

VIVAX



Katalog toplotnih črpalk in ESS **2025**

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Toplotne črpalke

Popolna rešitev za ogrevanje, hlajenje in
sanitarno toplo vodo.



Pregled izdelkov

Toplotne črpalke postajajo vse bolj dostopne ekonomske in ekološke rešitve, ki omogočajo ogrevanje, hlajenje in toplo sanitarno vodo. Njihove številne prednosti jih uvrščajo med najboljše rešitve za vse bivalne prostore.

ZAKAJ TOPLOTNE ČRPALKE?

Toplotne črpalke izkoriščajo brezplačno energijo iz okolja. Viri energije so lahko zemlja, podzemna voda ali zrak. Edini strošek delovanja toplotne črpalke je električna energija, ki jo črpalka uporablja.

5-LETNA TOVARNIŠKA GARANCIJA

Garancija za toplotne črpalke VIVAX je 60 mesecev z obveznim letnim servisom pri pooblaščenem servisu.

To je običajna garancija za naše toplotne črpalke, pri čemer po nakupu ni potrebna dodatna registracija naprave za pridobitev garancije.

Podrobne informacije o pogojih garancije in seznam pooblaščenih servisov lahko najdete na spletni strani vivax.com.

DOLGOROČNA EKONOMIČNOST

Čeprav je začetna naložba v toplotno črpalko nekoliko višja, gre za dolgoročno stroškovno učinkovito naložbo v primerjavi s tradicionalnimi rešitvami ogrevanja, ki temeljijo na fosilnih gorivih. Prihranki pri ogrevanju presegajo 75 %. Ob upoštevanju visokih prihrankov pri porabi energije se povprečna naložba v toplotno črpalko povrne v le nekaj letih.

Sezonski koeficient učinkovitosti (SCOP) toplotnih črpalk VIVAX je merjen v različnih načinih delovanja, ob upoštevanju potreb uporabnika. V načinu ogrevanja je določen za temperaturo oskrbe z vodo 35 °C, kjer vrednosti narastejo do 6,91, in za temperaturo oskrbe 55 °C, kjer vrednosti narastejo do 4,94.

Monoblok enote R290



Kapaciteta (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 sistem R32



	Zunanja enota	Zunanja enota					Notranja enota		
Kapaciteta (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 sistem R32



ESS sistem



	Notranja enota		
Kapaciteta (kW)	6.0	8.0-10.0	12.0-16.0
220 ~ 240 - 1 Ph	•	•	•
380 ~ 415 - 3 Ph	•	•	•

