

VIVAX



**Heat
Pumps
catalogue**

Content

Mono block and split system	3
How air source heat pump works	4
SPLIT SYSTEM	5
Flexible operation and more comfort	6
Total heat solution Typical applications	7
MONO BLOCK SYSTEM	8
Flexible operation and more comfort	9
Total heat solution Typical applications	10
DC Inverter technology Innovative design	11
SPECIFICATIONS	
Split system	12
Mono block system	14



Heat pumps

Complete solution for heating, cooling and domestic hot water

Heat pumps are becoming more and more available economic and ecological solution enabling heating, cooling and domestic water. And their many advantages make them a top solution for all the living spaces.

WHY HEAT PUMPS?

Heat pumps use free energy from the environment because they use temperature difference from the nature. Energy sources can be earth, groundwater or air. Only cost of the pump working is electric energy that the pump uses.

LONGTERM COST EFFECTIVENESS

Although the entry investment in a heat pump is a bit bigger it is a long-term cost-effective investment, compared to traditional heating solutions based on fossil fuels. Savings while heating goes up to 75 %. Considering the high savings in energy consumption, average heat pump completely returns its value in only a few years.

Efficiency coefficient of the VIVAX heat pumps is measured independently, considering the user needs. In heating phase value measuring is done on water outlet while temperature is 35 °C where coefficients are between 4.62 and 5.21 and at 55 °C temperature where coefficients are between 3.31 and 3.52. This coefficient states that for 1.0 kW electric energy used the pump can give from 4.62 kW to 5.21 kW of heat energy, depending of the device model strenght. The difference is simply taken from the outer air. All this puts it in the A+++ energy class of the device.

5 YEAR FACTORY WARRANTY

The warranty for VIVAX heat pumps is 60 months with mandatory annual service by an authorised service centre. We believe in the quality of VIVAX heat pumps and guarantee their proper operation for at least 5 years. 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



Mono block and split system

Split system



Outdoor unit

Capacity

6.0 kW

220 ~ 240 - 1 Ph

•

380 ~ 415 - 3 Ph



Outdoor unit

8.0 kW | 10.0 kW | 12.0 kW | 14.0 kW | 16.0 kW

•

•

•

•

•



Indoor unit

6.0 kW | 8.0 - 10.0 kW | 12.0 - 16.0 kW

•

•

•

Mono block system



Capacity

6.0 kW

220 ~ 240 - 1 Ph

•

380 ~ 415 - 3 Ph



8.0 kW | 10.0 kW | 12.0 kW | 14.0 kW | 16.0 kW

•

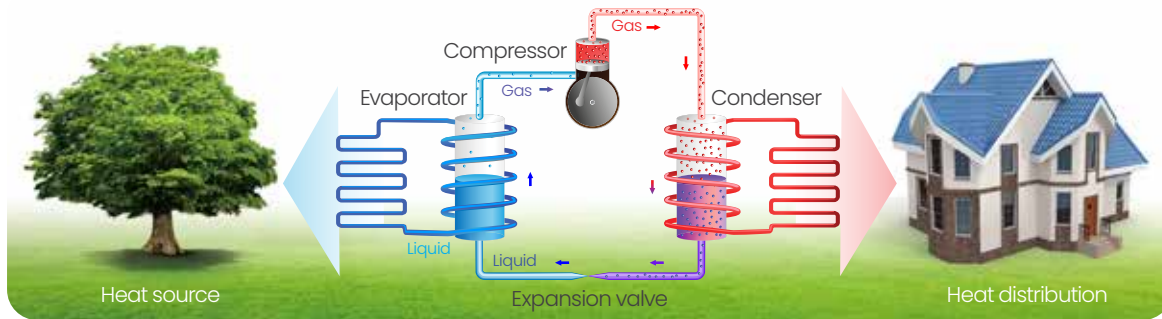
•

•

•

•

How heat pump works



AIR – WATER

VIVAX heat pumps work on air – water principle because it is the principle that does not require water source from the ground or large area for building in. When choosing the right solution, it is important to choose working area that is suitable considering the weather conditions, optimally -25°C to $+43^{\circ}\text{C}$. In its assortment Vivax has mono split system of heat pumps capacity from 6.0 kW to 16.0 kW. All the devices use cooling medium R32 and while devices up to 10.0 kW use mono phase connection to electric network and devices of capacity of 12.0 kW to 16.0 kW use three-phase connection to electric network. Every outer unit has to be connected to hydro unit of convenient capacity for inner built-in that heats and cools water that goes through inner installations that heat or cool space or domestic water. Heat pump units can extract heat from outer air and transfer it to closed space for heating the space and domestic water.

Heat pump units are capable of extracting heat from the surrounding air and transferring this heat indoors for space heating and domestic hot water.

WI-FI CONTROL



- Touch control
- LCD (Liquid Crystal Display)
- Error display
- Checking operating parameters
- More languages
- Locking function for children
- Alarm
- Built-in temperature sensor and Wi-Fi module
- Modbus protocol

Stage One

As the refrigerant passes through the expansion valve and expands, its temperature and pressure both drop.

