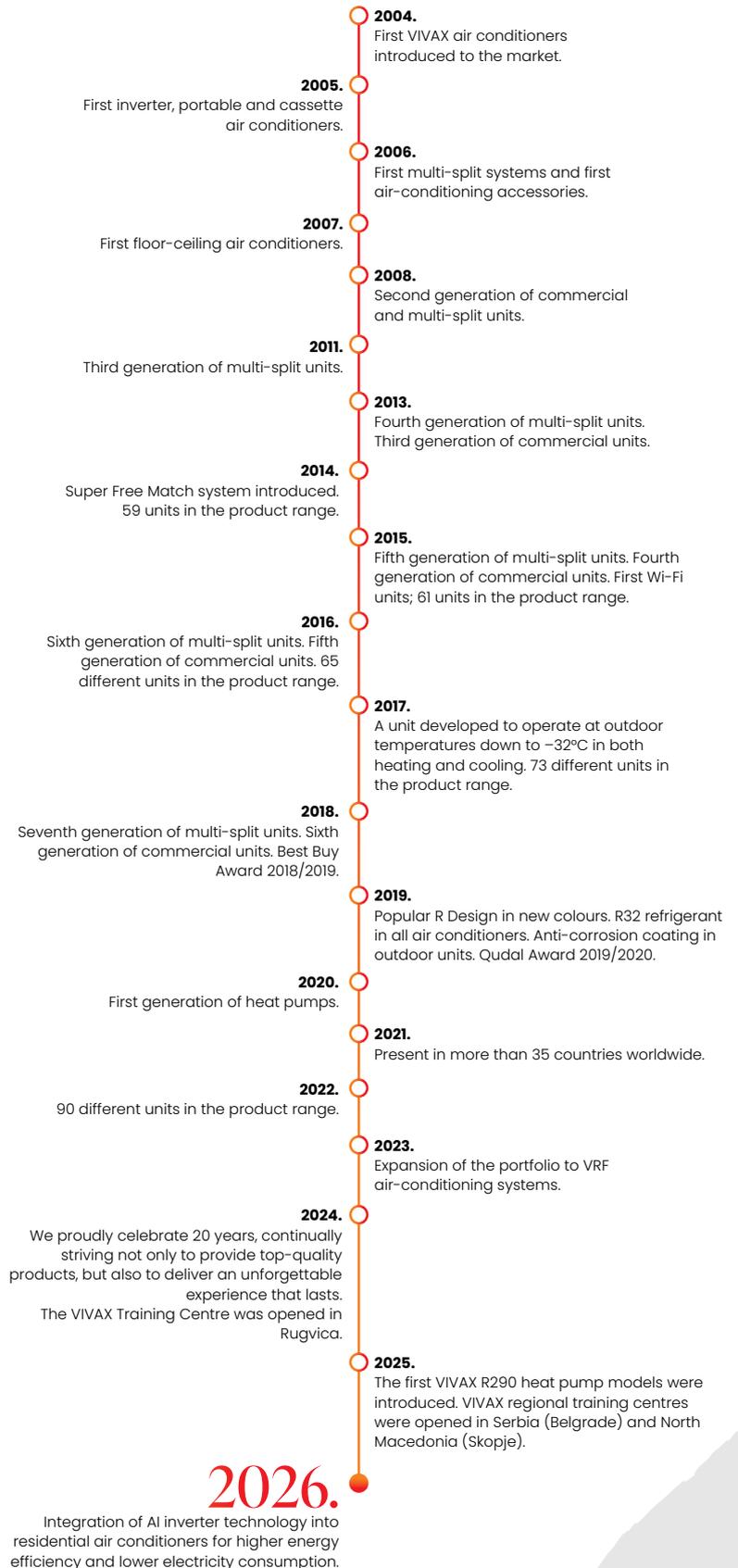


Heat pumps and ESS catalogue  
*2026*

**VIVAX**

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## VIVAX distribution network with 10 European offices

VIVAX operates through 10 of its own offices in key European countries, building a stable and reliable business network. Such a presence enables strong connections with local markets, efficient business management and consistent quality of the VIVAX brand across Europe.

## Works best with *life*

From the first models to advanced air conditioning systems, VIVAX air conditioners have been creating the perfect temperature for more than two decades. Continuous development, reliability in all conditions and smart technology are built into each device. The result is comfort that can be felt, every day in every space.

## 5 YEAR FACTORY WARRANTY

The warranty for VIVAX heat pumps is 60 months with mandatory annual maintenance 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](http://vivax.com).