Monoblok enote R32



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



R290

Naložba v trajnostno zeleno prihodnost

Dolgoročna rešitev je naša naloga



GWP
3 Manjši vpliv na globalno segrevanje

ODP
0 Nevtralen vpliv na ozonsko plast

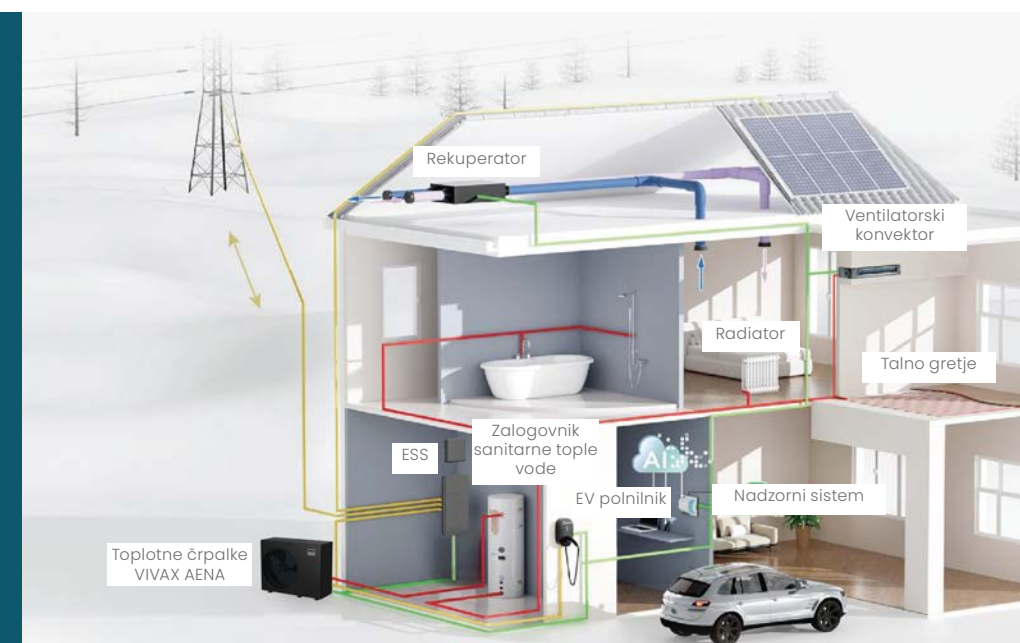
Naravni hladilni plin

- Nizka vrednost GWP še dodatno poudarja naše napore za zaščito okolja, skladno s politiko EU pri doseganju podnebne nevtralnosti.
- Zaradi odličnih termodinamičnih lastnosti R290 in napredne tehnologije toplotnih črpalk VIVAX AENA in AEMA, toplotne črpalke dosežejo odlično učinkovitost tudi v hladnih pogojih in to z zelo majhno količino R290.
- Gre za moderno rešitev, ki usklajuje zahteve ekosistema z ekonomsko učinkovitostjo.



Celovit in fleksibilen nadzor sistema v kombinaciji s PV paneli in ESS sistemom

- Ogrevanje, hlajenje, sanitarna topla voda
- Idealno za menjavo obstoječega sistema
- Visoka temperatura vode do 80 °C



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

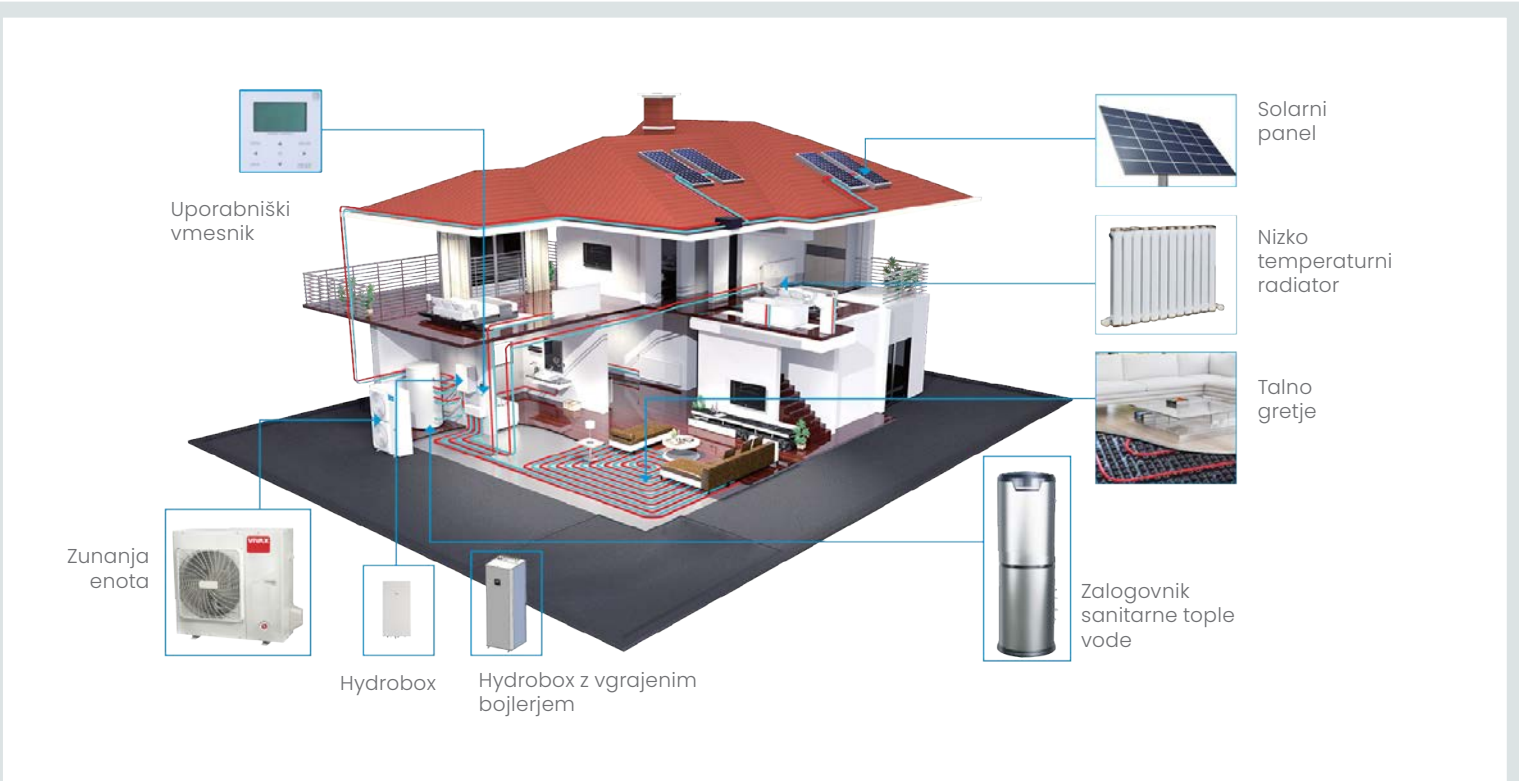
Nominal capacity		kW	26	30	35
VIVAX R290 AEMA Series			HPM-89CH260AEMA R290-3	HPM-102CH300AEMA R290-3	HPM-120CH350AEMA R290-3
Compressor	Type		Scroll		
Outdoor fan	Motor type/Number of fans		DC fan / 2		
Air-side heat exchanger			Finned tube heat exchanger		
Refrigerant			R290 2900g		
Unit dimensions (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		
Expansion vessel (primary circuit)	Nominal volume	L	5		
	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					