Stage Two

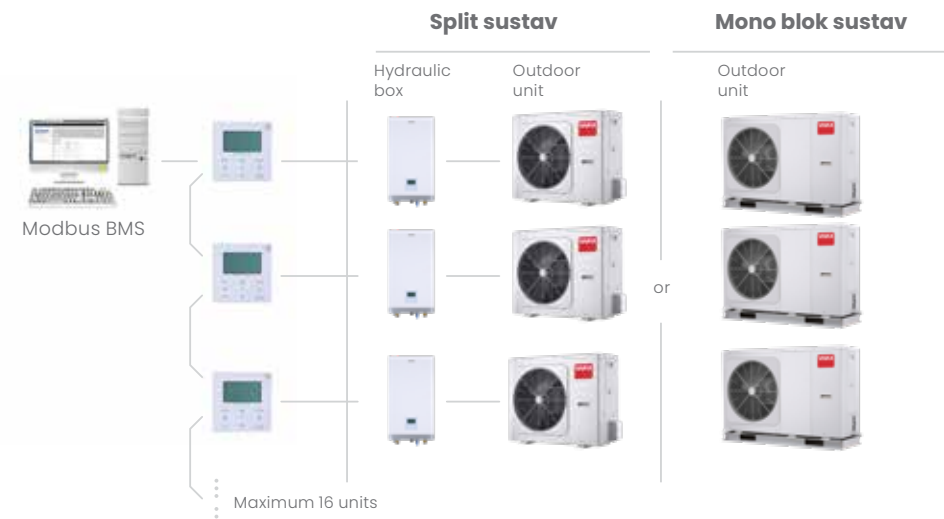
With the temperature of the refrigerant being lower than the ambient temperature, heat passes from the air flowing over the air side heat exchanger to the refrigerant and the refrigerant evaporates.

Stage Three

When the refrigerant vapor passes through the compressor its pressure increases and its temperature rises above that of the water in hydronic system.

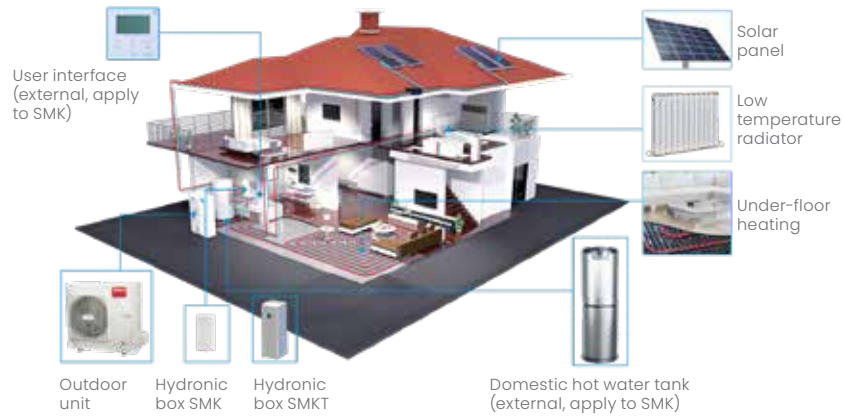
Stage Four

As the hot vapor refrigerant passes through the water side heat exchanger it heats the water in the hydronic system, which is then pumped indoors to the space heating terminals or hot water tank. The refrigerant cools and condenses and then ready to return to the expansion valve to start the cycle again.



Split system

Split system



Application	Heating + Cooling + Domestic hot water.
Structure type	Split (Heat pump and hydronic box are independent).
Refrigerant piping	Between heat pump unit (outdoor) and hydronic box (indoors).
Water piping	Between hydronic box and indoor heating appliances.
Installation	Refrigerant piping and water piping.
Combinational parts (field supplied)	<ul style="list-style-type: none"> Under-floor heating loops. Fan coil units. Low temperature radiators. Domestic hot water tank(external, apply to SMK). Auxiliary heat sources (such as water heaters and boilers).

SPLIT TYPE OUTDOOR UNIT

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

HYDRONIC BOX

The hydronic box heats the water by refrigerant from 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

