

SHERPA

HEAT PUMPS

Innovative and specific solutions for each climatic zone



Specific solutions for each European climate

To achieve maximum efficiency and reliability in every project

Warm climatic zones, Average and Cold

The relevant European regulations identify, within the reference territory, 3 different climatic zones, in which the project temperatures relating to indoor comfort systems are profoundly different. A comparative study commissioned by Olimpia Splendid has shown how each of these climates determines a different distribution of the thermal and cooling load inside buildings and a specific behaviour of the heat pumps.

Specific configurations to maximise efficiency and comfort

To optimize the efficiency and output power of the heat pumps according to the external temperature, Olimpia Splendid offers the possibility to choose between different types of heat pumps, specially designed for the reference European climates.





Aquadue patented technology

Innovation that ensures simultaneously comfort and DHW



Dual cooling cycle

In Olimpia Splendid heat pumps equipped with Aquadue technology, the two interconnected cooler cycles make it possible to make the heating/cooling independent from the DHW production, allowing it to operate in parallel. A feature that avoids interruptions in the provision of home comfort.

Domestic Hot Water up to 75°C

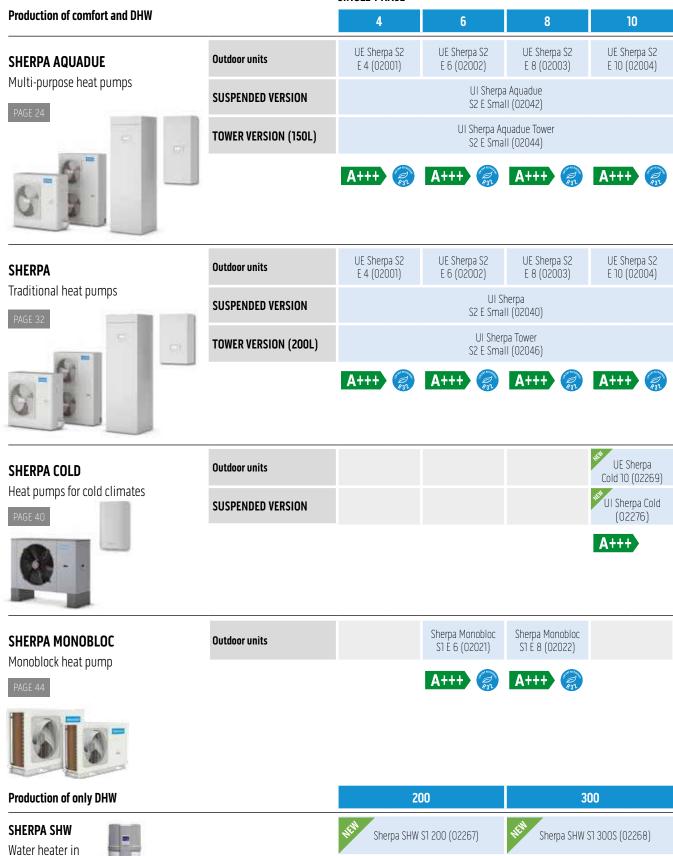
The dual cooling cycle present in the Aquadue models also allows the production of DHW at a high temperature (up to 75°C), regardless of the external climatic conditions. Thus it is possible to reduce the volume of the storage tank up to 30% and to avoid highly energy-intensive anti-legionella cycles (normally carried out with the use of electric heating elements).

Coverage of the renewable quantity for the production of DHW

Thanks to the efficient management of heat, Aquadue technology facilitates the achievement, in buildings with a high energy class, of the coverage quantities from renewable energy without the installation of additional devices.

Heat pumps range

SINGLE-PHASE



heat pump



THREE-PHASE

12	14	15	16	10T	12T	14T	15T	16T	18T
UE Sherpa S2 12 (02005)	UE Sherpa S2 14 (02006)		UE Sherpa S2 16 (02007)		UE Sherpa S2 12T (02008)	UE Sherpa S2 14T (02009)		UE Sherpa S2 16T (02010)	
			l	UI Sherpa Aquaduo S2 Big (02043)	2				
			UI S	Sherpa Aquadue To S2 Big (02045)	ower				
A+++	A++		A++		A+++	A+++		A++	
UE Sherpa S2	UE Sherpa S2		UE Sherpa S2		UE Sherpa S2	UE Sherpa S2		UE Sherpa S2	
12 (02005)	14 (02006)		16 (02007)		12T (02008)	14T (02009)		16T (02010)	
				UI Sherpa S2 Big (02041)					
				UI Sherpa Tower S2 Big (02047)					
A+++	A++		A++		A+++	A+++		A++	
UE Sherpa		UE Sherpa		UE Sherpa	UE Sherpa		UE Sherpa		UE Sherpa
Cold 12 (02271) **UI Sherpa		Cold 15 (02273)		Cold 10T (02270)			Cold 15T (02274)		Cold 18T (02275)
Cold (02276)		Cold (02277)			rpa Cold 276)		UI Sherpa Cold (02277)		UI Sherpa Cold (02278)
A+++		A+++		A+++	A+++		A+++		A+++
Sherpa Monobloc S1 E 12 (02023)			Sherpa Monobloc S1 E 16 (02025)		Sherpa Monobloc S1 E 12T (02024)			Sherpa Monobloc S1 E 16T (02026)	
A+++			A++		A+++			A++	

SHERPA AQUADUE





Multi-purpose split heat pumps, suspended and tower versions



DHW AND COMFORT AT THE SAME TIME

The two interconnected refrigerator cycles allow the decoupling of the heating/cooling from the DHW production, enabling them to operate in parallel, avoiding thus interruptions in the domestic comfort



DOMESTIC HOT WATER UP TO 75°C

The storage of DHW at high temperature makes it possible to reduce the volume of the storage tank by up to 30%, and to avoid energy-intensive consumption of the anti-Legionnaire's disease cycles, since they are normally carried out by the use of electric heating elements.



LOW GWP GAS

In sizes up to 10 kW, it uses the R32 refrigerant, characterised by greater efficiency and a greenhouse effect reduced by almost 70% (compared to R410A).



FEATURES

- · Inverter air-water heat pump
- **Energy efficiency class** in average climate heating up to: A+++ (35°C) and A++ (55°C)
- Powers available: 4 Powers with refrigerant R32 (4-6-8-10 kW single-phase) and 3 Powers with refrigerant R410A (12-14-16 kW single-phase and three-phase).
- **Production of DHW** (Domestic Hot Water) at high temperature, up to 75°C.
- **DHW management:** a water/water heat pump unit integrated in the internal unit supplies domestic hot water at high temperature regardless of the external climatic conditions.
- Absolute continuity availability of DHW: guaranteed by the redundancy of the dual cooling cycle system
- Anti-legionella cycles that can be avoided using the high temperature refrigeration cycle.
- Double stage electric heating elements as standard: activation of single or double heating element to support the heat pump by means of a simple electronic control configuration. Each stage is activated according to the actual

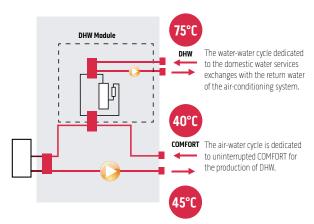
- need for thermal power, in order to optimise electricity consumption (supplied disabled by default).
- Configurable set points: two set points in cooling. Three set points in heating (one of which for DHW): the set points can also be selected via remote contact.
- **Holiday** and weekly programmer: heating/cooling, DHW, night-time.
- Climatic curves with external air temperature probe: two curves available, one for cooling and one for heating. The climatic curves are used to vary the temperature of the water supplying the system according to the external climatic conditions, adjusting the thermal needs of the building, in order to achieve energy savings.
- **Refrigerant gases:** R32* or R410A* for the reversible circuit dedicated to air conditioning and R134a** for the high temperature circuit dedicated to the production of DHW.
- Built-in 150 L high efficiency storage tank (tower version) with an exchange battery surface equal to 1.5 m2.

AQUADUE TECHNOLOGY

HEATING MODE

+DHW at high temperature

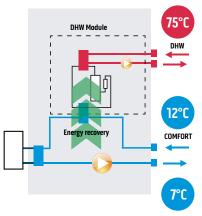
Production of DHW guaranteed regardless of the outside temperature for optimal operation all year round, not guaranteed by traditional heat pumps.



COOLING MODE

+DHW at a high temperature with energy recovery

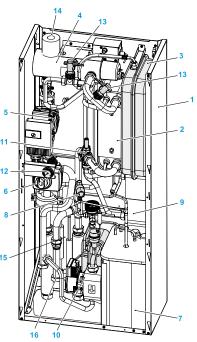
The energy normally dissipated outside is recovered and used to produce DHW up to 75°C.



^{*} Equipment not hermetically sealed containing fluorinated gases with an equivalent GWP of 675 (R32) and 2088 (R410A) ** Non-hermetically sealed equipment containing fluorinated gas with GWP equivalent 1430

OLIMPIA SPLENDID

LAYOUT, DIMENSIONS, WEIGHT



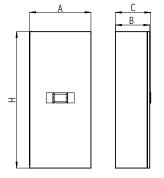
- 1. Support structure
- 2. System primary circuit heat exchanger
- **3.** System circuit expansion vessel
- Electric heating elements manifold
- **5.** Primary circuit electronic circulation pump
- 6. 3-way valve
- 7. DHW circuit compressor
- 8. DHW circuit expansion valve
- 9. DHW circuit heat exchanger
- 10. DHW circuit electronic circulation pump
- 11. Flow regulator
- 12. Pressure gauge
- 13. Flow switch
- 14. Automatic safety vent
- **15.** Refrigeration connections
- **16.** Hydraulic connections (system and external storage tank)



- **2.** Air conditioner circuit circulation pump
- **3.** Safety valves (DHW circuit 6 bar)
- **13 4.** Post-heating electric heating element manifold
 - **5.** Safety valves air conditioner circuit 3 bar
 - **6.** Electric heating elements safety thermostats
 - 7. Automatic air vent valves
 - **8.** Air conditioner circuit heat exchanger
 - 9. Flow switches
- **10.** Air conditioning circuit pressure gauge
- 11. DHW circuit filling unit
- 12. DHW circuit circulation pump
- 13. DHW circuit heat exchangers
- 14. DHW circuit expansion tank
- 15. DHW tank
- 16. Anode tester
- **17.** Air conditioner circuit expansion tank
- **18.** Regulator of evaporator water flow rate
- 19. DHW thermostatic accumulators

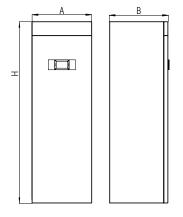
Suspended indoor units

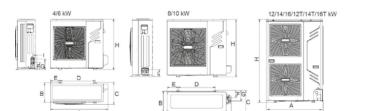
		4	6	8	10	12	14	16	12T	14T	16T
			SM.	ALL				В	IG		
Α	mm	500	500	500	500	500	500	500	500	500	500
В	mm	280	280	280	280	280	280	280	280	280	280
C	mm	288	288	288	288	288	288	288	288	288	288
Н	mm	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116
Weight	kg	70	70	70	70	72	72	72	72	72	72



Tower indoor units

			6	8	10	12	14	16	12T	14T	16T
			SM.	ALL				В	IG		
Α	mm	600	600	600	600	600	600	600	600	600	600
В	mm	600	600	600	600	600	600	600	600	600	600
Н	mm	1980	1980	1980	1980	1980	1980	1980	1980	1980	1980
Weight	kg	171	171	171	171	173	173	173	173	173	173





Outdoor units

			6	8					12T	14T	16T
			MON	OFAN				BI-	FAN		
Α	mm	974	974	1075	1075	900	900	900	900	900	900
В	mm	333	333	363	363	600	600	600	600	600	600
С	mm	378	378	411	411	348	348	348	348	348	348
D	mm	590	590	625	625	400	400	400	400	400	400
E	mm	164	164	184	184	360	360	360	360	360	360
F	mm	119	119	126	126	-	-	-	-	-	-
G	mm	179	179	179	179	-	-	-	-	-	-
Н	mm	857	857	965	965	1327	1327	1327	1327	1327	1327
I	mm	75	75	117	117	-	-	-	-	-	-
Weight	kα	57	57	67	67	aa	00	00	115	115	115

	SINGLE-PHASE R32 TECHNICAL DATA					4			6			8			10	
	ODU Sherpa S2 E					02001			02002			02003			02004	
	IDU Sherpa Aquadue S2 E IDU Sherpa Aquadue Tower S2 E					02042			02042 02044			02042 02044			02042 02044	
_	Compressor frequency				Minimum N	lominal	Maximum		Nominal		Minimum	Nominal	Maximum		Nominal	Maximum
	Heating output COP	a7/6 - w30/35 a7/6 - w30/35	(a) (a)	kW W/W	2.08	4.2 5.15	5.59	3.22	6.5 4.85	8.66	4.17	8.4 4.85	11.19	4.96	10 4.65	13.32
	Heating output	a2/1 - w30/35	(b)	kW		4.25	5.38	2.74	5.58	7.06	3.48	7.1	8.99	4.04	8.25	10.44
	COP	a2/1 - w30/35	(b)	W/W	-	3.9	-	-	3.88	-	-	3.88	-	-	3.6	-
	Heating output COP	a-7/-8 - w30/35 a-7/-8 - w30/35	(c)	kW W/W	2.23	4.8	5.23	2.79	6 2.94	6.53	3.28	7.05	7.67	3.81	8.2 2.95	8.93
		a-15/-16 - w30/35	(d)	kW		4.67	5.08	2.26	4.86	5.29	3.25	6.99	7.61	3.25	6.99	7.61
ANCE	COP	a-15/-16 - w30/35		W/W	-	2.3		-	2.27	-	-	2.34	-	-	2.34	-
PREFISE PERENRMANCE	Heating output (fancoils) COP (fancoils)	a7/6 - w40/45 a7/6 - w40/45	(f) (f)	kW W/W	2.08	4.2 3.65	5.59	3.15	6.35	8.46	3.99	8.05 3.73	10.72	4.89	9.85	13.12
PFR	Heating output (fancoils)	a2/1 - w40/45	(g)	kW	2.11	4.3	5.44	2.77	5.65	7.15	3.68	7.5	9.49	3.9	7.95	10.06
	COP (fancoils)	a2/1 - w40/45	(g)	W/W		3.05	-	-	3.02	-	-	3.15	-	-	3.04	-
ä	Heating output (fancoils) COP (fancoils)	a-7/-8 - w40/45 a-7/-8 - w40/45	(h) (h)	kW W/W		4.15 2.39	4.52	2.56	5.5	5.99	3.09	6.65 2.45	7.24	3.63	7.8	8.49
	Heating output (fancoils)	a-15/-16 - w40/45	(i)	kW	1.92	4.14	4.51	2	4.31	4.69	2.81	6.05	6.59	2.81	6.05	6.59
	· ,	a-15/-16 - w40/45		W/W		1.79	- F 27	- 2.40	1.77	7.01	- 4.40	1.92	- 10.24		1.92	- 12.51
	Cooling power EER	a35 - w23/18 a35 - w23/18	(I) (I)	kW W/W	2.31	5.6	5.27	3.46	6.45 4.88	7.91	4.48	8.35 4.67	10.24	5.47	10.2 4.25	12.51
	Cooling output (fancoils)	a35 - w12/7	(m)	kW	2.41	4.5	5.52	3.49	6.5	7.97	3.96	7.38	9.05	4.37	8.15	10
	EER (fancoils) Energy efficiency class in water heating 35°C	a35 - w12/7 Warmer Climate	(m)	W/W		3.32	-	-	2.95 A+++	-	-	3.02 A+++	-	-	2.95 A+++	-
	SCOP	Warmer Climate			_	6.52			6.52			6.69			6.69	
	s (Seasonal efficiency for space heating)	Warmer Climate		ηs %		257.7			257.7			264.6			264.6	
	Energy efficiency class in water heating 35°C SCOP	Average Climate Average Climate				4.77			A+++ 4.77			A+++ 4.79			A+++ 4.79	
	s (Seasonal efficiency for space heating)	Average Climate		ηs %		187.7			187.7			188.5			188.5	
	Energy efficiency class in water heating 35°C	Cold Climate				A++			A++			A++			A++	
SEFICIENCIES	SCOP s (Seasonal efficiency for space heating)	Cold Climate Cold Climate		ηs %		4.06 159.5			4.06 159.5			4.01 157.5			4.01	
	Energy efficiency class in water heating 55°C	Warmer Climate		110 70		100.0			A+++			A+++			A+++	
i.	3001	Warmer Climate		0/		4.28			4.28			4.29			4.29	
	s (Seasonal efficiency for space heating) Energy efficiency class in water heating 55°C	Warmer Climate Average Climate		ηs %		168.2 A++			168.2 A++			168.5 A++			168.5 A++	
	SCOP	Average Climate				3.34			3.34			3.28			3.28	
	s (Seasonal efficiency for space heating)	Average Climate		ηs %		130.6			130.6			128.0			128.0	
	Energy efficiency class in water heating 55°C SCOP	Cold Climate Cold Climate				2.77			2.77			2.66			2.66	
	s (Seasonal efficiency for space heating)	Cold Climate		ηs %		107.9			107.9			103.5			103.5	
FVFI	Indoor unit sound power Indoor unit sound pressure		(n)	dB(A)		41 35			41 35			41 35			41 35	
NOISE LEVEL	Outdoor unit sound pressure Outdoor unit sound power (nominal)		(11)	dB(A)		61			62			63			65	
Z	Outdoor unit sound pressure (nominal)		(0)	dB(A)		38			39			40			42	
	System circulator absorption Supply voltage indoor unit			W V/ph/Hz		3 - 87 -240/1/5	50	27	3 - 87 !0-240/1/5	in	27	3 - 87 20-240/1/5	in .	27	3 - 87 20-240/1/5	in
TRICAL DATA	Electrical data Maximum current absorbed indoor unit with additional active heating elements			A	1	18.00			18.00			18.00			18.00	
SICAI	Maximum power absorbed indoor unit with additional active heating elements Additional electric heating elements			kW kW		4.05			4.05 1,5+1,5			4.05			4.05 1,5+1,5	
EI ECT	Supply voltage outdoor unit			V/ph/Hz		.240/1/5	50	22	20-240/1/5	10	22	20-240/1/5	50	22	20-240/1/5	10
-	Outdoor unit maximum absorbed current			Α		14			14			19			19	
	Outdoor unit maximum absorbed power Compressor type			kW	Twin Rotary (2.65 DC Invert	ter 4 noles	Twin Rotar	2.65 v DC Invert	er 4 noles	Twin Rota	3.8	er 6 noles	Twin Rota	3.8	er 6 noles
╘	Refrigerant inlet connection diameter			"		4"-5/8"	ici i poics		1/4"-5/8"	er i pores		3/8"-5/8"	er o poics		3/8"-5/8"	ci o poics
COOLING CIRCLIT	Coolant gas		(p)	CMD		R32			R32			R32			R32	
JN 5	Global warming potential Refrigerant gas charge			GWP kg		675 1.55			675 1.55			675 1.65			675 1.65	
UUJ	Refrigerant piping length limit	min - max				2 - 29			2 - 29			2 - 30			2 - 30	
	Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018	max	(q)			29			29			20			20	
DRAULIC	Drinking water - DHW hydraulic connections System expansion valve capacity			"		1" 8			1" 8			1″ 8			1" 8	
至	Load profile according to EN16147					L			L 8			L 8			L	
æ	DHW production energy efficiency class	Average Climate				Α			Α			Α			Α	
	nHW (seasonal production efficiency DHW) Boiler volume	Average Climate		%		106 150			106 150			86 150			86 150	
DHW	Boiler interior surface material			,	DD12 glaze		S235JR	DD12 gla	azed steel	S235JR	DD12 gla	azed steel	S235JR	DD12 gl	azed steel	S235JR
NTEGRATED DHW BOILER	Heat exchanger in the boiler			m²	Hord	1.5	1000 FF	Hord	1.5	2025	Hozel	1.5	200 55	Hord -	1.5	ono FF -
TFGR	Type and thickness of boiler insulation Specific dispersion			W/K	Hard expanded	polyureth 2	iane 55 mm	Hard expand	ed polyureth 2	arie 55 mm	Hard expand	ded polyureth 2	ane 55 mm	Hard expand	ded polyureth 2	ane 55 mm
	DHW expansion tank capacity			I		7			7			7			7	
5	DHW hydraulic connections DHW circuit heating capacity	w35 - w55	(r)	" kW		3/4"			3/4"			3/4"			3/4" 2.15	
- NG	COP DHW circuit	w35 - w55 w35 - w55	(r)	W/W		3.12			3.12			3.12			3.12	
DHW COOLING	DHW circuit heating capacity	w12 - w55	(s)	kW		1.6			1.6			1.6			1.6	
) MHQ	COP DHW circuit Sound power indoor unit in heating/cooling + DHW circuit	w12 - w55	(s)	W/W dB(A)		2.58			2.58			2.58			2.58	
JARY [DHW circuit circulator absorption			W	3	3 - 43			3 - 43			3 - 43			3 - 43	
CONC	DHW circuit coolant gas		(t)	CILID		R134a			R134a			R134a			R134a	
SE	DHW circuit global warming potential DHW circuit coolant gas load			GWP kg		1430 0.35			1430 0.35			1430 0.35			1430 0.35	
	J Sireote coolaite 6a3 loud			1,78		5.50			0.00			0.00			0.00	

