



Certified product quality

To promote an effective and efficient energy transition

HP Keymark e EHPA Quality Label

The performance of the Sherpa heat pumps, split and monobloc, are certified by HP Keymark and, for the Austrian and Swiss markets, also by the EHPA Quality Label: two points of reference in the sector, which testify to compliance with the strict European performance and safety standards established by the European standards EN 16147, EN 14825 and EN 12102.

Smart Grid Ready

All Sherpa heat pumps can have a contact that allows you to increase the self-consumption of the energy produced by the photovoltaic system, storing the overproduction and reducing the quantity to be purchased from the grid, even when solar radiation is absent. The set-up of the heat pumps to communicate with an electrical grid is certified by the German body BWP.





Aquadue patented technology

Innovation that ensures simultaneously comfort and DHW



Double refrigerantion circuit

Sherpa Aquadue by Olimpia Splendid is the series of multipurpose split heat pumps for residential use that stands out for its patented double refrigerantion circuit, which allows providing cooling/heating and producing DHW at the same time. In addition to avoiding interruptions in providing indoor comfort, it is thus possible to recover energy during summer cooling, increasing the efficiency of the system.

HIgh temperature Domestic Hot Water

The double refrigerantion circuit also allows the DHW to be brought to 75°C autonomously, without the aid of electric heating elements or additional generators, generating two further advantages. With Sherpa Aquadue heat pumps it is possible to avoid the periodic use of anti-legionella cycles and reduce the volume of the boiler by up to 30% for the same quantity of DHW that can be delivered, thus obtaining smaller overall dimensions.

Split air-water heat pumps

SINGLE-PHASE **Production of comfort and DHW** 10 6 UE Sherpa S2 UE Sherpa S2 **Outdoor units SHERPA AQUADUE** E 4 (02001) E 6 (02002) Multi-purpose UI Sherpa Aquadue SUSPENDED VERSION S2 E Small (02042) UI Sherpa Aquadue Tower **Download TOWER VERSION** S2 E Small (02044) Technical data sheet for the entire S2 range UE Sherpa S2 UE Sherpa S2 **Outdoor units SHERPA** E 4 (02001) E 6 (02002) **Traditional** UI Sherpa SUSPENDED VERSION S2 E Small (02040) UI Sherpa Tower **Download TOWER VERSION** S2 E Small (02046) Technical data sheet for the entire S2 range UE Sherpa S3 UE Sherpa S3 UE Sherpa S3 UE Sherpa S3 **SHERPA AQUADUE Outdoor units** E 4 (02284) E 6 (02285) E 8 (02286) E 10 (02287) Multi-purpose UI Sherpa Aquadue SUSPENDED VERSION S3 E Small (02296) UI Sherpa Aquadue Tower **TOWER VERSION** S3 E Small (02298) UE Sherpa S3 UE Sherpa S3 UE Sherpa S3 UE Sherpa S3 **Outdoor units SHERPA** E 10 (02287) E 4 (02284) E 6 (02285) E 8 (02286) Traditional UI Sherpa SUSPENDED VERSION S3 E Small (02294) UI Sherpa Tower **TOWER VERSION** S3 E Small (02300) UE Sherpa **Outdoor units SHERPA COLD** Cold 10 (02269) For cold climates UI Sherpa Cold SUSPENDED VERSION (02276)



THREE-PHASE

				IHKEE-PHAS	E				
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)	
				UI Sherp S2 Big	a Aquadue (02043)				
				UI Sherpa A S2 Big	quadue Tower (02045)				
A ^{***} †	A***		A ^{**} A ^{***} D		A*** A*** D	A ^{***} ↑ D		A* A**	
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)	
					herpa (02041)				
				UI Sher S2 Big	pa Tower (02047)				
A ^{***} ↑ D	A*** A*** ↑ D		A ^{***} D A ^{***}		A*** A***	A A D		A A A	
UE Sherpa S3 E 12 (02288)	UE Sherpa S3 E 14 (02289)		UE Sherpa S3 E 16 (02290)		UE Sherpa S3 E 12T (02291)	UE Sherpa S3 E 14T (02292)		UE Sherpa S3 E 16T (02293)	
					a Aquadue g (02297)				
					quadue Tower g (02299)				
A ^{***} A ^{***}	A ^{**} A ^{**}		A ^{***} A ^{***}		A A A A	A ⁺⁺ A ⁺⁺		A ^{**} P P P P P P P P P P P P P P P P P P)
UE Sherpa S3 E 12 (02288)	UE Sherpa S3 E 14 (02289)		UE Sherpa S3 E 16 (02290)		UE Sherpa S3 E 12T (02291)	UE Sherpa S3 E 14T (02292)		UE Sherpa S3 E 16T (02293)	
					herpa g (02295)				
					pa Tower g (02301)				
A ^{***} A ^{***}	A" A"		A ** A **		A ^{**} Î	A ? A ? .		A" A")
		UE Sherpa Cold 15 (02273)							UE Sherpa Cold 18T (02275)
		UI Sherpa Cold (02277)							UI Sherpa Cold (02278)
		A A A							$A^{\bullet\bullet\bullet} \stackrel{A^{\bullet\bullet\bullet}}{\stackrel{\uparrow}{D}}$

Monobloc air-water heat pumps and heat pump water heaters

SINGLE-PHASE

Production of comfort and D	OHW		4	6	8	10
SHERPA MONOBLOC	S2	Outdoor units		Sherpa Monobloc S2 E 6 (02303)	Sherpa Monobloc S2 E 8 (02304)	Sherpa Monobloc S2 E 10 (02305)
Monobloc				A A A	A A A	A *** A *** P ***

Production of only	DHW			200	260
SHERPA SHW Water heater in	1	S2	Indoor Units	Sherpa SHW S2 200 (02385) Sherpa SHW S2 260S (02386)
heat pump	•			A* A*	A F

Energy efficiency classes in heating (water at 35°C - average climate) on a range between A+++ and D





THREE-PHASE

12	14	15	16	10T	12T	14T	15T	16T	18T
	Sherpa Monobloc S2 E 14 (02307)		Sherpa Monobloc S2 E 16 (02308)		Sherpa Monobloc S2 E 12T (02309)			Sherpa Monobloc S2 E 16T (02311)	
A" A"	A A A A A A A A A A A A A A A A A A A		A *** A ***		A** A**	A ^{···} A ^{···}		A** A**	











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 supply.



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.



PHOTOVOLTAIC INTEGRATION

Thanks to the appropriate contact, it is possible to activate an increase in the heating/DHW temperature and a decrease in the cooling temperature, thereby accumulating thermal energy in the event of overproduction of the photovoltaic system.



FEATURES

- Inverter air-water heat pump with R32 refrigerant
- **Energy efficiency class** in average climate heating up to: A+++ (35°C) and A++ (55°C) on a range between A+++ and D.
- Powers available: 10 powers with refrigerant R32 single-phase (4-6-8-10-12-14-16 kW) and three-phase (12-14-16 kW).
- **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 double
- Anti-legionella cycles that can be avoided using the high temperature refrigeration
- 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).

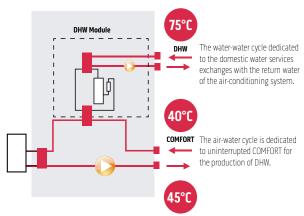
- Configurable set points: two set points in cooling, Three set points in heating (one of which for DHW): the set points can also be selected via remote contact.
- Holiday and weekly programmer: heating/cooling, DHW, night-time.
- Climatic curves with external air temperature probe: two curves available, 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* 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.
- Operating limits: down to -25°C, +43°C (see technical manuals for details).
- **Integrated heating cable** to prevent freezing of water in the tray for sizes 12-14-16 and 12T-14T-16T. The heating cable intervenes during machine defrost operations or when the ambient air is below -7°C and cuts out when it exceeds 4°C (85W power consumption).

AQUADUE TECHNOLOGY

HEATING MODE

+DHW at high temperature

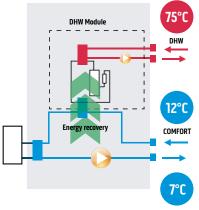
Production of DHW guaranteed regardless of the outside temperature for optimal operation all year round, not guaranteed by traditional heat pumps.



COOLING MODE

+DHW at a high temperature with energy recovery

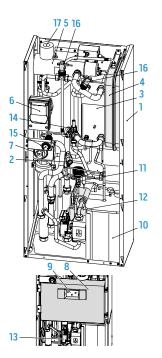
The energy normally dissipated outside is recovered and used to produce DHW up to 75°C.



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

OLIMPIA SPLENDID

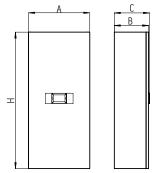
LAYOUT, DIMENSIONS, WEIGHT



- 1. Support structure
- 2. 3 bar safety valve
- 3. Main circuit heat exchanger
- 4. Expansion tank
- 5. Post-heating electric heating element manifold
- **6.** Air conditioner circuit circulation pump
- 7. 3-way valve
- 8. Electrical panel assembly
- 9. Touchscreen display
- 10. Compressor
- 11. Expansion valve
- 12. DHW circuit heat exchangers
- 13. DHW circuit circulation pump
- 14. DHW circuit evaporator water flow rate regulator
- 15. Water circuit pressure gauge
- 16. Flow switches
- 17. Automatic vent valves

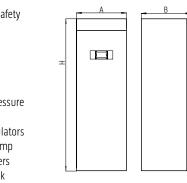
Suspended indoor units

		6					16	12T	14T	16T
		SM	ALL				В	IG		
mm	500	500	500	500	500	500	500	500	500	500
mm	280	280	280	280	280	280	280	280	280	280
mm	288	288	288	288	288	288	288	288	288	288
mm	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116
kg	70	70	70	70	70	70	70	70	70	70
	mm mm mm	mm 500 mm 280 mm 288 mm 1116	mm 500 500 mm 280 280 mm 288 288 mm 1116 1116	SMALL mm 500 500 500 mm 280 280 280 mm 288 288 288 mm 1116 1116 1116	SMALL mm 500 500 500 500 mm 280 280 280 280 mm 288 288 288 288 mm 1116 1116 1116 1116	SMALL mm 500 500 500 500 500 mm 280 280 280 280 280 mm 288 288 288 288 288 mm 1116 1116 1116 1116 1116	SMALL mm 500 500 500 500 500 mm 280 280 280 280 280 mm 288 288 288 288 288 mm 1116 1116 1116 1116 1116 1116	SMALL B mm 500 500 500 500 500 500 mm 280 280 280 280 280 280 280 mm 288 288 288 288 288 288 288 mm 1116 1116 1116 1116 1116 1116 1116	SMALL BIG mm 500 </th <th> SMALL SMO SU SU SU SU SU SU SU S</th>	SMALL SMO SU SU SU SU SU SU SU S



Tower indoor units

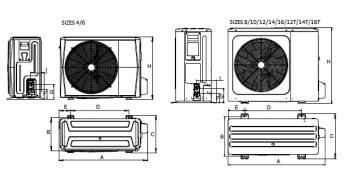
			6						12T	14T	16T
			SM	ALL				В	IG		
Α	mm	600	600	600	600	600	600	600	600	600	600
В	mm					600	600	600	600	600	600
Н	mm	1980	1980	1980	1980	1980	1980	1980	1980	1980	1980
Weight	kσ	171	171	171	171	171	171	171	171	171	171



1. 3-way valve

- 2. Air conditioner circuit circulation pump
- 3. Safety valves (DHW circuit 6 bar)
- 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 valve
- 8. Air conditioner circuit heat exchanger
- 9. Flow switches
- 10. Air conditioning circuit pressure gauge
- 11. DHW thermostatic accumulators
- 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. Touch screen display
- 19. Electrical panel assembly
- 20. DHW circuit evaporator water flow rate regulator

Outdoor units



		4	6	8	10	12	14	16	12T	14T	16T
Α	mm	1008	1008	1118	1118	1118	1118	1118	1118	1118	1118
В	mm	375	375	456	456	456	456	456	456	456	456
C	mm	426	426	523	523	523	523	523	523	523	523
D	mm	663	663	656	656	656	656	656	656	656	656
E	mm	134	134	191	191	191	191	191	191	191	191
F	mm	110	110	110	110	110	110	110	110	110	110
G	mm	170	170	170	170	170	170	170	170	170	170
Н	mm	712	712	865	865	865	865	865	865	865	865
1	mm	160	160	230	230	230	230	230	230	230	230
Weight	kg	58	58	77	77	96	96	96	112	112	112