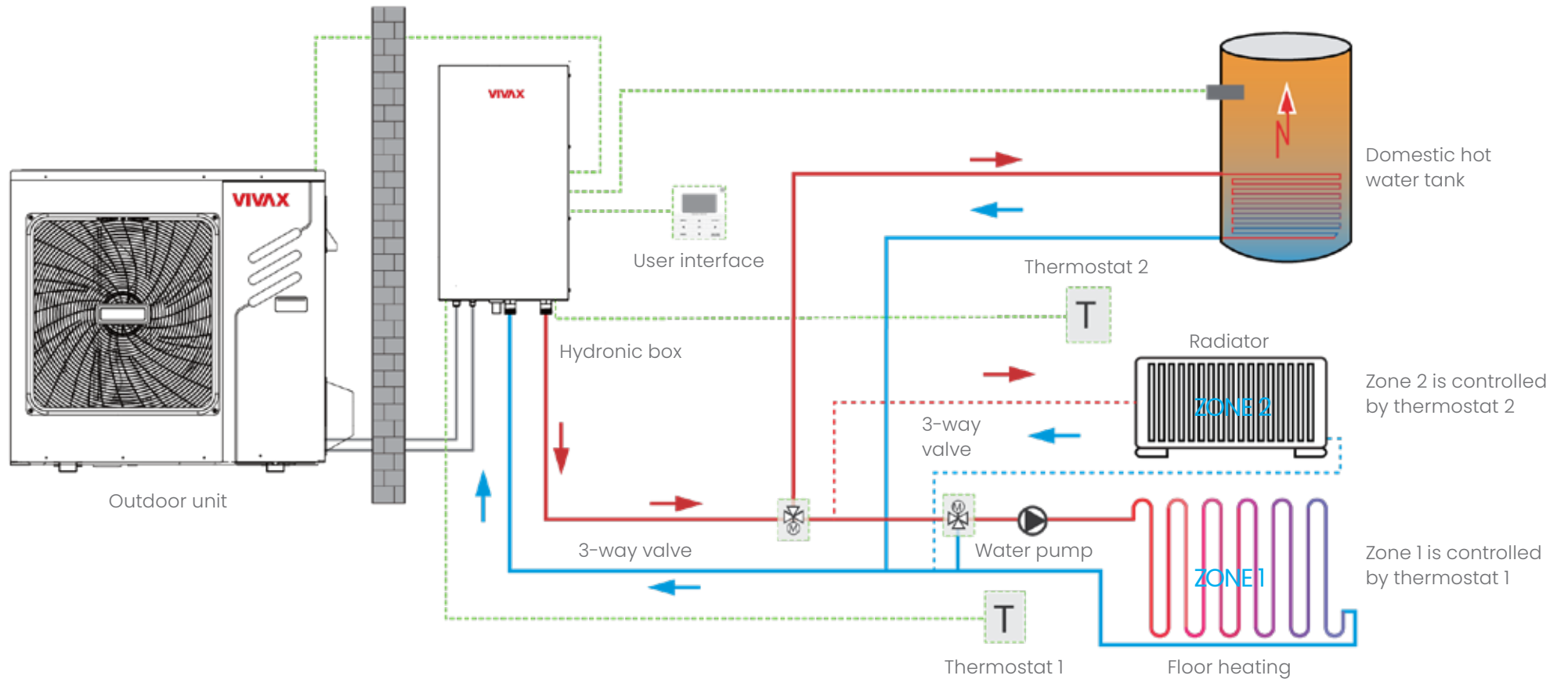
Hot water from the Split unit is circulated around the domestic hot water tank's heating water coil, heating the domestic hot water inside the tank. Immersion heaters are often installed in domestic hot water tanks as a backup.

USER INTERFACE

User interface is connected to the Split unit through signal wire. It mainly uses for ON/OFF the unit, mode setting, temperature adjusting and timer setting.

Flexible operation and **more comfort**

Two zones controlled using user interface and thermostat.



PRIORITY SETTING FUNCTION AND MULTI MODES CHOICE



Cooling
Operation
Priority



Space Heating
Operation
Priority



DHW *
Operation
Priority



AUTO
mode



Disinfect
mode¹



Holiday
mode



Forced
DHW
mode



ECO
mode



Silent
mode

*
DHW: Domestic Hot Water

Note:
1. Only when the immersion heater of tank is
available can the disinfection mode be used.

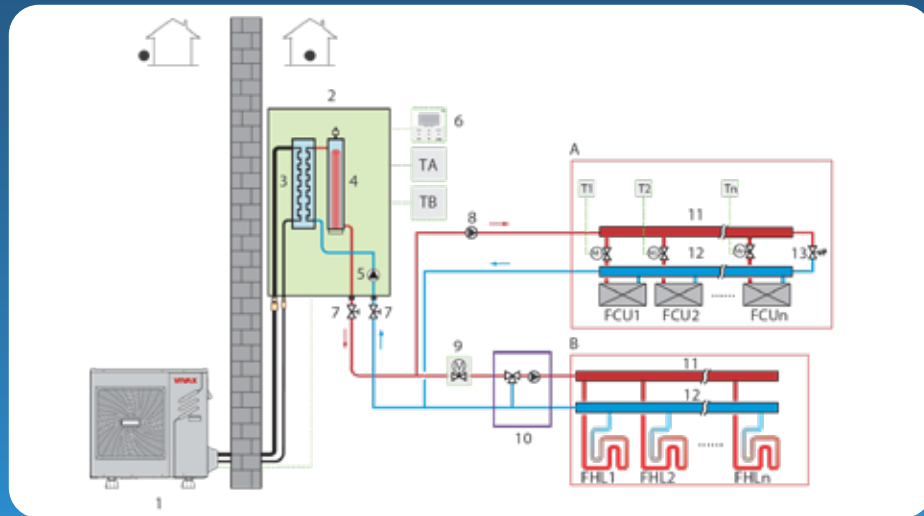
Total heat solution | Typical applications

Take an example as R32 Split combine with SMK

Application 1

Space Heating Through Floor Heating Loops and Fan Coil Units

The floor heating loops and fan coil units require different operating water temperatures. To achieve these two set points, a mixing station is required. Room thermostats for each zone are optional.