⁽a) Heating mode, external air temperature 7°C b.s./5°C b.u., inlet/outlet water temperature 30°C/35°C (b) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 30°C/35°C (c) Heating mode, external air temperature -15°C b.s./16°C b.u., inlet/outlet water temperature 30°C/35°C (d) Heating mode, external air temperature -15°C b.s./16°C b.u., inlet/outlet water temperature 30°C/35°C (f) Heating mode, external air temperature 2°C b.s./16°C b.u., inlet/outlet water temperature 40°C/45°C (g) Heating mode, external air temperature 2°C b.s./16°C b.u., inlet/outlet water temperature 40°C/45°C (f) Heating mode, external air temperature 3°C/5 b.s./16°C b.u., inlet/outlet water temperature 40°C/45°C (f) Heating mode, external air temperature 35°C, inlet/outlet water temperature 20°C/45°C (f) Louding mode, external air temperature 35°C, inlet/outlet water temperature 20°C/45°C (f) Louding mode, external air temperature 35°C, inlet/outlet water temperature 20°C/45°C (f) Louding mode, external air temperature 35°C, inlet/outlet water temperature 20°C/45°C (f) Louding mode, external air temperature 35°C, inlet/outlet water temperature 20°C/45°C (f) Louding mode, external air temperature 20°C/45°C (f) Louding mode

⁽m) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 12°C/7°C
(n) Sound pressure values measured at a distance of 1 m in a semi-anechoic chamber
(o) Sound pressure values measured at a distance of 4 m in free field distance
(p) Non-airtightally sealed equipment containing fluorinated GAS
(g) maximum length of the refrigeration pipes beyond which checks on the minimum surface of the installation rooms are necessary, check the technical manual
(f) Heating circuit water temperature 35°C/Outlet water temperature 55°C
(3) Heating circuit water temperature 12°C/Outlet water temperature 55°C
(t) Non-hermetically sealed equipment containing fluorinated GAS

	SINGLE-PHASE R410A TECHNICAL DATA			12			14			16			
	ODU Sherpa S2 IDU Sherpa Aquadue S2					02005 02043			02006 02043			02007 02043	
	IDU Sherpa Aquadue S2 IDU Sherpa Aquadue Tower S2					02045			02045			02045	
	Compressor frequency				Minimum	Nominal	Maximum	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum
	Heating output	a7/6 - w30/35	(a)	kW	4.77	12.1	15.79	5.52	14	18.27	6.12	15.5	20.23
	COP Heating output	a7/6 - w30/35 a2/1 - w30/35	(a) (b)	W/W kW	3.63	4.42 9.22	11.51	4.34	4.13	13.77	4.6	4.06	14.59
	COP	a2/1 - w30/35	(b)	W/W	-	3.52	-	-	3.35	-	-	3.28	-
	Heating output	a-7/-8 - w30/35	(c)	kW	3.83	9.96	10.93	4.22	10.99	12.06	4.59	11.94	13.11
	COP Heating output	a-7/-8 - w30/35	(c)	W/W kW	2.27	2.8 5.9	6.48	2.53	2.7 6.58	7.22	2.79	2.64 7.26	7.97
	Heating output COP	a-15/-16 - w30/35 a-15/-16 - w30/35		W/W		2.06	0.40		1.94	-		1.92	- 1.91
	Heating output (fancoils)	a7/6 - w40/45	(f)	kW	4.68	11.85	15.46	5.54	14.05	18.33	6.33	16.05	20.94
	COP (fancoils)	a7/6 - w40/45	(f)	W/W	-	3.41	- 11.50	-	3.19	- 14.40	- 4.64	3.19	- 14.70
	Heating output (fancoils) COP (fancoils)	a2/1 - w40/45 a2/1 - w40/45	(g) (g)	kW W/W	3.65	9.26 2.77	11.56	4.55	11.55 2.74	14.42	4.64	11.78	14.71
	Heating output (fancoils)	a-7/-8 - w40/45	(h)	kW	3.65	9.51	10.44	4.37	11.38	12.49	4.39	11.42	12.54
	COP (fancoils)	a-7/-8 - w40/45	(h)	W/W	- 1.02	2.22	-	- 2.75	2.18	- 0.14	- 2.27	2.17	
	Heating output (fancoils) COP (fancoils)	a-15/-16 - w40/45 a-15/-16 - w40/45		kW W/W	1.92	5.01	5.5	2.15	5.59 1.57	6.14	2.37	6.17 1.55	6.77
	Cooling power	a35 - w23/18	(1)	kW	5.51	11.8	14.05	6.07	13	15.48	6.54	14	16.67
	EER	a35 - w23/18	(1)	W/W	-	4.45	-	-	4.02	-	-	3.87	-
	Cooling output (fancoils) EER (fancoils)	a35 - w12/7 a35 - w12/7	(m) (m)	kW W/W	5.15	11.02 2.64	13.13	5.83	12.49 2.46	14.88	- 6	12.85	15.3
	Energy efficiency class in water heating 35°C	Warmer Climate	(111)	VV/ VV		A+++			A+++			A+++	
	SCOP	Warmer Climate				6.16			5.31			5.28	
	s (Seasonal efficiency for space heating)	Warmer Climate		ηs %		245.0 A+++			211.0 A++			210.0 A++	
	Energy efficiency class in water heating 35°C SCOP	Average Climate Average Climate				4.47			4.23			3.96	
	s (Seasonal efficiency for space heating)	Average Climate		ηs %		175.0			168.0			157.0	
	Energy efficiency class in water heating 35°C	Cold Climate				A+			A+			A+	
	s (Seasonal efficiency for space heating)	Cold Climate Cold Climate		η s %		3.58 142.0			3.33			3.41	
	Energy efficiency class in water heating 55°C	Warmer Climate		110 70		A+++			A+++			A+++	
	SCOP	Warmer Climate		0.1		4.33			4.18			4.51	
	s (Seasonal efficiency for space heating) Energy efficiency class in water heating 55°C	Warmer Climate Average Climate		η s %		172.0 A++			166.0 A++			179.0 A++	
	SCOP	Average Climate				3.21			3.23			3.21	
	s (Seasonal efficiency for space heating)	Average Climate		η s %		127.0			128.0			127.0	
	Energy efficiency class in water heating 55°C SCOP	Cold Climate Cold Climate				2.81			2.81			2.81	
	s (Seasonal efficiency for space heating)	Cold Climate		ŋ s %		111.0			111.0			111.0	
	Indoor unit sound power			dB(A)		46			46			46	
	Indoor unit sound pressure		(n)	dB(A)		40			40			40	
	Outdoor unit sound power (nominal) Outdoor unit sound pressure (nominal)		(0)	dB(A) dB(A)		69 46			71 48			72 49	
	System circulator absorption		(-)	W		8 - 140			8 - 140			8 - 140	
	Supply voltage indoor unit			V/ph/Hz		220-240/1/5	0		220-240/1/50)	- C	20-240/1/50)
TRICAL DATA	Maximum current absorbed indoor unit with additional active heating elements Maximum power absorbed indoor unit with additional active heating elements			A kW		31.00 7.05			31.00 7.05			31.00 7.05	
	Additional electric heating elements			kW		3,0+3,0			3,0+3,0			3,0+3,0	
	Supply voltage outdoor unit			V/ph/Hz		220-240/1/5	0		220-240/1/50)	- 2	20-240/1/50)
	Outdoor unit maximum absorbed current Outdoor unit maximum absorbed power			A kW		27 6			27 6			27 6	
	Compressor type			IVI	Twin Rot	ary DC Invert	er 6 poles	Twin Rota	ary DC Invert	er 6 poles	Twin Rota	ry DC Invert	er 6 poles
	Refrigerant inlet connection diameter		, ,	"		3/8"-5/8"			3/8"-5/8"			3/8"-5/8"	
	Coolant gas Global warming potential		(p)	GWP		R410A 2088			R410A 2088			R410A 2088	
COOLING CIRCUIT	Refrigerant gas charge			kg		3.9			3.9			3.9	
	Refrigerant piping length limit	min - max				2 - 50			2 - 50			2 - 50	
	Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018	max	(q)			-			-			-	
	Drinking water - DHW hydraulic connections System expansion valve capacity			"		1" 8			1" 8			1" 8	
	Load profile according to EN16147					L 8			L 8			L	
	DHW production energy efficiency class	Average Climate				Α			Α			Α	
	ηΗW (seasonal production efficiency DHW) Boiler volume	Average Climate		%		81 150			81 150			81 150	
	Boiler interior surface material			1	DD12	glazed steel :	S235JR	DD12 g	glazed steel S	235JR	DD12 g	lazed steel S	235JR
	Heat exchanger in the boiler			m²		1.5		The state of the s	1.5			1.5	
	Type and thickness of boiler insulation Specific dispersion			W/K	Hard expan	ded polyureti 2	hane 55 mm	Hard expand	led polyureth 2	ane 55 mm	Hard expand	ed polyureth 2	nane 55 mm
	DHW expansion tank capacity			W/K		7			7			7	
	DHW hydraulic connections			"		3/4"			3/4"			3/4"	
	DHW circuit heating capacity	w35 - w55	(r)	kW		2.15			2.15			2.15	
	COP DHW circuit DHW circuit heating capacity	w35 - w55 w12 - w55	(r) (s)	W/W kW		3.12			3.12			3.12	
	COP DHW circuit	w12 - w55	(s)			2.58			2.58			2.58	
	Sound power indoor unit in heating/cooling + DHW circuit			dB(A)		49			49			49	
ADNO	DHW circuit circulator absorption DHW circuit coolant gas		(t)	W		3 - 43 R134a			3 - 43 R134a			3 - 43 R134a	
SECC	DHW circuit global warming potential		(')	GWP		1430			1430			1430	
	DHW circuit coolant gas load			kg		0.35			0.35			0.35	
a) Hea	ting mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperatur	ro 30°C/35°C		(m) Cooling mode	o ovtornal air to	omnoraturo 25°C	inlot/outlot w	iter temperatur	n 12°C/7°C			

ONLY FOR SHERPA AQUADUE TOWER S2

⁽a) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 30°C/35°C (b) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 30°C/35°C (c) Heating mode, external air temperature -15°C b.s./16°C b.u., inlet/outlet water temperature 30°C/35°C (d) Heating mode, external air temperature -15°C b.s./16°C b.u., inlet/outlet water temperature 30°C/35°C (f) Heating mode, external air temperature 2°C b.s./16°C b.u., inlet/outlet water temperature 40°C/45°C (g) Heating mode, external air temperature 2°C b.s./16°C b.u., inlet/outlet water temperature 40°C/45°C (f) Heating mode, external air temperature 25°C/5.8-8°C b.u., inlet/outlet water temperature 40°C/45°C (f) Heating mode, external air temperature 35°C, inlet/outlet water temperature 20°C/45°C (f) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 23°C/18°C

⁽m) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 12°C/7°C
(n) Sound pressure values measured at a distance of 1 m in a semi-anechoic chamber
(o) Sound pressure values measured at a distance of 4 m in free field distance
(p) Non-airtightally sealed equipment containing fluorinated GAS
(g) maximum length of the refrigeration pipes beyond which checks on the minimum surface of the installation rooms are necessary, check the technical manual
(f) Heating circuit water temperature 35°C/Outlet water temperature 55°C
(s) Heating circuit water temperature 12°C/Outlet water temperature 55°C
(t) Non-hermetically sealed equipment containing fluorinated GAS