ODU SI- PRASE RSZ TECHNICAL DATA				02284			2285		02286			02287	
IDU Sherpa Aquadue S3 E IDU Sherpa Aquadue Tower S3 E				02296 02298		0	2296 2298		02296 02298			02296 02298	
Compressor frequency Heating power	a7/6 - w30/35	(a)	kW	Minimum Nomina 2,42 4,25	Maximum 5,66		minal Maximu 5,20 8,26	m Minimum 4,73	Nomina 8,30	11,05	Minimum 5,70	Nominal 10,0	Maxim 13,3
COP	a7/6 - w30/35	(a)	W/W	- 5,15	-	-	5,00 -	-	5,20	-	-	5,00	-
Heating power COP	a2/1 - w30/35 a2/1 - w30/35	(b)	kW W/W	2,54 4,45	5,93		5,50 7,32 3,95 -	4,05	7,10 4,10	9,46	4,67	8,20 4,05	10,9
Heating power	a-7/-8 - w30/35	(c)	kW	2,74 4,80	6,39		6,10 8,12	4,05	7,10	9,46	4,70	8,25	10,9
COP	a-7/-8 - w30/35	(c)	W/W	- 3,15	- 4.00		3,05 - 3,77 5,02		3,25	- 770	- 2.40	3,15	-
Heating power COP	a-15/-16 - w30/35 a-15/-16 - w30/35		kW W/W	1,75 3,07 - 2,88	4,09		3,77 3,02 2,83 -	3,31	5,80	7,72	3,48	6,10	8,1
Heating power (fancoils)	a7/6 - w40/45	(f)	kW	2,48 4,35	5,79		5,35 8,46	4,67	8,20	10,92	5,70	10,00	13,3
COP (fancoils) Heating power (fancoils)	a7/6 - w40/45 a2/1 - w40/45	(f) (g)	W/W kW	- 3,80 2,91 5,10	6,79		3,75 - 5,80 7,72	4,22	3,95 7,40	9,86	4,47	3,80 7,85	10,4
COP (fancoils)	a2/1 - w40/45	(g)	W/W	- 3,00	-	- :	3,00 -	-	3,25	-	-	3,20	-
Heating power (fancoils) COP (fancoils)	a-7/-8 - w40/45 a-7/-8 - w40/45	(h)	kW W/W	2,45 4,30 - 2,35	5,73		5,40 7,19 2,40 -	3,76	6,60 2,55	8,79	4,19	7,35	9,7
Heating power (fancoils)	a-15/-16 - w40/45		kW	1,52 2,66	3,54		3,27 4,35	2,87	5,04	6,71	3,03	5,31	7,0
COP (fancoils)	a-15/-16 - w40/45		W/W	- 2,02			1,98 -	4.50	2,32	- 10.00	-	2,34	-
Cooling power EER	a35 - w23/18 a35 - w23/18	(1)	kW W/W	2,41 4,50 - 5,55	5,52		5,55 8,03 4,90 -	4,50	8,40 5,05	10,30	5,36	10,00	12,7
Cooling power (fancoils)	a35 - w12/7	(m)	kW	2,52 4,70	5,77	3,75	7,00 8,59	3,97	7,40	9,08	4,40	8,20	10,0
EER (fancoils) Energy efficiency class in water heating 35°C	a35 - w12/7 Warmer Climate	(m)	W/W	- 3,45 A+++	-		3,00 - +++	-	3,38 A+++	-	-	3,30 A+++	-
SCOP	Warmer Climate			6,46			6,57		6,99			7,09	
s (Seasonal efficiency for space heating)	Warmer Climate		ηs %	255,4%	Š		9,8%		276,6%			280,5%	
Energy efficiency class in water heating 35°C SCOP	Average Climate Average Climate			A+++ 4,85			+++ 4,95		A+++ 5,22			A+++ 5,20	
s (Seasonal efficiency for space heating)	Average Climate		ηs %	191,0%		19	15,0%		205,6%			204,8%	
Energy efficiency class in water heating 35°C SCOP	Cold Climate Cold Climate			A++ 4,06			4,21		A++ 4,33			A++ 4,32	
s (Seasonal efficiency for space heating)	Cold Climate		ηs %	159,5%		16	5,3%		170,0%			169,8%	
Energy efficiency class in water heating 55°C SCOP	Warmer Climate			A+++ 4,15			+++ 4,21		A+++ 4,51			A+++ 4,62	
s (Seasonal efficiency for space heating)	Warmer Climate Warmer Climate		ηs %	163,1%			4,21 i5,4%		177,2%			181,7%	
Energy efficiency class in water heating 55°C	Average Climate			A++			4++		A++			A++	
s (Seasonal efficiency for space heating)	Average Climate Average Climate		ηs %	3,31 129,5%			3,52 37,9%		3,37			3,47	
Energy efficiency class in water heating 55°C	Cold Climate		110 70	A+			A+		A+			A+	
s (Seasonal efficiency for space heating)	Cold Climate		ηs %	2,63			2,85 11,1%		2,88			2,99 116,5%	
Indoor unit sound power (reg. EU 811-2013/UNI EN 12102:2022)	Cold Climate		dB(A)	46/40			6/40		46/42			46/42	
Indoor unit sound pressure (reg. EU 811-2013/UNI EN 12102:2022)		(n)	dB(A)	38/32			8/32		38/36			38/36	
Outdoor unit sound power (reg. EU 811-2013/UNI EN 12102:2022) Outdoor unit sound pressure (reg. EU 811-2013/UNI EN 12102:2022)		(0)	dB(A)	56/52 36/32			8/53 8/33		59/54 39/34			60/55 40/35	
System circulator absorption		(0)	W	3 - 87			- 87		3 - 87			3 - 87	
Supply voltage indoor unit Maximum current absorbed indoor unit with additional resistors active			V/ph/Hz A	220-240/1	/50		240/1/50 8,00	2	20-240/1 18,00	/50	22	0-240/1/ 18,00	50
Maximum power absorbed indoor unit with additional active heating elements			kW	4,05			4,05		4,05			4,05	
Additional electric heating elements			kW	1,5+1,5			5+1,5		1,5+1,5		22	1,5+1,5	
Supply voltage outdoor unit Outdoor unit maximum absorbed current			V/ph/Hz A	220-240/1	/50	220-	240/1/50 11		20-240/1 14	/50	22	0-240/1/ 16	5U
Outdoor unit maximum absorbed power			kW	2,2		T . D .	2,6		3,3			3,6	
Compressor type Refrigerant inlet connection diameter			и	Twin Rotary DC 1/4"-5/8			ry DC Inverte 1*-5/8*	r Iwin R	otary DC 3/8"-5/8			tary DC 3/8"-5/8'	
Coolant gas		(p)		R32	<u> </u>		R32		R32	<u></u>	,	R32	
Global warming potential Refrigerant gas charge			GWP	675 1,5			675 1,5		675 1,65			675 1,65	
Additional charge above 15m			kg g/m	20			20		38			38	
Refrigerant piping length limit	min - max		m	2 - 30			2-30		2 - 30			2 - 30	
Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018	max	(q)	m	30			30		20			20	
Hydraulic connections for the technical water system System technical water expansion tank capacity			- "	7"			1"		7″ 8			1″ 8	
Load profile according to EN16147				L			L		L			L	
DHW production energy efficiency class nHW (seasonal production efficiency DHW)	Average Climate Average Climate		%	A 106%		1	A 06%		A 86%			A 86%	
Boiler volume	vaciale cillidge		70	150			150		150			150	
Boiler interior surface material			-m2	DD12 glazed ste	el S235JR	DD12 glaze	d steel S235J	R DD12 g		el S235JR	DD12 gla		I S235
Heat exchanger in the boiler Type and thickness of boiler insulation			m²	1,5 Hard expanded polyure	thane 55 mm	Hard expanded	1,5 polyurethane 55 m	m Hard expar	1,5 nded polyure	thane 55 mm	Hard expand	1,5 ed polyuretl	nane 55
			W/K	2			2		2			2	
Specific dispersion			- 1	7 3/4"			7 3/4"		7 3/4"			7 3/4"	
Specific dispersion DHW expansion tank capacity		(r)	kW	2,15			2,15		2,15			2,15	
Specific dispersion DHW expansion tank capacity DHW hydraulic connections DHW circuit heating power	w35 - w55		_				3,12		3,12			3,12	
Specific dispersion DHW expansion tank capacity DHW hydraulic connections DHW circuit heating power COP DHW circuit	w35 - w55	(r)	W/W	3,12			160					1,U	
Specific dispersion DHW expansion tank capacity DHW hydraulic connections DHW circuit heating power			_	3,12 1,60 2,58			1,60 2,58		2,58			2,58	
Specific dispersion DHW expansion tank capacity DHW hydraulic connections DHW circuit heating power COP DHW circuit DHW circuit heating power COP DHW circuit heating power Sound power indoor unit in heating/cooling + DHW circuit	w35 - w55 w12 - w55	(r) (s)	W/W kW W/W dB(A)	1,60 2,58 49			2,58 49		2,58 49			49	
Specific dispersion DHW expansion tank capacity DHW hydraulic connections DHW circuit heating power COP DHW circuit DHW circuit heating power COP DHW circuit Sound power indoor unit in heating/cooling + DHW circuit DHW circuit circulator absorption	w35 - w55 w12 - w55	(r) (s) (s)	W/W kW W/W	1,60 2,58		3	2,58		2,58				
Specific dispersion DHW expansion tank capacity DHW hydraulic connections DHW circuit heating power COP DHW circuit DHW circuit heating power COP DHW circuit Sound power indoor unit in heating/cooling + DHW circuit DHW circuit circulator absorption DHW circuit coolant gas DHW circuit global warming potential	w35 - w55 w12 - w55	(r) (s)	W/W kW W/W dB(A) W	1,60 2,58 49 3 - 43 R134a 1430		3 F	2,58 49 4- 43 134a 430		2,58 49 3 - 43 R134a 1430			49 3 - 43 R134a 1430	
Specific dispersion DHW expansion tank capacity DHW hydraulic connections DHW circuit heating power COP DHW circuit beating power COP DHW circuit heating power COP DHW circuit sound power COP DHW circuit Sound power indoor unit in heating/cooling + DHW circuit DHW circuit circulator absorption DHW circuit global warming potential DHW circuit coolant gas DHW circuit coolant gas load	w35 - w55 w12 - w55 w12 - w55	(r) (s) (s)	W/W kW W/W dB(A) W GWP	1,60 2,58 49 3 - 43 R134a 1430 0,35		3 Fi	2,58 49 1 - 43 134a 430 0,35		2,58 49 3 - 43 R134a 1430 0,35			49 3 - 43 R134a	
Specific dispersion DHW expansion tank capacity DHW hydraulic connections DHW circuit heating power COP DHW circuit beating power COP DHW circuit heating power COP DHW circuit Sound power indoor unit in heating/cooling + DHW circuit DHW circuit circulator absorption DHW circuit global warming potential DHW circuit coolant gas DHW circuit coolant gas load	w35 - w55 w12 - w55 w12 - w55	(r) (s) (s)	W/W kW W/W dB(A) W GWP kg	1,60 2,58 49 3 - 43 R134a 1430 0,35) Sound pressure value Sound pressure value	es measured	at a distance of	2,58 49 1-43 134a 430 0,35 1 m in a semi-ar 4 m in free field		2,58 49 3 - 43 R134a 1430 0,35			49 3 - 43 R134a 1430	
Specific dispersion DHW expansion tank capacity DHW hydraulic connections DHW circuit heating power COP DHW circuit heating power COP DHW circuit heating power COP DHW circuit Sound power indoor unit in heating/cooling + DHW circuit DHW circuit circulator absorption DHW circuit coolant gas DHW circuit global warming potential DHW circuit global warming potential	w35 - w55 w12 - w55 w12 - w55	(r) (s) (s)	W/W kW W/W dB(A) W GWP kg	1,60 2,58 49 3 - 43 R134a 1430 0,35) Sound pressure value) Sound pressure value) Annavirtightally seal	es measured ed equipmen	at a distance of at a distance of t containing flu	2,58 49 - 43 134a 430 D,35 1 m in a semi-ar 4 m in free field orinated GAS	distance	2,58 49 3 - 43 R134a 1430 0,35 ber	e of the instal	lation rooms	49 3 - 43 R134a 1430 0,35	sary, ch
Specific dispersion DHW expansion tank capacity DHW hydraulic connections DHW circuit heating power COP DHW circuit beating power COP DHW circuit heating power COP DHW circuit sound power COP DHW circuit Sound power indoor unit in heating/cooling + DHW circuit DHW circuit circulator absorption DHW circuit global warming potential DHW circuit coolant gas DHW circuit coolant gas load	w35 - w55 w12 - w55 w12 - w55	(r) (s) (s)	W/W kW W/W dB(A) W GWP kg (n (o (p) (th	1,60 2,58 49 3 - 43 R134a 1430 0,35) Sound pressure value Non-arityfathead maximum length of et etchnical manual	es measured ed equipmen the refrigerat temperature	at a distance of at a distance of it containing flu ion pipes beyor 35°C/Outlet wa	2,58 49 1-43 134a 430 0,35 1 m in a semi-ar 4 m in free field orinated GAS d which checks of the temperature	distance on the minim 55°C	2,58 49 3 - 43 R134a 1430 0,35 ber	e of the instal	lation rooms	49 3 - 43 R134a 1430 0,35	sary, ch
Specific dispersion DHW expansion tank capacity DHW hydraulic connections DHW circuit heating power COP DHW circuit DHW circuit heating power COP DHW circuit Sound power indoor unit in heating/cooling + DHW circuit DHW circuit circulator absorption DHW circuit global warming potential	w35 - w55 w12 - w55 w12 - w55	(r) (s) (s)	W/W kW W/W dB(A) W GWP kg (n	1,60 2,58 49 3 - 43 R134a 1430 0,35) Sound pressure valuu	es measured ed equipmen the refrigerat temperature temperature aled equipme	at a distance of at a distance of it containing flui ion pipes beyor 35°C/Outlet wa nt containing fl	2,58 49 - 43 134a 430 0,35 1 m in a semi-ar 4 m in free field orinated GAS d which checks in ter temperature uorinated GAS	distance on the minim 55°C	2,58 49 3 - 43 R134a 1430 0,35 ber	e of the instal	lation rooms	49 3 - 43 R134a 1430 0,35	sary, cl

SINGLE-PHASE R32 TECHNICAL DATA

⁽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
(r) Heating circuit water temperature 35°C/Outlet water temperature 55°C
(5) Heating circuit water temperature 12°C/Outlet water temperature 55°C
(t) Non-hermetically sealed equipment containing fluorinated GAS
Energy efficiency classes refer to a range between A+++ and D.