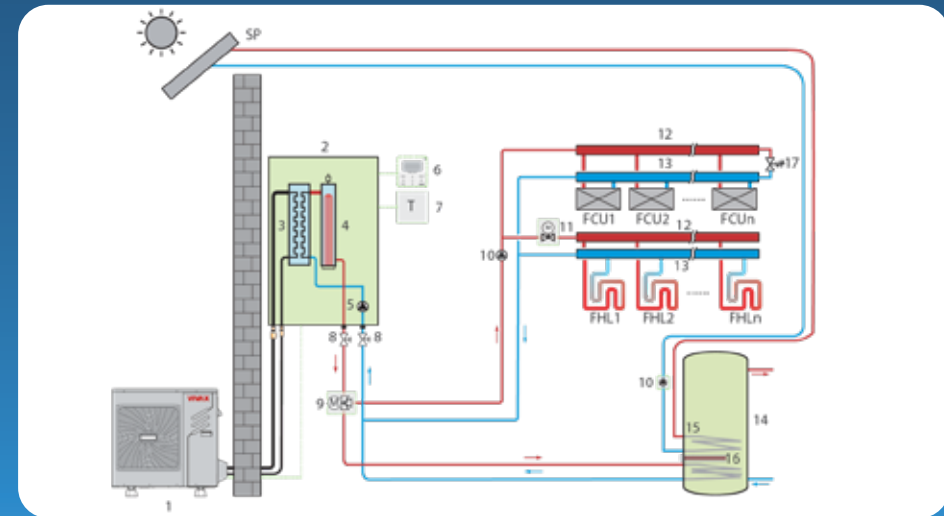


- 1 Outdoor unit
- 2 Hydronic box
- 3 Plate heat exchanger
- 4 Backup electric heater (optional)
- 5 Internal circulator pump
- 6 User interface
- 7 Stop valve (field supplied) *
- 8 External circulator pump *
- 9 Motorized 2-way valve *
- 10 Mixing station *
- 11 Distributor *
- 12 Collector *
- 13 Bypass valve *
- FHL 1...n Floor heating loops *
- FCU 1...n Dan coil units *
- MI...n Motorized valves *
- T1...n Room thermostats *
- TA Zone A thermostat *
- TB Zone B thermostat *

Application 2

Space Heating, Space Cooling and Domestic Hot Water Compatible with Solar Water Heater

Floor heating loops and fan coil units are used for space heating and fan coil units are used for space cooling. Domestic hot water is supplied from the domestic hot water tank connected to both the hydronic box and solar water heater. The unit switches to heating or cooling mode according to the temperature detected by the room thermostat. In space cooling mode, the 2-way valve is closed to prevent cold water entering the floor heating loops.



- 1 Outdoor unit
- 2 Hydronic box
- 3 Plate heat exchanger
- 4 Backup electric heater (optional)
- 5 Internal circulator pump
- 6 User interface
- 7 Room thermostat
- 8 Stop valve *
- 9 Motorized 3-way valve *
- 10 External circulator pump *
- 11 Motorized 2-way valve *
- 12 Distributor *
- 13 Collector *
- 14 Domestic hot water tank *
- 15 Heat exchanger coil
- 16 Immersion heater
- 17 Bypass valve *
- FHL 1...n Floor heating loops *
- FCU 1 Fan coil units *
- SP Solar panel

Mono block system

Mono block system



Application	Heating + Cooling + Domestic hot water.
Structure 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.
Installation	Only need to install water piping.
Combinational parts (field supplied)	<p>Under-floor heating coils.</p> <p>Fan coil units.</p> <p>Low temperature radiators.</p> <p>Domestic hot water tank.</p> <p>Auxiliary heat sources (such as water heaters and boilers).</p>

MONO OUTDOOR UNIT

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

DOMESTIC HOT WATER TANK

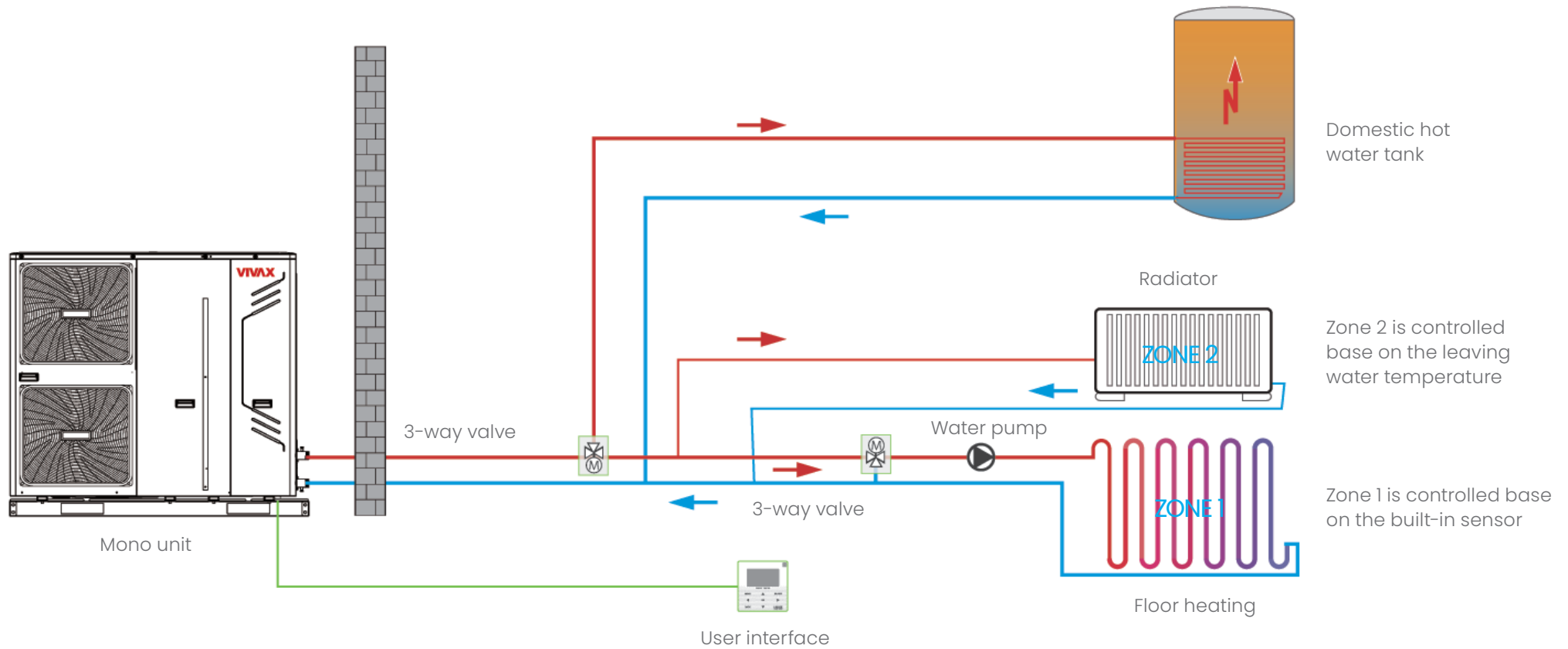
Hot water from the Mono unit is circulated around the domestic hot water tank's heating water coil, heating the domestic hot water inside the tank. Immersion heaters are often installed in domestic hot water tanks as a backup.