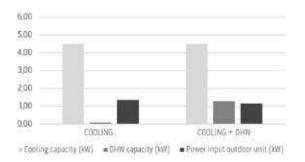
	THREE-PHASE R410A TECHNICAL DATA	12T				14T			16T				
	ODU Sherpa S2					02008			02009			02010	
	IDU Sherpa Aquadue S2					02043			02043			02043	
	IDU Sherpa Aquadue Tower S2 Compressor frequency				Minimum	02045	Maximum	Minimum	02045 Nominal	Maurinaum	Minimum	02045 Nominal	Mauimum
	Heating output	a7/6 - w30/35	(a)	kW	4.77	Nominal 12.1	15.79	Minimum 5.52	74	Maximum 18.27	6.12	15.5	Maximum 20.23
	COP	a7/6 - w30/35	(a)	W/W	-	4.53	-	-	4.31	-	-	4.19	-
	Heating output	a2/1 - w30/35	(b)	kW	3.6	9.14	11.41	4.29	10.91	13.62	4.31	10.95	13.67
	COP	a2/1 - w30/35	(b)	W/W	-	3.6	-	-	3.42	-	-	3.39	-
	Heating output	a-7/-8 - w30/35	(c)	kW	3.72	9.69	10.64	4.31	11.21	12.31	4.32	11.25	12.35
	COP	a-7/-8 - w30/35	(c)	W/W	- 2.20	2.75		274	2.66	- 7.00	- 2.02	2.64	- 0.00
Į.	Heating output COP	a-15/-16 - w30/35 a-15/-16 - w30/35	(d)	kW W/W	2.38	6.19	6.79	2.74	7.13	7.83	2.93	7.62	8.36
MAM	Heating output (fancoils)	a7/6 - w40/45	(f)	kW	4.7	11.91	15.54	5.48	13.9	18.14	6.13	15.53	20.26
SEOR	COP (fancoils)	a7/6 - w40/45	(f)	W/W	-	3.44	-	-	3.3	-	-	3.18	-
DREFISE DERENRMANIFE	Heating output (fancoils)	a2/1 - w40/45	(g)	kW	3.65	9.26	11.56	4.51	11.46	14.31	4.97	12.62	15.76
FLIC	COP (fancoils)	a2/1 - w40/45	(g)	W/W		2.8	-	-	2.7		-	2.68	-
ä	Heating output (fancoils) COP (fancoils)	a-7/-8 - w40/45 a-7/-8 - w40/45	(h) (h)	kW W/W	3.73	9.7	10.65	4.38	11.4 2.17	12.51	4.39	11.44 2.15	12.56
	Heating output (fancoils)	a-1/-6 - w40/45 a-15/-16 - w40/45	(i)	kW	2.02	5.27	5.78	2.33	6.06	6.65	2.49	6.48	7.11
	COP (fancoils)	a-15/-16 - w40/45		W/W	-	1.74	-	-	1.67	-	-	1.64	-
	Cooling power	a35 - w23/18	(1)	kW	5.51	11.8	14.05	6.45	13.8	16.44	6.87	14.7	17.51
	EER	a35 - w23/18	(1)	W/W	-	4.59	-	-	4.21	-	-	3.9	-
	Cooling output (fancoils)	a35 - w12/7	(m)	kW	5.72	12.25	14.59	5.83	13.24	14.88	6.27	13.43	16
	EER (fancoils) Energy efficiency class in water heating 35°C	a35 - w12/7 Warmer Climate	(m)	W/W	-	2.69 A+++	-	-	2.51 A+++	-	-	2.47	-
	SCOP	Warmer Climate				6.41			6.53			6.13	
	s (Seasonal efficiency for space heating)	Warmer Climate		ηs %		255.0			260.0			244.0	
	Energy efficiency class in water heating 35°C	Average Climate				A+++			A+++			A++	
	SCOP	Average Climate				4.63			4.51			4.33	
	s (Seasonal efficiency for space heating)	Average Climate		ηs %		184.0			179.0			172.0	
0	Energy efficiency class in water heating 35°C	Cold Climate Cold Climate				A++ 3.96			A++ 3.78			3.61	
SEEICIENCIEC	s (Seasonal efficiency for space heating)	Cold Climate		ηs %		157.0			150.0			143.0	
	Energy efficiency class in water heating 55°C	Warmer Climate		112 /12		A+++			A+++			A+++	
ä	3001	Warmer Climate				4.13			4.21			4.21	
	s (Seasonal efficiency for space heating)	Warmer Climate		ηs %		164.0			167.0			167.0	
	Energy efficiency class in water heating 55°C	Average Climate				A++ 3.23			A++			A++ 3.28	
	s (Seasonal efficiency for space heating)	Average Climate Average Climate		ηs %		128.0			3.28 130.0			130.0	
	Energy efficiency class in water heating 55°C	Cold Climate		1 5 /0		A+			A+			A+	
	SCOP	Cold Climate				2.78			2.73			2.76	
	s (Seasonal efficiency for space heating)	Cold Climate		ηs %		110.0			108.0			109.0	
VEI	Indoor unit sound power			dB(A)		46			46			46	
NOISE LEVEL	Indoor unit sound pressure		(n)	dB(A)		40 70			40 72			40 72	
NOIN	Outdoor unit sound power (nominal) Outdoor unit sound pressure (nominal)		(0)	dB(A)		47			49			49	
	System circulator absorption		(0)	W		8 - 140			8 - 140			8 - 140	
4	Cupply voltage indoor unit			V/ph/Hz		220-240/1/50)	í	220-240/1/50)	i	220-240/1/50)
TRICAL DATA	Maximum current absorbed indoor unit with additional active heating elements			Α		31.00			31.00			31.00	
7	Maximum power absorbed indoor unit with additional active heating elements			kW		7.05			7.05			7.05	
Ë	Additional electric heating elements Supply voltage outdoor unit			kW V/ph/Hz		3,0+3,0 380-415/3/50)		3,0+3,0 380-415/3/50	1		3,0+3,0 380-415/3/50	1
<u> </u>	Outdoor unit maximum absorbed current			Α Α		9	J		9	J		9	J
	Outdoor unit maximum absorbed power			kW		6			6			6	
	Compressor type				Twin Rota	ary DC Inverte	er 6 poles	Twin Rota	ıry DC Inverte	er 6 poles	Twin Rota	ary DC Invert	er 6 poles
╘	Refrigerant inlet connection diameter		()	"		3/8"-5/8"			3/8"-5/8"			3/8"-5/8"	
COOLING CIRCLIT	Coolant gas Global warming potential		(p)	GWP		R410A 2088			R410A 2088			R410A 2088	
S S	Refrigerant gas charge			kg		4.2			4.2			4.2	
	Refrigerant nining length limit	min - max		1,8		2 - 50			2 - 50			2 - 50	
	Refrigerant piping length limit without minimum surface check	max	(q)			-			-			-	
	according to IEC 60335-2-40:2018 Drinking water - DHW hydraulic connections		()/	н]"]"			7"	
HDB	System expansion valve capacity			-		8			8			8	
	Load profile according to EN16147					L			L			L	
ď	DHW production energy efficiency class	Average Climate		01		Α			Α			Α	
EOE I	ηΗW (seasonal production efficiency DHW)	Average Climate		%		81 150			81 150			81 150	
MI I	Boiler volume Boiler interior surface material				NN12 (glazed steel S	235 IR	DD12 c	lazed steel S	235 IR	NN12 d	glazed steel S	235 IR
NTEGRATED DHW BOILER	Heat exchanger in the boiler			m²	DUIL	1.5	_50011	DDIE	1.5		DOIL	1.5	
TAGE	Type and thickness of boiler insulation				Hard expand	ded polyureth	ane 55 mm	Hard expand	led polyureth	ane 55 mm	Hard expand	ded polyureth	ane 55 mm
NTE	Specific dispersion			W/K		2			2			2	
	DHW expansion tank capacity			-		7			7			7	
	DHW hydraulic connections	WOE WEE	(4)	kW		3/4" 2.15			3/4" 2.15			3/4" 2.15	
9	DHW circuit heating capacity COP DHW circuit	w35 - w55 w35 - w55	(r) (r)	W/W		3.12			3.12			3.12	
RY DHW COOLING	DHW circuit heating capacity	w33 - w55	(s)	kW		1.6			1.6			1.6	
)) M	COP DHW circuit	w12 - w55	(s)	W/W		2.58			2.58			2.58	
Y DH	Sound power indoor unit in heating/cooling + DHW circuit			dB(A)		49			49			49	
IDAR	DHW circuit circulator absorption		(1)	W		3 - 43			3 - 43			3 - 43	
100]	DHW circuit coolant gas DHW circuit global warming potential		(t)	GWP		R134a 1430			R134a 1430			R134a 1430	
85	DHW circuit global warming potential DHW circuit coolant gas load			kg		0.35			0.35			0.35	
	S circuit coolaite gas loud			1.8		0.00			0.00			0.00	

⁽a) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 30°C/35°C (b) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 30°C/35°C (c) Heating mode, external air temperature -15°C b.s./16°C b.u., inlet/outlet water temperature 30°C/35°C (d) Heating mode, external air temperature -15°C b.s./16°C b.u., inlet/outlet water temperature 30°C/35°C (f) Heating mode, external air temperature 2°C b.s./16°C b.u., inlet/outlet water temperature 40°C/45°C (g) Heating mode, external air temperature 2°C b.s./16°C b.u., inlet/outlet water temperature 40°C/45°C (f) Heating mode, external air temperature 25°C/5.8-8°C b.u., inlet/outlet water temperature 40°C/45°C (f) Heating mode, external air temperature 35°C, inlet/outlet water temperature 20°C/45°C (f) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 23°C/18°C

⁽m) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 12°C/7°C
(n) Sound pressure values measured at a distance of 1 m in a semi-anechoic chamber
(o) Sound pressure values measured at a distance of 4 m in free field distance
(p) Non-airtightally sealed equipment containing fluorinated GAS
(g) maximum length of the refrigeration pipes beyond which checks on the minimum surface of the
installation rooms are necessary, check the technical manual
(f) Heating circuit water temperature 35°C/Outlet water temperature 55°C
(3) Heating circuit water temperature 12°C/Outlet water temperature 55°C
(t) Non-hermetically sealed equipment containing fluorinated GAS

				4			6			8			10	
			Cooling w7 - a35	DHW w65 - w12	Cooling w7 - A35 DHW w65 - w12	Cooling w7 - a35	DHW w65 - w12	Cooling w7 - A35 DHW w65 - w12	Cooling w7 - a35	DHW w65 - w12	Cooling w7 - A35 DHW w65 - w12	Cooling w7 - a35	DHW w65 - w12	Cooling w7 - A35 DHW w65 - w12
	Cooling capacity	kw	4.50	0.64	4.50	6.50	0.64	6.50	7.38	0.64	7.38	8.15	0.64	8.15
First circuit + second circuit	DHW yield	kw	0.00	1.28	1.28	0.00	1.28	1.28	0.00	1.28	1.28	0.00	1.28	1.28
data	Absorption	kw	1.36	0.56	1.16	2.20	0.56	1.89	2.44	0.56	2.09	2.76	0.56	2.37
	COP EER		3.32	2.30	3.88	2.95	2.30	3.44	3.02	2.30	3.53	2.95	2.30	3.44

				12		14				16			12T			14T			16T	
			Cooling w7 - a35		Cooling w7 - A35 DHW w65 - w12	0	- w12	Cooling w7 - A35 DHW w65 - w12			Cooling w7 - A35 DHW w65 - w12	w7 - a35		Cooling w7 - A35 DHW w65 - w12			Cooling w7 - A35 DHW w65 - w12			Cooling w7 - A35 DHW w65 - w12
	Cooling capacity	kw	11.02	0.64	11.02	12.49	0.64	12.49	12.85	0.64	12.85	12.25	0.64	12.25	13.24	0.64	13.24	13.43	0.64	13.43
First circuit + second circuit data	DHW yield	kw	0.00	1.28	1.28	0.00	1.28	1.28	0.00	1.28	1.28	0.00	1.28	1.28	0.00	1.28	1.28	0.00	1.28	1.28
	Absorption	kw	4.17	0.56	3.57	5.08	0.56	4.35	5.40	0.56	4.62	4.55	0.56	3.90	5.27	0.56	4.52	5.57	0.56	4.77
	COP EER		2.64	2.30	3.08	2.46	2.30	2.87	2.38	2.30	2.78	2.69	2.30	3.14	2.51	2.30	2.93	2.41	2.30	2.81

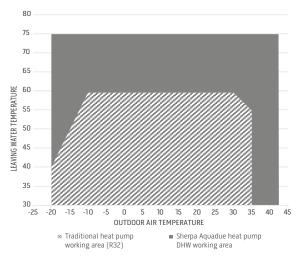


COOLING + DHW WITH ENERGY RECOVERY

During summer operation in cooling mode, the cycle dedicated to DHW production extracts heat from return water from the system circuit.

The cooling requirements of the building is partially satisfied by the DHW cycle and the comfort refrigerating cycle must deliver less power by reducing the speed of the inverter compressor.

The heat taken from the system is recovered in hot water for domestic use. The efficiency of the integrated system increases (ratio between the energy produced and the energy absorbed from the mains).



PERFORMANCE AND ENERGY ADVANTAGES

In adverse weather conditions traditional heat pumps decrease thermal output producing water at a lower temperature. Sherpa AQUADUE® as well as extending the area of operation ensures a constant heat output, in the production of Domestic Hot Water. The double refrigerator circuit allows higher DHW production temperatures thanks to the water-water circuit which are independent of outside air temperature. In summer cooling operation the refrigeration cycle dedicated to DHW production removes heat from the comfort circuit increasing the overall efficiency of the system.

ACCES	SORIES		suspended	tower
(0)	B0916	Kit 3-way valve for DHW	•	•
COMMANDS	B0623	Outdoor air temperature probe kit	•	•
NO N	B0624	Kit DHW storage tank sensor	•	•
	B0931	Remote control display kit 10 m	0	0
OTHER	B0918	Kit Sherpa Flex Box AS	≤10	_
É	B0961	Kit Sherpa Flex Box AS RAL 9016	≤10	_
	01804	HE 200 L storage tank	0	_
IFER	01805	HE 300 L storage tank	0	_
S/PL	01806	HES 300 L solar storage tank	0	_
TANKS / PUFFER	01807	Hybride boiler HY 300 L	0	_
STORAGE 1	01808	HYS 300 L solar hybrid storage tank	0	_
STOR	01199	Thermal accumulation 50 L	0	0
	01200	Thermal accumulation 100 L	0	0

igorup Optional accessory | igorup Standard accessory | — Accessory not compatible

Accessory description on page 50

Kit Sherpa Flex Box AS

Freestanding technical cabinet for Sherpa Aquadue S2 E Small multi-purpose split heat pumps



DOMESTIC WATER STORAGE TANK 150 LT -STAINLESS STEEL

High thermal insulation 50 mm in EPS with graphite to minimise dispersions (class C)



TECHNICAL ACCUMULATION 28 LT - STAINLESS STEEL

(standard on return from the system) To ensure efficient and safe operation of the heat pump (class \mathbb{C})



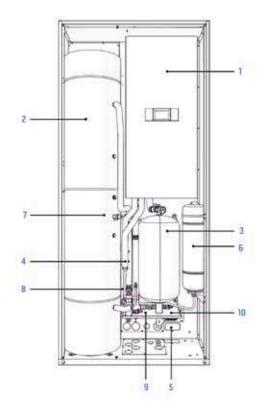
FREESTANDING TECHNICAL CABINET

For maximum installation flexibility with a single product. In galvanised steel.



Sherpa Flex Box AS kit is the technical cabinet that makes it possible to create a compact system in heat pump with high installation flexibility. The multipurpose heat pump (Sherpa Aquadue) and the class C storage tanks make it possible to obtain a very high energy efficiency of the system, even in outdoor installation.

B0918	Kit Sherpa Flex Box AS
B0961	Kit Sherpa Flex Box AS RAL 9016
B0931	Remote control display kit 10 m



FEATURES

- Dimensions (W x D x H): 998 x 415 x 2280 mm
- System connections from below or from the back
- Condensate trap to prevent any dripping of the condensation on the bottom of the cabinet
- Possible combination with display remote control kit (B0931)
- The distribution and heat emission network downstream of Sherpa Flex Box AS must ensure the circulation of the minimum flow rate of the heat pump in all operating conditions by means of 3-way valves or by-pass systems, in addition, for heat pump sizes 8 and 10, the water content of the distribution network and of the fan coil units must be at least 10 litres (refer to the product installation manuals).

COMPATIBILITY

- SHERPA AQUADUE S2 E 4 (IDU Sherpa Aquadue S2 E Small 02042)
- SHERPA AQUADUE S2 E 6 (IDU Sherpa Aquadue S2 E Small 02042)
- SHERPA AQUADUE S2 E 8 (IDU Sherpa Aquadue S2 E Small 02042)
- SHERPA AQUADUE S2 E 10 (IDU Sherpa Aquadue S2 E Small 02042)
- 1. IDU Sherpa Aquadue S2 E Small (02042)
- 2. Domestic hot water storage tank 150 litres Stainless Steel AISI 316I
- 3. Technical system storage tank 28 litres Stainless Steel AISI 316L
- 4. Storage tank return filter
- 5. System return filter
- 6. Domestic water expansion tank 12 litres
- 7. Safety valves domestic water 6 bar
- 8. Domestic water thermostatic mixing valve
- 9. Micrometric lockshield for By-Pass
- 10. Condensate trap









TYPES OF INSTALLATION

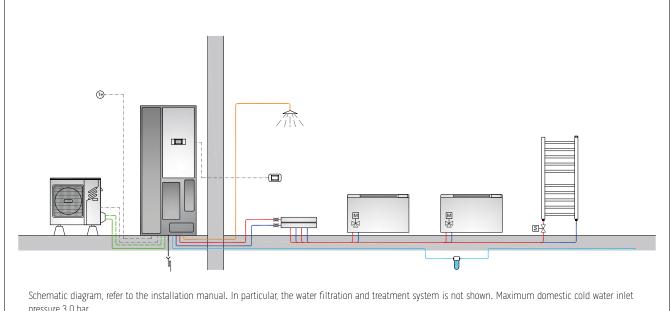
The technical cabinet must be installed in an area protected from the weather according to installation manual

- **A.** Outdoor support
- B. Outdoor semi-recessed
- C. Indoor support
- **D.** Indoor semi-recessed

On request, code B0961 can be supplied with RAL 9016 powder-coating, (front/back for upper, lower side and front panels, no backs).

