



Molisi Technology was established since 2004, focusing on heat pump R&D, manufacturing and providing comprehensive energy-saving solutions.

Molisi Technology are committed to reducing CO2 emission with our efforts. Through 20 years,we have built up 20+ engineer team and TQM QC team. Each heat pump will be inspected by metal halogenation and tested performance for each batch.We have registered European Union trademark ‘Vegardis’ to promote heat pumps. Vegardis has insisted on producing heat pumps exceeding customer expectations.

Main products:

- R32 refrigerant low temperature air to water heat pumps
- R32 refrigerant ultra low temperature air to water heat pumps
- R290 refrigerant air to water heat pumps

Advantage:

- 15 years heat pump manufacturing experience
- OEM,ODM service
- With CE approval,ERP A+++
- Owns 30,000㎡factory
- with ISO9001,ISO14001,ISO45001 approval

As an international enterprise targeting the global market, Vegardis heat pump attaches great importance to high-end global market, Till now our products have exported to over 30 countries and regions.



INVERTER AIR SOURCE HEAT PUMP

FOR RESIDENTIAL HEATING HOT WATER AND COOLING

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R290 refrigerant air to water heat pumps



Model	/	VLKS-09CPC2B	VLKS-12CPC2B	VLKS-15CPC2B	VLKS-22CPC2B
Power Supply	/	220V-240V~/50Hz or 380V-415V~/3N/50Hz			
Heating Condition-Ambient Temp.(DB/WB): 7/6℃, Water Temp.(In/Out): 30/35℃					
Heating Capacity Range	kW	2.90~9.05	4.20~12.00	4.5~15.10	8.0~21.50
Heating Power Input Range	kW	0.62~1.80	0.80~2.90	0.90~3.63	1.50~5.40
COP	kW/kW	4.25~5.20	4.23~5.22	4.15~5.25	4.00~5.21
Heating Condition-Ambient Temp.(DB/WB): 7/6℃, Water Temp.(In/Out): 47/55℃					
Heating Capacity Range	kW	3.00~8.10	4.05~11.00	4.35~14.2	7.6~19.00
Heating Power Input Range	kW	1.05~2.95	1.38~3.05	1.30~4.82	2.30~6.80
COP	kW/kW	2.80~3.35	2.90~3.37	2.95~3.36	2.85~3.35
Cooling Condition-Ambient Temp.(DB/WB): 35/24℃, Water Temp.(In/Out): 12/7℃					
Cooling Capacity Range	kW	1.50~6.0	3.0~8.0	5.5~10.5	7.0~17.0
Cooling Power Input Range	kW	0.60~2.26	0.94~3.02	1.72~3.35	2.15~6.30
EER	kW/kW	2.65~3.05	2.66~3.21	2.70~3.15	2.71~3.20
Max. Power Input	kW	3.7	4.5	5.5	7.5
Max. Current Input	A	16.1	19.6	23.9	32.6
ErP Level (35℃)	/	A+++	A+++	A+++	A+++
ErP Level (55℃)	/	A++	A++	A++	A++
Water Flow	m³/h	1.55	2.06	2.6	3.7
Refrigerant	/	R290	R290	R290	R290
Proper Input	kg	0.50	0.70	1.00	1.20
CO2,Equivalent	Ton	0.0015	0.0021	0.0030	0.0036
Sound Pressure at 1m Distance	dB(A)	48	50	53	56
Operating Ambient Temperature	℃	Heating Mode : -25~45 / Cooling Mode : 15~45			
Max. Water Temperature	℃	75			
Compressor Brand	/	GMCC			
Water Side Heat Exchanger	/	Plate type			
Water Side Heat Exchanger Brand	/	ALFA LAVAL / WEIM			
Cabinet Type	/	Galvanized sheet			
Fan Motor Type	/	Brushless DC motor			
Fan Quantity	/	1	1	1	2
Water Connection	/	G1.2"	G1.2"	G1.2"	G1.2"
Circulation Pump	brand	SHIMGE			
Circulation Pump Water Head	m	9	9	9	12
Unit Dimension(L/W/H)	mm	1230×480×825	1230×480×825	1280×480×928	1180×480×1475
Shipping Dimensions(L/W/H)	mm	1389×612×1014	1389×612×1014	1439×612×1115	1339×612×1664
Net/Gross weight	kg	105/120	120/135	130/150	185/205

The above data is for reference only; specific data is subject to the product nameplate.