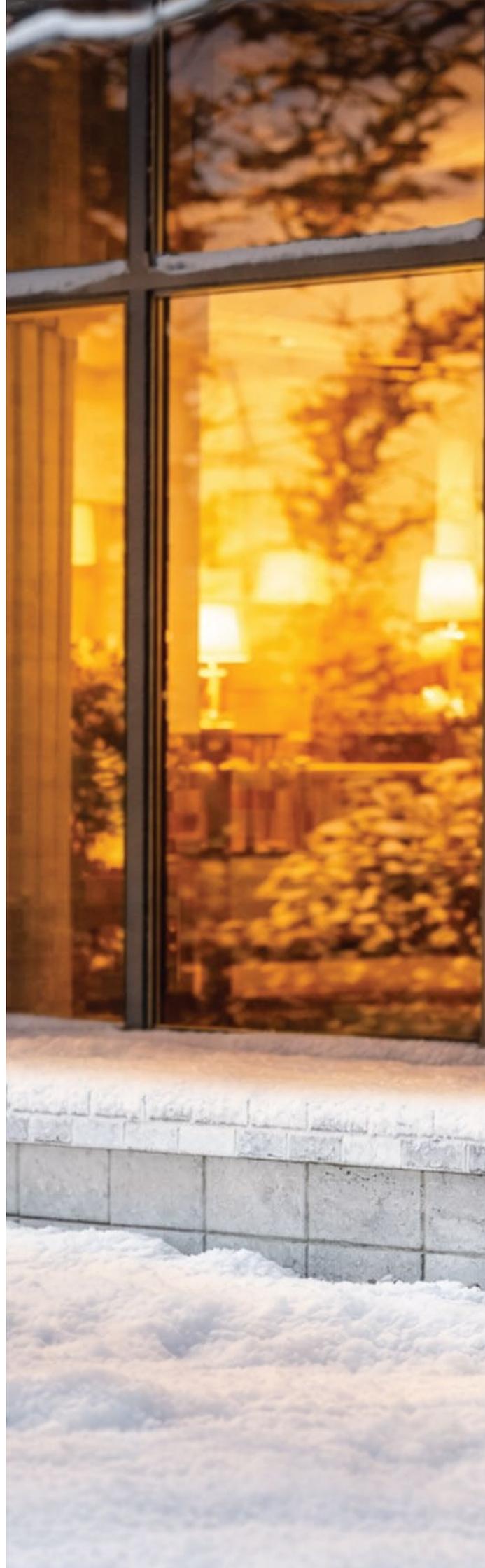
## Present in more than 35 countries

For 22 years, users in over 35 markets have trusted VIVAX air conditioners.

Top quality and timeless design have found their way into numerous homes, which, thanks to VIVAX air conditioners and regardless of the season, are always at the optimal temperature.

# Heat pumps

Complete solution for heating, cooling and domestic hot water





# Product overview

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.

## WHY HEAT PUMPS?

Heat pumps extract thermal energy from the environment (air, ground, or water) and, with minimal electricity consumption, efficiently provide heat for space heating and the preparation of domestic hot water.

## 5 YEAR FACTORY WARRANTY

The warranty for VIVAX heat pumps is 60 months with mandatory annual maintenance 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](http://vivax.com).

## LONG-TERM COST-EFFECTIVENESS AND VERSATILITY

Heat pumps are characterised by high energy efficiency and a long service life, resulting in low operating costs throughout the entire lifecycle of the unit and significant energy savings compared to conventional heating systems. In addition, their adaptability to different energy sources (air, ground, water) and heat distribution systems (underfloor heating, radiators, fan coil units) makes them suitable for any residential or commercial application. The possibility of installation on existing systems and combination with other heat sources (solar, gas, etc.) further enhances the versatility of heat pump applications.



**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**



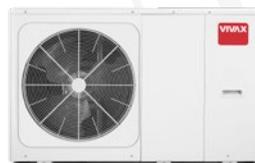
	Outdoor unit		Outdoor unit				
Capacity (kW)	6,0	8,0	10,0	12,0	14,0	16,0	
220 ~ 240 - 1 Ph	•	•	•				
380 ~ 415 - 3 Ph				•	•	•	

**Split system R32**



	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				•	•	•



R290

# Investing in a sustainable green future

Long-term solution is our mission



**GWP**  
**3** Lower global warming impact

**ODP**  
**0** Neutral impact on the ozone layer

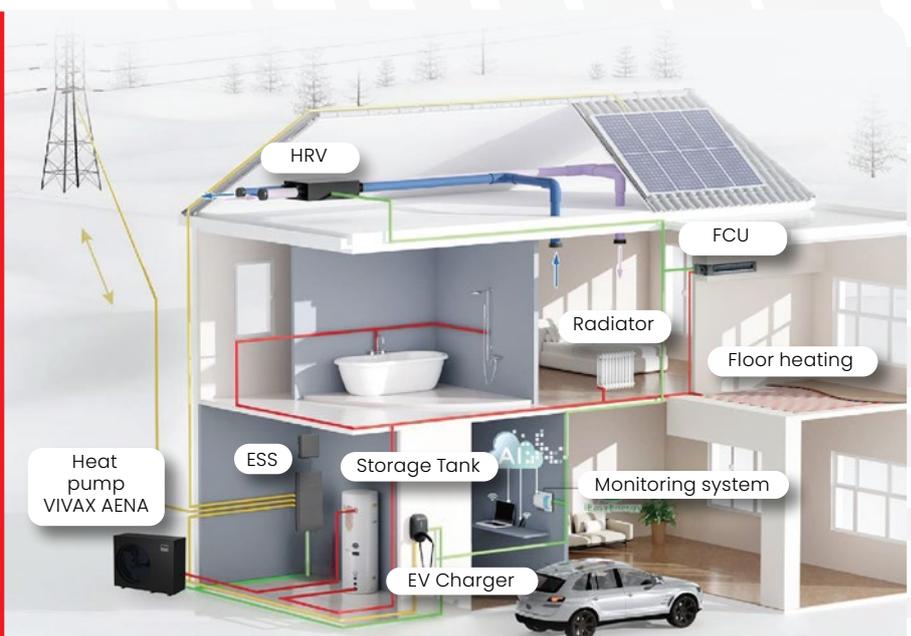
## Natural refrigerant R290

- Low GWP level in line with EU carbon neutrality policy
- Delivers outstanding performance in low-temperature environments, enabled by its thermodynamic properties.
- A modern solution that enables high efficiency while preserving the environment



## Comprehensive and flexible system monitoring in combination with photovoltaic panels and ESS system

- Central WiFi management
- Monitoring and analysis of energy consumption at all times
- Optimization of the household energy network according to user habits



