

POMPE DI CALORE SERIE L

UNISPLIT-PLUS & AQUAMAX



Energy efficiency level
A+++/A+++ (35/55°C water outlet)



Heating, cooling and
hot water trigeneration



Operates in outdoor
temperatures as low as -30 °C



Can be connected to
Tuya WIFI module



The maximum water temperature
is 75°C, meeting the water
needs of multiple points



The system water circulation is
more comfortable, cooling - cool
but not cold; heating - warm but not dry



UNISPLIT-PLUS R290



Pompa di calore monoblocco R290 DCinverter per riscaldamento, raffreddamento e acqua calda sanitaria

R290 DCinverter monobloc heatpump for heating & cooling & Hot water



Diagramma di installazione

- Multiprotezione (antiesplorazione, sicurezza, affidabilità)
- Scatola elettrica indipendente e isolata, separata dal refrigerante
- Valvola di sicurezza antigoccia con scarico rapido
- Saldatura a brasatura per tenuta ermetica

Antigelo e sbrinamento

- Tecnologie antigelo (pompa, circolazione, riscaldamento interno)
- Monitoraggio automatico temperatura
- Riscaldamento automatico sotto i 2°C (ambiente) e 7°C (acqua)
- Sbrinamento automatico in base a temperatura ambiente e tubazioni

Specifications

Model			8kW	10kW	12kW	14kW	16kW
Intended use of the units			Low and medium temperature application				
Power supply			220-240/1/50				
Heating (AT7/6, WT30/35)	Capacity	kW	8	10	12	14	16
	Rated power input	kW	1.62	2.08	2.45	2.74	3.25
	COP	/	4.95	4.8	4.9	5.11	4.92
Heating (AT7/6, WT47/55)	Capacity	kW	8	10	12	14	16
	Rated power input	kW	2.42	3.03	3.43	4.24	5
	COP	/	3.3	3.3	3.5	3.3	3.2
Cooling (AT35, WT23/18)	Capacity	kW	8	10	11.4	14	16
	Rated power input	kW	1.63	2.15	2.78	2.74	3.33
	EER	/	4.9	4.65	4.1	5.11	4.8
Cooling (AT35, WT12/7)	Capacity	kW	8	10	11.4	14	16
	Rated power input	kW	2.5	3.33	4.07	4.52	5.51
	EER	/	3.2	3.0	2.8	3.1	2.9
SCOP	Average climate 35°C		4.9	4.9	4.9	5.2	4.9
	Average climate 55°C		3.85	3.85	3.85	3.9	3.9
Season space heating energy efficiency class	Average climate 35°C		A+++	A+++	A+++	A+++	A+++
	Average climate 55°C		A+++	A+++	A+++	A+++	A+++
SEER	Fan coil application 7°C		4.5	4.5	4.5	5.1	5.1
	Cooling floor application 18°C		6.3	6.5	6.2	7	7
Refrigerant	Type	/	R290				
	Charge	kg	1.3	1.3	1.35	1.95	1.95
E-Heater backup		kW	3	3	3	6	6
Sound power level (EN12102-1)		dB	65	65	68	68	68
	Rated water flow	m ³ /h	1.38	1.72	2.06	2.41	2.75
Water pump	Total water head	m	12.5	12.3	12	11.5	11.1
	Available water head	m	9	8.8	8.5	8	7.6
Maximum working pressure of refrigerant		MPa	0.85/3.2				
Water side safety valve		MPa	0.6	0.6	0.6	0.6	0.6
Water proof grade		/	IPX4				
Water side connection		in	1	1	1	1	1
Net dimension	W*D*H	mm	1312*470*990			1312*470*1370	
Package dimension	W*D*H	mm	1362*567*1167			1362*567*1560	
Ambient temperature range	Cooling	°C	10-48				
	Heating	°C	-30-35				
	DHW	°C	-30-43				
Leaving water temperature range	Cooling	°C	5-25				
	Heating	°C	24-75				
	DHW	°C	30-60				