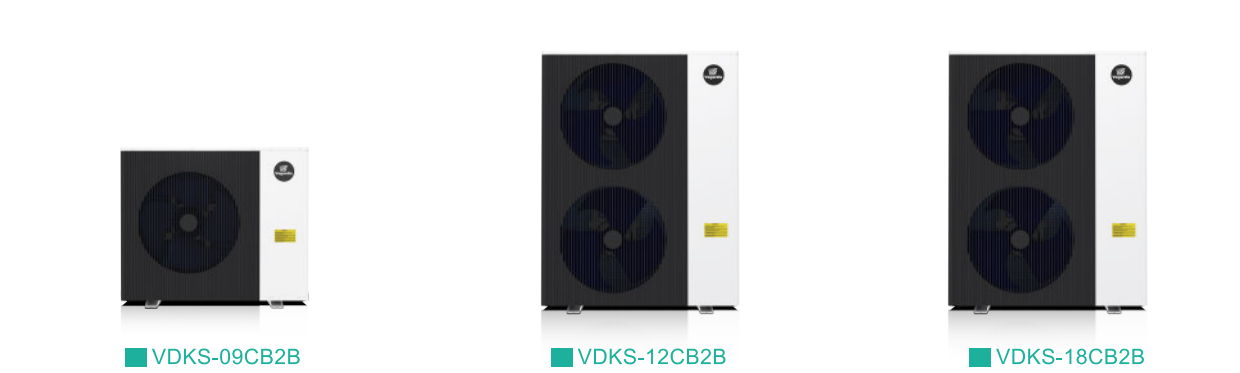
R32 refrigerant low temperature air to water heat pumps



Model	/	VLKS-06CPB2B	VLKS-09CPB2B	VLKS-12CPB2B	VLKS-16CPB2B
Heating output/Power input/COP A7/W35℃	KW/KW/–	6.21/1.26/4.93	8.9/1.81/4.92	12/2.5/4.8	16.3/3.34/4.88
Cooling output/Power input/EER A35/W18℃	KW/KW/–	6.35/1.6/3.97	8.1/2.08/3.89	11/3.12/3.53	15.6/4.3/3.63
Compressor		Mitsubishi Twin Rotary			
Max current	A	13	13	19	25
Electric supply		230V/50–60Hz	230V/50–60Hz	230V/50–60Hz	230V/50–60Hz
Max LWT	℃	60			
Operation temperature range	℃	-25-43			
Refrigerant		R32			
Air side Heat Exchanger		Copper and Hydrophilic Aluminum Fin			
Air flow	M³/h	2100	2400	2900	5600
Water side Heat Exchanger		Donglei Plate Heat Exchanger			
Water In/Out pipe		DN25 (1")	DN25 (1")	DN25 (1")	DN32
Water flow	M³/h	≥0.8	≥1.2	≥1.8	≥2.3
Permitted pressure		≤0.8MPa			
Product dimension (L × H × D)	mm	1115x710x425	1115x710x425	1115x960x425	1115x1280x425
Package dimension (L × H × D)	mm	1160x860x520	1160x860x520	1160x1110x520	1160x1440x520
Net weight	Kg	90	90	105	140
Gross weight	Kg	102	102	115	140
Noise level	dB(A)	46	46	50	52
Water pump		Wilo			
Loading quantity20' /40'	pc	44/88	44/88	44/88	22/44

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R32 refrigerant ultra low temperature air to water heat pumps



Model	V/Ph/H	VDKS-09CB2B	VDKS-12CB2B	VDKS-18CB2B
Power supply	KW	220V/50Hz		
Heating capacity A7/W35℃	KW	9.20	12.10	18.70
Power Input A7/W35℃		1.99	2.50	4.02
COP A7/W35℃		4.61	4.84	4.67
SCOP average climate conditions A7/W35℃		4.68	4.75	4.50
SEER LWT at 7℃	A	4.65	4.72	4.47
Maximum overcurrent protection		18.1	22.7	36.4
Refrigerant		R32	R32	R32
Compressor		Mitsubishi		
Electronic expansion valve		Saginomiya	Saginomiya	Saginomiya
Sound power level	dB	45	46	58
Water pipe connection	Inlet/outlet	DN25(1")	DN25(1")	DN25(1")
Net weight	Kg	68	98	128
Product Dimension(LxDxH)	mm	960x380x820	960x380x1270	960x380x1270
Packing dimension(LxDxH)	mm	1040x505x970	1040x505x1420	1040x505x1420
Loading quantity 20GP	mm	44	22	22
Loading quantity 40GP	mm	88	46	46
Operation temperature	Cooling	-5~43℃		
Operation temperature	Heating	-25~35℃		
Operation temperature	DHW	-25~43℃		

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