# AENA Series

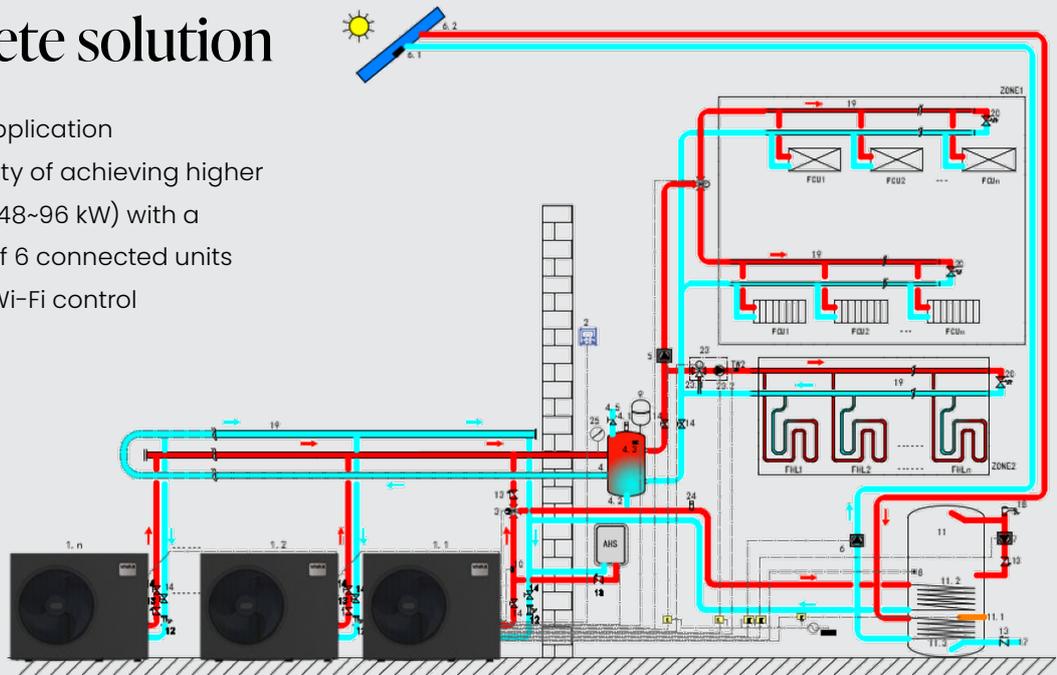
- Maximum water outlet temperature: 80 °C
- Operating range in heating from -25°C to 35°C outdoor air temperature
- Equipped with a backup heater that ensures proper system operation under all conditions.

Heat pump   -10 to 15°C  80°C

Heat pump + Backup heater   -25 to 35°C  80°C

## Complete solution

- Two-zone application
- The possibility of achieving higher capacities (48-96 kW) with a maximum of 6 connected units
- Integrated Wi-Fi control



## DC Inverter technology



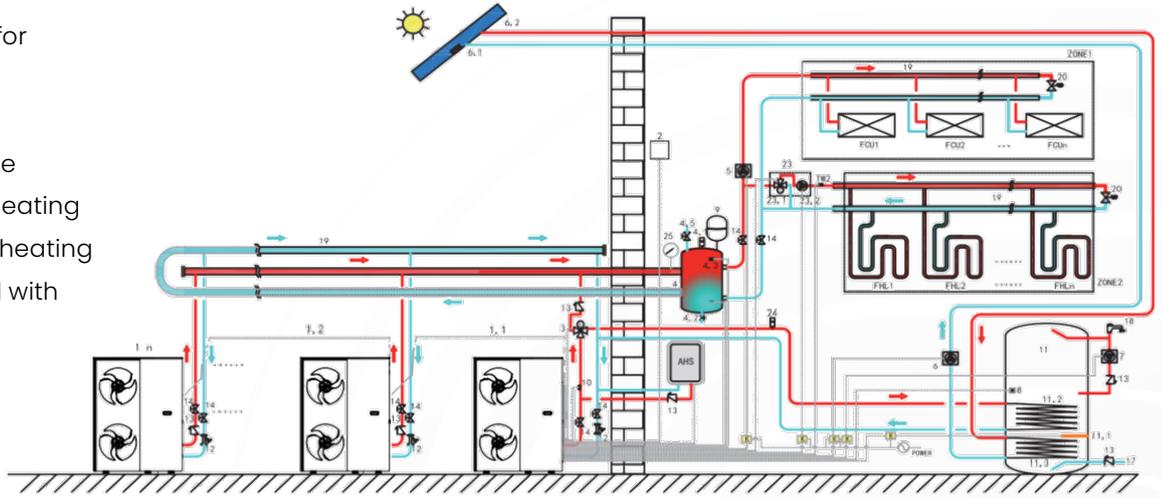
- Low power consumption
- BLDC fan motor
- Quiet operation

- High efficiency
- IPX4D protection level

- High efficiency
- Wide operating frequency range
- Compact design

# AEMA Series

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



## Main characteristics

- 100% capacity at -10°C outdoor air temperature
- Maximum water outlet temperature: 85 °C
- Maximum DHW temperature 75°C

HIGH EFFICIENCY

NATURAL REFRIGERANT

RELIABILITY

HIGH WATER TEMPERATURE

WI-FI CONTROL

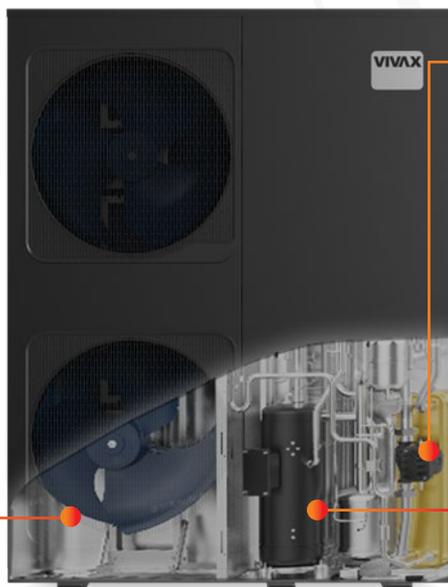
NEW STRUCTURE & APPEARANCE

VIVAX

## DC Inverter technology

### INVERTER FAN AND COMPRESSOR

- Precise temperature control (0.1 °C)
- Adaptable and efficient operation through the whole operating range