USER INTERFACE

User interface is connected to the Mono unit through signal wire; it mainly uses for ON/OFF the unit, mode setting, temperature adjusting and timer setting.

Flexible operation and **more comfort**

Two zones controlled using user interface only (take an example as Mono Series).



PRIORITY SETTING FUNCTION AND MULTI MODES CHOICE



Cooling
Operation
Priority



Space Heating
Operation
Priority



DHW *
Operation
Priority



AUTO
mode



Disinfect
mode¹



Holiday
mode



Forced
DHW
mode



ECO
mode



Silent
mode

*
DHW: Domestic Hot Water

Note:
1. Only when the immersion heater of tank is
available can the disinfection mode be used.

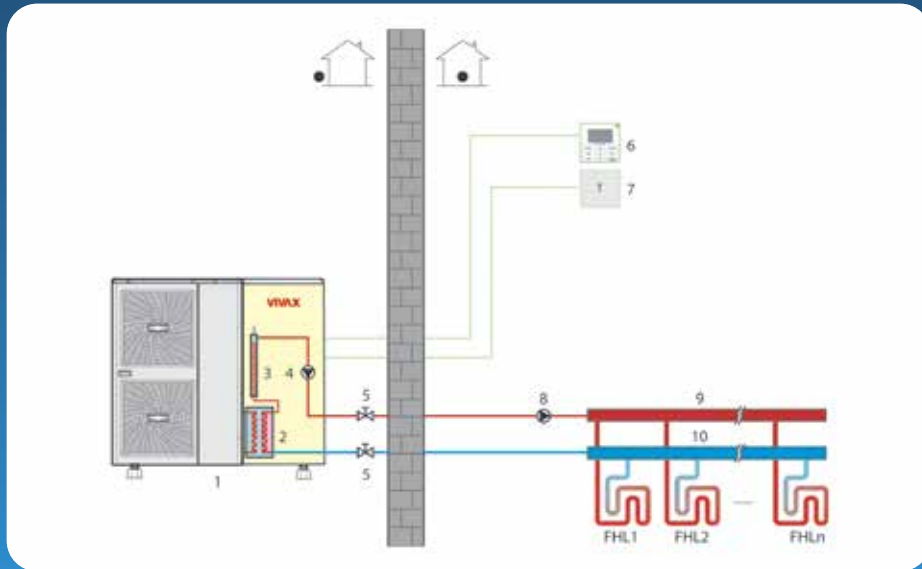
Total heat solution | Typical applications

Typical Applications (take an example as R32 Mono Series)

Application 1

Space Heating Only

The room thermostat is used as a switch. When there is a heating request from the room thermostat, the mono unit operates to achieve the target water temperature set on the user interface. When the room temperature reaches the thermostat's set temperature, the unit stops.