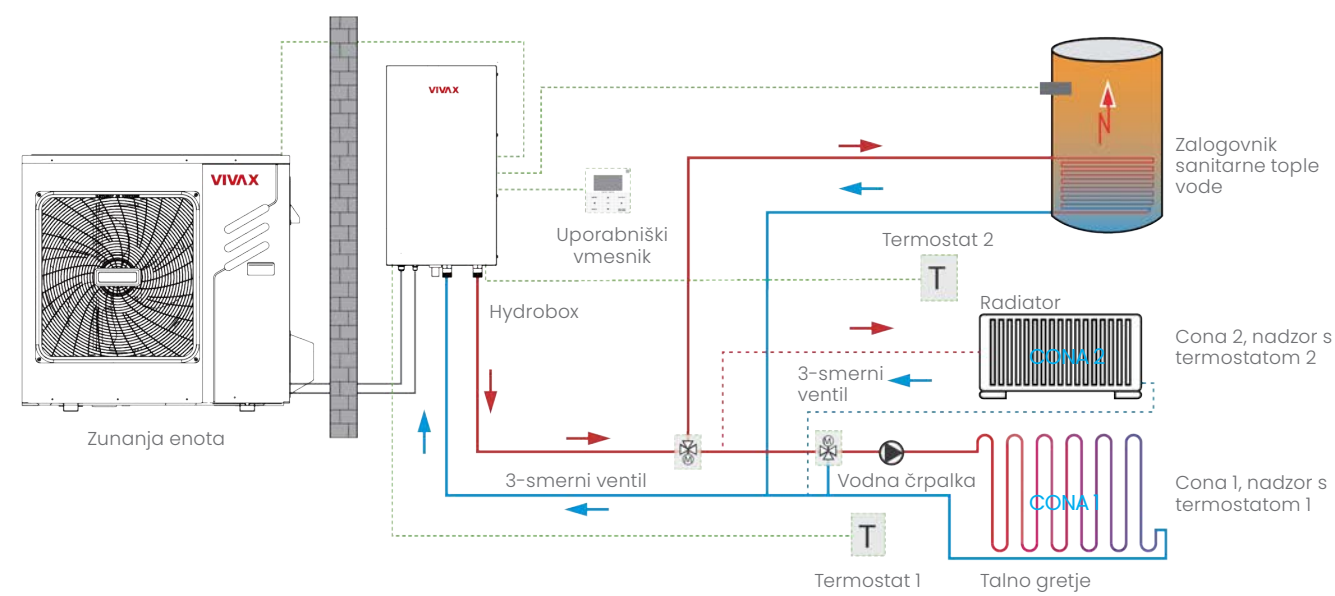
R32

Split sistem R32



Uporaba	Gretje + hlajenje + sanitarna topla voda
Tip	Split (zunanja + notranja enota)
Povezava hladilnega plina	Med zunanjo enoto in hidroboxom
Cevi za vodo	Med hidroboxom in notranjimi ogrevalnimi napravami
Ostali deli sistema	Ogrevalne zanke talnega gretja
	Ventilatorske enote
	Radiatorji za nizke temperature
	Rezervoar za sanitarno toplo vodo
	Pomožni toplotni viri (kot so grelniki vode in kotli)

Dve coni, kontrolirani z uporabniškim vmesnikom in termostatom.