### DC INVERTER WATER PUMP

- Reduces electricity consumption for pump operation by up to 70%
- Enables optimal temperature difference between water flow and return
- Enables optimal ratio of energy efficiency and thermal comfort

### R290 EVI SCROLL COMPRESSOR

- Provides a water outlet temperature of 85 °C.
- 20% higher heating efficiency at low outdoor temperatures

# 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	Leaving water temperature at 7 °C		5,61	5,53	4,99	4,97	4,98
	Leaving water temperature at 18 °C		7,63	7,67	7,03	6,94	6,87
SCOP	Warmer climate	LWT 35 °C	6,91	6,87	6,8	6,74	6,77
		LWT 55 °C	4,86	4,85	4,89	4,87	4,86
	Average climate	LWT 35 °C	5,35	5,33	4,94	4,76	4,72
		LWT 55 °C	4,06	4,01	3,96	3,85	3,86
	Colder climate	LWT 35 °C	4,6	4,53	4,53	4,45	4,31
		LWT 55 °C	3,45	3,49	3,56	3,54	3,51
Erp Sound power level	dB(A)	53	54	55	57	59	
Sound pressure level (1m)	Heating A7W35	dB(A)	40	41	43	46	49
	Cooling A35W18	dB(A)	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	

# 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 / 1					
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		
Water-side heat exchanger	Plate heat exchanger						
Water-side Connection dimensions	G1 1/4" BSP						
Water pump	Max. pump head	m	9				
Safety valve	bar	3					
Flow switch	m <sup>3</sup> /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



# 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	LWT (leaving water)	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)	7 °C	5,21	4,99	4,82
		18 °C	7,17	6,8	6,43
Erp Sound power level		dB(A)	69	74	75
Sound pressure level (1m)	Heating A7W55	dB(A)	54,8	61,3	61,7
	Cooling A35W18	dB(A)	59,9	60,3	60,7
Water flow range		m³/h	1,2-5,4	1,2-6,2	1,2-7,2

# 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 / 2		
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		
Expansion vessel (primary circuit)	Nominal volume	L	5		
	Charge pressure	bar	8		
Safety valve		bar	3		
Flow switch		m <sup>3</sup> /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 EN 14511; EN 14825; EN 12102 ; (EU) No 811/2013, 813/2013