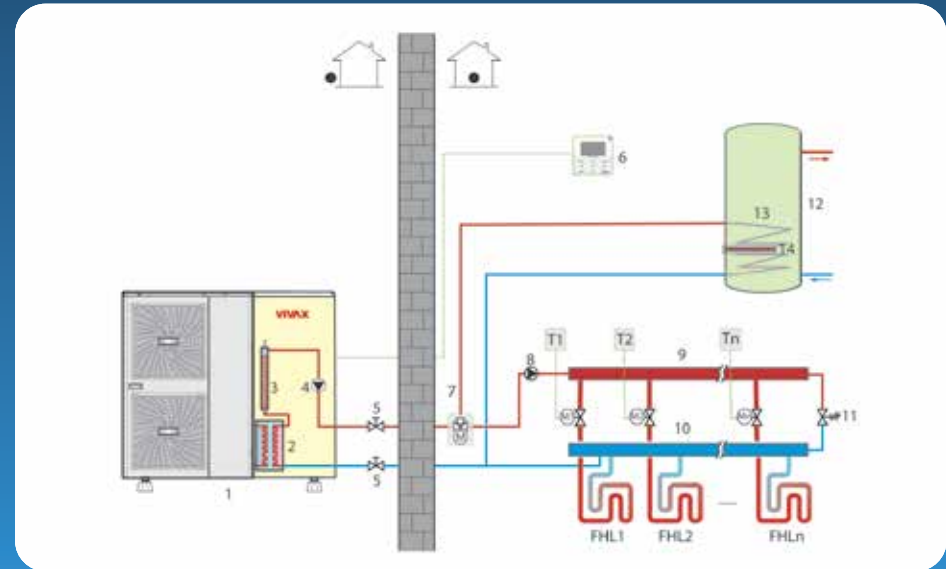
- 1 Outdoor unit
- 2 Plate heat exchanger
- 3 Backup electric heater (customized)
- 4 Internal circulator pump
- 5 Stop valve *
- 6 User interface
- 7 Room thermostat *
- 8 External circulator pump *
- 9 Distributor *
- 10 Collector *

FHL1...n Floor heating loops *

Application 2

Space Heating and Domestic Hot Water

The room thermostats are not connected to the mono unit but to a motorized valve. Each room's temperature is regulated by the motorized valve on its water circuit. Domestic hot water is supplied from the domestic hot water tank connected to the mono unit. A bypass valve is required.

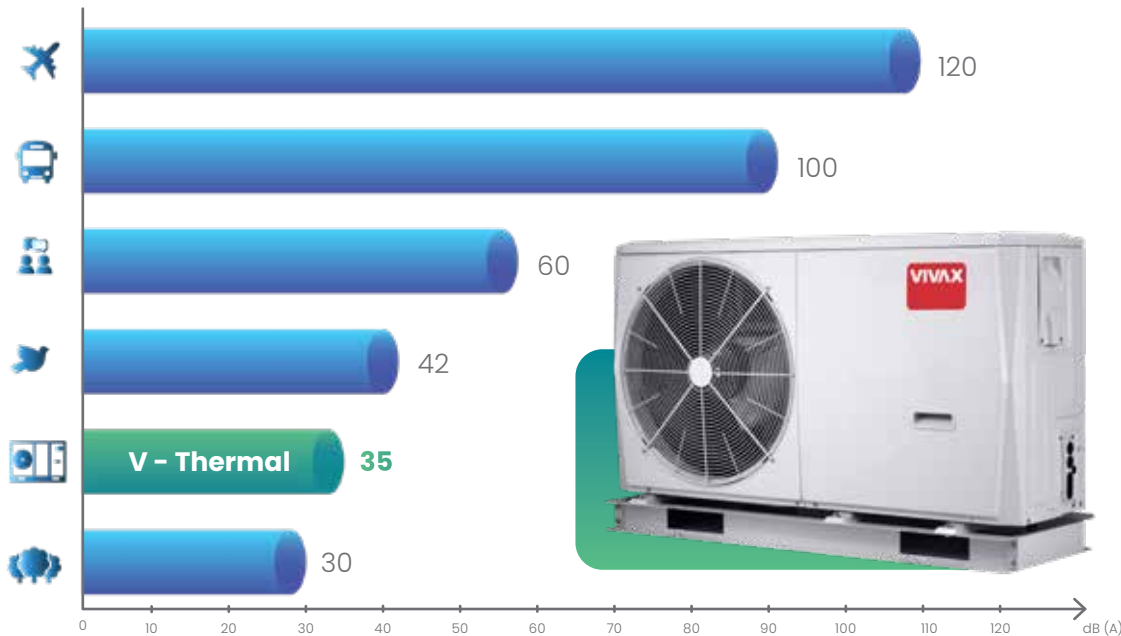


- 1 Outdoor unit
- 2 Plate heat exchanger
- 3 Backup electric heater (customized)
- 4 Internal circulator pump
- 5 Stop valve *
- 6 User interface
- 7 Motorized 3-way valve *
- 8 External circulator pump *
- 9 Distributor *
- 10 Collector *

- 11 Bypass valve *
- 12 Domestic hot water tank *
- 13 Heat exchanger coil
- 14 Immersion heater
- FHL1...n Floor heating loops *
- M1...n Motorized valves *
- T1...n Room thermostat *

DC Inverter technology | Innovative design

Innovative design ensures less noise. 2 levels of quiet work mode, where the 2nd level of the quiet mode of operation is more quiet than the 1st.