ZUNANJA ENOTA SPLIT SISTEMA

Zunanja enota absorbira toploto iz zunanjega zraka in jo prenese v notranjost preko plinske cevi.

HIDROBOX

Hidrobox segreva vodo s hladivom iz zunanje enote. Segreta voda kroži skozi ogrevalne naprave, kot so talno ogrevanje, radiatorji, ventilatorske enote ter notranja tuljava rezervoarja za sanitarno toplo vodo.

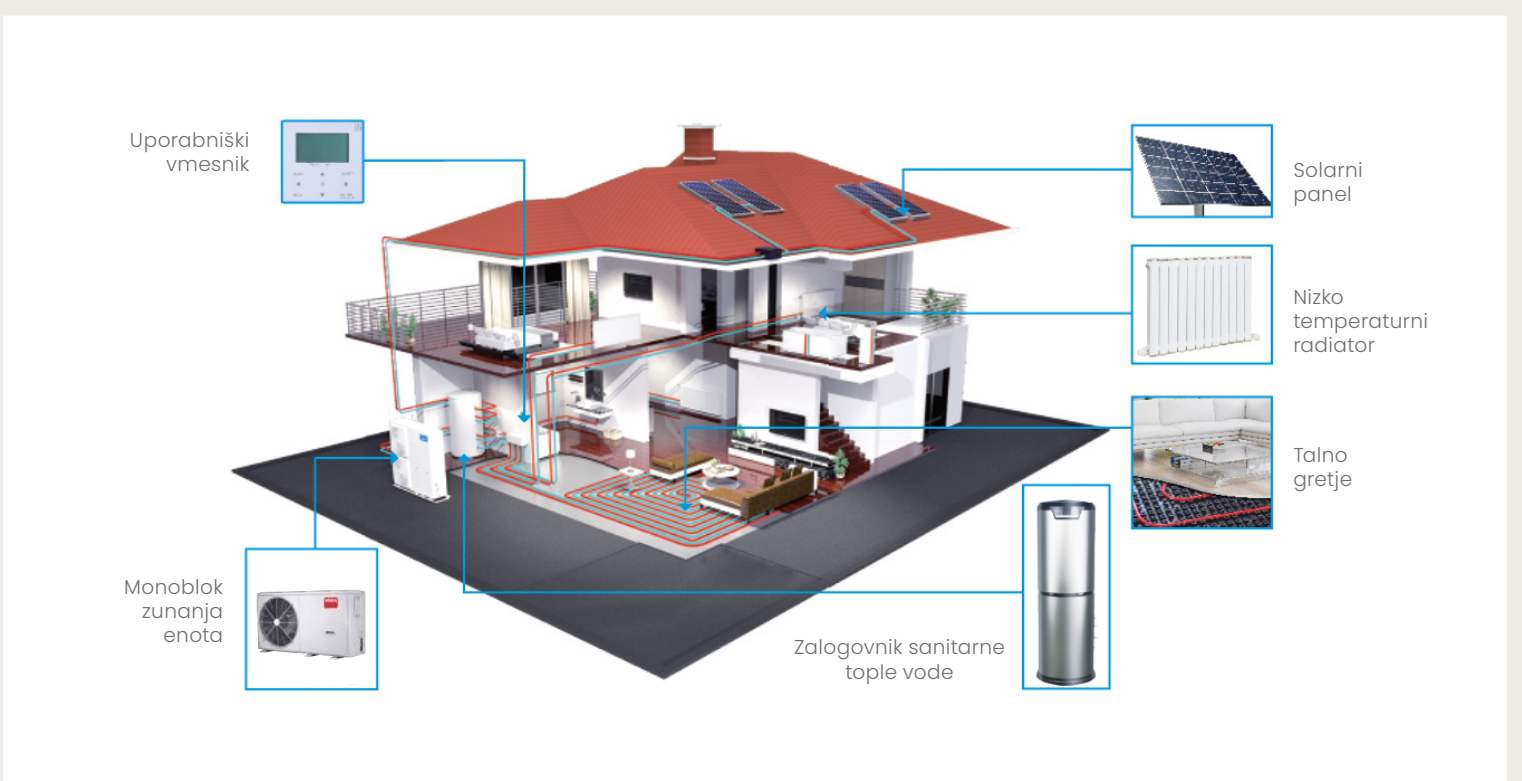
ZALOGOVNIK SANITARNE TOPLE VODE

Topla voda iz hidroboxa kroži skozi tuljavo za segrevanje vode v rezervoarju za sanitarno toplo vodo, pri čemer segreje sanitarno vodo znotraj rezervoarja. V rezervoarjih za sanitarno toplo vodo so lahko kot rezerva nameščeni pomožni električni grelniki.