R32

Heating+Cooling+Hot water

Pompa di calore monoblocco R32 DCinverter per riscaldamento, raffreddamento e acqua calda sanitaria
R32 DCinverter monobloc heatpump for heating & cooling & Hot water

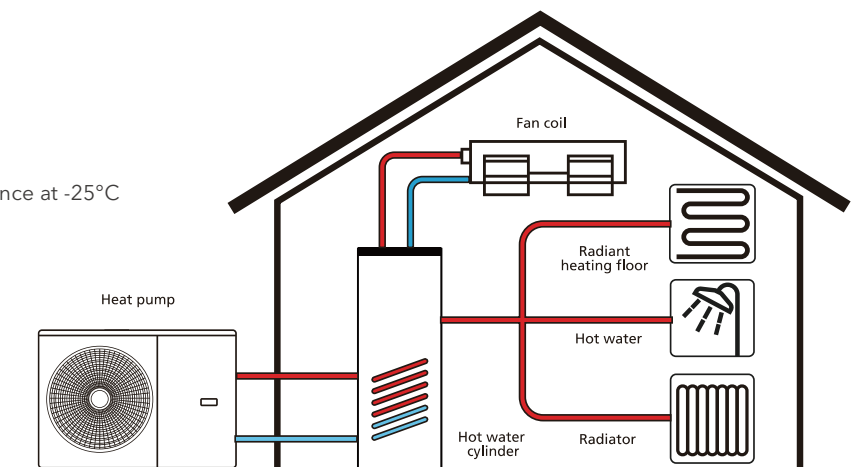


Caratteristiche

- + Classe energetica: A+++
- + Funzioni multiple: riscaldamento, raffreddamento e acqua calda sanitaria
- + Compressore e motore della ventola a inverter DC
- + Tecnologia twin-rotary per prestazioni stabili fino a -25°C
- + Controller cablato con controllo Wi-Fi intelligente
- + Ecologico, refrigerante R32, GWP inferiore rispetto all'R410A
- + Pompa dell'acqua inclusa, comoda per l'installazione

Features

- + Energy Class: A+++
- + Multi functions of heating, cooling and hot water
- + Full DC inverter compressor and fan motor
- + Twin-rotary technology to ensure a stable performance at -25°C
- + Wired controller with Wifi smart control
- + Eco friendly, R32 refrigerant, less GWP than R410A
- + Water pump included, convenient for installation



UNISPLIT-PLUS R32



Pompa di calore monoblocco R32 DCinverter per riscaldamento, raffreddamento e acqua calda sanitaria