1 | Suction surface concave design

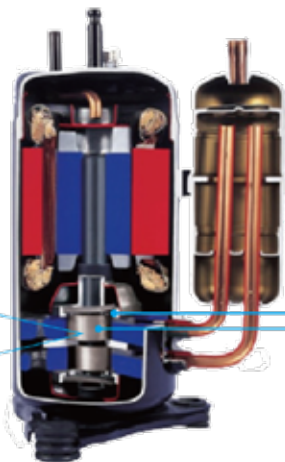
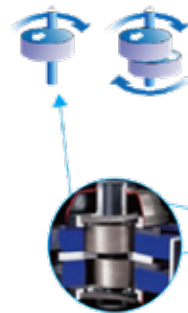
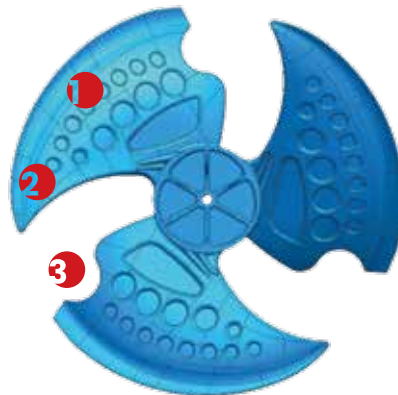
Reduce the size of wake shedding vortex
Improve the flow field on blade surface.
Reduce weight and improve efficiency.

2 | Leading edge thickening design

Reduce low frequency noise Effectively
improve the blade strength

3 | Trailing edge notch design

Change pressure distribution in the trailing edge of the blade. Reduce the noise of blade.



Better balance and extremely low vibration

- 2 balance weights
- Twin eccentric cams

Highly stable moving parts

- Optimize compressor drive technology
- Highly robust bearings
- Compact structure

1 | DC inverter motor fan

- CE certification
- Fan motor with continuously variable control
- Silent mode
- Low power consumption
- Degree of insulation E

2 | DC Inverter kompresor

- CE certification
- Wide operating frequency
- Double rotating compressor
- Spray cooling control
- Compact structure

3 | DC Inverter water pump *

- CE certification
- High degree of efficiency
- Big pump head
- Degree of insulation F
- Level of protection IPX4D

* 18 ~ 30 kW monoblock unit - water pump has three speed options, but the units use only one of them



Specifications

Outdoor unit		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		220-240 V / 1 Ph / 50 Hz						380-415 V / 3 Ph / 50 Hz					
Compressor		Type		Twin rotary									
Outdoor fan		Motor type		DC fan									
		Number of fans		1									
Air side heat exchanger		Type		Fin-coil									
Refrigerant		Type (GWP)		R32 (675)									
		Charged volume (kg)		1.50		1.65		1.84					
Sound power Level ¹ (dB)		58		59		60		64		65		68	
Unit dimension - W × H × D (mm)		1008 × 712 × 426				1118 × 865 × 523							
Packing dimension - W × H × D (mm)		1065 × 800 × 485				1180 × 890 × 560							
Gross / net težina (kg)		64 / 58		88 / 77				125 / 112					
Pipe size O.D. (mm)		Liquid		6.35		9.52							
		Gas		15.88		15.88							
Connection method		Flared											
Between indoor and outdoor unit (m)		Height difference		Max. 20									
		Pipe length		2 - 30									
Additional refrigerant		Chargment (g / m)		20		38							
		Max. pipe length for no additional refrigerant (m)		15									
Outdoor air temperature range		Cooling (°C)		-5 ~ 43									
		Heating (°C)		-25 ~ 35									
		DHW (°C)		-25 ~ 43									

Note:

1. Testing standard: EN12102-1.

Abbreviations:

DWH: Domestic Hot Water
GWP: Global Warming Potential

Outdoor unit		HPS-22CH65AERI/O1s R32	HPS-28CH84AERI/O1s R32	HPS-34CH100AERI/O1s R32	HPS-41CH120AERI/O3s R32	HPS-48CH140AERI/O3s R32	HPS-53CH155AERI/O3s R32
Hydronic box model HPS-		42HM65AERI/11s	84HM100AERI/11s		120HM155AERI/11s		
Heating ¹	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 ²	Capacity (kW)	6.35	8.20	10.0	12.3	14.2	16.0
	Rated input (kW)	1.69	2.08	2.63	3.24	3.89	4.44
	COP	3.75	3.95	3.80	3.80	3.65	3.60
Heating ³	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
Hladienje ⁴	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
Hladienje ⁵	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	4.22	2.55	2.45
Seasonal space heating energy efficiency class ⁶	Water outlet at 35 °C	A+++					
	Water outlet at 55 °C	A++					

Notes:

1. Evaporator air in 7 °C, 85 % R.H., Condenser water in / out 30 / 35 °C **2.** Evaporator air in 7 °C, 85 % R.H., Condenser water in / out 40 / 45 °C **3.** Evaporator air in 7 °C, 85 % R.H., Condenser water in / out 47 / 55 °C **4.** Condenser air in 35 °C. Evaporator water in / out 23 / 18 °C **5.** Condenser air in 35 °C. Evaporator water in / out 12 / 7 °C **6.** Seasonal space heating energy efficiency class testes in average climate general conditions. **7.** Relevant EU standards and legislation: EN14511; EN14825; EN50564; EN12102; (EU) No 811 / 2013; (EU) No 813 / 2013; OJ 2014 / C 207 / 02:2014.