UPORABNIŠKI VMESNIK

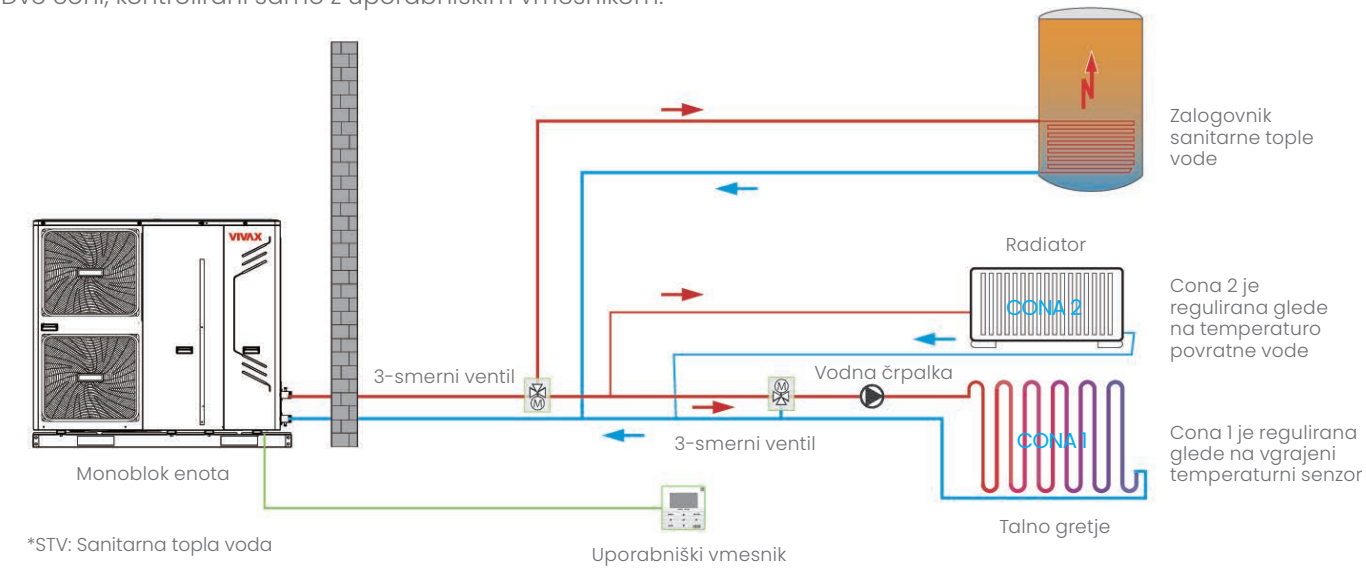
Uporabniški vmesnik je povezan s split enoto preko signalne žice. Njegove glavne funkcije so: vklop in izklop ter nastavitev parametrov, časovnik in nastavitev servisnih parametrov.

Monoblok sistem R32



Uporaba	Gretje + hlajenje + sanitarna topla voda
Tip	Monoblok (hidrobox vgrajen v zunanji enoti)
Povezava hladilnega plina	Znotraj zunanje enote
Cevi za vodo	Med hidroboxom in notranjimi ogrevalnimi napravami Ogrevalne zanke talnega gretja Ventilatorske enote
Ostali deli sistema	Radiatorji za nizke temperature Rezervoar za sanitarno toplo vodo Pomožni toplotni viri (kot so grelniki vode in kotli)

Dve coni, kontrolirani samo z uporabniškim vmesnikom.



MONOBLOK ZUNANJA ENOTA

Monoblock zunanjska enota absorbira toploto iz zunanjega zraka in jo prenese v vgrajen hidrobox, preko vodne povezave pa dovaja toploto v notranjost zgradbe.

ZALOGOVNIK SANITARNE TOPLE VODE

Topla voda iz monoblok enote kroži skozi tuljavo za segrevanje vode v zalogovniku sanitarne tople vode, pri čemer segreje sanitarno vodo znotraj zalogovnika. V zalogovniku se kot rezerva lahko namestijo pomožni električni grelniki.