Displayers Agendate (314 Displayers Agendate	SINGLE-PHASE R32 TECHNICAL DATA										14			16	
Comparison for the comparison														02290	
Part															
Position power Position Pos							Minimum		Maximum	Minimum		Maximum	Minimum		Maximum
Nearing power 2011-05/05/16 10 434 293 1244 532 1143 4469 617 1305 13				a7/6 - w30/35		kW				1					20,88
Part															-
Heating power (south)						_	-						· ·		16,96
Package Pack															17,35
Healing power (function)				a-7/-8 - w30/35	(c)	W/W	-	3,00	-	-	2,80	-	-	2,70	-
The inflament An						_									12,20
The inflament An															20,88
The inflament An															-
The inflament An															16,70
The inflament An															16,83
Heating power (femanls)						_				-					- 10,03
Cooling power 435 - w2/78 10								6,63				9,34	3,93		10,97
Fig.															-
Conting gover (parcols) 9.35 + 20/27 10m M/N 5-42 1050 13,82 5.93 12,70 15,13 6,54 14,00															17,75
EREF. Filtrarial 3.5															16,67
Energy efficiency for space heating						_									-
Separate efficiency for space healing Warmer Climate SOP	g 3	g 35°C												A+++	
Energy efficiency (ass in water heating 35°C	a)	a)				nc 0/									
SOP All	٠,	u,				1 5 %									
Separate elicitency for space heating															
Screen Section Could Climate Could Climate Screen Section S				Average Climate		ηs %								181,7%	
Second efficiency for space heating Codd Climate Psychiatric Climate Codd Climate Psychiatric Climate Codd Climate Psychiatric Climate Ps	g 3	g 35°C													
Spearmal efficiency for space heating Warriers Climate SCP	σ)	g)				ns %									
Spearmal efficiency for space heating Warriers Climate SCP						. 10 70								A+++	
Figure Filterity Filtric Fil															
SCOP Alexage Climate Scope Alexage Climate Scope Scope Scope Scope Alexage Climate Scope Scope Alexage Climate Alexage Cli						ηs %									
Seesonal efficiency for space heating	g t	3 22 L													
SCOP Cold Climate SCOP S Seasonal efficiency for space heating Cold Climate np 9/4 11/8/8 119.9/9 1218/8 1218/	g)	g)				ηs %								133,3%	
Seasonal efficiency for space healing Cold Climate Indoor unit sound power (reg. EU 817-2013/UNI EN 12102-2022) Cold Office Cold Climate Cold C	g 5	55°C													
Indoor unit sound pressure (reg. EU 811-2013/UNI EN 1210220222) (n) (dB/A) 40/J38 40/	(m)				no 0/									
Compressor type Compressor				Cold Climate											
System circulator absorption					(n)									40/38	
System circulator absorption	-20	-2013/UNI EN 12102:202				dB(A)		64/60			65/62			68/64	
Supply voltage indoor unit A 31.0 31	1-2	1-2013/UNI EN 12102:202)		(0)										
Maximum current absorbed indoor unit with additional active heating elements									50			1			<u> </u>
### System technical water expansion tank capacity 1	th	th additional resistors activ							,,,						
### System technical water expansion tank capacity 1	ıdd	dditional active heating eler	ents												
Dutdoor unit maximum absorbed current									in .			า			<u> </u>
Outdoor unit maximum absorbed power	ent	ent				_		-	DU .			J			J
Refrigerant inlet connection diameter															
Page							Twin		Inverter	Twin		nverter	Twin		nverter
Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018					(n)										
Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018					(4)	GWP									
Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018								1,84			1,84			1,84	
Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018															
According to IEC 60335-2-40:2018	m	: minimum surface checl			(-)										
1 8 8 8 8 8 8 8 8 8				IIIdX	(4)										
Load profile according to EN16147 DHW production energy efficiency class Average Climate A A A A A A A A A A A A A A A A A A A						1									
### (seasonal production efficiency DHW) ### (Biller interior surface material														Ĺ	
DHW expansion tank capacity															
DHW expansion tank capacity	ıН۱	HWJ		Average Llimate											
DHW expansion tank capacity						'	DD12 g		I S235JR	DD12 g		S235JR	DD12 g		S235JR
DHW expansion tank capacity						m²		1,5			1,5		Ŭ	1,5	
DHW expansion tank capacity						MIN	Hard expand		thane 55 mm	Hard expand		nane 55 mm	Hard expand		nane 55 mm
DHW hydraulic connections															
DHW circuit heating power															
OCC NUMBER 1 18 1 18 1 18 1 18 1 18 1 18 1 18 1	oli	oling + DHW circuit			(')			49			49			49	
Delta circuit circulator absorption W 3-43 3-43 3-43	1				7.3	W		3 - 43			3 - 43			3 - 43	
DHW circuit circulator absorption W 3 - 43 3 - 43 3 - 43 DHW circuit coolant gas (t) R134a R134a R134a DHW circuit global warming potential GWP 1430 1430 1430					(t)	CMD								R134a	
DHW circuit coolant gas load kg 0,35 0,35 0,35															
(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) Sound pressure values measured at a distance of 1 m in a semi-anechoic chamber (d) Sound pressure values measured at a distance of 4 m in free field distance (d) Sound pressure values measured at a distance of 4 m in free field distance (d) Meaning mode external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 30°C/35°C (d) Sound pressure values measured at a distance of 1 m in a semi-anechoic chamber (d) Sound pressure values measured at a distance of 1 m in a semi-anechoic chamber (d) Sound pressure values measured at a distance of 1 m in a semi-anechoic chamber (d) Sound pressure values measured at a distance of 4 m in a semi-anechoic chamber (e) Sound pressure values measured at a distance of 4 m in a semi-anechoic chamber (e) Sound pressure values measured at a distance of 4 m in a semi-anechoic chamber (e) Sound pressure values measured at a distance of 4 m in a semi-anechoic chamber (e) Sound pressure values measured at a distance of 4 m in a semi-anechoic chamber (e) Sound pressure values measured at a distance of 4 m in a semi-anechoic chamber (e) Sound pressure values measured at a distance of 4 m in a semi-anechoic chamber (e) Sound pressure values measured at a distance of 5 m in a semi-anechoic chamber (e) Sound pressure values measured at a distance of 6 m in a semi-anechoic chamber (e) Sound pressure values measured at a distance of 7 m in a semi-anechoic chamber (e) Sound pressure values measured at a distance of 8 m in a semi-anechoic chamber (e) Sound pressure values measured at a distance of 8 m in a semi-anechoic chamber (e) Sound pressure values measured at a distance of 8 m in a semi-anechoic chamber (e) Sound pressure values measured at a distance of 8 m in a semi-anechoic chamber (e) Sound pressure values measured at a distance of 8 m in a semi-anechoic chamber (e)	'C t	C b.u., inlet/outlet water ten	eratur	re 30°C/35°C) Sound pressur		sured at a distanc	ce of 1 m in a se		namber			

ONLY FOR SHERPA AQUADUE TOWER

⁽a) Heating mode, external air temperature PC b.s./PC b.u., inlet/outlet water temperature 30°C/35°C (b) Heating mode, external air temperature 2°C b.s./PC 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./-16°C b.u., inlet/outlet water temperature 30°C/35°C (g) 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 (h) Heating mode, external air temperature 7°C b.s./-16°C b.u., inlet/outlet water temperature 40°C/45°C (l) Cooling mode, external air temperature 5°C b.s./-16°C b.u., inlet/outlet water temperature 40°C/45°C (l) 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 (0) Sound pressure values measured at a distance of 4 m in free field distance (p) Non-artifightally 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 (f) Heating circuit water temperature 35°C/Outlet water temperature 55°C (s) Heating circuit water temperature 12°C/Outlet water temperature 55°C (l) Non-hermetically sealed equipment containing fluorinated GAS Energy efficiency classes refer to a range between A+++ and D.

THREE-PHASE R32 TECHNICAL DATA					12T			14T			16T	
ODU Sherpa S3 E IDU Sherpa Aquadue S3 E					02291 02297			02292 02297			02293 02297	
IDU Sherpa Aquadue Tower S3 E					02299			02299			02299	
Compressor frequency				Minimum	Nominal	Maximum	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum
Heating power COP	a7/6 - w30/35 a7/6 - w30/35	(a)	kW W/W	5,65	12,10 4,95	15,79	6,77	14,50 4,70	18,92	7,47	16,00 4,50	20,88
Heating power	a2/1 - w30/35	(b)	kW	4,34	9,30	12,14	5,32	11,40	14,88	6,07	13,00	16,96
СОР	a2/1 - w30/35	(b)	W/W	-	3,95	-	-	3,65	-	-	3,50	-
Heating power	a-7/-8 - w30/35	(c)	kW	4,67	10,00	13,05	5,60	12,00	15,66	6,21	13,30	17,35
COP	a-7/-8 - w30/35	(c)	W/W	- 2.42	3,00	- 0.50	277	2,80	70.20	4.37	2,70	- 12.20
Heating power COP	a-15/-16 - w30/35 a-15/-16 - w30/35		kW W/W	3,43	7,35 2,88	9,59	3,71	7,94 2,85	10,36	4,37	9,35 2,66	12,20
Heating power (fancoils)	a7/6 - w40/45	(f)	kW	5,74	12,30	16,05	6,63	14,20	18,53	7,47	16,00	20,88
COP (fancoils)	a7/6 - w40/45	(f)	W/W	-	3,80	-	-	3,65	-	-	3,60	-
Heating power (fancoils)	a2/1 - w40/45	(g)	kW	5,00	10,70	13,96	5,46	11,70	15,27	5,98	12,80	16,70
COP (fancoils) Heating power (fancoils)	a2/1 - w40/45 a-7/-8 - w40/45	(g) (h)	W/W kW	4,76	3,00 10,20	13,31	5,51	2,86 11,80	15,40	6,02	2,85 12,90	16,83
COP (fancoils)	a-7/-8 - w40/45	(h)	W/W	-	2,40	-	-	2,35	-	-	2,23	-
Heating power (fancoils)	a-15/-16 - w40/45		kW	3,10	6,63	8,65	3,34	7,16	9,34	3,93	8,41	10,97
COP (fancoils)	a-15/-16 - w40/45	- '	W/W	-	2,32	- 14.20		2,29	- 10.00	-	2,03	1775
Cooling power EER	a35 - w23/18 a35 - w23/18	(I) (I)	kW W/W	5,60	12,00 4,00	14,29	6,31	13,00 3,70	16,08	6,96	13,50 3,61	17,75
Cooling power (fancoils)	a35 - w23/10	(m)	kW	5,42	11,60	13,82	5,93	12,70	15,13	6,54	14,00	16,67
EER (fancoils)	a35 - w12/7	(m)		-	2,75	-	-	2,55	-	-	2,45	-
Energy efficiency class in water heating 35°C	Warmer Climate				A+++			A+++			A+++	
s (Seasonal efficiency for space heating)	Warmer Climate Warmer Climate		ηs %		6,47 255,6%			6,57 259,8%			6,28 248,1%	
Energy efficiency class in water heating 35°C	Average Climate		1JO 70		Z55,0% A+++			259,8% A+++			Z48,1% A+++	
SCOP	Average Climate				4,81			4,72			4,62	
s (Seasonal efficiency for space heating)	Average Climate		ηs %		189,3%			185,6%			181,6%	
Energy efficiency class in water heating 35°C	Cold Climate				A++			A++			A++	
s (Seasonal efficiency for space heating)	Cold Climate Cold Climate		ηs %		4,08 160,2%			4,07 159,6%			4,02 157,8%	
Energy efficiency class in water heating 55°C	Warmer Climate		1 5 /0		A+++			A+++			A+++	
SCOP	Warmer Climate				4,42			4,49			4,47	
s (Seasonal efficiency for space heating)	Warmer Climate		ηs %		173,8%			176,4%			175,9%	
Energy efficiency class in water heating 55°C SCOP	Average Climate Average Climate				A++ 3,45			A++ 3,47			A++ 3,41	
s (Seasonal efficiency for space heating)	Average Climate		ηs %		135,1%			135,6%			133,2%	
Energy efficiency class in water heating 55°C	Cold Climate				Α+			A+			A+	
SCOP	Cold Climate				3,02			3,05			3,12	
s (Seasonal efficiency for space heating)	Cold Climate		ηs %		117,7%			118,9%			121,8%	
Indoor unit sound power (reg. EU 811-2013/UNI EN 12102:2022) Indoor unit sound pressure (reg. EU 811-2013/UNI EN 12102:2022)		(n)	dB(A) dB(A)		48/46 40/38			48/46 40/38			48/46 40/38	
Outdoor unit sound power (reg. EU 811-2013/UNI EN 12102:2022)		()	dB(A)		64/60			65/62			68/64	
Outdoor unit sound pressure (reg. EU 811-2013/UNI EN 12102:2022)		(0)	dB(A)		44/40			45/42			48/44	
System circulator absorption			W		8 - 140 220-240/1/5	0		8 - 140	0		8 - 140 220-240/1/5	n
Supply voltage indoor unit Maximum current absorbed indoor unit with additional resistors active			V/ph/Hz A		31,0	U		220-240/1/5 31,0	U		31,0	J
Maximum power absorbed indoor unit with additional active heating elements			kW		7,05			7,05			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	(380-415/3/5	0	3	380-415/3/5	0	3	380-415/3/5	0
Outdoor unit maximum absorbed current Outdoor unit maximum absorbed power			A kW		8 5,4			8 5,7			8 5,7	
Compressor type				Twin F	Rotary DC I	nverter	Twin R	Rotary DC I	nverter	Twin F	Rotary DC I	nverter
Refrigerant inlet connection diameter					3/8"-5/8"			3/8"-5/8"			3/8"-5/8"	
Coolant gas		(p)	CMD		R32			R32			R32	
Global warming potential Refrigerant gas charge			GWP kg		675 1,84			675 1,84			675 1,84	
Additional charge above 15m			g/m		38			38			38	
Refrigerant piping length limit	min - max		m		2 - 30			2 - 30			2 - 30	
Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018	max	(q)	m		15			15			15	
Hydraulic connections for the technical water system			"]"]"]"	
System technical water expansion tank capacity			- 1		8			8			8	
Load profile according to EN16147	Augra Cl.				L			L			L	
DHW production energy efficiency class nHW (seasonal production efficiency DHW)	Average Climate Average Climate		%		A 81%			A 81%			A 81%	
Boiler volume	Average cilinate				150			150			150	
Boiler interior surface material				DD12 g	azed steel	S235JR	DD12 gl	lazed steel	S235JR	DD12 gl	azed steel	S235JR
Heat exchanger in the boiler			m²	Hard -	1,5	hono FF	Hard -	1,5	hana FF	Hard -	1,5	
Type and thickness of boiler insulation Specific dispersion			W/K	нага ехрап	ded polyuret 2	hane 55 mm	Hard expand	ded polyureti 2	hane 55 mm	Hard expand	ded polyureti 2	iarie 55 m
DHW expansion tank capacity			VV/IX		7			7			7	
DHW hydraulic connections					3/4"	_		3/4"			3/4"	
DHW circuit heating power	w35 - w55	(r)	kW		2,15			2,15			2,15	
COP DHW circuit DHW circuit heating power	w35 - w55 w12 - w55	(r) (s)	W/W kW		3,12 1,60			3,12 1,60			3,12 1,60	
COP DHW circuit	w12 - w55 w12 - w55	(S)	W/W		2,58			2,58			2,58	
Sound power indoor unit in heating/cooling + DHW circuit		· 7	dB(A)		49			49			49	
			W		3 - 43			3 - 43			3 - 43	
DHW circuit circulator absorption		(1)			D10.4			P10.4				
		(t)	GWP		R134a 1430			R134a 1430			R134a 1430	