SYSTEM DIAGRAM

SHERPA AQUADUE S2 SMALL heat pump with SHERPA FLEX BOX AS KIT (heating and air conditioning; production of high temperature DHW); Bi2 SLR radiant fan coil units with 3-way valves.



SHERPA





Traditional split heat pumps, suspended and tower versions



COMPACT TECHNOLOGY

The engineering of the components and the reduced shapes allow it to be installed inside a kitchen cabinet.



DOMESTIC HOT WATER UP TO 60°C

Sherpa supplies Domestic Hot Water with temperatures up to 60°C.



LOW GWP GAS

In sizes up to 10 kW, it uses the R32 refrigerant, characterised by greater efficiency and a greenhouse effect reduced by almost 70% (compared to R410A).



FEATURES

- · Inverter air-water heat pump
- Energy efficiency class in average climate heating up to: A++++ (35°C) and A++ (55°C)
- Powers available: 4 Powers with refrigerant R32 (4-6-8-10 kW single-phase) and 3 Powers with refrigerant R410A (12-14-16 kW single-phase and three-phase)
- Supplies DHW with temperature up to 60° C.
- **DHW management:** Sherpa is used to manage Domestic Hot Water with extreme flexibility through two management modes: water probe inserted in the storage tank or thermostat contact of the storage tank.
- Climatic curves based on the external air temperature:
- two curves available, one for cooling and one for heating.
- The climatic curves allow the temperature of the system to be varied according to the external climatic conditions, adjusting the heat input to the building's thermal needs, in order to obtain energy savings.
- Two configurable cooling set points, Three set points configurable in heating

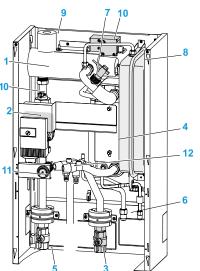
- mode (one of which for DHW): the set points can also be selected from a remote contact
- Standard double-stage electric heating elements: configurable as single
 or double-stage can be activated to support the heat pump, with checking,
 via the electronic control, of the actual thermal output of the heat pump.
 Each stage is activated according to the actual need for thermal power, in
 order to optimise electricity consumption.
- Daily holiday and weekly programmer: heating/cooling, DHW, night...
- Complete management of anti-legionella cycles R32* or R410A* refrigerant
- Storage tank 200 L high efficiency (tower version). Components included: system filling valve, 3-way valve and 2 expansion valves (technical water and DHW).
- Integrated thermostatic mixer (tower version).

^{*} Equipment not hermetically sealed containing fluorinated gases with an equivalent GWP of 675 (R32) and 2088 (R410A)



OLIMPIA SPLENDID

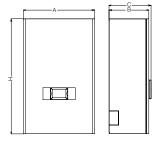
LAYOUT, DIMENSIONS, WEIGHT



- 1. Electric heating element
- 2. Electronic circulator
- 3. Water return
- 4. Plate heat exchanger
- 5. System delivery
- **6.** Cooling circuit connections
- 7. Flow switch
- 8. Expansion tank
- 9. Automatic air vent
- **10.** Electric heating element safety thermostats
- 11. Pressure gauge
- 12. 3 bar safety valve

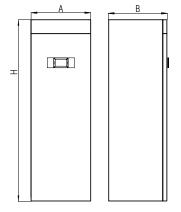
Suspended indoor units

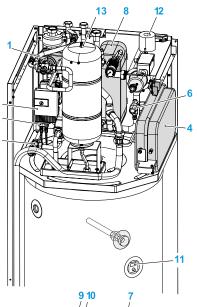
			6						12T	14T	16T
			SM.	ALL				В	G		
Α	mm	500	500	500	500	500	500	500	500	500	500
В	mm	280	280	280	280	280	280	280	280	280	280
С	mm	296	296	296	296	296	296	296	296	296	296
Н	mm	810	810	810	810	810	810	810	810	810	810
Weight	kg	36	36	36	36	38	38	38	38	38	38



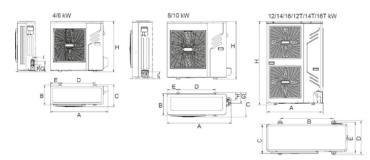
Tower indoor units

							14	16	12T	14T	16T
			SM	ALL				В	IG		
A	mm	600	600	600	600	600	600	600	600	600	600
В	mm	600	600	600	600	600	600	600	600	600	600
Н	mm	1980	1980	1980	1980	1980	1980	1980	1980	1980	1980
Weight	kg	183	183	183	183	185	185	185	185	185	185





- 1. 3-way valve
- 2. Air conditioner circuit circulation pump
- 3. Safety valves
- **4.** Air conditioner circuit expansion tank
- 5. Post-heating electric heating element manifold
- **6.** Safety valves air conditioner circuit 3 bar
- **7.** Electric heating elements safety thermostats
- **8.** Air conditioner circuit heat exchanger
- 9. Flow switches
- **10.** Air conditioning circuit pressure gauge
- 11. Anode tester
- 12. Automatic air vent valves
- 13. Domestic water circuit expansion tank
- 14. Cable clamp



Outdoor units

									12T	14T	16T
			MON	OFAN				BI-I	AN		
Α	mm	974	974	1075	1075	900	900	900	900	900	900
В	mm	333	333	363	363	600	600	600	600	600	600
C	mm	378	378	411	411	348	348	348	348	348	348
D	mm	590	590	625	625	400	400	400	400	400	400
E	mm	164	164	184	184	360	360	360	360	360	360
F	mm	119	119	126	126						-
G	mm	179	179	179	179	-	-	-	-	-	-
Н	mm	857	857	965	965	1327	1327	1327	1327	1327	1327
I	mm	75	75	117	117	-	-	-	-	-	-
Weight	kg	57	57	67	67	99	99	99	115	115	115

	SINGLE-PHASE R32 TECHNICAL DATA					4			6			8			10	
	ODU Sherpa S2 E					2001			02002			02003			02004	
	IDU Sherpa S2 E					2040			02040			02040			02040	
	IDU Sherpa Tower S2 E Compressor frequency					02046 ominal	Maximum	Minimum	02046 Nominal	Mavimum	Minimum	02046 Nominal	Mavimum	Minimum	02046 Nominal	Maximum
	Heating output	a7/6 - w30/35	(a)	kW		4.2	5.59	3.22	6.5	8.66	4.17	8.4	11.19	4.96	10	13.32
	COP	a7/6 - w30/35	(a)	W/W		5.15	-	-	4.85	-	-	4.85	-	-	4.65	-
	Heating output COP	a2/1 - w30/35 a2/1 - w30/35	(b)	kW W/W	2.08	4.25 3.9	5.38	2.74	5.58 3.88	7.06	3.48	7.1	8.99	4.04	8.25	10.44
	Heating output	a-7/-8 - w30/35	(c)	kW		4.8	5.23	2.79	6	6.53	3.28	7.05	7.67	3.81	8.2	8.93
	COP	a-7/-8 - w30/35	(c)	W/W	-	3	-	-	2.94	-	-	3.04	-	-	2.95	-
بب	Heating output	a-15/-16 - w30/35	(d)	kW		4.67	5.08	2.26	4.86	5.29	3.25	6.99	7.61	3.25	6.99	7.61
JANG	COP Heating output (fancoils)	a-15/-16 - w30/35 a7/6 - w40/45	(d) (f)	W/W kW	2.08	2.3 4.2	5.59	3.15	2.27 6.35	8.46	3.99	2.34 8.05	10.72	4.89	2.34 9.85	13.12
PRECISE PERFORMANCE	COP (fancoils)	a7/6 - w40/45	(f)	W/W		3.65	-	-	3.64	-	-	3.73	-	4.03	3.62	-
E PER	Heating output (fancoils)	a2/1 - w40/45	(g)	kW	2.11	4.3	5.44	2.77	5.65	7.15	3.68	7.5	9.49	3.9	7.95	10.06
ECISI	COP (fancoils)	a2/1 - w40/45	(g)	W/W		3.05 4.15	4.52	2.56	3.02 5.5	5.99	3.09	3.15 6.65	7.24	3.63	3.04 7.8	8.49
<u>R</u>	Heating output (fancoils) COP (fancoils)	a-7/-8 - w40/45 a-7/-8 - w40/45	(h)	kW W/W		2.39	4.52	2.50	2.42	5.99	3.09	2.45	1.24	3.03	2.41	0.49
	Heating output (fancoils)	a-15/-16 - w40/45	(i)	kW		4.14	4.51	2	4.31	4.69	2.81	6.05	6.59	2.81	6.05	6.59
	COP (fancoils)	a-15/-16 - w40/45		W/W		1.79	-	-	1.77	-	-	1.92	-	-	1.92	
	Cooling power EER	a35 - w23/18 a35 - w23/18	(I) (I)	kW W/W		4.3 5.6	5.27	3.46	6.45 4.88	7.91	4.48	8.35 4.67	10.24	5.47	10.2	12.51
	Cooling output (fancoils)	a35 - w12/7	(m)	kW		4.5	5.52	3.49	6.5	7.97	3.96	7.38	9.05	4.37	8.15	10
	EER (fancoils)	a35 - w12/7	(m)	W/W		3.32	-	-	2.95	-	-	3.02	-	-	2.95	-
	Energy efficiency class in water heating 35°C	Warmer Climate			_	C 50	•		A+++	•		A+++	<u> </u>		A+++	
	s (Seasonal efficiency for space heating)	Warmer Climate Warmer Climate		ηs %		6.52 257.7			6.52 257.7			6.69 264.6			6.69 264.6	
	Energy efficiency class in water heating 35°C	Average Climate		1,0 70		THE			A+++	•		A+++	·		A+++	,
	SCOP	Average Climate				4.77			4.77			4.79			4.79	
	s (Seasonal efficiency for space heating) Energy efficiency class in water heating 35°C	Average Climate Cold Climate		ηs %		187.7			187.7 A++			188.5 A++			188.5 A++	
ES	SCOP	Cold Climate				4.06			4.06			4.01			4.01	
EFFICIENCIES	s (Seasonal efficiency for space heating)	Cold Climate		ηs %		159.5			159.5			157.5			157.5	
EEC	Energy efficiency class in water heating 55°C	Warmer Climate				4 20	•		A+++	•		A+++			A+++	
ш	s (Seasonal efficiency for space heating)	Warmer Climate Warmer Climate		ηs %		4.28 168.2			4.28 168.2			4.29 168.5			4.29 168.5	
	Energy efficiency class in water heating 55°C	Average Climate		. 10 70		\++			A++	•		A++	•		A++	
	SCOP	Average Climate		0/		3.34			3.34			3.28			3.28	
	s (Seasonal efficiency for space heating) Energy efficiency class in water heating 55°C	Average Climate Cold Climate		ηs %		130.6 A+			130.6			128.0			128.0	
	SCOP	Cold Climate				2.77			2.77			2.66			2.66	
	s (Seasonal efficiency for space heating)	Cold Climate		ηs %	1	107.9			107.9			103.5			103.5	
EVEL	Indoor unit sound power Indoor unit sound pressure		(n)	dB(A)		41 35			41 35			41 35			41 35	
NOISE LEVEL	Outdoor unit sound power (nominal)		(11)	dB(A)		61			62			63			65	
2	Outdoor unit sound pressure (nominal)		(0)	dB(A)		38			39			40			42	
	System circulator absorption			W		3 - 87	-0	21	3 - 87	-0	21	3 - 87 20-240/1/	ro	22	3 - 87	-0
	Supply voltage indoor unit *Maximum current absorbed indoor unit with additional active heating			V/ph/Hz		240/1/5	DU .		20-240/1/	DU .		, ,	วบ		0-240/1/5	U
AL DATA	elements			A		14.1			14.1			14.1			14.1	
	*Maximum power absorbed indoor unit with additional active heating elements			kW		3.22			3.22			3.22			3.22	
ELECTRIC	Additional electric heating elements			kW		5+1,5			1,5+1,5		-	1,5+1,5			1,5+1,5	
	Supply voltage outdoor unit Outdoor unit maximum absorbed current			V/ph/Hz A	220-	240/1/5 14	υU	2.	20-240/1/: 14	υU	20	20-240/1/ 19	50	22	0-240/1/5 19	υU
	Outdoor unit maximum absorbed power			kW		2.65			2.65			3.8			3.8	
	Compressor type				Twin Rotary D		ter 4 poles	Twin Rota		ter 4 poles	Twin Rota	,				ter 6 poles
III	Refrigerant inlet connection diameter Coolant gas		(p)			4"-5/8" R32			1/4"-5/8" R32			3/8"-5/8' R32	'		3/8"-5/8" R32	
COOLING CIRCUIT	Global warming potential		(P)	GWP		675			675			675			675	
PING	Refrigerant gas charge			kg		1.55			1.55			1.65			1.65	
00	Refrigerant piping length limit Refrigerant piping length limit without minimum surface check	min - max			2	2 - 29			2 - 29			2 - 30			2 - 30	
	according to IEC 60335-2-40:2018	max	(q)			29			29			20			20	
MUIC Manue	Drinking water - DHW hydraulic connections			"		7″]"]"]"	
\₹	System expansion valve capacity Load profile according to EN16147					8 XL			XL			8 XL			8 XL	
œ	DHW production energy efficiency class	Average Climate				A			A			A			A	
OLE	ηΗW (seasonal production efficiency DHW)	Average Climate		%		121			121			118			118	
HW B	Boiler volume			I		200	CODE ID	יי כנחח	200	CODE ID	חחזם בי	200	I CODE ID	ייי כנחח	200	CODE ID
NTEGRATED DHW BOILER	Boiler interior surface material Heat exchanger in the boiler			m²	DD12 glaze	2.4	3233JK	שוא אומט gl	azed steel 2.4	SESSUR	וועט צוועט gl	azed stee 2.4	I S235JR	טטוצ פול	zed steel 2.4	SESSUR
GRAT	Type and thickness of boiler insulation				Hard expanded p	polyureth	nane 55 mm	Hard expand	ded polyuretl	nane 55 mm	Hard expand	ded polyuret	hane 55 mm	Hard expand	ed polyureth	iane 55 mm
NE NE	Specific dispersion			W/K		2			2			2			2	
	DHW expansion tank capacity DHW hydraulic connections			"		7 3/4"			7 3/4"			7 3/4"			7 3/4"	
	5		_			91 1			U/ T			U/T			U/ T	

ONLY FOR SHERPA TOWER S2

⁽a) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 30°C/35°C (b) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 30°C/35°C (c) Heating mode, external air temperature 7°C b.s./1°C b.u., inlet/outlet water temperature 30°C/35°C (d) Heating mode, external air temperature 7°C b.s./1°C b.u., inlet/outlet water temperature 30°C/45°C (f) Heating mode, external air temperature 7°C b.s./1°C b.u., inlet/outlet water temperature 40°C/45°C (g) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 40°C/45°C (f) Heating mode, external air temperature 7°C b.s./8°C b.u., inlet/outlet water temperature 40°C/45°C (f) Heating mode, external air temperature 47°C/45°C b.u., inlet/outlet water temperature 40°C/45°C (f) Heating mode, external air temperature 47°C/45°C b.u., inlet/outlet water temperature 40°C/45°C (f) Heating mode, external air temperature 47°C/45°C b.u., inlet/outlet water temperature 40°C/45°C (f) Heating mode, external air temperature 47°C/45°C b.u., inlet/outlet water temperature 40°C/45°C (f) Heating mode, external air temperature 47°C/45°C b.u., inlet/outlet water temperature 40°C/45°C (f) Heating mode, external air temperature 47°C/45°C b.u., inlet/outlet water temperature 40°C/45°C (f) Heating mode, external air temperature 47°C/45°C b.u., inlet/outlet water temperature 40°C/45°C (f) Heating mode, external air temperature 47°C/45°C b.u., inlet/outlet water temperature 40°C/45°C (f) Heating mode, external air temperature 47°C/45°C b.u., inlet/outlet water temperature 40°C/45°C (f) Heating mode, external air temperature 47°C/45°C b.u., inlet/outlet water temperature 40°C/45°C f) Heating mode, external air temperature 47°C/45°C b.u., inlet/outlet water temperature 40°C/45°C f) Heating mode, external air temperature 47°C/45°C f) Heating f) Heatin