UPORABNIŠKI VMESNIK

Uporabniški vmesnik je povezan z monoblok enoto preko signalne žice. Njegove glavne funkcije so: vklop in izklop ter nastavitve parametrov, časovnik in nastavitev servisnih parametrov.



Split sistem R32

Zunanje enote

Nominal capacity		kW	6	8	10	12	14	16
Outdoor unit model name			HPS-22CH65AERI /OIs R32	HPS-28CH84AERI /OIs R32	HPS-34CH100AERI /OIs 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 ⁵	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 sistem R32

Zunanje enote

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	m³/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 sistem R32

Notranje enote (Hidrobox)

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 <th colspan="8">/</th>	/								
	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	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 sistem R32

Hidrobox z vgrajenim zalogovnikom

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/IIT19H3s			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													



Monoblok enote 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								



Monoblok enote 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
	Max. cooling frequency	Hz	84	72	78	70	76	80
Outdoor fan	Motor type		Dc fan					
	Number of fans		1					
	Air flow	m³/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	1.4			1.75		
Throttle type			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; I2102:2011; (EU) No.811:2013; (EU)No.813:2013; OJ 2014/C 207/02:2014								



FLEKSIBILNA UPORABA

Prilagodljivost za različne
scenarije uporabe:

- Samo PV;
- PV in shranjevanje energije;
- Obstoječi PV sistem, širitev
PV sistema in shranjevanje
energije.

NEPREKINJENO DELOVANJE BREZ IZPADA NAPAJANJA

Podpira 100% trifazni izhod, ki
lahko ohrani normalno delovanje
večine gospodinjskih aparatov v
primeru izpada omrežja.

INTEGRIRANA POVEZAVA

Uporabniški vmesnik omogoča
porabo odvečne PV elektrike čez
dan za gretje sanitarne tople
vode s toplotno črpalko.

DALJINSKO UPRAVLJANJE

Aplikacija in spletno spremljanje
proizvodnje in porabe energije,
prijazno za uporabnike in
inštalaterje.

ESS Energy Storage System

DO 40 KW

Sistem VIVAX ESS temelji na modularni zasnovi, ki vključuje inverter, energetski modul in baterije s kapaciteto 5 kW. En inverter omogoča povezovanje največ dveh energetskih modulov in baterij s skupno močjo do 40 kW.

KAKO DELUJE?

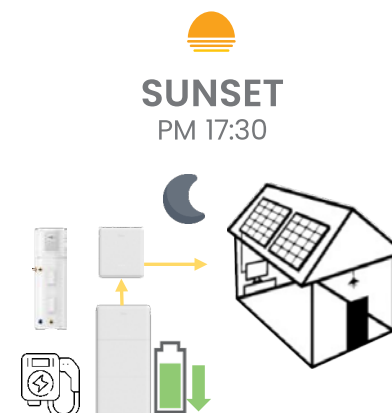
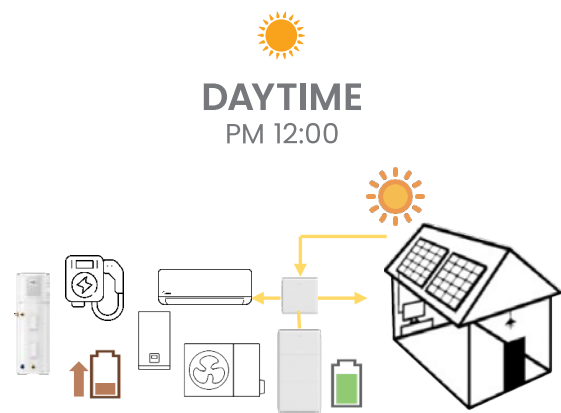
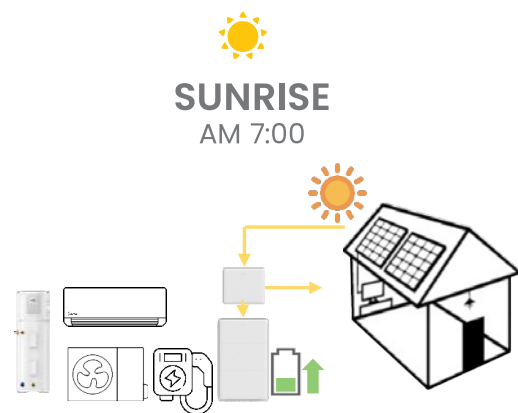