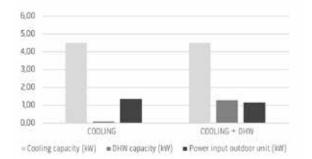
DHW CIrcuit Coolant gas load

(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 7°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./16°C b.u., inlet/outlet water temperature 30°C/35°C
(f) Heating mode, external air temperature 7°C b.s./6°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
(i) 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 15°C b.s./16°C b.u., inlet/outlet water temperature 40°C/45°C
(m) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 23°C/85°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
(r) Heating circuit water temperature 35°C/Outlet water temperature 55°C
(5) Heating circuit water temperature 12°C/Outlet water temperature 55°C
(t) Non-hermetically sealed equipment containing fluorinated GAS
Energy efficiency classes refer to a range between A+++ and D.

				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	4.70	0.64	4.70	7.00	0.64	7.00	7.40	0.64	7.40	8.20	0.64	8.20
First 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
second circuit data	Absorption	kw	1.36	0.56	1.17	2.33	0.56	2.00	2.19	0.56	1.87	2.48	0.56	2.13
	EER COP		3.45	2.30	4.03	3.00	2.30	3.50	3.38	2.30	3.95	3.30	2.30	3.85

				12			14			16			12T			14T			16T	
			Cooling w7 - a35		Cooling w7 - A35 DHW w65 - w12	0	DHW w65 - w12	Cooling w7 - A35 DHW w65 - w12	w7 - a35	DHW w65 - w12	Cooling w7 - A35 DHW w65 - w12	w7 - a35		Cooling w7 - A35 DHW w65 - w12		- w12	Cooling w7 - A35 DHW w65 - w12	w7 - a35	DHW w65 - w12	Cooling w7 - A35 DHW w65 - w12
	Cooling capacity	kw	11.60	0.64	11.60	12.70	0.64	12.70	14.00	0.64	14.00	11.60	0.64	11.60	12.70	0.64	12.70	14.00	0.64	14.00
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	4.22	0.56	3.61	4.98	0.56	4.26	5.71	0.56	4.89	4.22	0.56	3.61	4.98	0.56	4.26	5.71	0.56	4.89
	EER COP		2.75	2.30	3.21	2.55	2.30	2.98	2.45	2.30	2.86	2.75	2.30	3.21	2.55	2.30	2.98	2.45	2.30	2.86



80

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).

75 70 65 60 LEAVING WATER TEMPERATURE 55 50 45 40 35 -20 -15 -10 0 10 15 20 OUTDOOR AIR TEMPERATURE Traditional heat pump ■ Sherpa Aquadue heat pump

DHW working area

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		pensile	torre
	B0916	Kit 3-way valve for DHW	•	•
CONTROLS	B0623	Outdoor air temperature probe kit	•	•
	B0624	Kit DHW storage tank sensor	•	•
	B0931	Remote control display kit 10 m	0	0
OTHER	B0918	Kit Sherpa Flex Box AS	≤10	_
6	B0961	Kit Sherpa Flex Box AS RAL 9016	≤10	_
	01804	HE 200 L storage tank	0	_
FER	01805	HE 300 L storage tank	0	_
STORAGE TANKS / PUFFER	01806	HES 300 L solar storage tank	0	_
ANK	01807	Hybride boiler HY 300 L	0	_
AGE	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

working area (R32)

Accessory description on page 54

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.









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.



PHOTOVOLTAIC INTEGRATION

Thanks to the appropriate contact, it is possible to activate an increase in the heating/DHW temperature and a decrease in the cooling temperature, thereby accumulating thermal energy in the event of overproduction of the photovoltaic system.



FEATURES

- Inverter air-water heat pump with R32 coolant gas
- Energy efficiency class in medium climate heating: A++++ (35°C) and A++
 (55°C) on a range between A++++ and D.
- Available powers: 10 powers with single-phase R32 coolant gas (4-6-8-10-12-14-16 kW) and three-phase (12-14-16 kW)
- It supplies DHW with temperatures up to 60° C.
- DHW management: Sherpa allows you to manage domestic hot water with extreme flexibility through two management modes: water probe inserted in the boiler or thermostat contact of the boiler (only for wall-mounted version).
- **Climatic curves** with external air temperature probe: two curves available, one for cooling and one for heating.
- Smart Grid: the heat pump is set up to communicate with an intelligent electricity grid and is certified SG Ready, according to the requirements of the German BWP Institute.
- 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 through a remote contact.

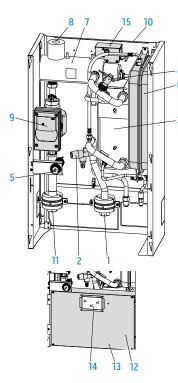
- Double-stage electric heaters as standard: configurable as single or double-stage, it can be activated to support the heat pump, through verification by the electronic control of the real thermal capacity of the heat pump. Each stage is activated according to the real need for thermal power, in order to optimise electricity consumption.
- Daily holiday and weekly programmer: heating/cooling, DHW, night.
- Complete management of anti-legionella cycles.
- Coolant gas R32*
- High efficiency integrated 200 L boiler (only for tower version).
- Components included (only for tower version): system filling tap, 3-way valve.
- Optional kit (only for tower version): thermostatic mixer and DHW expansion vessel.
- Operating limits: up to -25°C, +43°C (see technical manuals for details).
- Integrated heating cable to prevent water freezing in the drip pan for sizes 12-14-16 and 12T-14T-16T. The heating cable intervenes during the machine's defrost operations or when the ambient air is below -7°C and stops when it exceeds 4°C (electrical absorption of 85W).

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



OLIMPIA SPLENDID

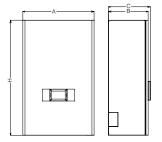
LAYOUT, DIMENSIONS, WEIGHT



- 1. Water inlet
- 2. 3 bar safety valve
- 3. Plate heat exchanger
- 4. Flow switch
- 5. Pressure gauge
- 6. Expansion tank
- 7. Electric heating element manifold
- 8. Automatic vent valve
- 9. Water pump
- 10. Support for wall installation
- 11. System water outlet
- 12. Electrical panel covers
- 13. Electrical panel assembly
- 14. Touch screen display
- 15. Manual reset electric heating element safety thermostat



			6		10		14	16	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	36	36	36	36	36	36



Tower indoor units

		4	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	183	183	183	183	183	183	183	183	183	183

1118 1118 1118 1118

456 456

523

656

191

110

170

865

230 | 230 | 230 | 230 | 230 | 230

523

656 656

191

110 110

170 | 170

865

456 456 456

523

191 191

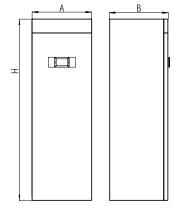
865

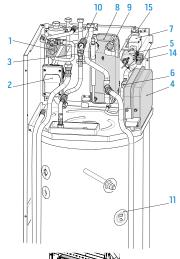
523

656 656 656

110 110

865 865

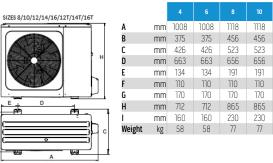


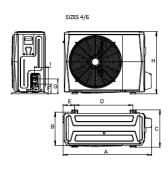




- 1. 3-way valve
- 2. Air conditioner circuit circulation pump
- 3. Safety valves
- 4. Air conditioner circuit expansion tank
- 5. Post-heating electric heating element manifold
- **6.** Safety valves air conditioner circuit 3 bar
- 7. Electric heating elements safety thermostats
- 8. Air conditioner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