⁽I) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 23°C/18°C (m) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 23°C/18°C (n) Sound pressure values measured at a distance of 1 m in a semi-anechoic chamber (o) Sound pressure values measured at a distance of 4 m in free field distance (p) Non-airtightally sealed equipment containing fluorinated GAS (q) maximum length of the refrigeration pipes beyond which checks on the minimum surface of the installation rooms are necessary, check the technical manual

SINGLE-PHASE R410A TECHNICAL DATA ODU Sherpa S2					12 02005			02006			16 02007	
IDU Sherpa S2					02041			02041			02041	
IDU Sherpa Tower S2					02047			02047			02047	
Compressor frequency	-7/020/25	(-)	LAM	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum	Minimum	Nominal	Maxim
Heating output COP	a7/6 - w30/35 a7/6 - w30/35	(a)		4.77	12.1	15.79	5.52	4.13	18.27	6.12	15.5 4.06	20.2
Heating output	a2/1 - w30/35	(b)	kW	3.63	9.22	11.51	4.34	11.03	13.77	4.6	11.68	14.5
COP	a2/1 - w30/35	(b)		-	3.52	-	-	3.35	-	-	3.28	-
Heating output	a-7/-8 - w30/35	(c)	kW	3.83	9.96	10.93	4.22	10.99	12.06	4.59	11.94	13.1
COP	a-7/-8 - w30/35	(c)	W/W	-	2.8	-	-	2.7	-	-	2.64	-
Heating output	a-15/-16 - w30/35	· /	kW	2.27	5.9	6.48	2.53	6.58	7.22	2.79	7.26	7.9
COP	a-15/-16 - w30/35 a7/6 - w40/45	(a) (f)	W/W kW	4.68	2.06	15.46	5.54	1.94	18.33	6.33	1.92	20.9
Heating output (fancoils) COP (fancoils)	a7/6 - w40/45	(f)	W/W	4.00	3.41	13.40	5.54	3.19	- 10.33	- 0.33	3.19	20.5
Heating output (fancoils)	a2/1 - w40/45	(g)		3.65	9.26	11.56	4.55	11.55	14.42	4.64	11.78	14.7
COP (fancoils)	a2/1 - w40/45	(g)	W/W	-	2.77	-	-	2.74	-	-	2.73	-
Heating output (fancoils)	a-7/-8 - w40/45	(h)		3.65	9.51	10.44	4.37	11.38	12.49	4.39	11.42	12.5
COP (fancoils)	a-7/-8 - w40/45	(h)		-	2.22	-	-	2.18	-	-	2.17	-
Heating output (fancoils)	a-15/-16 - w40/45		kW	1.92	5.01	5.5	2.15	5.59	6.14	2.37	6.17	6.7
COP (fancoils)	a-15/-16 - w40/45		W/W		1.66	- 14 OE	- C 07	1.57	- 1E 40	- C E A	1.55	- 10 I
Cooling power EER	a35 - w23/18 a35 - w23/18	(1)	kW W/W	5.51	11.8	14.05	6.07	13 4.02	15.48	6.54	3.87	16.0
Cooling output (fancoils)	a35 - w23/16	(ii) (m)		5.15	11.02	13.13	5.83	12.49	14.88	6	12.85	15.
EER (fancoils)	a35 - w12/7	(m)		-	2.64	-	-	2.46	-	-	2.38	-
Energy efficiency class in water heating 35°C	Warmer Climate				A+++			A+++			A+++	
SCOP	Warmer Climate				6.16			5.31			5.28	
s (Seasonal efficiency for space heating)	Warmer Climate		ηs %		245.0			211.0			210.0	
Energy efficiency class in water heating 35°C	Average Climate				A+++			A++			A++	
SCOP	Average Climate		no 0/		4.41 175.0			4.23 168.0			3.96 157.0	
s (Seasonal efficiency for space heating) Energy efficiency class in water heating 35°C	Average Climate Cold Climate		ηs %		A+			A+			157.U A+	
SCOP	Cold Climate Cold Climate				3.58			3.33			3.41	
s (Seasonal efficiency for space heating)	Cold Climate		ηs %		142.0			132.0			135.0	
Energy efficiency class in water heating 55°C	Warmer Climate		- 1		A+++			A+++			A+++	
SCOP	Warmer Climate				4.33			4.18			4.51	
s (Seasonal efficiency for space heating)	Warmer Climate		ηs %		172.0			166.0			179.0	
Energy efficiency class in water heating 55°C	Average Climate				A++			A++			A++	
SCOP	Average Climate		0/		3.21			3.23			3.21	
s (Seasonal efficiency for space heating) Energy efficiency class in water heating 55°C	Average Climate Cold Climate		ηs %		127.0			128.0			127.0	
SCOP	Cold Climate				2.81			2.81			2.81	
s (Seasonal efficiency for space heating)	Cold Climate		ηs %		111.0			111.0			111.0	
Indoor unit sound power	cord cirriate		dB(A)		46			46			46	
Indoor unit sound pressure		(n)	dB(A)		40			40			40	
Outdoor unit sound power (nominal)			dB(A)		69			71			72	
Outdoor unit sound pressure (nominal)		(0)	dB(A)		46			48			49	
System circulator absorption			W		8 - 140	0		8 - 140	^		8 - 140	0
Supply voltage indoor unit Maximum current absorbed indoor unit with additional active heating			V/ph/Hz		220-240/1/5	U		220-240/1/5	U		220-240/1/5	U
elements			A		27.2			27.2			27.2	
Maximum power absorbed indoor unit with additional active heating			kW		6.22			6.22			6.22	
elements												
Additional electric heating elements			kW V/ph/Hz		3,0+3,0 220-240/1/5	Λ		3,0+3,0 220-240/1/5	n		3,0+3,0 220-240/1/5	n
Supply voltage outdoor unit Dutdoor unit maximum absorbed current			А		27	U		27	U		27	U
Outdoor unit maximum absorbed content			kW		6			6			6	
Compressor type				Twin Rota	ary DC Invert	er 6 poles	Twin Rota	ary DC Invert	er 6 poles	Twin Rota	ary DC Invert	er 6 po
Refrigerant inlet connection diameter			и		3/8"-5/8"			3/8"-5/8"			3/8"-5/8"	
Coolant gas		(p)			R410A			R410A			R410A	
Global warming potential			GWP		2088			2088			2088	
Refrigerant gas charge	min may		kg		3.9			3.9 2 - 50			3.9 2 - 50	
Refrigerant piping length limit Refrigerant piping length limit without minimum surface check	min - max	, .			2 - 50			2 - 50			2 - 50	
according to IEC 60335-2-40:2018	max	(q)			-			-			-	
Drinking water - DHW hydraulic connections					7"			7"			7"	
System expansion valve capacity					8			8			8	
Load profile according to EN16147	August Cli				XL			XL			XL	
DHW production energy efficiency class THW (seasonal production efficiency DHW)	Average Climate		%		95			95			95	
Goller volume	Average Climate		%		200			200			200	
Boiler interior surface material				NN12 d	glazed steel :	S235.JR	DD12 c	zuu glazed steel :	S235.JR	nn12 c	zou glazed steel :	\$235.IR
Heat exchanger in the boiler			m²	טטוב צ	2.4	02000N	0012	2.4	JE00011	5512 8	2.4	2200011
Type and thickness of boiler insulation				Hard expand		hane 55 mm	Hard expand		nane 55 mm	Hard expand		hane 55
Specific dispersion			W/K		2			2			2	
DHW expansion tank capacity					7			7			7	
DHW hydraulic connections					3/4"			3/4"			3/4"	

ONLY FOR SHERPA TOWER S2

⁽a) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 30°C/35°C (b) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 30°C/35°C (c) Heating mode, external air temperature 7°C b.s./8°C b.u., inlet/outlet water temperature 30°C/35°C (d) Heating mode, external air temperature 15°C b.s./1°C b.u., inlet/outlet water temperature 30°C/45°C (g) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 40°C/45°C (g) Heating mode, external air temperature 2°C b.s./8°C b.u., inlet/outlet water temperature 40°C/45°C (f) Heating mode, external air temperature 7°C b.s./8°C b.u., inlet/outlet water temperature 40°C/45°C (f) Heating mode, external air temperature 15°C b.s./8°C b.u., inlet/outlet water temperature 40°C/45°C (f) Heating mode, external air temperature 15°C b.s./16°C b.u., inlet/outlet water temperature 40°C/45°C

⁽I) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 23°C/18°C (m) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 12°C/7°C (n) Sound pressure values measured at a distance of 1 m in a semi-anechoic chamber (o) Sound pressure values measured at a distance of 4 m in free field distance (p) Non-airtightally sealed equipment containing fluorinated GAS (q) maximum length of the refrigeration pipes beyond which checks on the minimum surface of the installation rooms are necessary, check the technical manual

	THREE-PHASE R410A TECHNICAL DATA					12T			14T			16T	
	ODU Sherpa S2					02008			02009			02010	
	IDU Sherpa S2 IDU Sherpa Tower S2					02041 02047			02041 02047			02041 02047	
	Compressor frequency				Minimum	Nominal	Maximum	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum
	Heating output	a7/6 - w30/35	(a)	kW	4.77	12.1	15.79	5.52	14	18.27	6.12	15.5	20.23
	COP Heating output	a7/6 - w30/35 a2/1 - w30/35	(a) (b)	W/W kW	3.6	4.53 9.14	11.41	4.29	4.31	13.62	4.31	4.19 10.95	13.67
	COP	a2/1 - w30/35	(b)	W/W	-	3.6	-	-	3.42	-	-	3.39	-
	Heating output	a-7/-8 - w30/35	(c)	kW	3.72	9.69	10.64	4.31	11.21	12.31	4.32	11.25	12.35
	COP Heating output	a-7/-8 - w30/35 a-15/-16 - w30/35	(c) (d)	W/W kW	2.38	2.75 6.19	6.79	2.74	2.66 7.13	7.83	2.93	2.64 7.62	8.36
IJ	COP	a-15/-16 - w30/35	· /	W/W		2.17	-	-	2.09	7.03		2.05	- 0.30
PRECISE PERFORMANCE	Heating output (fancoils)	a7/6 - w40/45	(f)	kW	4.7	11.91	15.54	5.48	13.9	18.14	6.13	15.53	20.26
ERFO	COP (fancoils) Heating output (fancoils)	a7/6 - w40/45 a2/1 - w40/45	(f)	W/W kW	3.65	3.44 9.26	11.56	4.51	3.3	14.31	4.97	3.18	15.76
ISE P	COP (fancoils)	a2/1 - w40/45	(g)	W/W		2.8	-	4.31	2.7	- 14.31	4.97	2.68	-
PREC	Heating output (fancoils)	a-7/-8 - w40/45	(h)	kW	3.73	9.7	10.65	4.38	11.4	12.51	4.39	11.44	12.56
	COP (fancoils)	a-7/-8 - w40/45	(h)	W/W	- 2.02	2.26		- 2.22	2.17	-	- 2.40	2.15	- 711
	Heating output (fancoils) COP (fancoils)	a-15/-16 - w40/45 a-15/-16 - w40/45	(i) (i)	kW W/W	2.02	5.27 1.74	5.78	2.33	6.06 1.67	6.65	2.49	6.48 1.64	7.11
	Cooling power	a35 - w23/18	(I)	kW	5.51	11.8	14.05	6.45	13.8	16.44	6.87	14.7	17.51
	EER	a35 - w23/18	(I)	W/W	-	4.59		-	4.21		-	3.9	-
	Cooling output (fancoils) EER (fancoils)	a35 - w12/7 a35 - w12/7	(m) (m)	kW W/W	5.72	12.25 2.69	14.59	5.83	13.24	14.88	6.27	13.43	16
	Energy efficiency class in water heating 35°C	Warmer Climate	(111)	VV/ VV	-	A+++		-	A+++	-	-	A+++	
	SCOP	Warmer Climate				6.41			6.53			6.13	
	s (Seasonal efficiency for space heating) Energy efficiency class in water heating 35°C	Warmer Climate Average Climate		ηs %		255.0 A+++			260.0 A+++			244.0 A++	
	SCOP	Average Climate				4.63			4.51			4.33	
	s (Seasonal efficiency for space heating)	Average Climate		ηs %		184.0			179.0			172.0	
	Energy efficiency class in water heating 35°C	Cold Climate				A++			A++			A+	
EFFICIENCIES	SCOP s (Seasonal efficiency for space heating)	Cold Climate Cold Climate		ηs %		3.96 157.0			3.78 150.0			3.61 143.0	
ICIE	Energy efficiency class in water heating 55°C	Warmer Climate		110 70		A+++			A+++			A+++	
监	SCOP	Warmer Climate				4.13			4.21			4.21	
	s (Seasonal efficiency for space heating) Energy efficiency class in water heating 55°C	Warmer Climate Average Climate		ηs %		164.0 A++			167.0 A++			167.0 A++	
	SCOP	Average Climate				3.23			3.28			3.28	
	s (Seasonal efficiency for space heating)	Average Climate		ηs %		128.0			130.0			130.0	
	Energy efficiency class in water heating 55°C SCOP	Cold Climate				A+ 2.70			A+			A+	
	s (Seasonal efficiency for space heating)	Cold Climate Cold Climate		ηs %		2.78			2.73			2.76	
Ę,	Indoor unit sound power	cord cirrinate		dB(A)		46			46			46	
NOISE LEVEL	Indoor unit sound pressure		(n)	dB(A)		40			40			40	
SION	Outdoor unit sound power (nominal) Outdoor unit sound pressure (nominal)		(0)	dB(A)		70 47			72 49			72 49	
	System circulator absorption		(0)	W		8 - 140			8 - 140			8 - 140	
	Supply voltage indoor unit			V/ph/Hz	í	220-240/1/5	0	î	220-240/1/50)	i	220-240/1/50)
L DATA	Maximum current absorbed indoor unit with additional active heating elements			A		27.2			27.2			27.2	
	Maximum power absorbed indoor unit with additional active heating			kW		6.22			6.22			6.22	
ELECTRIC	elements Additional electric heating elements			kW		3,0+3,0			3,0+3,0			3,0+3,0	
岀	Supply voltage outdoor unit			V/ph/Hz	3	380-415/3/5	0	3	380-415/3/5	כ	3	380-415/3/50)
	Outdoor unit maximum absorbed current			A kW		9			9			9	
	Outdoor unit maximum absorbed power Compressor type			KVV	Twin Rota	ary DC Invert	ter 6 poles	Twin Rota	ary DC Invert	er 6 poles	Twin Rota	ary DC Invert	er 6 poles
⊨	Refrigerant inlet connection diameter			"		3/8"-5/8"			3/8"-5/8"			3/8"-5/8"	
COOLING CIRCUIT	Coolant gas		(p)	CMD		R410A			R410A			R410A	
D 9NI	Global warming potential Refrigerant gas charge			GWP kg		2088 4.2			2088 4.2			2088	
1000	Refrigerant piping length limit	min - max		1.8		2 - 50			2 - 50			2 - 50	
	Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018	max	(q)			-			-			-	
	Drinking water - DHW hydraulic connections			"		7"			7"]"	
HYDRA TAG	System expansion valve capacity			I		8			8			8	
	Load profile according to EN16147	Augrage Climate				XL			XL			XL	
LER	DHW production energy efficiency class nHW (seasonal production efficiency DHW)	Average Climate Average Climate		%		95			95			95	
NTEGRATED DHW BOILER	Boiler volume			1		200			200			200	
HOO	Boiler interior surface material			_	DD12 g	glazed steel S	S235JR	DD12 g	glazed steel S	3235JR	DD12 g	glazed steel S	235JR
RATED	Heat exchanger in the boiler Type and thickness of boiler insulation			m²	Hard expand	2.4 ded notvurett	hane 55 mm	Hard expand	2.4 led nolyureth	nane 55 mm	Hard expand	2.4 led nolyureth	nane 55 mm
UTEGR	Specific dispersion			W/K	. ната схрапс	2		. rara exparic	2	isine oo miili	. rara expant	2	idine do mini
=	DHW expansion tank capacity			İ		7			7			7	
	DHW hydraulic connections			- "		3/4"			3/4"			3/4"	