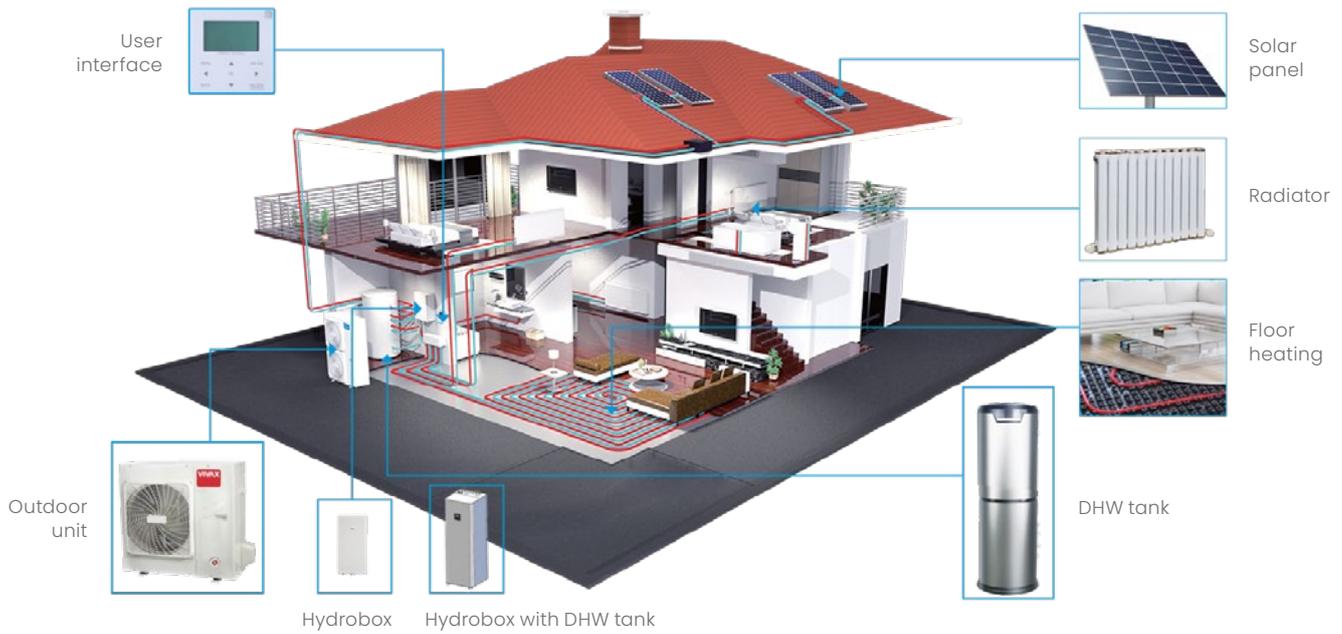


R32



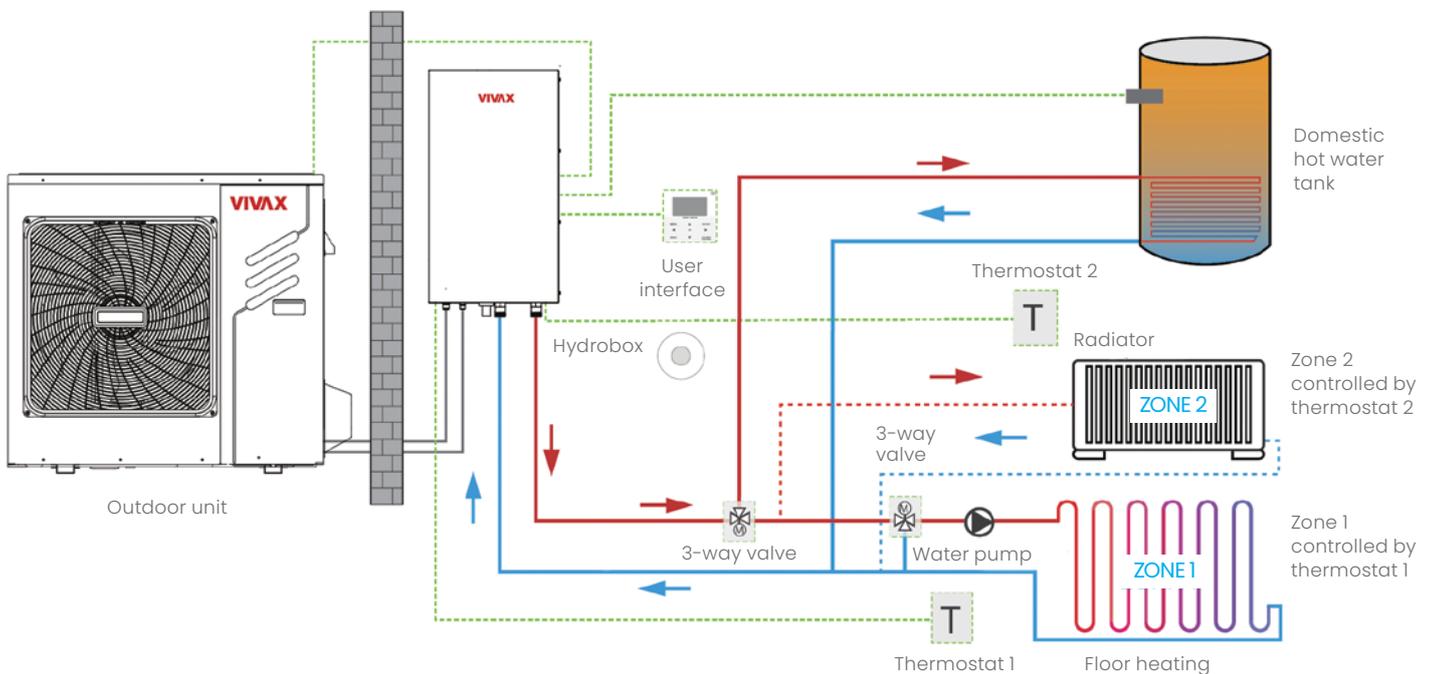


# Split system R32



Application	Heating + Cooling + Domestic hot water
Type	Split system (outdoor unit + hydrobox)
Refrigerant piping	Between the outdoor unit and the hydrobox
Water piping	Between the hydrobox and the radiators
Combinational parts	Underfloor Heating Fan Coils 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 outdoor air and transfers it inside through the refrigerant piping.

## HYDROBOX

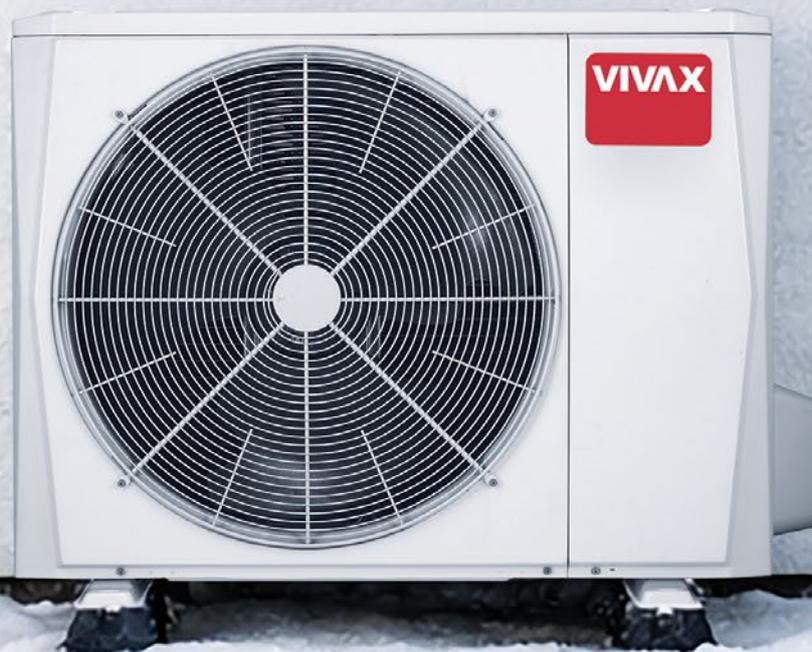
In the hydrobox water is heated by refrigerant from outdoor unit, which is then circulated through the central heating system such as underfloor heating, fan coils, radiators, and the heat exchanger in the domestic hot water tank.