Outdoor units





1118

456

523

191

110

170

865

523

191

170

SINGLE-PHASE R32 TECHNICAL DATA				4	6	8	10
ODU Sherpa S3 E				02284	02285	02286	02287
IDU Sherpa S3 E				02294	02294	02294	02294
IDU Sherpa Tower S3 E Compressor frequency				02300	02300 Minimum Nominal Maximum	02300 Minimum Nominal Maximum	02300 Minimum Nominal Maximur
Heating power	a7/6 - w30/35	(a)	kW	Minimum Nominal Maximur 2,42 4,25 5,66	3,53 6,20 8,26	Minimum Nominal Maximum 4,73 8,30 11,05	5,70 10,0 13,32
COP	a7/6 - w30/35	(a)	W/W	- 5,15 -	- 5,00 -	- 5,20 -	- 5,00 -
Heating power	a2/1 - w30/35	(b)	kW	2,54 4,45 5,93	3,13 5,50 7,32	4,05 7,10 9,46	4,67 8,20 10,92
COP	a2/1 - w30/35	(b)	W/W kW	- 4,05 - 2,74 4,80 6,39	- 3,95 - 3,48 6,10 8,12	- 4,10 - 4,05 7,10 9,46	- 4,05 - 4,70 8,25 10,99
Heating power COP	a-7/-8 - w30/35 a-7/-8 - w30/35	(c)	W/W	- 3,15 -	3,48 6,10 8,12	- 3,25 -	- 3,15 -
Heating power	a-15/-16 - w30/35	(d)	kW	1,75 3,07 4,09	2,15 3,77 5,02	3,31 5,80 7,72	3,48 6,10 8,12
COP	a-15/-16 - w30/35		W/W	- 2,88 -	- 2,83 -	- 2,98 -	- 3,01 -
Heating power (fancoils)	a7/6 - w40/45	(f)	kW	2,48 4,35 5,79	3,62 6,35 8,46	4,67 8,20 10,92	5,70 10,00 13,32
COP (fancoils) Heating power (fancoils)	a7/6 - w40/45 a2/1 - w40/45	(f)	W/W kW	- 3,80 - 2,91 5,10 6,79	- 3,75 - 3,31 5,80 7,72	- 3,95 - 4,22 7,40 9,86	- 3,80 - 4,47 7,85 10,45
COP (fancoils)	a2/1 - w40/45	(g) (g)	W/W	- 3,00 -	- 3,00 -	- 3,25 -	- 3,20 -
Heating power (fancoils)	a-7/-8 - w40/45	(h)	kW	2,45 4,30 5,73	3,08 5,40 7,19	3,76 6,60 8,79	4,19 7,35 9,79
COP (fancoils)	a-7/-8 - w40/45	(h)	W/W	- 2,35 -	- 2,40 -	- 2,55 -	- 2,55 -
Heating power (fancoils)	a-15/-16 - w40/45	(i)	kW	1,52 2,66 3,54	1,86 3,27 4,35	2,87 5,04 6,71	3,03 5,31 7,07
COP (fancoils) Cooling power	a-15/-16 - w40/45 a35 - w23/18	(i) (l)	W/W kW	- 2,02 - 2,41 4,50 5,52	- 1,98 - 3,51 6,55 8,03	- 2,32 - 4,50 8,40 10,30	- 2,34 - 5,36 10,00 12,27
EER	a35 - w23/18	(1)	W/W	- 5,55 -	- 4,90 -	- 5,05 -	- 4,80 -
Cooling power (fancoils)	a35 - w12/7	(m)	kW	2,52 4,70 5,77	3,75 7,00 8,59	3,97 7,40 9,08	4,40 8,20 10,06
EER (fancoils)	a35 - w12/7	(m)	W/W	- 3,45 -	- 3,00 -	- 3,38 -	- 3,30 -
Energy efficiency class in water heating 35°C	Warmer Climate			A+++	A+++	A+++	A+++
SCOP	Warmer Climate		0/	6,46	6,57	6,99	7,09
s (Seasonal efficiency for space heating)	Warmer Climate		ηs %	255,4%	259,8%	276,6%	280,5% A+++
Energy efficiency class in water heating 35°C	Average Climate Average Climate			A+++ 4,85	A+++ 4,95	A+++ 5,22	5,20
s (Seasonal efficiency for space heating)	Average Climate		ηs %	191,0%	195,0%	205,6%	204,8%
Energy efficiency class in water heating 35°C	Cold Climate		1 3 /0	A++	A++	A++	A++
SCOP	Cold Climate			4,06	4,21	4,33	4,32
s (Seasonal efficiency for space heating)	Cold Climate		ηs %	159,5%	165,3%	170,0%	169,8%
Energy efficiency class in water heating 55°C	Warmer Climate		1	A+++	A+++	A+++	A+++
SCOP	Warmer Climate			4,15	4,21	4,51	4,62
s (Seasonal efficiency for space heating)	Warmer Climate		ηs %	163,1%	165,4%	177,2%	181,7%
Energy efficiency class in water heating 55°C	Average Climate			A++	A++	A++	A++
SCOP	Average Climate			3,31	3,52	3,37	3,47
s (Seasonal efficiency for space heating)	Average Climate		ηs %	129,5%	137,9%	131,6%	135,7%
Energy efficiency class in water heating 55°C SCOP	Cold Climate			A+	A+	A+ 2,88	A+
s (Seasonal efficiency for space heating)	Cold Climate Cold Climate		ηs %	2,63	2,85	112,1%	2,99 116,5%
Indoor unit sound power (reg. EU 811-2013/UNI EN 12102:2022)	Cord Cirriate		dB(A)	46/40	46/40	46/42	46/42
Indoor unit sound pressure (reg. EU 811-2013/UNI EN 12102:2022)		(n)	dB(A)	38/32	38/32	38/36	38/36
Outdoor unit sound power (reg. EU 811-2013/UNI EN 12102:2022)		,	dB(A)	56/52	58/53	59/54	60/55
Outdoor unit sound pressure (reg. EU 811-2013/UNI EN 12102:2022)		(0)	dB(A)	36/32	38/33	39/34	40/35
System circulator absorption			W	3 - 87	3 - 87	3 - 87	3 - 87
Supply voltage indoor unit			V/ph/Hz		220-240/1/50	220-240/1/50	220-240/1/50
Maximum current absorbed indoor unit with additional resistors active			A kW	14,10	14,10 3,22	14,10 3,22	14,10 3,22
Maximum power absorbed indoor unit with additional active heating elements Additional electric heating elements			kW	3,22	1,5+1,5	1,5+1,5	1,5+1,5
Supply voltage outdoor unit			V/ph/Hz		220-240/1/50	220-240/7/50	220-240/1/50
Outdoor unit maximum absorbed current			Α	10	11	14	16
Outdoor unit maximum absorbed power			kW	2,2	2,6	3,3	3,6
Compressor type				Twin Rotary DC Inverte			Twin Rotary DC Invert
Refrigerant inlet connection diameter		,	"	1/4"-5/8"	1/4"-5/8"	3/8"-5/8"	3/8"-5/8"
Coolant gas		(p)	611/-	R32	R32	R32	R32
Global warming potential			GWP	675	675	675	675
Defrigerant and charge			kg	1,5	1,5	1,65	1,65
Refrigerant gas charge			g/m				70
Additional charge above 15m	min - max		g/m m				38 2 - 30
Additional charge above 15m Refrigerant piping length limit Refrigerant piping length limit without minimum surface check	min - max	(a)	m	2 - 30	2-30	2 - 30	2 - 30
Additional charge above 15m Refrigerant piping length limit Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018	min - max max	(q)	-	2 - 30 30	2-30 30	2 - 30 20	2 - 30 20
Additional charge above 15m Refrigerant piping length limit Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018 Hydraulic connections		(q)	m	2 - 30 30 1"	2-30 30 1"	2 - 30 20 1"	2 - 30 20 1"
Additional charge above 15m Refrigerant piping length limit Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018 Hydraulic connections Capacity of expansion vessel		(p)	m	2 - 30 30 1" 8	2-30 30 1" 8	2 - 30 20 1" 8	2 - 30 20 7" 8
Additional charge above 15m Refrigerant piping length limit Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018 Hydraulic connections Capacity of expansion vessel Load profile according to EN16147	max	(p)	m	2 - 30 30 1" 8 XL	2-30 30 1" 8 XL	2 - 30 20 1" 8 XL	2 - 30 20 1" 8 XL
Additional charge above 15m Refrigerant piping length limit Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018 Hydraulic connections Capacity of expansion vessel Load profile according to EN16147 DHW production energy efficiency class	max Average Climate	(q)	m m	2 - 30 30 1" 8 XL A+	2-30 30 1" 8 XL A+	2 - 30 20 1" 8 XL A+	2 - 30 20 1" 8 XL A+
Additional charge above 15m Refrigerant piping length limit Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018 Hydraulic connections Capacity of expansion vessel Load profile according to EN16147 DHW production energy efficiency class nHW (seasonal production efficiency DHW)	max	(q)	m	2 - 30 30 1" 8 XL A+ 125%	2-30 30 1" 8 XL A+ 125%	2 - 30 20 1" 8 XL A+ 123%	2 - 30 20 1" 8 XL A+ 123%
Additional charge above 15m Refrigerant piping length limit Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018 Hydraulic connections Capacity of expansion vessel Load profile according to EN16147 DHW production energy efficiency class ηHW (seasonal production efficiency DHW) Boiler volume	max Average Climate	(q)	m m	2 - 30 30 1" 8 XL A+	2-30 30 1" 8 XL A+	2 - 30 20 1" 8 XL A+	2 - 30 20 1" 8 XL A+
Additional charge above 15m Refrigerant piping length limit Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018 Hydraulic connections Capacity of expansion vessel Load profile according to ENI6147 DHW production energy efficiency class ηHW (seasonal production efficiency DHW) Boiler volume Boiler interior surface material	max Average Climate	(q)	m m l	2 - 30 30 1° 8 XL A+ 125% 200 DD12 glazed steel \$235JR	2-30 30 1" 8 XL A+ 125% 200 DD12 glazed steel \$235JR	2 - 30 20 1" 8 XL A+ 123% 200 DD12 glazed steel \$235JR	2 - 30 20 1" 8 XL A+ 123% 200 DD12 glazed steel \$235JR
Additional charge above 15m Refrigerant piping length limit Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018 Hydraulic connections Capacity of expansion vessel Load profile according to EN16147 DHW production energy efficiency class ηHW (seasonal production efficiency DHW) Boiler volume	max Average Climate	(q)	m m	2 - 30 30 1° 8 XL A+ 125% 200 DD12 glazed steel \$235JR 2,4	2-30 30 1" 8 XL A+ 125% 200 DD12 glazed steel \$235JR 2,4	2 - 30 20 1" 8 XL A+ 123% 200 DD12 glazed steel \$235JR 2,4	2 - 30 20 1" 8 XL A+ 123% 200 DD12 glazed steel \$235JR 2,4
Additional charge above 15m Refrigerant piping length limit Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018 Hydraulic connections Capacity of expansion vessel Load profile according to ENI6147 DHW production energy efficiency class ηHW (seasonal production efficiency DHW) Boiler volume Boiler interior surface material	max Average Climate	(q)	m m l	2 - 30 30 1° 8 XL A+ 125% 200 DD12 glazed steel \$235JR 2,4 Hard expanded polyurethan	2-30 30 1" 8 XL A+ 125% 200 DD12 glazed steel S235JR 2,4 Hard expanded polyurethane	2 - 30 20 1" 8 XL A+ 123% 200 DD12 glazed steel \$235.JR 2,4 Hard expanded polyurethane	2 - 30 20 1" 8 XL A+ 123% 200 DD12 glazed steel \$235JR 2,4 Hard expanded polyurethal
Additional charge above 15m Refrigerant piping length limit Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018 Hydraulic connections Capacity of expansion vessel Load profile according to EN16147 DHW production energy efficiency class nHW (seasonal production efficiency DHW) Boiler volume Boiler interior surface material Heat exchanger in the boiler	max Average Climate	(q)	m m l	2 - 30 30 1° 8 XL A+ 125% 200 DD12 glazed steel \$235JR 2,4	2-30 30 1" 8 XL A+ 125% 200 DD12 glazed steel \$235JR 2,4	2 - 30 20 1" 8 XL A+ 123% 200 DD12 glazed steel \$235JR 2,4	2 - 30 20 1" 8 XL A+ 123% 200 DD12 glazed steel S235JR 2,4
Additional charge above 15m Refrigerant piping length limit Refrigerant piping length limit without minimum surface check according to IE 60335-2-40:2018 Hydraulic connections Capacity of expansion vessel Load profile according to EN16147 DHW production energy efficiency class ηHW (seasonal production efficiency DHW) Boiler volume Boiler interior surface material Heat exchanger in the boiler Type and thickness of boiler insulation	max Average Climate	(q)	m m " I I " " I I I I I I I I I I I I I	2 - 30 30 1" 8 XL A+ 125% 200 DD12 glazed steel S235JR 2.4 Hard expanded polyurethan 55 mm	2-30 30 1" 8 XL A+ 125% 200 DD12 glazed steel S235JR 2.4 Hard expanded polyurethane 55 mm	2 - 30 20 1" 8 XL A+ 123% 200 DD12 glazed steel S235JR 2,4 Hard expanded polyurethane 55 mm	2 - 30 20 1" 8 XL A+ 123% 200 DD12 glazed steel S235JR 2,4 Hard expanded polyurethar 55 mm

ONLY FOR SHERPA TOWER

⁽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

⁽¹⁾ 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-anecholic 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 Energy efficiency classes refer to a range between A+++ and D.