ONLY FOR SHERPA TOWER S2

⁽a) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 30°C/35°C (b) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 30°C/35°C (c) Heating mode, external air temperature 7°C b.s./1°C b.u., inlet/outlet water temperature 30°C/35°C (d) Heating mode, external air temperature 7°C b.s./1°C b.u., inlet/outlet water temperature 30°C/45°C (f) Heating mode, external air temperature 7°C b.s./1°C b.u., inlet/outlet water temperature 40°C/45°C (g) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 40°C/45°C (f) Heating mode, external air temperature 7°C b.s./8°C b.u., inlet/outlet water temperature 40°C/45°C (f) Heating mode, external air temperature 47°C/45°C b.u., inlet/outlet water temperature 40°C/45°C (f) Heating mode, external air temperature 47°C/45°C b.u., inlet/outlet water temperature 40°C/45°C (f) Heating mode, external air temperature 47°C/45°C b.u., inlet/outlet water temperature 40°C/45°C (f) Heating mode, external air temperature 47°C/45°C b.u., inlet/outlet water temperature 40°C/45°C (f) Heating mode, external air temperature 47°C/45°C b.u., inlet/outlet water temperature 40°C/45°C (f) Heating mode, external air temperature 47°C/45°C b.u., inlet/outlet water temperature 40°C/45°C (f) Heating mode, external air temperature 47°C/45°C b.u., inlet/outlet water temperature 40°C/45°C (f) Heating mode, external air temperature 47°C/45°C b.u., inlet/outlet water temperature 40°C/45°C (f) Heating mode, external air temperature 47°C/45°C b.u., inlet/outlet water temperature 40°C/45°C (f) Heating mode, external air temperature 47°C/45°C b.u., inlet/outlet water temperature 40°C/45°C f) Heating mode, external air temperature 47°C/45°C b.u., inlet/outlet water temperature 40°C/45°C f) Heating mode, external air temperature 47°C/45°C f) Heating f) Heatin

⁽I) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 23°C/18°C (m) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 23°C/18°C (n) Sound pressure values measured at a distance of 1 m in a semi-anechoic chamber (o) Sound pressure values measured at a distance of 4 m in free field distance (p) Non-airtightally sealed equipment containing fluorinated GAS (q) maximum length of the refrigeration pipes beyond which checks on the minimum surface of the installation rooms are necessary, check the technical manual

ACCES	SSORIES		suspended	tower
	B0916	Kit 3-way valve for DHW	0	•
SQ	B0917	Solar thermal probe kit	0	_
COMMANDS	B0623	Outdoor air temperature probe kit	0	0
ā	B0624	Kit DHW storage tank sensor	0	•
	B0931	Remote control display kit 10 m	0	0
	01804	HE 200 L storage tank	0	_
	01805	HE 300 L storage tank	0	_
쏦	01806	HES 300 L solar storage tank	0	_
STORAGE TANKS / PUFFER	01807	Hybride boiler HY 300 L	0	_
IKS/	01808	HYS 300 L solar hybrid storage tank	0	_
E TA	B0618	Resistance for boiler 2 kW	0	_
ORAG	B0666	Resistance for boiler 3 kW	0	_
ST	B0617	Set flens voor weerstand	0	_
	01199	Thermal accumulation 50 L	0	0
	01200	Thermal accumulation 100 L	0	0

igtherapsi Optional accessory | igllow Standard accessory | - Accessory not compatible

Accessory description on page 50

Touchscreen interface

Sherpa Aquadue and Sherpa heat pumps, suspended and tower versions

HOME PAGE

The home page shows the following information:

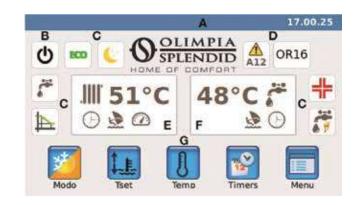
A - System date and time

- B Current mode active (Stand-by, cooling, heating, DHW only)
- C Active functions (Climate Curve, Turbo DHW, DHW OFF, anti-legionella, Night, ECO)
- D Alarms/overrides in progress (flashing)
- E System water temperature values, system active timers, Holiday, Rating
- F DHW tank water temperature values, domestic hot water timers active, Holiday

G - Activation icons: Mode: operation

Tset: system and domestic hot water set point

Tshow: temperature probe reading Timers: hourly programming Menu: machine functions



OPERATING MODE

By touching the Mode icon. the page for configuring the operating mode is accessed. This page shows the selection icons for all the available operating modes.

- Stand-by **o**, the system is off
- Cooling , the system produces cold water until the set-point is reached (predetermined or dynamic set point defined by climatic curve)
- Heating the system produces hot water until the set-point is reached (predetermined or dynamic set point defined by the climatic curve)
- ECO the system produces water until the ECO energy saving setpoint is reached (if activate, the climate control the ECO set point is not considered)
- Night , the system limits the output and noise of the external unit
- DHW Turbo, the system produces domestic hot water using all the power of the outdoor unit up to to the set limit.

Modalità di funzionamento Stuby Raffredd. Riscald. Solo ACS Economico Notturno Turbo ACS ACS Off

SET POINT

By touching the Tset icon, it is possible to access the set point configuration page.

- Cooling water temperature
- ECO cooling water temperature
- Heating water temperature
- ECO heating water temperature
- Domestic hot water temperature (external storage tank set point). The cooling and heating set points are not considered by the controller if the set-point with climatic curve mode has been enabled.

The set point values are modified with a simple touch of the set value .

Setpoint		
Temp. acqua raffrescamento	15.0°C	~
Temp. raffrescamento ECO	18.0°C	ANC.
Temp. acqua riscaldamento	35.0°C	V
Temp. riscaldamento ECO	30.0°C	
Temp. acqua calda sanitaria	65.0°C	0

TIMERS

Tapping the Timers icon accesses the available schedules.

- Heating/cooling timer
- •DHW timer
- Night timer
- Holidays

Touching the "Heating/Cooling Timer" icon or "DHW timer" or "Night timer" on the page appears where it is possible to view the activation bands of each timer.

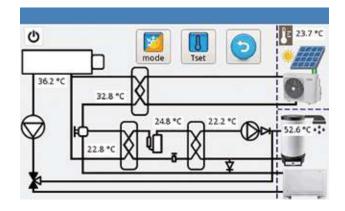




PHOTOVOLTAIC CONTACT

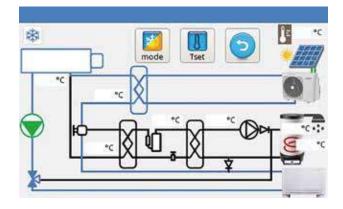
The machine has a contact that is used to activate a setpoint delta on the DHW, heating and cooling to accumulate thermal energy when there is an electrical overproduction from the photovoltaic system.

The photovoltaic function therefore allows the heat pump to force the accumulation of thermal energy in the system. Energy storage is obtained by adding a delta to the main circuit water temperature (colder water if in cooling mode, warmer water if in heating mode) and to the water contained in the DHW tank. Thanks to the possibility of storing domestic hot water at up to a maximum of 75°C, the Aquadue versions are used to store a large quantity of energy, thereby maximising photovoltaic overproduction.



SOLAR THERMAL PROBE

An additional probe that detects the temperature of the solar thermal pipes, inhibits the heat pump to produce DHW only with solar thermal if the delivery temperature of the solar panels is above a certain settable value or the difference between this temperature and the set point of the storage tank is higher than a certain settable value.



CLIMATIC CURVES

To optimise energy savings, two climatic curves are available, one for heating and one for cooling. They are used to adjust the water temperature to the outside air temperature and therefore to the thermal load. The information displayed is:

- Cooling climatic curve and heating climatic curve diagrams,
- Values of the setting parameters of each curve
- It is possible to activate and deactivate each Climatic function
- It is possible to modify the parameters of the climatic curves

The characteristic parameters of each curve are:

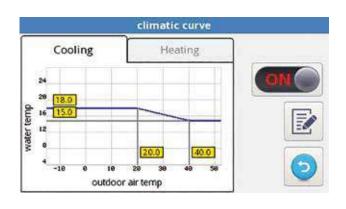
- External air temperature for maximum water temperature
- Maximum water temperature
- External air temperature for minimum water temperature
- Minimum water temperature.



On site when the system water is below 12°C, it is possible to activate the heating elements of the heat pump to allow the screed to be heated in the case of a heating system. By setting the specific parameter from the service menu, the installer enables one or two heating elements for low temperature start-up.

CHOICE OF COMMUNICATION PROTOCOL

Possibility of choosing between ModBus RTU or ASCII, for coupling with SiOS Control. By setting the specific parameter from the service menu, the installer enables communication with Modbus RTU protocol or with ASCII protocol.



SHERPA COLD

Split heat pump for cold climates



HIGH PERFORMANCE ALSO AT LOW TEMPERATURE

The defrosting cycles of the machine are optimised to guarantee high performance even with low external temperatures.



WIDE OPERATING LIMITS

Sherpa Cold can work up to outdoor air temperatures of -32°C and + 48° C



INVERTER SCROLL COMPRESSORS WITH STEAM INJECTION

Technology that improves performance in low temperature applications.



FEATURES

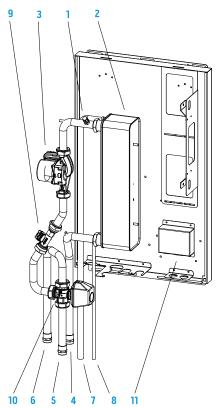
- · Heat pump air-water inverter
- Energy efficiency class in heating moderate climate: up to A+++ (35°C) and A++ (55°C)
- Energy efficiency class in heating cold climate: up to A+ (35°C) and A+(55°C)
- Available power sizes: 3 power sizes with R410A refrigerant single phase (10-12-15 kW) and 4 power sizes with R410A refrigerant three-phase (10-12-15-18 kW)
- provides DHW with temperature up to 55°C.
- Compressor Scroll Inverter with steam injection
- Expansion valve: electronic
- Refrigeration circuit with economiser

- Remote control panel colour touchscreen
- Maintenance of the machine power even with rigid external temperatures
- Optimisation of the machine's defrosting cycles and optimum performance even with rigid external temperatures
- **Operating limits:** up to -32°C, +48°C (see the technical manuals for details)
- R410A refrigerant gas*
- External air probe integrated in the machine
- Devices supplied with the machine:
- metal frame for installation of the external touch panel
- 20m cable for UI-UE connection
- pair of 250 mm high metal feet with anti-vibration devices
- back metal mesh for battery protection
- integration kit relay for activation of the boiler or other electrical heating element
- domestic hot water management kit relay k1, 1-1/4" 3-way valve, b3 probe
- · heating element for condensate drain pipe
- 800 mm fan grille to reduce noise (sizes 15, 15T, 18T)

^{*} Equipment not hermetically sealed containing fluorinated gases with an equivalent GWP of 2088.



LAYOUT, DIMENSIONS, WEIGHT

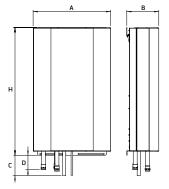


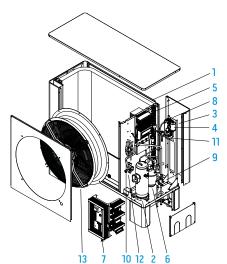
- 1. Vent valve
- 2. Plate heat exchanger
- 3. Circulation pump
- 4. Water inlet hose
- 5. Water outlet hose (system)
- 6. Water outlet hose (DHW)
- 7. Gas passage hose8. Liquid passage hose9. Flow meter
- **10.** 3-way valve
- 11. Electrical panel



Indoor Units

					10 T	12 T	15 T	18 T
Α	mm	550	550	550	550	550	550	550
В	mm	228	228	228	228	228	228	228
C	mm	147	147	147	147	147	147	147
D	mm	100	100	100	100	100	100	100
Н	mm	907	907	907	907	907	907	907
Weight	kg	50	50	50	50	50	50	50

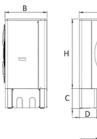


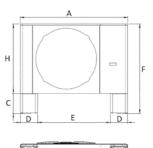


- 1. Evaporator
- 2. Compressor
- 3. Filter
- 4. Liquid indicator
- 5. Inverter
- 6. Liquid tank
- 7. Electrical panel
- 8. Economiser
- 9. Ball valve
- 10. Check valve
- 11. Electronic expansion valve
- **12.** 4-way valve
- **13.** Fan

Outdoor units

		10	12	15	10 T	12 T	15 T	18 T
Α	mm	1406	1406	1591	1406	1406	1591	1591
В	mm	550	550	546	550	550	546	546
C	mm	259	259	259	259	259	259	259
D	mm	225	225	225	225	225	225	225
E	mm	949	949	1134	949	949	1134	1134
F	mm	1167	1167	1271	1167	1167	1271	1271
Н	mm	908	908	1012	908	908	1012	1012
Weight	kg	160	160	200	160	160	200	200





					NEW			NEW			NEW	
TECHNICAL DATA					10			12			15	
ODU Sherpa Cold					02269			02271			02273	
IDU Sherpa Cold				M: :	02276		10. 1	02276		10.	02277	
Compressor frequency Heating output	a7/6 - w30/35	(a)	kW	Minimum 3.90	Nominal 9.60	Maximum	Minimum 4.40	Nominal 11.52	Maximum	Minimum 5.51	Nominal 14.40	Max
COP	a7/6 - w30/35	(a)	W/W	3.30	4.27	-	4.40	4.24	-	-	4.68	
Heating output	a2/1 - w30/35	(b)	kW	4.80	9.60		5.76	11.52		6.82	14.40	
COP	a2/1 - w30/35	(b)	W/W	-	3.83	-	-	4.04	-	-	3.85	
Heating output	a-7/-8 - w30/35	(c)	kW	4.17	9.60	-	5.76	11.52	-	6.26	14.40	
COP		(c)	W/W	-	2.98	-	-	3.22	-	-	2.98	
Heating output	a-15/-16 - w30/35		kW	3.72	8.93	-	5.24	11.52	-	5.52	13.25	
COP	a-15/-16 - w30/35		W/W	- 0.00	2.26	-	-	2.30	-	-	2.57	
Heating output COP	a-20/-19 - w30/35 a-20/-19 - w30/35		kW W/W	3.28	7.87	-	4.80	11.52	-	4.88	11.71	
Heating output (fancoils)	a7/6 - w40/45	(f)	kW	3.90	9.60	-	4.44	11.50	-	5.51	14.40	
COP (fancoils)	a7/6 - w40/45	(f)	W/W	-	3.33	-	-	3.47	-	-	3.53	
Heating output (fancoils)	a2/1 - w40/45	(g)	kW	4.80	9.60	-	5.81	11.50	-	6.82	14.40	
COP (fancoils)	a2/1 - w40/45	(g)	W/W	-	2.82	-	-	3.08	-	-	3.08	
Heating output (fancoils)	a-7/-8 - w40/45	(h)	kW	4.17	9.60	-	5.76	11.52	-	6.26	14.40	
COP (fancoils)	a-7/-8 - w40/45	(h)	W/W	-	2.33	-	-	2.55	-	-	2.45	
Heating output (fancoils)	a-15/-16 - w40/45		kW	3.68	8.83	-	5.02	11.04	-	5.36	12.86	
COP (fancoils)	a-15/-16 - w40/45		W/W	- 0.77	1.90	-	-	1.91	-	-	2.03	
Heating output (fancoils) COP (fancoils)	a-20/-19 - w40/45		W/W	3.17	7.61	-	4.44	10.66	-	4.80	11.52	
Cooling power	a-20/-19 - w40/45 a35 - w23/18	(1)	W/W kW	3.53	1.76 8.40	-	3.74	10.36	-	4.08	11.31	
EER	a35 - w23/18	(1)	W/W	-	4.26	-	-	4.08	-	-	4.45	
Cooling output (fancoils)	a35 - w12/7	(m)	kW	2.71	6.44		2.87	7.94		3.13	8.67	
EER (fancoils)	a35 - w12/7	(m)		-	3.31	-	-	3.15	-	-	3.45	
Energy efficiency class in water heating 35°C	Warmer Climate				A+++			A+++			A+++	
SCOP	Warmer Climate				4.62			4.69			4.79	
s (Seasonal efficiency for space heating)	Warmer Climate		ηs %		181.8			184.8			188.6	
Energy efficiency class in water heating 35°C	Average Climate				A+++			A+++			A+++	
SCOP s (Seasonal efficiency for space heating)	Average Climate		ηs %		4.50 177.3			4.58 180.3			4.60 181.1	
Energy efficiency class in water heating 35°C	Average Climate Cold Climate		1 5 %		A+			A+			101.1 A+	
SCOP	Cold Climate				3.60			3.65			3.71	
s (Seasonal efficiency for space heating)	Cold Climate		ηs %		141.1			143			145.3	
Energy efficiency class in water heating 55°C	Warmer Climate		10 /4		A++			A++			A++	
SCOP	Warmer Climate				3.27			3.43			3.45	
s (Seasonal efficiency for space heating)	Warmer Climate		ηs %		127.8			134.2			135.1	
Energy efficiency class in water heating 55°C	Average Climate				A++			A++			A++	
SCOP	Average Climate		0.1		3.23			3.33			3.37	
s (Seasonal efficiency for space heating) Energy efficiency class in water heating 55°C	Average Climate		ηs %		126.3			130.1			131.9 A+	
SCOP	Cold Climate Cold Climate				2.68			2.60			2.76	
s (Seasonal efficiency for space heating)	Cold Climate		ηs %		104.2			101.2			107.3	
Indoor unit sound power	co.a cimiate		dB(A)		36			36			36	
Indoor unit sound pressure		(n)	dB(A)		30			30			30	
Outdoor unit sound power (nominal)			dB(A)		53.4			53.4			52.9	
Outdoor unit sound pressure (nominal)		(0)	dB(A)		33.5			33.5			33	
System circulator absorption			W		75			75			75	
Supply voltage indoor unit Maximum absorbed surrent of the internal unit			V/ph/Hz		230/1/50			230/1/50			230/1/50	
Maximum absorbed current of the internal unit Maximum power consumption of the internal unit			A kW		0.33			0.33			0.33	
Additional electric heating elements			kW		0.75			0./5			0.75	
Supply voltage outdoor unit			V/ph/Hz		230/1/50			230/1/50			230/1/50	
Outdoor unit maximum absorbed current			Α		24.6			34.3			38.7	
Outdoor unit maximum absorbed power			kW		5.1			7.1			8.0	
Compressor type					oll with injec			oll with injec			oll with injec	
Refrigerant inlet connection diameter			п	See ir	nstallation m	anual	See in	stallation m	nanual	See ir	nstallation m	nanua
Coolant gas		(p)			R410A			R410A			R410A	
Global warming potential			GWP		2088			2088			2088	
Refrigerant gas charge Refrigerant piping length limit without minimum surface			kg		5			5			6.5	
verification		(q)			-			-			-	
Hydraulic connections			п		7"			7"]"	