Hydronic box model HB-A		HPS-42HM65AERI/11s	HPS-84HM100AERI/11s	HPS-120HM155AERI/11s
Power supply		220-240 V / 1 Ph / 50 Hz		
Sound power level ¹ (dB)		38	42	43
Unit dimension - W × H × D (mm)		420 × 790 × 270		
Packing dimension - W × H × D (mm)		525 × 1050 × 360		
Gross / net weight (kg)		37 / 43		39 / 45
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	
	Refrigerant gas (mm)	15.88	15.88	
Safety valve (MPa)		0.3		
Flow switch (m ³ / h)		0.36		0.6
Total water volume (L)		5		
Backup E-heater ²	Standard mounted (kW)	-		
	Optional (kW)	3 / 9	3 / 9	3 / 9
	Capacity steps	1 / 3	1 / 3	1 / 3
	Power supply	3.0 kW	220-240 V / 1 Ph / 50 Hz	
	9.0 kW	380-415 V / 3 Ph / 50 Hz		
Room temperature range (°C)		5 ~ 35		
Water outlet temperature range	Cooling (°C)	5 ~ 25		
	Heating (°C)	25 ~ 65		
	DHW - tank (°C)	30 ~ 60		

Note:

1. Testing standard: EN12102-1. **2.** For three phase type backup electric heater, 3.0 / 6.0 kW can be achieved by changing DIP switch when hydronic box is equipped with 9.0 kW.

Outdoor unit		HPM-22CH65AERis R32-1H3	HPM-28CH84AERis R32-1H3	HPM-34CH100AERis R32-1H9	HPM-41CH120AERis R32-3H9	HPM-48CH140AERis R32-3H9	HPM-53CH155AERis R32-3H9	
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 A7W45	Capacity (kW)	6.30	8.10	10.0	12.3	14.1	16.0	
	Rated input (kW)	1.70	2.10	2.67	3.32	3.92	4.57	
	COP	3.70	3.85	3.75	3.70	3.60	3.50	
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 A2W45	Capacity (kW)	5.80	7.40	7.85	10.60	11.50	12.70	
	Rated input (kW)	1.93	2.28	2.45	3.53	4.04	4.46	
	COP	3.00	3.25	3.20	3.00	2.85	2.85	
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-7W45	Capacity (kW)	5.40	6.60	7.35	10.20	11.70	12.80	
	Rated input (kW)	2.25	2.59	2.88	4.25	4.98	5.69	
	COP	2.40	2.55	2.55	2.40	2.35	2.25	
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 ⁶	Water outlet at 35 °C	ηs	195%	205%	204%	189%	185%	182%
		Class	A+++					
	Water outlet at 55 °C	ηs	138%		136%	135%	135%	133%
		Class	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	

*
A: Outdoor temperature
W: Outlet water temperature

Note:
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

Abbreviations:
MOP: Maximum Overcurrent Protection
MCA: Minimum Circuit Amps

Outdoor unit		HPM-22CH65AERis R32-1H3	HPM-28CH84AERis R32-1H3	HPM-34CH100AERis R32-1H9	HPM-41CH120AERis R32-3H9	HPM-48CH140AERis R32-3H9	HPM-53CH155AERis R32-3H9	
Power supply		220-240 V / 1 Ph / 50 Hz			380-415 V / 3 Ph / 50 Hz			
MOP (A)		18	19	19	14	14	14	
MCA (A)		14	16	17	10	11	12	
Kompresor	Type	Twin rotary						
	Poles	6	6			6		
	Speed range (rps)	10 ~ 120						
	Capacity (60 rps)	5450	7100			14000		
	Input (60 rps)	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	2.4	2			3		
	Number of circuits	7	8			12		
Refrigerant	Type (GWP)	R32 (675)						
	Charged volume (kg)	1.40				1.75		
Throttle type		Electronic expansion valve						
Sound power level	Heating A7W35 (dB (A))	58	59	60	65	65	69	
	Heating max (dB (A))	61	61	62	65	65	69	
	Heating slince mode 1 (dB (A))	56	57	58	62	62	63	
	Heating slince mode 2 (dB (A))	53	55	55	56	56	56	
	Cooling A35W18 (dB (A))	58	60	60	64	64	69	
	Cooling max (dB (A))	61	61	62	65	65	69	
	Cooling slince model (dB (A))	57	57	58	62	62	63	
	Cooling slince mode2 (dB (A))	54	54	54	56	56	56	
Unit dimension - W × H × D (mm)		1295 × 792 × 429			1385 × 945 × 526			
Packing dimension - W × H × D (mm)		1375 × 945 × 475			1465 × 1120 × 560			
Gross / net weight (kg)		121 / 89		121 / 148		160 / 188		
Loading quantity - HQ / 40 FT / 20 FT (pcs)		104 / 104 / 50		64 / 64 / 32				
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"			R 5 / 4"			
Safety valve (MPa)		0.3						
Flow switch (m³ / h)		0.36			0.6			
Total water volume (L)		5						
Backup E-heater	* Optional (kW)	3.0	3.0	9.0	9.0	9.0	9.0	
	Capacity steps	1						
	Power supply	3.0 kW			220-240 V / 1 Ph / 50 Hz			
		6.0 / 9.0 kW			380-415 V / 3 Ph / 50 Hz			
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						

VIVAX
Simply good.

MSAN Grupa d.o.o.
Exclusive distributor for Croatia

Buzinski prilaz 10
10010 Buzin, Zagreb, Croatia
T +385 1 3654 900
E vivax@msan.hr

vivax.com



VIVAX PARTNER