ODU Sherpa S3 E					02288			02289			02290	
IDU Sherpa S3 E					02295			02295			02295	
IDU Sherpa Tower S3 E					02301			02301			02301	
Compressor frequency	a7/6 - w30/35	(2)	kW	Minimum 5,65	Nominal 12,10	Maximum 15,79	Minimum 6,77	Nominal 14,50	Maximum 18,92	Minimum 7,47	Nominal 16,00	Maximun 20,88
Heating power COP	a7/6 - w30/35	(a)	W/W	-	4,95	13,79	- 0,77	4,70	10,92	-	4,50	20,00
Heating power	a2/1 - w30/35	(b)	kW	4,34	9,30	12,14	5,32	11,40	14,88	6,07	13,00	16,96
COP	a2/1 - w30/35	(b)	W/W	-	3,95	-	-	3,65	-	-	3,50	-
Heating power COP	a-7/-8 - w30/35 a-7/-8 - w30/35	(c)	kW	4,67	10,00 3,00	13,05	5,60	12,00 2,80	15,66	6,21	13,3 2,70	17,35
Heating power	a-1/-6 - w30/35 a-15/-16 - w30/35	(c)	W/W kW	3,43	7,35	9,59	3,71	7,94	10,36	4,37	9,35	12,20
COP	a-15/-16 - w30/35		W/W	-	2,88	-	-	2,85	-	-	2,66	-
Heating power (fancoils)	a7/6 - w40/45	(f)	kW	5,74	12,30	16,05	6,63	14,20	18,53	7,47	16,00	20,88
COP (fancoils) Heating power (fancoils)	a7/6 - w40/45 a2/1 - w40/45	(f)	W/W kW	5,00	3,80	13,96	5,46	3,65	15,27	5,98	3,60 12,80	16.70
COP (fancoils)	a2/1 - w40/45	(g)	W/W	-	3,00	- 13,90		2,86	13,27		2,85	16,70
Heating power (fancoils)	a-7/-8 - w40/45	(h)	kW	4,76	10,20	13,31	5,51	11,80	15,40	6,02	12,90	16,83
COP (fancoils)	a-7/-8 - w40/45	(h)	W/W	-	2,40	-	-	2,35	-	-	2,23	-
Heating power (fancoils)	a-15/-16 - w40/45		kW W/W	3,10	6,63	8,65	3,34	7,16 2,29	9,34	3,93	8,41 2,03	10,97
COP (fancoils) Cooling power	a-15/-16 - w40/45 a35 - w23/18	(i) (I)	kW	5,60	2,32 12,00	14,29	6,31	13,00	16,08	6,96	13,50	17,75
EER	a35 - w23/18	(1)	W/W	-	4,00	-	-	3,70	-	-	3,61	-
Cooling power (fancoils)	a35 - w12/7	(m)	kW	5,42	11,60	13,82	5,93	12,70	15,13	6,54	14,00	16,67
EER (fancoils)	a35 - w12/7	(m)	W/W	-	2,75	-	-	2,55	-	-	2,45	-
Energy efficiency class in water heating 35°C	Warmer Climate				A+++			A+++			A+++	
s (Seasonal efficiency for space heating)	Warmer Climate Warmer Climate		ηs %		6,48 256,1%			6,58 260,3%			6,47 255,6%	
S (Seasonal efficiency for space fleating) Energy efficiency class in water heating 35°C	Average Climate		1 3 /0		A+++			A+++			A+++	
SCOP	Average Climate				4,81			4,72			4,62	
s (Seasonal efficiency for space heating)	Average Climate		ηs %		189,4%			185,7%			181,7%	
Energy efficiency class in water heating 35°C	Cold Climate				A+			A++			A++	
SCOP	Cold Climate				4,08			4,07			4,02	
s (Seasonal efficiency for space heating)	Cold Climate		ηs %		160,2%			159,6%			157,8%	
Energy efficiency class in water heating 55°C	Warmer Climate				A+++			A+++			A+++	
SCOP	Warmer Climate		0/		4,43			4,49			4,48	
s (Seasonal efficiency for space heating) Energy efficiency class in water heating 55°C	Warmer Climate Average Climate		ηs %		174,1% A++			176,5% A++			176,1% A++	
SCOP	Average Climate				3,45			3,47			3,41	
s (Seasonal efficiency for space heating)	Average Climate		ηs %		135,1%			135,6%			133,3%	
Energy efficiency class in water heating 55°C	Cold Climate				A+			A+			A+	
SCOP	Cold Climate				3,02			3,05			3,12	
s (Seasonal efficiency for space heating)	Cold Climate		ηs %		117,8%			118,9%			121,8%	
Indoor unit sound power (reg. EU 811-2013/UNI EN 12102:2022)			dB(A)		48/46			48/46			48/46	
Indoor unit sound pressure (reg. EU 811-2013/UNI EN 12102:2022)		(n)	. ,		40/38			40/38			40/38	
Outdoor unit sound power (reg. EU 811-2013/UNI EN 12102:2022) Outdoor unit sound pressure (reg. EU 811-2013/UNI EN 12102:2022)		(0)	dB(A)		64/60 44/40			65/62 45/42			68/64 48/44	
System circulator absorption		(0)	W		8 - 140			8 - 140			8 - 140	
Supply voltage indoor unit			V/ph/Hz		220-240/1/50)	-	220-240/1/5	0		220-240/1/5)
Maximum current absorbed internal unit with additional active heating elements			Α		27,20			27,20			27,20	-
Maximum power absorbed indoor unit with additional active heating elements			kW		6,22			6,22			6,22	
Additional electric heating elements			kW		3,0+3,0			3,0+3,0			3,0+3,0	
Supply voltage outdoor unit			V/ph/Hz		220-240/1/50	J	i	220-240/1/5	U		220-240/1/5 25	J
Outdoor unit maximum absorbed current Outdoor unit maximum absorbed power			A kW		23 5,4			25 5,7			5,7	
Compressor type			VAA	Twin F	3,4 Rotary DC Ir	nverter	Twin F	otary DC I	nverter	Twin F	otary DC II	nverter
Refrigerant inlet connection diameter			н		3/8"-5/8"			3/8"-5/8"			3/8"-5/8"	
Coolant gas		(p)			R32			R32			R32	
Global warming potential			GWP		675			675			675	
Refrigerant gas charge			kg		1,84			1,84			1,84	
Additional charge above 15m	min may		g/m		38			38			38	
Refrigerant piping length limit Refrigerant piping length limit without minimum surface check	min - max		m		2 - 30			2 - 30			2 - 30	
according to IEC 60335-2-40:2018	max	(q)	m		15			15			15	
Hydraulic connections			"		7"			7"]"	
Capacity of expansion vessel			I		8			8			8	
Load profile according to EN16147	Average Climate				XL A			XL A			XL A	
DHW production energy efficiency class nHW (seasonal production efficiency DHW)	Average Climate		%		95%			95%			95%	
Boiler volume	Average cillidit		/o		200			200			200	
Boiler interior surface material				DD12 g	lazed steel	S235JR	DD12 g	lazed steel	S235JR	DD12 g	lazed steel	S235JR
Heat exchanger in the boiler			m²		2,4			2,4			2,4	
Type and thickness of boiler insulation				Hard exp	anded poly	urethane	Hard exp	anded poly	urethane	Hard exp	anded poly	urethan
Specific dispersion			W/K		55 mm 2			55 mm 2			55 mm 2	
DHW expansion tank capacity			W/K		7			7			7	
D Separation turns capacity			- 1		3/4"			3/4"			3/4"	

ONLY FOR SHERPA TOWER

SINGLE-PHASE R32 TECHNICAL DATA

⁽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

⁽¹⁾ 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-anecholic 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 Energy efficiency classes refer to a range between A+++ and D.

	THREE-PHASE R32 TECHNICAL DATA					12T			14T			16T	
	ODU Sherpa S3 E					02291			02292			02293	
	IDU Sherpa S3 E					02295			02295			02295	
	IDU Sherpa Tower S3 E Compressor frequency				Minimum	02301 Nominal	Maximum	Minimum	02301 Nominal	Maximum	Minimum	02301 Nominal	Maximum
	Heating power	a7/6 - w30/35	(a)	kW	5,65	12,10	15,79	6,77	14,50	18,92	7,47	16,00	20,88
	COP	a7/6 - w30/35	(a)	W/W	-	4,95	-	-	4,70	-	-	4,50	-
	Heating power	a2/1 - w30/35	(b)	kW	4,34	9,30	12,14	5,32	11,40	14,88	6,07	13,00	16,96
	COP Heating power	a2/1 - w30/35 a-7/-8 - w30/35	(b)	W/W kW	4,67	3,95	13,05	5,60	3,65	15,66	6,21	3,50 13,30	17,35
	COP	a-7/-8 - w30/35	(c)	W/W	-	3,00	-	-	2,80	-	-	2,70	-
	Heating power	a-15/-16 - w30/35	(d)	kW	3,43	7,35	9,59	3,71	7,94	10,36	4,37	9,35	12,20
PUNCTUAL PERFORMANCE	COP Heating power (fancoils)	a-15/-16 - w30/35 a7/6 - w40/45	(d) (f)	W/W kW	5,74	2,88 12,30	16,05	6,63	2,85 14,20	18,53	7,47	2,66 16,00	20,88
	COP (fancoils)	a7/6 - w40/45	(f)	W/W	-	3,80	-	-	3,65	- 10,33	-	3,60	-
	Heating power (fancoils)	a2/1 - w40/45	(g)	kW	5,00	10,70	13,96	5,46	11,70	15,27	5,98	12,80	16,70
	COP (fancoils)	a2/1 - w40/45 a-7/-8 - w40/45	(g) (h)	W/W kW	4,76	3,00 10,20	13,31	5,51	2,86 11,80	15,40	6,02	2,85 12,90	16,83
	Heating power (fancoils) COP (fancoils)	a-7/-8 - w40/45	(h)	W/W	4,70	2,40	- 10,31		2,35	13,40	- 0,02	2,23	- 10,03
	Heating power (fancoils)			kW	3,10	6,63	8,65	3,34	7,16	9,34	3,93	8,41	10,97
	COP (fancoils)	a-15/-16 - w40/45		W/W	-	2,32	- 74.00	-	2,29	- 70.00	-	2,03	
	Cooling power EER	a35 - w23/18 a35 - w23/18	(1)	kW W/W	5,60	12,00	14,29	6,31	13,00 3,70	16,08	6,96	13,50 3,61	17,75
	Cooling power (fancoils)	a35 - w12/7	(m)	kW	5,42	11,60	13,82	5,93	12,70	15,13	6,54	14,00	16,67
	EER (fancoils)	a35 - w12/7	(m)	W/W	-	2,75	-	-	2,55	-	-	2,45	-
	Energy efficiency class in water heating 35°C	Warmer Climate				A+++			A+++			A+++	
	SCOP s (Seasonal efficiency for space heating)	Warmer Climate Warmer Climate		ηs %		6,47 255,6%			6,57 259,8%			6,28 248,1%	
	Energy efficiency class in water heating 35°C	Average Climate		1 5 /0		A+++			A+++			A+++	
	SCOP	Average Climate				4,81			4,72			4,62	
	s (Seasonal efficiency for space heating)	Average Climate		ηs %		189,3%			185,6%			181,6%	
	Energy efficiency class in water heating 35°C	Cold Climate				A++			A++			A++	
	SCOP	Cold Climate		0/		4,08			4,07			4,02	
	s (Seasonal efficiency for space heating) Energy efficiency class in water heating 55°C	Cold Climate Warmer Climate		ηs %		160,2% A+++			159,6% A+++			157,8% A+++	
	SCOP	Warmer Climate				4,42			4,49			4,47	
	s (Seasonal efficiency for space heating)	Warmer Climate		ηs %		173,8%			176,4%			175,9%	
	Energy efficiency class in water heating 55°C	Average Climate				A++			A++			A++	
	SCOP	Average Climate				3,45			3,47			3,41	
	s (Seasonal efficiency for space heating)	Average Climate		ηs %		135,1%			135,6% A+			133,2%	
	Energy efficiency class in water heating 55°C SCOP	Cold Climate Cold Climate				A+ 3,02			3,05			A+ 3,12	
	s (Seasonal efficiency for space heating)	Cold Climate		ηs %		117,7%			118,9%			121,8%	
	Indoor unit sound power (reg. EU 811-2013/UNI EN 12102:2022)			dB(A)		48/46			48/46			48/46	
	Indoor unit sound pressure (reg. EU 811-2013/UNI EN 12102:2022)		(n)	dB(A)		40/38			40/38			40/38	
	Outdoor unit sound power (reg. EU 811-2013/UNI EN 12102:2022)		()	dB(A)		64/60			65/62			68/64	
	Outdoor unit sound pressure (reg. EU 811-2013/UNI EN 12102:2022) System circulator absorption		(0)	dB(A)		44/40 8 - 140			45/42 8 - 140			48/44 8 - 140	
	Supply voltage indoor unit			V/ph/Hz	;	220-240/1/5	n	7	220-240/1/50)	7	0 - 140 220-240/1/50)
	Maximum current absorbed internal unit with additional active heating elements			Α		27,20			27,20			27,20	
	thm:maximum power absorbed indoor unit with additional active heating elements			kW		6,22			6,22			6,22	
	Additional electric heating elements			kW		3,0+3,0			3,0+3,0			3,0+3,0	
	Supply voltage outdoor unit Outdoor unit maximum absorbed current			V/ph/Hz A	3	380-415/3/5 8	U	3	80-415/3/5 8	J	3	80-415/3/5 8	J
	Outdoor unit maximum absorbed power			kW		5.4			5.7			5.7	
	Compressor type				Twin F	Rotary DC I	nverter	Twin R	otary DC Ir	nverter	Twin F	otary DC Ir	verter
	Refrigerant inlet connection diameter		/ :	п		3/8"-5/8"			3/8"-5/8"			3/8"-5/8"	
	Coolant gas Global warming potential		(p)	GWP		R32 675			R32 675			R32 675	
	Refrigerant gas charge			kg		1,84			1,84			1,84	
	Additional charge above 15m			g/m		38			38			38	
	Refrigerant piping length limit	min - max		m		2 - 30			2 - 30			2 - 30	
	Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018	max	(q)	m		15			15			15	
	Hydraulic connections			"]"]"]"	
	Capacity of expansion vessel			I		8			8			8	
	Load profile according to EN16147					XL			XL			XL	
	DHW production energy efficiency class	Average Climate				A			A			A	
	ηΗW (seasonal production efficiency DHW)	Average Climate		%		95%			95%			95%	
	Boiler volume Boiler interior surface material				DD12 a	200 lazed steel	\$235.IR	DD12 at	200 azed steel	\$235.IR	DD12 a	200 azed steel	\$235.IR
	Heat exchanger in the boiler			m²	5512.8	2,4	2200011		2,4			2,4	
	Type and thickness of boiler insulation				Hard exp	anded poly	/urethane	Hard exp	anded poly	urethane	Hard exp	anded poly	urethane
	Specific dispersion			W/K		55 mm 2			55 mm 2			55 mm 2	
	DHW expansion tank capacity			W/K		7			7			7	
	DHW hydraulic connections			"		3/4"			3/4"			3/4"	

ONLY FOR SHERPA TOWER

⁽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

⁽¹⁾ 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-anecholic 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 Energy efficiency classes refer to a range between A+++ and D.