⁽a) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 30°C/35°C (b) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 30°C/35°C (c) Heating mode, external air temperature -15°C b.s./-16°C b.u., inlet/outlet water temperature 30°C/35°C (d) Heating mode, external air temperature -15°C b.s./-16°C b.u., inlet/outlet water temperature 30°C/35°C (d) Heating mode, external air temperature 2°C b.s./16°C b.u., inlet/outlet water temperature 40°C/45°C (g) Heating mode, external air temperature 2°C b.s./16°C b.u., inlet/outlet water temperature 40°C/45°C (f) Heating mode, external air temperature 75°C b.s./16°C b.u., inlet/outlet water temperature 40°C/45°C (f) Heating mode, external air temperature 35°C, inlet/outlet water temperature 40°C/45°C (f) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 23°C/18°C (f) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 23°C/18°C (f) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 23°C/18°C (f) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 23°C/18°C (f) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 23°C/18°C (f) Cooling mode, external air temperature 25°C, inlet/outlet water temperature 23°C/18°C (f) Cooling mode, external air temperature 25°C, inlet/outlet water temperature 23°C/18°C (f) Cooling mode, external air temperature 25°C, inlet/outlet water temperature 23°C/18°C (f) Cooling mode, external air temperature 25°C, inlet/outlet water temperature 23°C/18°C (f) Cooling mode, external air temperature 25°C, inlet/outlet water temperature 23°C/18°C (f) Cooling mode, external air temperature 25°C, inlet/outlet water temperature 25°C, inlet/outlet wa

⁽m) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 12°C/7°C
(n) Sound pressure values measured at a distance of 1 m in a semi-anechoic chamber
(o) Sound pressure values measured at a distance of 4 m in free field distance
(p) Non-airtighally sealed equipment containing fluorinated 6AS
(q) maximum length of the refrigeration pipes beyond which checks are necessary on the minimum surface of the installation rooms, check the technical manual
(f) Heating mode, external air temperature -20°C b.s./-19°C b.u., inlet/outlet water temperature 30°C/35°C
(s) Heating mode, external air temperature -20°C b.s./-19°C b.u., inlet/outlet water temperature 40°C/45°C

					NEW			NEW			NEW			NEW	
TECHNICAL DATA					10 T			12 T			15 T			18 T	
ODU Sherpa Cold					02270			02272			02274			02275	
IDU Sherpa Cold					02276			02276			02277			02278	
Compressor frequency				Minimum						Minimum			Minimum		Maxim
Heating output	a7/6 - w30/35	(a)	kW	3.90	9.60	-	4.40	11.52	-	5.51	14.40	-	6.24	17.28	-
COP	a7/6 - w30/35	(a)	_	4.80	4.27 9.60	-	5.76	4.24 11.52	-	6.82	4.68	-	7.78	4.34 17.28	-
Heating output COP	a2/1 - w30/35 a2/1 - w30/35	(b)	kW W/W	4.80	3.83	-	5.76	4.04	-	0.82	14.40 3.85	-	7.78	3.37	
Heating output	a-7/-8 - w30/35	(c)	kW	4.17	9.60	-	5.76	11.52	-	6.26	14.40	-	7.20	17.28	
COP	a-7/-8 - w30/35	(c)	W/W	-	2.98		-	3.22	-	-	2.98	-	-	2.61	-
Heating output	a-15/-16 - w30/35	(d)	kW	3.72	8.93	-	5.24	11.52	-	5.52	13.25	-	6.40	15.36	-
COP	a-15/-16 - w30/35	(d)	W/W	-	2.26	-	-	2.30	-	-	2.57	-	-	2.23	-
Heating output	a-20/-19 - w30/35		kW	3.28	7.87	-	4.80	11.52	-	4.88	11.71	-	5.60	13.44	-
COP	a-20/-19 - w30/35	. ,	W/W	-	2.09	-	-	1.97	-	-	2.43	-	-	2.03	-
Heating output (fancoils)	a7/6 - w40/45	(f)	kW	3.90	9.60	-	4.44	11.50	-	5.51	14.40	-	6.24	17.28	-
COP (fancoils)	a7/6 - w40/45	(f)	W/W kW	4.80	3.33 9.60	-	5.81	3.47	-	6.82	3.53	-	7.78	3.05 17.28	-
Heating output (fancoils) COP (fancoils)	a2/1 - w40/45 a2/1 - w40/45	(g)	W/W	4.00	2.82	-	3.01	3.08	-	0.02	3.08	-	1.70	2.80	-
Heating output (fancoils)	a-7/-8 - w40/45	(b)	kW	4.17	9.60		5.76	11.52	-	6.26	14.40	-	7.20	17.28	-
COP (fancoils)	a-7/-8 - w40/45	(h)		-	2.33	-	-	2.55	-	-	2.45	-	-	2.20	-
leating output (fancoils)	a-15/-16 - w40/45	(i)	kW	3.68	8.83	-	5.02	11.04	-	5.36	12.86	-	5.80	13.92	-
OP (fancoils)	a-15/-16 - w40/45	(i)	W/W	-	1.90	-	-	1.91	-	-	2.03	-	-	1.90	
eating output (fancoils)	a-20/-19 - w40/45		W/W	3.17	7.61	-	4.44	10.66	-	4.80	11.52	-	5.20	12.48	
OP (fancoils)	a-20/-19 - w40/45		W/W	- 0.50	1.76	-	- 0.74	1.68	-	-	1.92	-	-	1.79	
poling power	a35 - w23/18	(1)	kW	3.53	8.40	-	3.74	10.36	-	4.08	11.31	-	6.62	15.72	
ER	a35 - w23/18 a35 - w12/7	(l)	W/W	2 77	4.26	-	2 07	4.08	-	2 12	4.45	-	- 5.00	4.11	-
poling output (fancoils) ER (fancoils)	a35 - w12/7	(m) (m)	kW W/W	2.71	6.44 3.31	-	2.87	7.94	-	3.13	8.67 3.45	-	5.08	12.34	
nergy efficiency class in water heating 35°C	Warmer Climate	(111)	41/11		A+++			A+++	•		A+++			A+++	
COP	Warmer Climate				4.51			4.69			4.79			4.66	
(Seasonal efficiency for space heating)	Warmer Climate		ηs %		177.6			184.8			188.6			183.7	
nergy efficiency class in water heating 35°C	Average Climate				A+++			A+++	•		A+++			A+++	—
COP	Average Climate				4.50			4.58			4.60			4.45	
s (Seasonal efficiency for space heating)	Average Climate		ηs %		177.3			180.3			181.1			175	
energy efficiency class in water heating 35°C	Cold Climate				A+			A+			A+			A+	
COP	Cold Climate		no 0/		3.60			3.65			3.71			3.44	
s (Seasonal efficiency for space heating) Energy efficiency class in water heating 55°C	Cold Climate Warmer Climate		ηs %		141.1 A++			143 A++			145.3 A++			134.6	
COP	Warmer Climate				3.27			3.43			3.45			3.19	
(Seasonal efficiency for space heating)	Warmer Climate		ηs %		127.8			134.2			135.1			124.7	
nergy efficiency class in water heating 55°C	Average Climate		10.70		A++			A++	•		A++			A+	
COP	Average Climate				3.23			3.33			3.37			3.13	
s (Seasonal efficiency for space heating)	Average Climate		ηs %		126.3			130.1			131.9			122.2	
nergy efficiency class in water heating 55°C	Cold Climate				A+			A+			A+			Α	
COP	Cold Climate		0/		2.68			2.60			2.76			2.51	
s (Seasonal efficiency for space heating)	Cold Climate		ηs %		104.2			101.2 36			107.3 36			97.4 37	
ndoor unit sound power ndoor unit sound pressure		(n)	dB(A)		36			30			30			31	
utdoor unit sound power (nominal)		(11)	dB(A)		53.4			53.4			52.9			54	
utdoor unit sound pressure (nominal)		(0)	- ' '		33.5			33.5			33			34	
stem circulator absorption		(-)	W		75			75			75			85	
upply voltage indoor unit			V/ph/Hz		230/1/50			230/1/50			230/1/50			230/1/50)
aximum absorbed current of the internal unit			Α		0.33			0.33			0.33			0.33	
aximum power consumption of the internal unit			kW		0.75			0.75			0.75			0.75	
dditional electric heating elements			kW		-			-			-			-	
upply voltage outdoor unit			V/ph/Hz		400/3/50			400/3/50)		400/3/50			400/3/50)
utdoor unit maximum absorbed current utdoor unit maximum absorbed power			A kW		8.2 5.1			7.1			12.8 8.0			13.6	
outdoor unit maximum absorbed power ompressor type			KVV	Scroll	with inje	ction	Scroll	/.I I with inje	ection	Scrol	8.U I with inje	rtion	Corol	8.5 I with inje	oction
orrpressor type efrigerant inlet connection diameter			п		tallation r			tallation i			tallation i			stallation	
oolant gas		(p)		- CC 11130	R410A		OCC 1113	R410A	umour	- JGC 1113	R410A		000 1110	R410A	
ilobal warming potential		(٢)	GWP		2088			2088			2088			2088	
Refrigerant gas charge			kg		5			5			6.5			6.5	
Refrigerant piping length limit without minimum surface verification		(q)			-			-			-			-	
Hydraulic connections			")"			7"]"			7"	
Capacity of expansion vessel			1		-						-			-	

ACCESSORIES

/ ICCL	JJOINIEJ		
	B0900	Cable for Modbus connection touch panel 100m	▼
SES	B0899	Metallic frame for touch panel external installation	0
SESSC	B0903	30M cable for UI-UE connection	0
OTHER ACCESSORIES	B0906	Aesthetic fan cover front grille	≤ 12T
뿔	B0907	Aesthetic fan cover front grille	≥ 15
	B0915	Brass Y filter	0
	01804	HE 200 L storage tank	≤ 10T
FER	01805	HE 300 L storage tank	0
TANKS / PUFFER	01806	HES 300 L solar storage tank	≤ 15T
ANK	01200	Thermal accumulation 100 L	≤ 10T
AGE	B0618	Resistance for boiler 2 kW	0
STORAGE"	B0666	Resistance for boiler 3 kW	0
	B0617	Set flens voor weerstand	0

[●] Standard accessory | ○ Optional accessory | ▼ Required accessory | — Accessory not compatible

Accessory description on page 50

Please note that optional accessories are available for purchase with all models of the heat pump. When compatibility is only possible with certain sizes, the information is shown in the table. Standard accessories are already included in the heat pump code.

SHERPA MONOBLOC





Monoblock heat pump



COMPACT TECHNOLOGY

Compact unit and reduced dimensions. For all power sizes the machine is equipped with a single fan unit.



DOMESTIC HOT WATER UP TO 60°C

Domestic hot water is available with temperatures up to $60\ensuremath{^{\circ}\text{C}}.$



LOW GWP GAS

All power sizes use the R32 refrigerant, characterised by greater efficiency and a greenhouse effect reduced by almost 70% (compared to R410A).



FEATURES

- · Inverter air-water heat pump
- Energy efficiency class in average climate heating: A+++ (35°C) and A++ (55°C)
- Powers available: 4 Powers with single-phase R32 refrigerant (6-8-12-16 kW) and 2 Powers with three-phase R32 refrigerant (12-16 kW)
- DHW production: up to 60°C
- Compressor: airtight twin rotary DC Inverter with steam injection, complete with thermal protection
- Expansion valve:electronic
- Refrigerant circuit with economiser.
- Water side exchange battery: with stainless steel plates, complete with antifreeze heater
- Air side heat exchange battery: with finned battery with copper pipes and aluminium-manganese fins with Golden Fin anti-corrosion treatment, in epoxy resin and hydrophilic treatment.
- Helical fan with brushless DC motors equipped with internal thermal protection,

- safety protection grilles and proportional electronic device for continuous adjustment of the rotation speed of the fans.
- Remote ambient air temperature probe, for managing of the unit on the ambient set-point.
- Structure: in galvanised steel sheet, complete with condensate tray and unit base antifreeze resistance.
- Standard touch screen remote control panel, with 8 m connection cable.
 Integrated Wi-Fi module for machine management via smartphone and tablet, with a dedicated app (Ewpe).
- Refrigerant gas: R32*
- Operating limits: -25°C +48°C.
- External air probe integrated in the machine.

REMOTE CONTROL VIA APP Ewpe

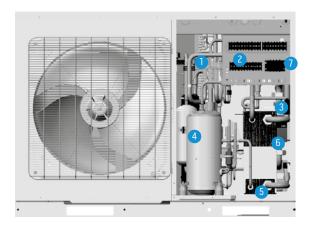
The heat pump can be controlled remotely with Tablet and Smartphone thanks to the standard Wi-Fi module (to be interfaced with a wireless router connected to the Internet). The "Ewpe" App can be downloaded free of charge from the Google and Apple Stores, which allows control of the machine via the Cloud.