R32 DCinverter monobloc heatpump for heating & cooling & Hot water

Specifications

Model		6	9	12	16	19	
Power supply	V/Ph/H	220-240/1/50			220-240/1/50 or 380-400/3/50		
Heating A 7 C W30/35 C	Capacity	kW	6.21	8.9	12.0	16.3	18.7
	Rated input	kW	1.26	1.81	2.50	3.34	4.06
	COP		4.93	4.92	4.8	4.88	4.61
Heating A 7 C W40/45 C	Capacity	kW	5.91	8.46	11.29	15.31	17.78
	Rated input	kW	1.48	2.12	3.08	3.88	4.75
	COP		3.99	3.99	3.67	3.95	3.74
Heating A 7 C W47/55 C	Capacity	kW	5.63	8.06	10.75	14.58	16.93
	Rated input	kW	1.67	2.41	3.31	4.39	5.16
	COP		3.37	3.35	3.25	3.32	3.28
Cooling A 35 C W28/18 C	Capacity	kW	6.35	8.1	11.0	15.6	16.6
	Rated input	kW	1.6	2.08	3.12	4.3	4.5
	EER		3.97	3.89	3.53	3.63	3.69
Cooling A 35 C W12/7 C	Capacity	kW	4.9	5.9	8.1	11.4	12.0
	Rated input	kW	1.65	2	2.83	4	4.2
	EER		2.97	2.95	2.86	2.85	2.86
Seasonal space heating energy efficiency class	LWT at 35 C		A+++	A+++	A+++	A+++	A+++
	LWT at 55 C		A++	A++	A++	A++	A++
SCOP	LWT at 35 C		4.51	4.51	4.69	4.45	4.45
	LWT at 55 C		3.28	3.28	3.34	3.54	3.54
SEER	LWT at 7 C		4.32	4.3	4.26	4.22	4.18
MOP (Maximum overcurrent protection)	A		14.8	14.8	16	Single phase 25 Tri-phase 8.1	Single phase 25 Tri-phase 8.1
Water pressure drop	kPa		45	45	40	40	40
Refrigerant system pressure (Max./Min.)			4.2/0.02				
Refrigerant	Type		R32	R32	R32	R32	R32
	Charged	kg	1.8	1.8	2.35	2.8	2.8
GWP value			675	675	675	675	675
Equivalent CO ₂	Ton		1.215	1.215	1.586	1.89	1.89
Water side heat-exchanger			Plate heat exchanger				
Sound power level (EN12102-1)	dB		46	46	50	52	52
Anti-UV cover			NO				
Water resistance			IPX4				
Water pipe connection	Inlet	mm	DN25(1")	DN25(1")	DN25(1")	DN25(1")	DN25(1")
	Outlet	mm	DN25(1")	DN25(1")	DN25(1")	DN25(1")	DN25(1")
Net/Gross weight	Net/Gross	kg	90/102	90/102	105/115	140/150	140/150
Dimension (LxHxD)	Net	mm	1115*710*425	1115*710*425	1115*960*425	1115*1280*425	1115*1280*425
	Packing	mm	1160*860*520	1160*860*520	1160*860*520	1160*1440*520	1160*1440*520
	Loading quantity (20GP/40GP)	sets	44/88	44/88	44/88	22/44	22/44
Operating temperature	Cooling	°C	-5 to 43				
	Heating	°C	-25 to 35				
	DHW	°C	-25 to 43				



New R290 Refrigerant, More Eco-friendly

AIR SOURCE HEAT PUMP WATER HEATER

● *Wall-mounted*



New R290
Refrigerant



NO-ODP



GWP



High water
temperature



ECO

AQUAMAX 90-110-150



Scaldacqua pensile in pompa di calore
 Bollitore in acciaio S235 JR con trattamento interno di vetrificazione.
 Wall mounted heat pump for domestic hot water
 S235JR Steel Boiler with internal enameling treatment.

Model			
Tank volume (L)	82L	102L	149L
installation type	hanging	hanging	hanging
Rated voltage/ frequency (V/Hz)	220-240V/50Hz	220-240V/50Hz	220-240V/50Hz
Tank rated pressure (bar)	8	8	8
Corrosion protection	Magnesium rod	Magnesium rod	Magnesium rod
Water proof grade	IPX4	IPX4	IPX4
Assembled System			
inverter	No	No	No
Electric backup power (W)	1200W	1200W	1200W
Maximum power input (W)	1570	1570	1570
Default temperature setting (°C)	56	56	56
Temperature setting range with heater (°C)	35°C-75°C	35°C-75°C	35°C-75°C
Temperature setting range heat pump only (°C)	65	65	65
Refrigerant type / Weight (kg)	R290/0.12kg	R290/0.12kg	R290/0.12kg
Ozone Depletion Potential (ODP)	0	0	0
Global Warming Potential (GWP)	3	3	3
Noise power dB(A) @7°C (in) 【Standard】	50dB(A)	50dB(A)	50dB(A)
Working temperature - heat pump only (°C)	(-) 7°C-45°C	(-) 7°C-45°C	(-) 7°C-45°C
Working temperature - system (°C)	(-) 7°C-45°C	(-) 7°C-45°C	(-) 7°C-45°C
Performance 7 /6 °C (EN16147)			
COP@7 °C (EN16147)	2.91	2.79	3.028
heating energy efficiency class	A+	A+	A+
Heating up time (h) (@7°C)	4.44	5.64	8.62
Tapping cycle (EN16147)	M	M	L
V40	103.8	133	190
Performance 14 /13 °C (EN16147)			
COP@14 °C (EN16147)	3.074	3.319	3.392
heating energy efficiency class	A+	A++	A+
Heating up time (h) (@14°C)	3.8	4.79	7.18
Tapping cycle (EN16147)	M	M	L
Maximum volume of usable hot water (L) V40 (EN16147)	105.7	131.9	184.3
Dimensions and connections			
Water outlet connection	R1/2" M	R1/2" M	R1/2" M
Water inlet	R1/2" M	R1/2" M	R1/2" M
Safety valve connection	R1/2" M	R1/2" M	R1/2" M
Product Dimensions (mm) (tank unit/external unit)	492*547*1184	492*547*1334	492*547*1694
Packing dimensions with pallet (mm) (tank unit/external unit)	/	/	587*587*1764
Packing dimensions without pallet (mm) (tank unit/external unit)	587*587*1247	587*587*1397	587*587*1894
Net weight&Gross weight (kg)	53/60kg	57/64kg	69/88kg