ACCI	ESSORIES		suspended	tower
	B0971	Thermostatic mixing valve kit for DHW	_	0
	B0972	Expansion tank kit for DHW	_	0
	B0918	Kit Sherpa Flex Box AS	≤10	_
	B0961	Kit Sherpa Flex Box AS RAL 9016	≤10	_
	B1120	Sherpa Flex Box adapter kit	≤10	_
	B0916	Kit 3-way valve for DHW	0	•
S	B0917	Solar thermal probe kit	0	_
CONTROLS	B0623	Outdoor air temperature probe kit	0	0
8	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	_
8	01806	HES 300 L solar storage tank	0	_
PUFF	01807	Hybride boiler HY 300 L	0	_
STORAGE TANKS / PUFFER	01808	HYS 300 L solar hybrid storage tank	0	_
ETAN	B0618	Resistance for boiler 2 kW	0	_
ORAG	B0666	Resistance for boiler 3 kW	0	_
S	B0617	Resistance flange kit	0	_
	01199	Thermal accumulation 50 L	0	0
	01200	Thermal accumulation 100 L	0	0

Optional accessory | ● Standard accessory | — Accessory not compatible

Accessory description on page 54

Heat Pump Controls

In-depth analysis of the different control possibilities

The Sherpa and Sherpa Aquadue heat pumps, in the wall-mounted or tower versions, can be configured using an easy and intuitive touchscreen interface, accessible both from the machine and from the optional control panel.

STANDARD | Touchscreen on the machine



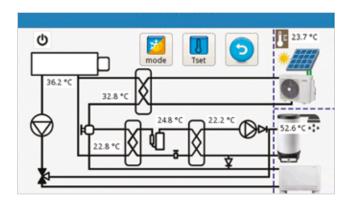
MODES

To deactivate the system (stand-by), set the cooling/ heating switch or take advantage of the special modes, which ensure maximum energy saving (eco), minimum night noise (night) or DHW production using all the power (turbo).



SET POINT

To change the different set points with a simple touch (if the set-point mode with climate curve is not enabled).



PHOTOVOLTAIC CONTACT

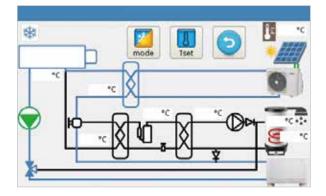
To activate a set point delta on the DHW, the heating and cooling, accumulating thermal energy when there is an overproduction of electricity from the photovoltaic system.





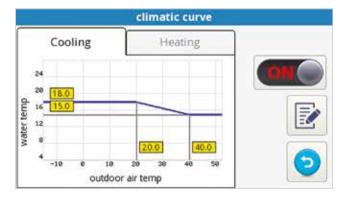
TIMERS

To access the programming available for climate comfort and DHW production, including night and holiday modes.



SOLAR THERMAL PROBE

To produce DHW with solar thermal only, inhibiting the heat pump in certain conditions, if the delivery temperature of the solar panels is above a certain value or if the difference between the delivery temperature of the panels and the boiler set point one is higher than the set value.



CLIMATIC CURVES

To optimise energy saving, adapting the water temperature to the outside air temperature and therefore to the thermal load.

From the standard touchscreen control it is also possible to manage:

LOW TEMPERATURE ACTIVATION

To activate the heaters and allow heating of the screed in the case of a radiant system.

COMMUNICATION PROTOCOL

For combination with home automation systems, choosing between the ModBus RTU or ASCII protocol.

OPTIONAL | Remote control panel (code B0931)

In cases where control of the heat pump is possible or preferable in an environment other than the one where the internal unit is installed, the control can easily be accessed remotely. Through the special kit for remote control panel, the touchscreen interface is thus accessible up to 10 metres away (cable length 10 metres).



Kit Sherpa Flex Box

Freestanding technical cabinet for Sherpa and Sherpa Aquadue split heat pumps, hanging version



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 heat pump 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
B1120	Sherpa Flex Box adapter kit









FEATURES

- Dimensions (W x D x H): 998 x 415 x 2280 mm
- System connections from below or from the back
- Condensation 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).

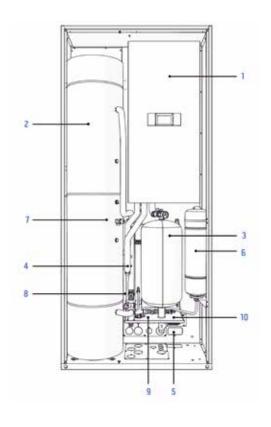
TYPES OF INSTALLATION

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).





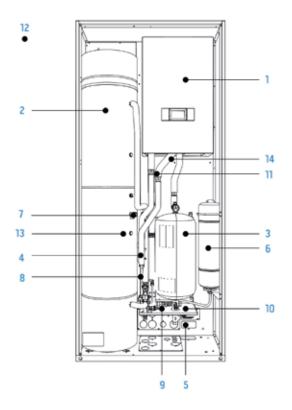
COMPATIBILITY SHERPA AQUADUE

- Sherpa Aquadue S2 E multi-purpose heat pumps, wall-mounted version, in sizes 4 and 6 (UI Sherpa Aquadue S2 E Small 02042).
- Sherpa Aquadue S3 E multi-purpose heat pumps, wall-mounted version, in sizes 4, 6, 8 and 10 (UI Sherpa Aquadue S3 E Small 02296).
- 1. UI Sherpa Aquadue S2/S3 E Small | Code 02042/02296
- 2. Domestic hot water cylinder 150 liters -INOX AISI 316L
- 3. Technical storage tank plant 28 liters -INOX AISI 316L
- 4. Kettle return filter
- 5. Plant return filter

Components included in

codes B0918/B0961

- 6. Sanitary expansion tank 12 liters
- 7. Sanitary safety valve 6 bar
- 8. Sanitary thermostatic mixing valve
- 9. Micrometric holder for By-Pass
- 10. Condensation drip pan



SHERPA COMPATIBILITY

- Sherpa S2 E traditional heat pumps, wall-mounted version, in sizes 4 and 6 (UI Sherpa S2 E Small 02040).
- Sherpa S3 E traditional heat pumps, wall-mounted version, in sizes 4, 6, 8 and 10 (UI Sherpa S3 E Small 02294).
- 1. UI Sherpa S2/S3 E Small (**02040/02294**)
- 2. Domestic hot water cylinder 150 liters -INOX AISI 316L
- 3. Technical storage tank plant 28 liters -INOX AISI 316L
- 4. Kettle return filter
- 5. Plant return filter

Components included in

- 6. Sanitary expansion tank 12 liters
- 7. Sanitary safety valve 6 bar
- 8. Sanitary thermostatic mixing valve
- 9. Micrometric holder for By-Pass
- 10. Condensation drip pan
- 11. 3-way valve kit for DHW | Code B0916
- 12. Outdoor air temperature probe kit | Code B0623
- 13. DHW cylinder sensor kit | Code B0624
- 14. Flex Box Adapter Kit | Code B1120

SHERPA COLD

Split heat pump for cold climates



HIGH PERFORMANCE ALSO AT LOW TEMPERATURE





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

- · Air-to-water inverter heat pump
- energy efficiency class in heating medium climate: up to A+++ (35°C) and A++ (55°C) on a range between A+++ and D.
- Energy efficiency class in heating cold climate: up to A+ (35°C) and A+ (55°C) on a range between A+++ and D.
- Available powers: 2 powers with single-phase R410A refrigerant (10-15 kW) and 1 powers with three-phase R410A refrigerant (18 kW)
- Provides DHW with temperature up to 55° C.
- Inverter steam-injected Scrollcompressor
- Expansion valve: electronic

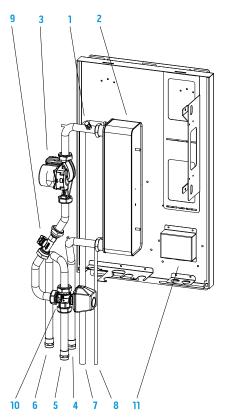
- Refrigerant circuit with economizer
- Color touchscreen remotecontrol panel
- Maintenance of machineoutput even in cold outside temperatures
- Optimization of machinedefrost cycles and excellent performance even at cold outside temperatures
- Operating limits: down to -32°C, +48°C (see technical manuals for details)
 - Refrigerant gas R410A*
- **External air probe** integrated in the machine
- Devices supplied with the machine:
- metal frame for outdoor installation touch panel
- pair of 250 mm high metal feet with vibration dampers
- rear metal mesh for battery protection
- integration kit relay for activation of boiler or other electrical resistance
- domestic hot water management kit k1 relay, 1"1/4" 3-way valve, b3 probe
- heating resistor condensation drain pipe
- fan grille for noise reduction 800mm diameter (sizes 15,15T,18T)

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



OLIMPIA SPLENDID

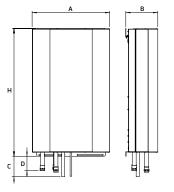
LAYOUT, DIMENSIONS, WEIGHT



- 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 hose
- 8. Liquid passage hose
- 9. Flow meter
- **10.** 3-way valve
- 11. Electrical panel

Indoor Units

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



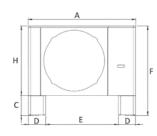


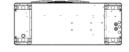
- 1. Evaporator
- 2. Compressor
- 4. Liquid indicator
- 6. Liquid tank
- 7. Electrical panel
- 8. Economiser
- 9. Ball valve
- 10. Check valve
- 11. Electronic expansion valve
- **12.** 4-way valve
- **13**. Fan

Outdoor units

			15	18 T
4	mm	1406	1591	1591
В	mm	550	546	546
2	mm	259	259	259
0	mm	225	225	225
Ε	mm	949	1134	1134
F	mm	1167	1271	1271
Н	mm	908	1012	1012
Neight	kg	160	200	200







TECHNICAL DATA					10			15	
ODU Sherpa Cold					02269			02273	
IDU Sherpa Cold					02276			02277	
Compressor frequency				Minimum	Nominal	Maximum	Minimum	Nominal	Maximu
Heating power	a7/6 - w30/35	(a)	kW	3.90	9.60	-	5.51	14.40	-
COP	a7/6 - w30/35	(a)	W/W	-	4.27	-	-	4.68	-
Heating power	a2/1 - w30/35	(b)	kW	4.80	9.60	-	6.82	14.40	-
COP	a2/1 - w30/35	(b)	W/W	-	3.83	-	-	3.85	-
Heating power	a-7/-8 - w30/35	(c)	kW	4.17	9.60	-	6.26	14.40	-
COP	a-7/-8 - w30/35	(c)	W/W	-	2.98	-	-	2.98	-
Heating power	a-15/-16 - w30/35		kW	3.72	8.93	-	5.52	13.25	-
COP	a-15/-16 - w30/35	(d)	W/W	-	2.26	-	-	2.57	-
Heating power	a-20/-19 - w30/35		kW	3.28	7.87	-	4.88	11.71	-
COP	a-20/-19 - w30/35		W/W	-	2.09	-	-	2.43	-
Heating power (fancoils)	a7/6 - w40/45	(f)	kW	3.90	9.60	-	5.51	14.40	-
COP (fancoils)	a7/6 - w40/45	(f)	W/W	-	3.33	-	-	3.53	-
Heating power (fancoils)	a2/1 - w40/45	(g)	kW	4.80	9.60	-	6.82	14.40	-
COP (fancoils)	a2/1 - w40/45	(g)	W/W	-	2.82	-	-	3.08	-
Heating power (fancoils)	a-7/-8 - w40/45	(h)	kW	4.17	9.60	-	6.26	14.40	-
COP (fancoils)		(h)	W/W		2.33	-	-	2.45	-
Heating power (fancoils)	a-15/-16 - w40/45		kW	3.68	8.83	-	5.36	12.86	-
COP (fancoils)	a-15/-16 - w40/45		W/W	-	1.90	-	-	2.03	-
Heating power (fancoils)	a-20/-19 - w40/45		W/W	3.17	7.61	-	4.80	11.52	-
COP (fancoils)	a-20/-19 - w40/45		W/W		1.76	-	-	1.92	-
Cooling power	a35 - w23/18	(1)	kW	3.53	8.40	-	4.08	11.31	-
EER	a35 - w23/18	(1)	W/W		4.26	-	-	4.45	-
Cooling power (fancoils)	a35 - w12/7	(m)	kW	2.71	6.44	-	3.13	8.67	-
EER (fancoils)	a35 - w12/7	(m)	W/W	-	3.31	-	-	3.45	-
Energy efficiency class in water heating 35°C	Warmer Climate				A+++			A+++	
SCOP	Warmer Climate				4.62			4.79	
s (Seasonal efficiency for space heating)	Warmer Climate		ηs %		181.8			188.6	
Energy efficiency class in water heating 35°C	Average Climate				A+++			A+++	
SCOP	Average Climate				4.50			4.60	
s (Seasonal efficiency for space heating)	Average Climate		ηs %		177.3			181.1	
Energy efficiency class in water heating 35°C	Cold Climate				A+			A+	
SCOP	Cold Climate				3.60			3.71	
s (Seasonal efficiency for space heating)	Cold Climate		ηs %		141,1			145.3	
Energy efficiency class in water heating 55°C	Warmer Climate				A++			A++	
SCOP	Warmer Climate				3.27			3.45	
s (Seasonal efficiency for space heating)	Warmer Climate		ηs %		127.8			135.1	
Energy efficiency class in water heating 55°C	Average Climate				A++			A++	
SCOP	Average Climate				3.23			3.37	
s (Seasonal efficiency for space heating)	Average Climate		ηs %		126.3			131.9	
Energy efficiency class in water heating 55°C	Cold Climate				A+			A+	
SCOP	Cold Climate				2.68			2.76	
s (Seasonal efficiency for space heating)	Cold Climate		ηs %		104.2			107.3	
Indoor unit sound power			dB(A)		36			36	
Indoor unit sound pressure		(n)	dB(A)		30			30	
Outdoor unit sound power (nominal)			dB(A)		53.4			52.9	
Outdoor unit sound pressure (nominal)		(0)	dB(A)		33.5			33	
System circulator absorption			W		75			75	
Supply voltage indoor unit			V/ph/Hz		230/1/50			230/1/50	
Maximum absorbed current of the internal unit			А		0.33			0.33	
Maximum power consumption of the internal unit			kW		0.75			0.75	
Additional electric heating elements			kW		-			-	
Supply voltage outdoor unit			V/ph/Hz		230/1/50			230/1/50	
Outdoor unit maximum absorbed current			A		24.6			38.7	
Outdoor unit maximum absorbed power			kW		5.1			8.0	
Compressor type					Scroll with injection	1		Scroll with injection	1
Refrigerant inlet connection diameter			п		e installation man			e installation mani	
Coolant gas		(p)			R410A			R410A	
Global warming potential		(٢)	GWP		2088			2088	
Refrigerant gas charge			kg		5			6.5	
Refrigerant piping length limit without minimum surface			"8		J			0.0	
verification		(q)			-			-	
Hydraulic connections			"		7"			7"	
Capacity of expansion vessel			1		-			-	

⁽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 2°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 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 water temperature 25°C, inlet/outlet water te

⁽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 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
Energy efficiency classes refer to a range between A+++ and D.