## DOMESTIC HOT WATER PREPARATION

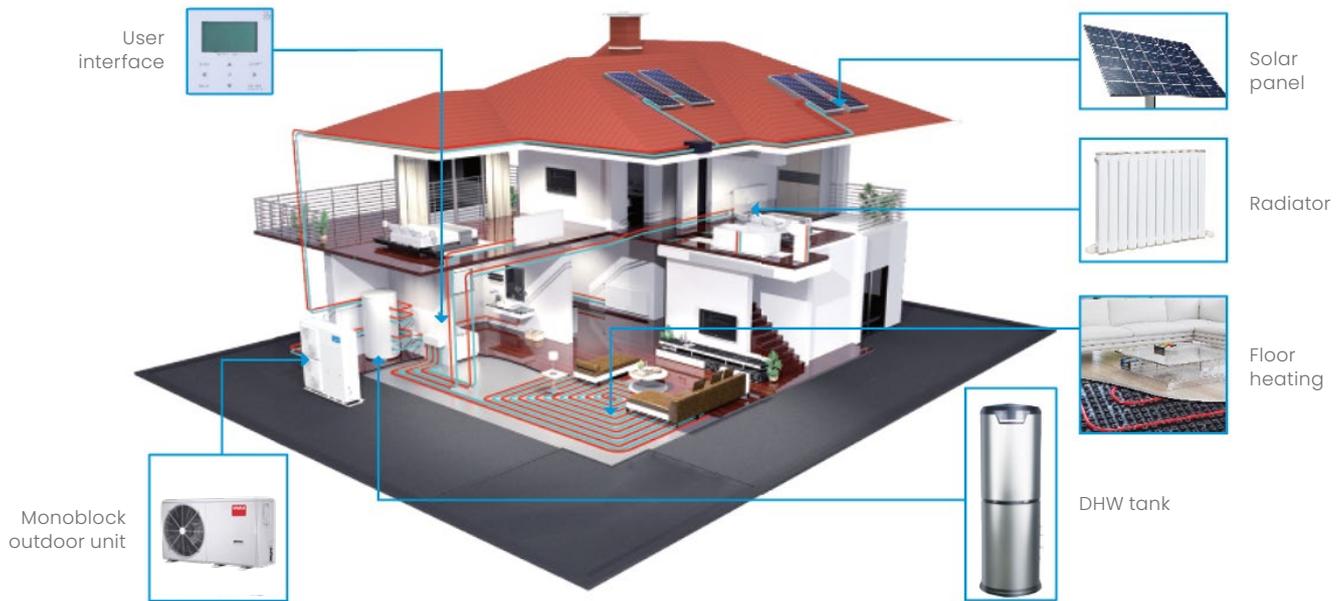
The hot water passes through a heat exchanger in the DHW tank and heats the water in the tank. Additional electric heaters can be installed in the tanks.

## CONTROL SOLUTIONS

The unit is controlled via a user interface located on the indoor unit, while the unit is supplied with a Wi-Fi module as standard.

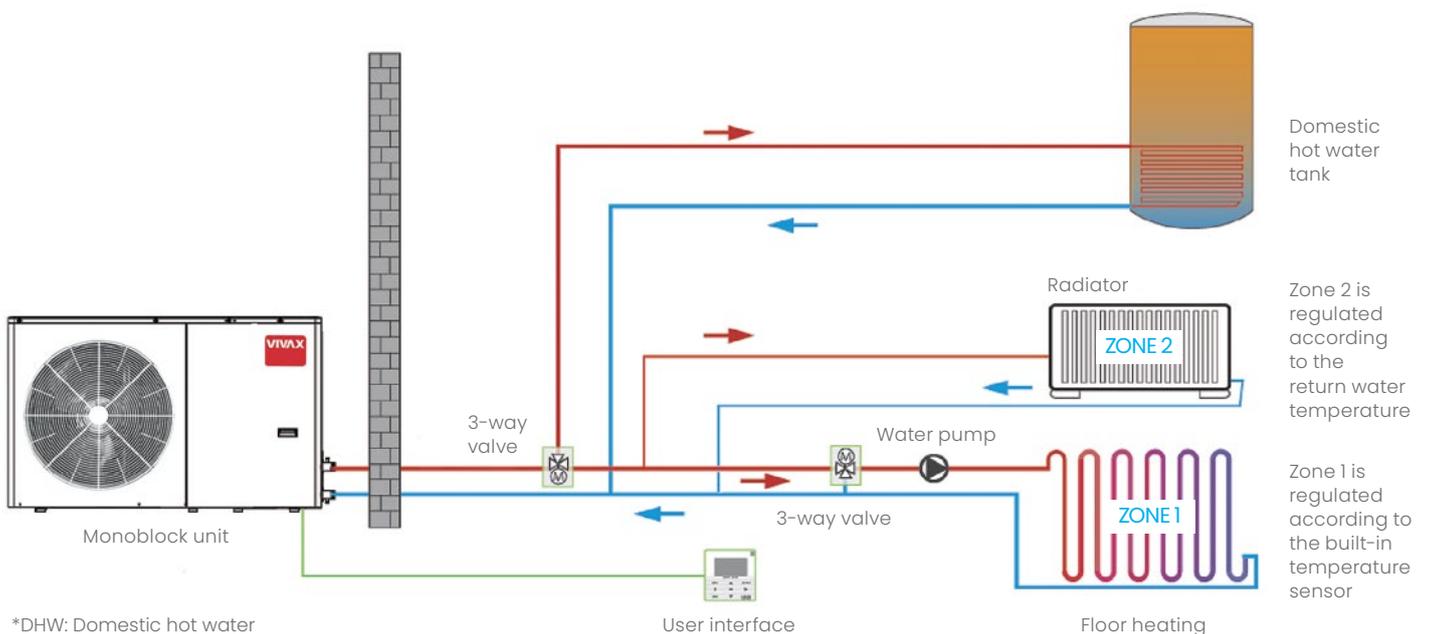


# Monoblock system R32



Application	Heating + Cooling + Domestic hot water
Type	Integrated (Heat pump and hydronic box are in the same casing)
Water piping	Between outdoor unit and indoor heating appliances
Combinational parts	Under-floor heating coils Fan coil units 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

The monoblock outdoor unit extracts heat from the environment and heats the water via a heat exchanger integrated in the outdoor unit.

## DOMESTIC HOT WATER PREPARATION

The hot water passes through a heat exchanger in the DHW tank and heats the water in the tank. Additional electric heaters can be installed in the tanks.

## CONTROL SOLUTIONS

The unit is controlled via a user interface located on the indoor unit, while the unit is supplied with a Wi-Fi module as standard.