AQUAMAX AQUAMAX+

Scaldacqua in pompa di calore singolo serpentino
Bollitore con serbatoio interno in acciaio inox o smalto per garantire la durata e la protezione dalla corrosione.

Single coil heat pump tank for domestic hot water
Boiler with stainless steel or enamel inner tank for durability and corrosion protection.

Model		
Tank volume (L)	192L	246L
installation type	landing	landing
Rated voltage/ frequency (V/Hz)	220-240V/50Hz	220-240V/50Hz
Tank rated pressure (bar)	7	7
Corrosion protection	Magnesium rod	Magnesium rod
Water proof grade	IPX4	IPX4
Assembled System		
inverter	Yes	Yes
Electric backup power (W)	1500W	1500W
Maximum power input (W)	2035	2035
Default temperature setting (°C)	56	56
Temperature setting range with heater (°C)	35°C~75°C	35°C~75°C
Temperature setting range heat pump only (°C)	65	65
Refrigerant type / Weight (kg)	R290/0.15kg	R290/0.15kg
Ozone Depletion Potential (ODP)	0	0
Global Warming Potential (GWP)	3	3
Noise power dB(A) @7°C (in) 【Standard】	50dB(A)	50dB(A)
Working temperature - heat pump only (°C)	(-) 7°C~45°C	(-) 7°C~45°C
Working temperature - system (°C)	(-) 7°C~45°C	(-) 7°C~45°C
Performance 7 /6 °C (EN16147)		
COP@7 °C (EN16147)	3.268	3.204
heating energy efficiency class	A+	A+
Heating up time (h) (@7°C)	8.33	10.51
Tapping cycle (EN16147)	L	XL
V40	221	313.6
Performance 14 /13 °C (EN16147)		
COP@14 °C (EN16147)	3.524	3.452
heating energy efficiency class	A+	A+
Heating up time (h) (@14°C)	6.91	9.04
Tapping cycle (EN16147)	L	XL
Maximum volume of usable hot water (L) V40 (EN16147)	223	313
Dimensions and connections		
Water outlet connection	Rp 3/4 Large Flow	Rp 3/4 Large Flow
Water inlet	Rp 3/4 Large Flow	Rp 3/4 Large Flow
Safety valve connection	Rp 3/4	Rp 3/4
Product Dimensions (mm) (tank unit/external unit)	600*620*1694	600*620*1989
Packing dimensions with pallet(mm) (tank unit/external unit)	736*695*1940	736*695*2250
Packing dimensions without pallet(mm) (tank unit/external unit)	/	/
Net weight&Gross weight (kg)	87/110kg	99/122kg



Sunerg Solar Energy Srl

info@sunergsolar.com
www.sunergsolar.com
+39 075 85 40 018

WWW.SUNERGSOLAR.COM