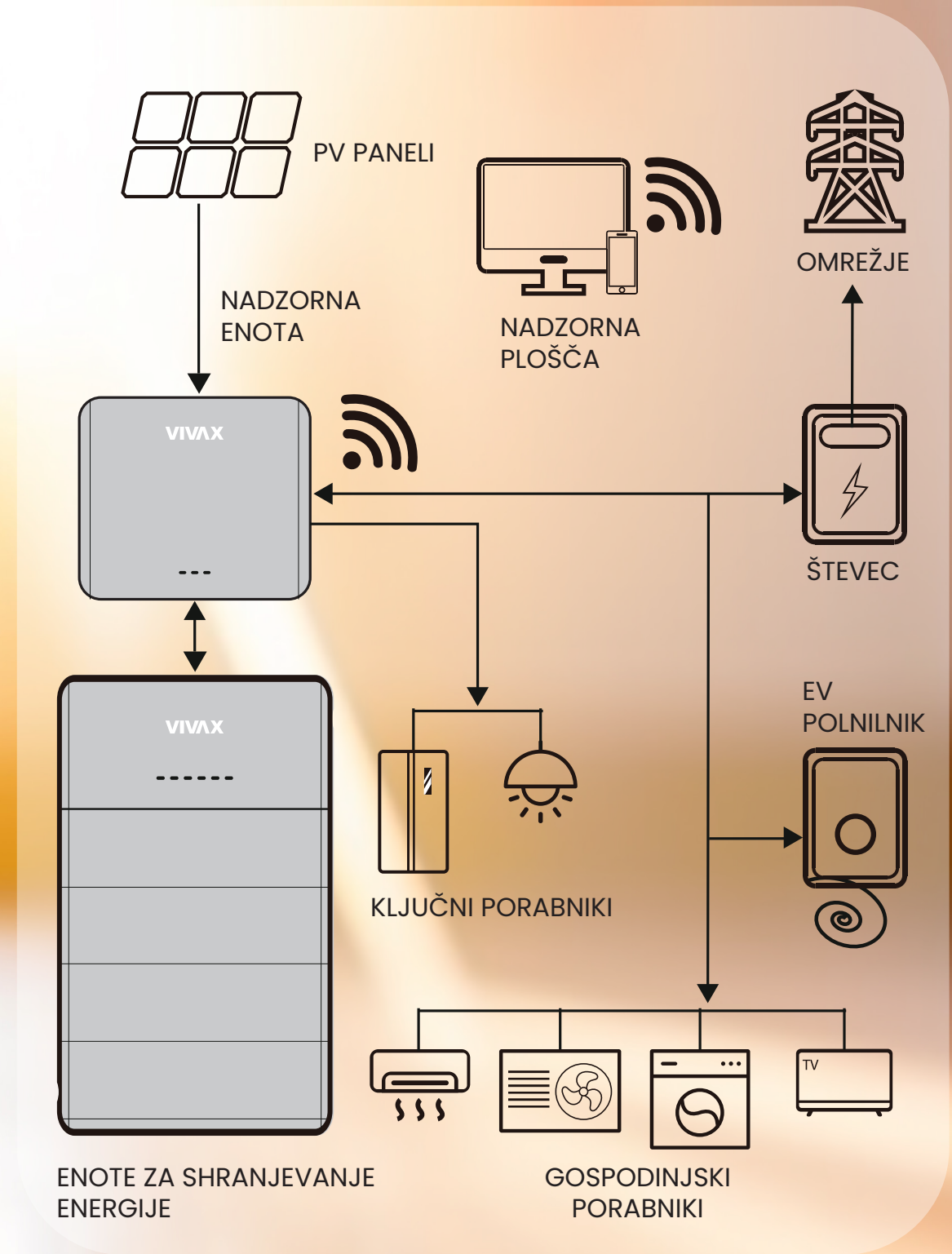
POLNJENJE BATERIJ S SONČNO ENERGIJO

OGREVANJE/HLAJENJE S SONČNO ENERGIJO

UPORABA SANITARNE TOPLE VODE (STV) IN BATERIJSKE MOČI

VAŠ DOM OSDKRBUJE Z BATERIJSKO ENERGIJO





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
Standard Compliance	Degree of protection	IP65
	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




Pametno


Enostavno


Varno

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