# 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
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
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
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
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
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
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
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
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

# 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							
Compressor		Type		Twin rotary													
Outdoor fan		Motor type		DC													
		Number of fans		1													
		Air flow	m <sup>3</sup> /h	2770		4030		4060		4650							
Refrigerant		Type (GWP)		R32(675)													
		Charged volume	kg	1,5		1,65		1,84									
Throttle type		EEV - Electronic expansion valve															
Sound Power Level		Heating A7W35		dB(A)		57		59		60		64		64		67	
		Cooling A35W18		dB(A)		58		60		60		64		64		67	
Sound pressure level (max.)		dB(A)		45		46		49		50		51		55			
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							
Piping dimensions		Liquid		mm		6,35				9,52							
		Gas		mm		15,88				15,88							
Connection method		Flared															
Maximum height difference		m		20													
Maximum pipe length		m		30													
Additional refrigerant		Precharged		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 EN 14511; EN 14825;  
EN 12102 ; (EU) No 811/2013, 813/2013



# 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	bar	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		bar	3					
Flow switch		m <sup>3</sup> /h	0,36			0,6		
Backup E-heater	Optional	kW	3	3/9		9		
	Power supply	3 kW	220~240/1/50					
		6/9 kW	380~415/3/50					
Leaving water temperature	Cooling	°C	5~30					
	Heating	°C	12~65					
	DHW (tank)	°C	10~60					
Sound power level		dB(A)	38	42	42	43	43	43
Sound pressure level (max.)		dB(A)	28	30	30	32	32	32

Notes:  
The above data test reference standard EN 14511; EN 14825; EN 12102 ; (EU) No 811/2013, 813/2013



# 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/IT19H3s			HPS-84HM100AERI/IT24H3s			HPS-120HM155AERI/IT24H3s				
Power supply		V/Ph/Hz		220-240/1/50								
Rated input		W		3095			3095			3095		
Rated current		A		13,5			13,5			13,5		
DHW Tank	Type		Stainless steel									
	Material		SUS 316L									
	Volume	L	190			240			240			
	Maximum water temperature (Disinfection mode)	°C	70									
	Maximum water pressure limit	bar	10									
	Insulation material		Polyurethane									
	Insulation thickness	mm	45									
Heat Exchanger			Plate heat exchanger									
Backup E-heater	Standard mounted	kW		3								
Water Pump	Type		DC inverter									
	Max. Head	m	9									
Expansion vessel	Volume	L		8								
Water Piping connection	Water circuit	Inlet	R1"									
		Outlet	R1"									
	DHW tank water circuit	Inlet	R3/4"									
		Recirculation	R3/4"									
Unit dimension (W×H×D)		mm		600x600x1683			600x600x1943			600x600x1943		
Packing dimension (W×H×D)		mm		730x730x1920			730x730x2180			730x730x2180		
Net/Gross weight		kg		140/161			157/178			159/180		
LWT setting range	Heating	°C		25-65			25-65			25-65		
	Cooling	°C		5-25			5-25			5-25		
	Domestic hot water	°C		30-60			30-60			30-60		

Notes:  
The above data test reference standard EN 14511;  
EN 14825; EN 12102 ; (EU) No 811/2013, 813/2013



# 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
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
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
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
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
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
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
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
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

# 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		
Compressor type			Twin rotary					
Outdoor fan	Motor type		DC					
	Number of fans		1					
	Air flow	m <sup>3</sup> /h	2770	4030		4060		4650
Refrigerant	Type (GWP)		R32 (675)					
	Charged volume	kg	1,4			1,75		
Throttle type			EEV - Electronic expansion valve					
Sound Power Level	Heating max	dB(A)	61	61	62	65	65	69
	Cooling max	dB(A)	61	61	62	65	65	69
Sound pressure level (max.)		dB(A)	47	48	50	53	54	58
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					
Water side connection		mm	R1"	R5/4"				
Safety valve		bar	3					
flow switch		m <sup>3</sup> /h	0,36			0,6		
LWT setting range	Cooling	°C	5~30					
	Heating	°C	12~65					
	DHW (tank)	°C	10~60					

Notes:  
The above data test reference standard EN 14511; EN 14825; EN 12102; (EU) No 811/2013, 813/2013



# ESS

## Energy Storage System



## **OPTIMIZATION FOR MAXIMUM ENERGY SAVINGS**

The system enables direct communication with the heat pump and air conditioner, and through auxiliary contacts it is possible to connect other devices for the purpose of optimizing energy savings.

## **CONTINUOUS ENERGY SUPPLY**

Uninterrupted power supply to household appliances in the event of power outage

## **ADJUSTABLE APPLICATION**

Possibility of operating in ON grid and OFF grid mode

## **REMOTE CONTROL AND MONITORING**

Possibility of monitoring and managing the system using mobile and WEB applications

# System operating principle

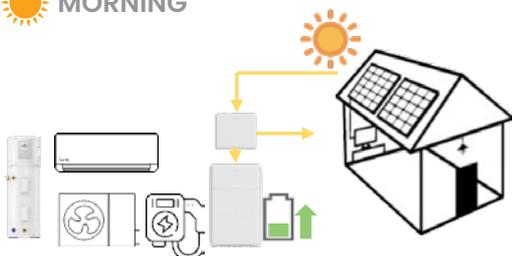
## UP TO 40 kWh

The Vivax ESS system is based on a modular design, consisting of an inverter, power module and batteries. It is possible to connect a maximum of two power modules to one inverter, which together have a power of 10kW. In this configuration, it is possible to connect batteries with a total capacity of up to 40kWh.