^{*} Equipment hermetically sealed containing fluorinated gases with an equivalent GWP of 675 (R32)

OLIMPIA SPLENDID

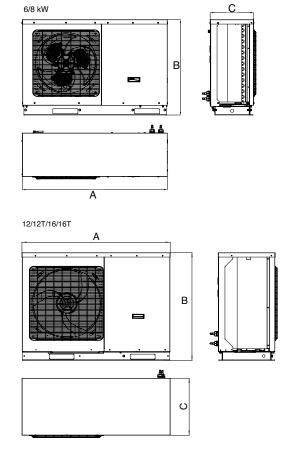
LAYOUT, DIMENSIONS, WEIGHT



- 1. Reversible gas circuit
- 2. Electrical panel
- **3.** Flow switch
- **4.** DC inverter rotary compressor

- 5. Plate heat exchanger6. Variable range circulator7. Expansion vessel (2 or 3 litres)





TECHNICAL DATA						6			8			12			16	
Compressor froguency					Minimum	02021	Maurinauma	Minimum	02022	Maurinauma	Minimum	02023	Mauimum	Minimum	02025	Maurina
Compressor frequency	27/E W20/2E	(2)	(E)	kW	Minimum 2.40	Nominal 6.00	Maximum -	2.40	Nominal 7.50	Maximum -	4.80	12.00	Maximum	Minimum 6.20	Nominal 15.50	Maxim
Heating output COP	a7/6 - w30/35	(a)				5.00	-	2.40	4.60	-	4.80	4.55	-	0.20	4.37	-
	a7/6 - w30/35 a2/1 - w30/35		(E)	W/W kW	2.04	5.50			6.38		4.08	11.90	-	5.27	13.00	-
Heating output		(b)			2.04	4.10	-	2.55	3.93	-	4.08	4.14	-	5.27	4.05	-
COP		(b)		W/W												
Heating output	a-7/-8 - w30/35	(c)		kW	1.68	4.92	-	2.10	5.39	-	3.36	9.60	-	4.34	10.65	-
COP	a-7/-8 - w30/35	(c)		W/W	- 7.04	3.16	-	- 1.00	3.00	-		2.80	-		3.08	-
Heating output	a-15/-16 - w30/35			kW	1.34	3.90	-	1.68	4.50	-	2.69	8.76	-	3.47	10.54	-
COP	a-15/-16 - w30/35		(5)	W/W		2.39	-	-	2.29	-	-	1.79	-	-	1.62	-
Heating output (fancoils)	a7/6 - w40/45	(f)		kW	2.40	6.00	-	3.00	7.50	-	4.80	12.00	-	6.20	15.50	-
COP (fancoils)	a7/6 - w40/45	(f)	(E)	W/W	-	3.80	-		3.75	-	-	3.45		-	3.30	-
Heating output (fancoils)	a2/1 - w40/45	(g)		kW	2.04	5.50	-	2.55	6.30	-	4.08	11.50	-	5.27	13.00	-
COP (fancoils)	a2/1 - w40/45	(g)		W/W	-	3.27	-	-	3.04	-	-	3.20	-	-	3.08	-
Heating output (fancoils)	a-7/-8 - w40/45	(h)		kW	1.68	4.02	-	2.10	4.90	-	3.36	8.60	-	4.34	10.78	-
COP (fancoils)	a-7/-8 - w40/45	(h)		W/W	-	2.04	-	-	2.02	-	-	2.60	-	-	2.24	-
Heating output (fancoils)	a-15/-16 - w40/45			kW	1.34	2.82	-	1.68	3.60	-	2.69	8.04	-	3.47	9.92	-
COP (fancoils)	a-15/-16 - w40/45	(i)		W/W	-	1.36	-	-	1.23	-	-	1.76	-	-	1.58	-
Cooling power	a35 - w23/18	(I)	- ` '	kW	2.32	5.80	-	2.72	6.80	-	4.40	11.00	-	5.80	14.50	-
EER	a35 - w23/18	(I)	(E)	W/W	-	4.30	-	-	4.30	-	-	4.30	-	-	3.77	-
Cooling output (fancoils)	a35 - w12/7	(m)	. ,	kW	1.60	4.00	-	2.00	5.00	-	3.62	9.50	-	5.20	13.00	-
EER (fancoils)	a35 - w12/7	(m)	(E)	W/W	-	3.10	-	-	3.10	-	-	3.05	-	-	2.65	-
Energy efficiency class in water heating 35°C	Warmer Climate					A+++	•		A+++	•		A+++	•		A+++	•
SCOP	Warmer Climate					5.85			5.93			5.68			5.68	
s (Seasonal efficiency for space heating)	Warmer Climate			η s %		231			234			224			224	
Energy efficiency class in water heating 35°C	Average Climate					A+++	•		A+++	•		A+++	•		A++	•
SCOP	Average Climate					4.7			4.65			4.45			4.18	
s (Seasonal efficiency for space heating)	Average Climate			η s %		185			183			175			164	
Energy efficiency class in water heating 35°C	Cold Climate					A+			A+			A+			A+	
SCOP	Cold Climate					3.68			3.69			3.6			3.43	
s (Seasonal efficiency for space heating)	Cold Climate			η s %		144			144			141			134	
Energy efficiency class in water heating 55°C	Warmer Climate			1 3 70		A+++	•		A+++	•		A++	•		A++	
SCOP	Warmer Climate					3.98			3.98			3.8			3.8	
s (Seasonal efficiency for space heating)	Warmer Climate			η s %		156			156			149			149	
Energy efficiency class in water heating 55°C				1 3 /0		A++			A++			A++			A++	
SCOP	Average Climate		(E)			3.23			3.25			3.23			3.2	
s (Seasonal efficiency for space heating)	Average Climate		(E)	n c 9/		126			127			126			125	
	Average Climate		(E)	η s %		A+			A+			A+			A	
Energy efficiency class in water heating 55°C	Cold Climate															
SCOP	Cold Climate			0/		2.7			2.78			2.75			2.5	
s (Seasonal efficiency for space heating)	Cold Climate			ηs %		105			108			107			97	
Indoor unit sound power				dB(A)		-			-			-			-	
Indoor unit sound pressure		(n)	(-)	dB(A)		-			-			-			-	
Outdoor unit sound power (nominal)			(E)			64			65			69			72	
Outdoor unit sound pressure (nominal)		(0)		dB(A)		56			56			57			57	
System circulator absorption				W		4-75			4-75			4-75			4-75	
Supply voltage indoor unit				V/ph/Hz		-			-			-			-	
Maximum absorbed current of the internal unit with active heating elements				А		-			-			-			-	
Internal unit maximum power consumption with active heating elements				kW		-			-			-			-	
Additional electric heating elements				kW		-			-			-			-	
Supply voltage outdoor unit				V/ph/Hz	22	20-240/1/	50	22	20-240/1/	50	22	0-240/1/	50	22	0-240/1/	50
Outdoor unit maximum absorbed current				А		10.4			10.4			25			29	
Outdoor unit maximum absorbed power				kW		2.3			2.3			5.75			6.67	
Compressor type					In	verter rot	ary	In	verter rot	ary	Inv	erter rot	ary	In	verter rot	ary
Refrigerant inlet connection diameter				п		-	,		-	,		-	,		-	-,
Coolant gas		(p)				R32			R32			R32			R32	
Global warming potential		(4)		GWP		675			675			675			675	
Refrigerant gas charge				kg		0.87			0.87			2.2			2.2	
Refrigerant piping length limit without minimum surface		(q)		ı/g		-			-			-				
check according to IEC 60335-2-40:2018 Hydraulic connections		(4)		п		1			1			1			1	
Capacity of expansion vessel				1		2			2			3			3	

⁽i) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 23°C/18°C
(m) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 12°C/7°C
(n) Sound pressure values measured at a distance of 1 m in a semi-anechoic chamber
(o) Sound pressure values measured at a distance of 1 m in a semi-anechoic chamber
(j) Airtightally sealed equipment containing floorinated GAS
(q) maximum length of the refrigeration pipes beyond which checks on the minimum surface of the installation rooms are necessary, check the technical manual

TECHNICAL DATA						12T			16T	
						02024			02026	
Compressor frequency					Minimum	Nominal	Maximum	Minimum	Nominal	Maximur
Heating output	a7/6 - w30/35		(E)	kW	4.80	12.00	-	6.20	15.50	-
COP	a7/6 - w30/35	(a)	(E)	W/W	-	4.55	-	-	4.30	-
Heating output	a2/1 - w30/35	(b)		kW	4.08	11.90	-	5.27	13.00	-
COP	a2/1 - w30/35	(b)		W/W	-	4.14	-	-	4.05	-
Heating output	a-7/-8 - w30/35	(c)		kW	3.36	9.60	-	4.34	10.65	-
COP	a-7/-8 - w30/35	(c)		W/W	-	2.80	-	-	3.08	-
Heating output	a-15/-16 - w30/35	(d)		kW	2.69	8.76	-	3.47	10.54	-
COP	a-15/-16 - w30/35			W/W	-	1.79	-	-	1.62	-
Heating output (fancoils)	a7/6 - w40/45	(f)	(E)	kW	4.80	11.00	-	6.20	15.50	-
COP (fancoils)	a7/6 - w40/45	(f)			-	3.16	-	-	3.30	-
Heating output (fancoils)	a2/1 - w40/45	(g)	(-)	kW	4.08	11.50	-	5.27	13.00	
COP (fancoils)	a2/1 - w40/45	(g)		W/W	-	3.20	-	-	3.08	
Heating output (fancoils)	a-7/-8 - w40/45	(h)		kW	3.36	8.60		4.34	10.78	
COP (fancoils)	a-7/-8 - w40/45	(h)		W/W	-	2.60	-	-	2.24	
Heating output (fancoils)	a-15/-16 - w40/45			kW	2.69	8.04		3.47	9.92	
COP (fancoils)	a-15/-16 - w40/45			W/W	-	1.70		-	1.58	
	a35 - w23/18		(E)	kW	4.40	11.00		5.80	14.50	
Cooling power		(1)			4.40		-	5.80		-
EER	a35 - w23/18	(l)		W/W		4.30			3.80	
Cooling output (fancoils)	a35 - w12/7		(E)	kW	3.62	9.50	-	5.20	13.00	-
EER (fancoils)	a35 - w12/7	(m)	(E)	W/W	-	2.97	-	-	2.75	
Energy efficiency class in water heating 35°C	Warmer Climate					A+++			A+++	
SCOP	Warmer Climate					5.68			5.68	
s (Seasonal efficiency for space heating)	Warmer Climate			η s %		224			224	
Energy efficiency class in water heating 35°C	Average Climate					A+++			A++	
SCOP	Average Climate					4.45			4.18	
s (Seasonal efficiency for space heating)	Average Climate			η s %		175			164	
Energy efficiency class in water heating 35°C	Cold Climate					A+			A+	
SCOP	Cold Climate					3.6			3.43	
s (Seasonal efficiency for space heating)	Cold Climate			η s %		141			134	
Energy efficiency class in water heating 55°C	Warmer Climate					A++			A++	
SCOP	Warmer Climate					3.8			3.8	
s (Seasonal efficiency for space heating)	Warmer Climate			η s %		149			149	
Energy efficiency class in water heating 55°C	Average Climate			1		A++			A++	
SCOP	Average Climate		(E)			3.23			3.2	
s (Seasonal efficiency for space heating)	Average Climate		(E)	η s %		126			125	
Energy efficiency class in water heating 55°C	Cold Climate		(-)	1 0 70		A+			A	
SCOP	Cold Climate					2.75			2.5	
s (Seasonal efficiency for space heating)	Cold Climate			η s %		107			97	
	Cold Cilifiate			dB(A)		-			-	
Indoor unit sound proceure		(n)				-				
Indoor unit sound pressure		(n)	(E)	dB(A)		69			72	
Outdoor unit sound power (nominal)		(0)	(E)							
Outdoor unit sound pressure (nominal)		(0)		dB(A)		57			57	
System circulator absorption				W		4-75			4-75	
Supply voltage indoor unit				V/ph/Hz		-			-	
Maximum absorbed current of the internal unit with active heating elements				A		-			-	
nternal unit maximum power consumption with active neating elements				kW		-			-	
Additional electric heating elements				kW		-			-	
Supply voltage outdoor unit				V/ph/Hz		380-415/3/50			380-415/3/50	
Outdoor unit maximum absorbed current				A		12			12	
Outdoor unit maximum absorbed power				kW		7.8			7.8	
Compressor type						Inverter rotary			Inverter rotary	
Refrigerant inlet connection diameter				п		-			-	
Coolant gas		(p)				R32			R32	
Global warming potential		(۲)		GWP		675			675	
Refrigerant gas charge										
				kg		2.2			2.2	
Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018		(q)							-	
Hydraulic connections				п		1			1	
Capacity of expansion vessel						3			3	

ACCESSORIES

COMMANDS	B0916	Kit 3-way valve for DHW	0
	B0866	Extension cord remote control panel kit 15m	0
	01804	HE 200 L storage tank	0
	01805	HE 300 L storage tank	0
器	01806	HES 300 L solar storage tank	0
STORAGE TANKS / PUFFER	01807	Hybride boiler HY 300 L	0
KS/	01808	HYS 300 L solar hybrid storage tank	0
ik T	B0618	Resistance for boiler 2 kW	0
ORAG	B0666	Resistance for boiler 3 kW	0
S	B0617	Set flens voor weerstand	0
	01199	Thermal accumulation 50 L	0
	01200	Thermal accumulation 100 L	0

○ Optional accessory | ● Standard accessory | — Accessory not compatible

Accessory description on page 50

SHERPA SHW

Water heater in heat pump



PHOTOVOLTAIC INTEGRATION

Contact for integration with photovoltaic plant, which forces switch-on and raises the machine set-point. The energy produced by the photovoltaic system is stored to lower the DHW production costs and maximise the energy saving.



SOLAR MANAGEMENT

Solar thermal compatible: the unit can work with a second energy source such as solar panels (solar circulator management). Valid only for model 300S.



SMART CONTROL

The actual setting of the heat pump is adjusted by a climatic curve, to prevent high pressure alarms from occurring in case of hot air drawn from the outside (above 25°C with water at 65°C, above 35°C with water at 55°C).



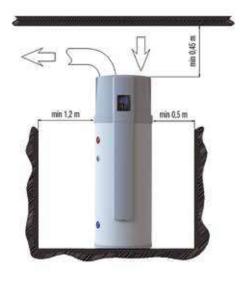
FEATURES

- Available in two versions: standard model with heat pump, electric heating element and 200 It tank (Sherpa SHW ST 200); model with solar panel coil, electric heating element and 300 It tank (Sherpa SHW ST 300S).
- COP>2.6* DHW at 65°C
- Energy class: A
- **Working range** in the heat pump with air temperature from -10C° to 43C°.
- Carbon steel tank with double layer vitrification.
- Anti-corrosion magnesium anode to ensure tank durability.
- Condenser wound outside the storage tank free from deposits and gas-water contamination.
- Thermal insulation in rigid polyurethane foam (PU) with 45 mm thickness
- External coating in plastic material. Acoustically insulated top cover in plastic.
- **High-efficiency compressor** with R134a refrigerant**.

- Safety devices for high and low gas pressure.
- Electric heating element available in the unit as a back-up (with integrated thermostat with safety at 90°C), which ensures hot water at constant temperature even in extreme winter conditions.
- **ON-OFF contact** to start the unit from an external switch.
- · Weekly disinfection cycle.
- Possibility to manage the recirculation of domestic hot water or the solar integration (presence of a dedicated temperature probe, flow switch inlet and control for an external pump). Valid only for model 300S
- Electronic expansion valve for a timely check.





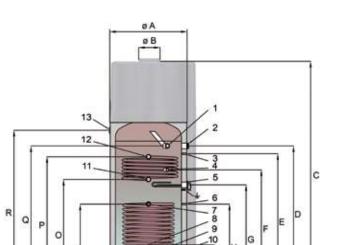




^{*} Ambient air temperature 7°C b.s./6°C b.u., water temperature from 10°C to 55°C (EN 16147).

^{**} Non-hermetically sealed equipment containing fluorinated gas with GWP equivalent 1430.

OLIMPIA SPLENDID



		200	3005
Α	mm	654	654
В	mm	177	177
C	mm	1638	1888
D	mm	1007	1177
E	mm	862	1112
F	mm	742	977
G	mm	742	852
Н	mm	567	692
1	mm	-	352
L	mm	257	257
М	mm	257	257
N	mm	692	692
Q	mm	927	1177
R	mm	1063	1313

- 1. 1" Hot water delivery
- 2. Anode 1" 1/4
- 3. Temperature probe top tank Ø 10
- 4. 1/2" recirculation
- 5. 1" 1/4 Electric heating element
- 6. Temperature probe bottom tank Ø 10
- 7. 1" Solar energy delivery

10

- 8. Auxiliary temperature probe tank Ø 10
- 9. 1" Solar energy return
- 10. 1" domestic cold water inlet
- 11. Condensate drain Ø 16

TECHNICAL DATA		SHERPA SHW S1 200	SHERPA SHW S1 300S
		02267	02268
Electrical power supply	V/Ph/Hz	220-240/1Ph+N+PE/50	220-240/1Ph+N+PE/50
Actual tank capacity	L	228	278
Thermal power	W	2060* (+1200**)	2060* (+1200**)
Absorbed power	W	700* (+1200**)	700* (+1200**)
COPDHW***	W/W	2.64	2.85
COPDHW****	W/W	2.81	3.03
Maximum absorption	W	765 (+1200**)	765 (+1200**)
Cold tank heating time*	h:min	7:48	9:53
Cold tank heating time with active electric heating element*	h:min	3:41	4:41
Vork environment temperature	°C	-10 ~ +43	-10 ~ +43
Refrigerant gas (d)	MPa	R134a	R134a
Refrigerant loading	g	920	920
lominal air flow	m3/h	450	450
Air flow at 60 Pa	m3/h	350	350
Maximum permissible tank pressure	bar	10	10
Auxiliary electric heating element	kW	1.2	1.2
Solar exchange coil surface	m²	-	1.2
Protection class		IPX1	IPXT
Veight with tank full of water	Kg	326	400
Gross weight	Kg	112	137
Sound power level (a)	dB(A)	58	58
Sound pressure (b)	dB(A)	43	43
oad profile (c)		L	XL
Energy efficiency class (c)		A	A
DHW (c)	%	101	117

ACCESSORIES

LUJUNILU		
B0841	1"F flow switch kit	300S
B0842	Kit temperature probe	300S

Optional accessory

^{*}Ambient air temperature 20°C, water temperature from 15°C to 55°C.

**In relation to the auxiliary resistance. During the disinfection cycle, the temperature is raised to 70°C by the auxiliary heating element

***Ambient air temperature 7°C b.s./6°C b.u., water temperature from 10°C to 55°C (EN 16147).

****Ambient air temperature 14°C b.s./12°C b.u., water temperature from 10°C to 55°C (EN 16147).

⁽a) measured according to the EN 12102 standard under the conditions of the EN 16147 standard. (b) calculated according to algorithm ISO 3744:2010 at 1 m from the unit. (c) average climatic conditions (+7°C) according to regulation EU 812/2013 (d) non-hermetically sealed equipment containing fluorinated gas with GWP equivalent 1430.