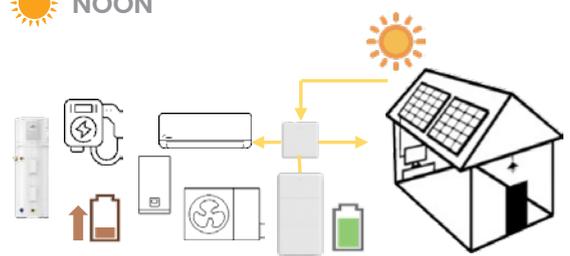
### BATTERY CHARGING WITH SOLAR POWER

 MORNING



### HEATING/COOLING WITH SOLAR POWER

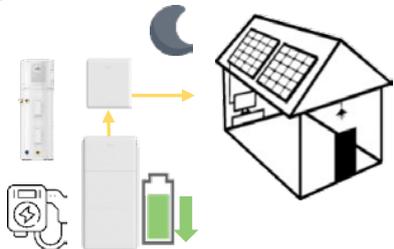
 NOON





**USING DHW AND BATTERY POWER**

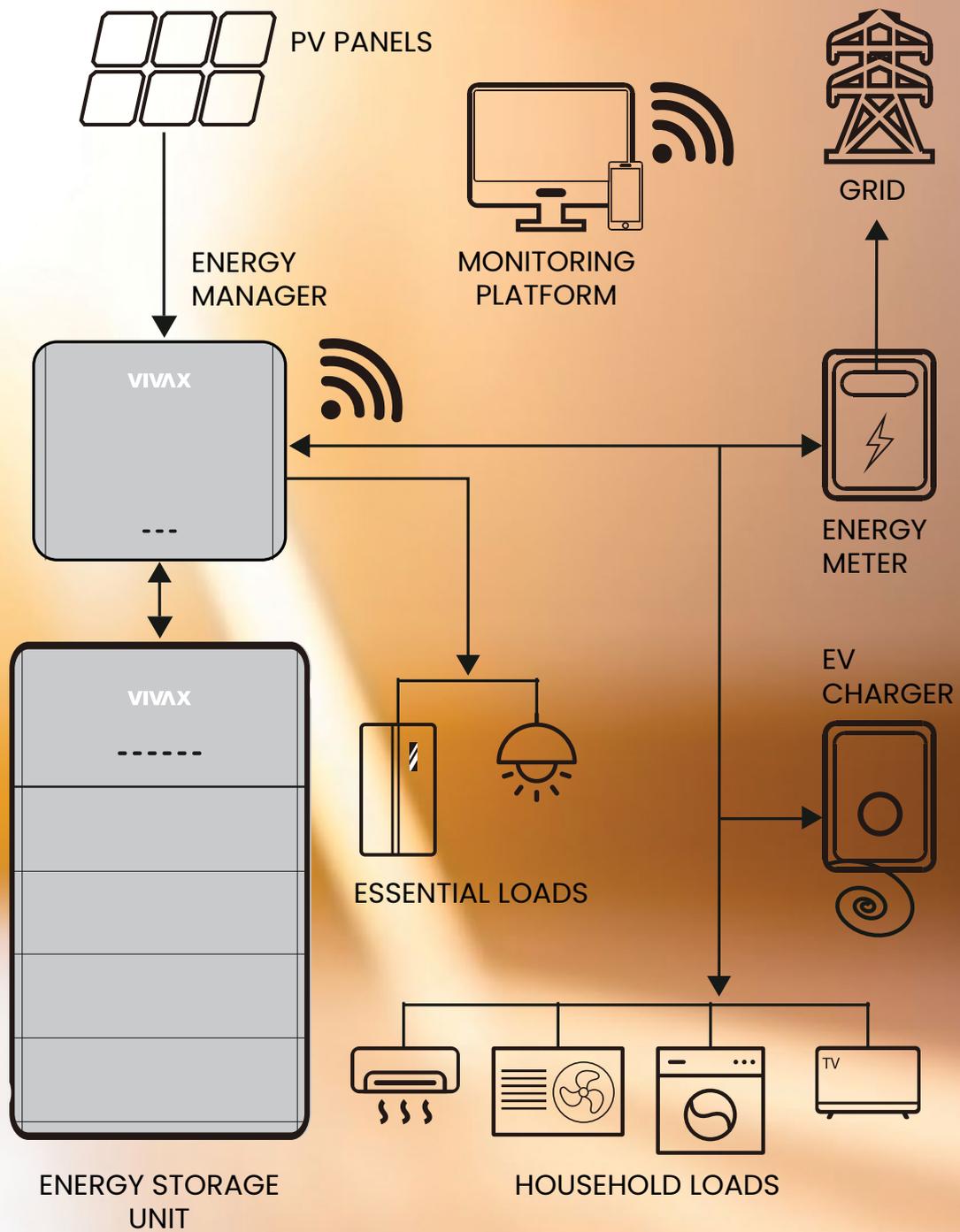
 **EVENING**



**SUPPLIES YOUR HOME WITH BATTERY POWER**

 **NIGHT**





Smart



Simple



Safe

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 MPPT trackers	2
	Max. input number per MPPT tracker	1
Input (Battery)	Battery Type	LiFePO4
	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
Output (AC backup)	Max. total harmonic distortion	≤ 3 %
	Maximum apparent AC power (VA)	10000
	Output voltage (Vac)	220/380, 230/400, 3/N/PE
	Max. output current (A)	14,5
Efficiency	Switching to backup mode	<20 ms
	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
	Unit Dimension (L*W*H)(mm)	521×247×516
	Package Dimension (L*W*H)(mm)	750×640×320
IP class	IP65	

Power Module model	EMS-PM-LV-5K01
Rated charge and discharge power (kW)	5
Nominal voltage (Vdc)	600
Operating voltage range(three phase system) (Vdc)	600-980
Unit dimension (L*W*H) (mm)	690×168×407
Package dimension (L*W*H) (mm)	750×640×320
Net weight (kg)	25,2
Gross weight (kg)	38
IP class	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 (kWh)	5,12
Unit dimension (L*W*H) (mm)	690×165×408
Package dimension (L*W*H) (mm)	785×535×285
Net weight (kg)	52
Gross weight (kg)	58
IP class	IP66
Cell technology	LiFePO4







# VIVAX

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