TECHNICAL DATA					18 T	
ODU Sherpa Cold					02275	
IDU Sherpa Cold					02278	
Compressor frequency				Minimum	Nominal	Maximum
Heating power		(a)	kW	6.24	17.28	-
COP		(a)	W/W		4.34	-
Heating power	a2/1 - w30/35	(b)	kW	7.78	17.28	-
COP		(b)	W/W	_ = =	3.37	•
Heating power		(c)	kW	7.20	17.28	-
COP		(c)	W/W	-	2.61	-
Heating power	a-15/-16 - w30/35		kW	6.40	15.36	-
COP	a-15/-16 - w30/35		W/W	-	2.23	•
Heating power	a-20/-19 - w30/35			5.60	13.44	-
COP	a-20/-19 - w30/35		W/W		2.03	•
Heating power (fancoils)	a7/6 - w40/45	(f)	kW	6.24	17.28	-
COP (fancoils)		(f)	W/W	-	3.05	•
Heating power (fancoils)		(g)	kW	7.78	17.28	-
COP (fancoils)	a2/1 - w40/45	(g)	W/W	-	2.80	•
Heating power (fancoils)	a-7/-8 - w40/45		kW	7.20	17.28	-
COP (fancoils)	a-7/-8 - w40/45		W/W	-	2.20	-
Heating power (fancoils)	a-15/-16 - w40/45		kW	5.80	13.92	-
COP (fancoils)	a-15/-16 - w40/45		W/W	-	1.90	-
Heating power (fancoils)	a-20/-19 - w40/45		W/W	5.20	12.48	-
COP (fancoils)	a-20/-19 - w40/45		W/W	-	1.79	-
Cooling power	a35 - w23/18	(1)	kW	6.62	15.72	-
EER	a35 - w23/18	(I)	W/W	-	4.11	-
Cooling power (fancoils)		(m)	kW	5.08	12.34	-
EER (fancoils)		(m)	W/W	-	2.99	-
Energy efficiency class in water heating 35°C	Warmer Climate				A+++	
SCOP	Warmer Climate				4.66	
s (Seasonal efficiency for space heating)	Warmer Climate		η s %		183.7	
Energy efficiency class in water heating 35°C	Average Climate				A+++	
SCOP	Average Climate				4.45	
s (Seasonal efficiency for space heating)	Average Climate		η s %		175	
Energy efficiency class in water heating 35°C	Cold Climate				A+	
SCOP	Cold Climate				3.44	
s (Seasonal efficiency for space heating)	Cold Climate		η s %		134.6	
Energy efficiency class in water heating 55°C	Warmer Climate				A+	
SCOP	Warmer Climate				3.19	
s (Seasonal efficiency for space heating)	Warmer Climate		η s %		124.7	
Energy efficiency class in water heating 55°C	Average Climate				A+	
SCOP	Average Climate				3.13	
s (Seasonal efficiency for space heating)	Average Climate		η s %		122.2	
Energy efficiency class in water heating 55°C	Cold Climate				A	
SCOP	Cold Climate				2.51	
s (Seasonal efficiency for space heating)	Cold Climate		η s %		97.4	
Indoor unit sound power			dB(A)		37	
Indoor unit sound pressure		(n)	dB(A)		31	
Outdoor unit sound power (nominal)		()	dB(A)		54	
Outdoor unit sound pressure (nominal)		(0)			34	
System circulator absorption		()	W		85	
Supply voltage indoor unit			V/ph/Hz		230/1/50	
Maximum absorbed current of the internal unit with active heating elements			Α Α		0.33	
Internal unit maximum power consumption with active heating elements			kW		0.75	
Additional electric heating elements			kW		-	
Supply voltage outdoor unit			V/ph/Hz		400/3/50	
Outdoor unit maximum absorbed current			А		13.6	
Outdoor unit maximum absorbed power			kW		8.5	
Compressor type			LVAA		Scroll with injection	
Refrigerant inlet connection diameter			п		See installation manual	
		(n)				
Coolant gas		(p)	CMD		R410A	
Global warming potential			GWP		2088	
Refrigerant gas charge		(-)	kg		6.5	
Refrigerant piping length limit without minimum surface verification		(q)			-	
Hydraulic connections			"		7"	
Capacity of expansion vessel						

ACCESSORIES

	B0900	Cable for Modbus connection touch panel 100m	▼
SIES	B0899	Metallic frame for touch panel external installation	0
ACCESSORIES	B0906	Aesthetic fan cover front grille	10
ACC	B0907	Aesthetic fan cover front grille	≥ 15
	B0915	Brass Y filter	0
	01804	HE 200 L storage tank	10
IFER	01805	HE 300 L storage tank	0
S/PL	01806	HES 300 L solar storage tank	≤ 15
TANKS / PUFFER	01200	Thermal accumulation 100 L	10
AGE 1	B0618	Resistance for boiler 2 kW	0
STORAGE .	B0666	Resistance for boiler 3 kW	0
	B0617	Resistance flange kit	0

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

Accessory description on page 54

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.









Monobloc heat pump



COMPACT TECHNOLOGY

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



DOMESTIC HOT WATER UP TO 60°C

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



INTEGRATED WI-FI

By downloading the Comfort Home app you can manage all its features from your smartphone, even when away from home.



FEATURES

- · Air-water heat pump inverter with R32 refrigerant
- Energy efficiency class in heating moderate climate: A+++ (35°C) e A++ (55°C) on a range between A+++ and D.
- **Power available:** 9 versions with R32 refrigerant single-phase (6-8-10-12-14-16 kW) three-phase power supplies (12-14-16 kW)
- **DHW production:** up to 60°C
- Compressor: twin rotary DC.
- Expansion valve: electronic.
- Fan with brushless DC motor.
- Standard supply remote touchscreen control panel (connection cable up to 50 m not included). Integrated Wi-Fi module for controlling the machine via smartphone and table, with relevant app (Comfort Home)

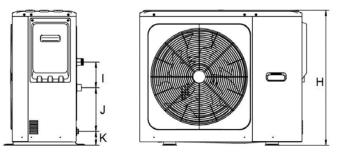
- Refrigerant gas: R32*
- Operating limits: up to -25°C, +43°C (see technical manuals for details)
- **External air probe** integrated in the machine.
- **Domestic Hot Water storage tank probe:** standard supply with the machine.
- Cascade management: up to 6 units can be connected (of the same size), 1 Master and 5 Slaves (only the Master unit can produce domestic hot water).
- Smart Grid: the heat pump is prepared to dialogue with a smart electric grid and is SG Ready certified, according to the requirements of the German BWP Institute.

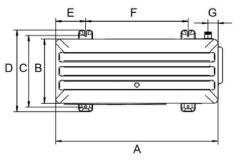
^{*} Equipment hermetically sealed containing fluorinated gases with an equivalent GWP of 675 (R32)



OLIMPIA SPLENDID

LAYOUT, DIMENSIONS, WEIGHT





		6	8	10	12	14	16	12T	14T	16T			
		MONOFAN											
Α	mm	1040	1040	1040	1040	1040	1040	1040	1040	1040			
В	mm	410	410	410	410	410	410	410	410	410			
С	mm	458	458	458	458	458	458	458	458	458			
D	mm	523	523	523	523	523	523	523	523	523			
E	mm	191	191	191	191	191	191	191	191	191			
F	mm	656	656	656	656	656	656	656	656	656			
G	mm	64	64	64	64	64	64	64	64	64			
Н	mm	865	865	865	865	865	865	865	865	865			
1	mm	165	165	165	165	165	165	165	165	165			
J	mm	279	279	279	279	279	279	279	279	279			
K	mm	89	89	89	89	89	89	89	89	89			
Weight	kg	87	87	87	106	106	106	120	120	120			

CASCADING

Cascading of up to 6 units. System power up to 96 kW.



REMOTE CONTROL VIA APP COMFORT HOME

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 "Comfort Home" App can be downloaded free of charge from the Google and Apple Stores, which allows control of the machine via the Cloud.



TECHNICAL DATA					6			8			10			12			14			16	
Sherpa Monobloc S2 E					02303			02304			02305			02306			02307			02308	
Compressor frequency	710 00105	()		Min			Min		Max		Nom		Min					Max	Min		
Heating power	a7/6 - w30/35	(a)	kW	-	6,5	8,47	-	8,4	9,56	-	10	11,16	-	12,2	13,42	-	14,1	15,27	-	16	18,2
COP Heating power	a7/6 - w30/35 a2/1 - w30/35	(a) (b)		-	5,3 5,6	7,64	-	5,05 7,1	- 8,52	-	4,7 8,2	9,94	-	4,9 12,3	12,3	-	4,7	13,56	-	4,5 14,5	14,7
COP	a2/1 - w30/35	(b)	_	-	4,2	7,04	-	3,95	- 0,32	-	3,8	9,94		3,6	- 12,3	-	3,5	-	-	3,25	14,1
Heating power	a-7/-8 - w30/35	(c)	kW	-	6,2	6,67	-	7,1	7,65	-	8	8,4	-	11,6	12,1	-	12,5	13,2	-	13,5	14,
COP	a-7/-8 - w30/35	(c)	W/W	-	3,2	-	-	3,15	-	-	3	-	-	2,85	-	-	2,8	-	-	2,7	-
Heating power	a-15/-16 - w30/35	(d)	kW	-	5,59	5,59	-	6,07	6,07	-	6,48	6,48	-	10,35	10,35	-	11,22	11,22	-	11,82	11,8
COP	a-15/-16 - w30/35	(d)	W/W	-	2,58	-	-	2,54	-	-	2,5	-	-	2,39	-	-	2,35	-	-	2,22	-
Heating power (fancoils)	a7/6 - w40/45	(f)	kW	-	6,6	8,14	-	8,5	9,28	-	10,2	10,87	-	12,5	13,14	-	14,5	14,87	-	16,2	18,
COP (fancoils)	a7/6 - w40/45	(f)	W/W	-	4	-	-	3,8	-	-	3,65	-	-	3,7	-	-	3,55	-	-	3,45	-
Heating power (fancoils)	a2/1 - w40/45	(g)	kW	-	6,5	7,03	-	7,5	8,22	-	8,5	9,42	-	12	12	-	13	13,28	-	14,3	14,
COP (fancoils) Heating power (fancoils)	a2/1 - w40/45 a-7/-8 - w40/45	(g) (h)	W/W kW	-	3,15 6,1	6,47	-	3,05	7,43	-	2,95 7,4	- 8,16	-	2,9	11,5	-	2,8	12,5	-	2,7	13
COP (fancoils)	a-7/-8 - w40/45	(h)	W/W	-	2,6	0,47	-	2,5	7,43	-	2,4	- 0,10		2,4	-	-	2,3	- 12,3	-	2,25	ال
Heating power (fancoils)	a-15/-16 - w40/45	(i)	kW		5,45	5,45	-	5,92	5,92	-	6,33	6,33	-	9,62	9,62	-	10,3	10,3	-	10,96	
COP (fancoils)	a-15/-16 - w40/45	(i)	W/W		2,23	-	-	2,2	-	-	2,14	-	-	2,11	-	-	2,07	-	-	1,98	,
Cooling power	a35 - w23/18	(1)	kW	-	6,5	9,27	-	8,3	10,31	-	10	10,31	-	12,2	16,11	-	13,9	17,13	-	15,4	17,
EER	a35 - w23/18	(1)	W/W	-	5,1	-	-	4,85	-	-	4,3	-	-	4,6	-	-	4,4	-	-	4,2	
Cooling power (fancoils)	a35 - w12/7	(m)	kW	-	5,5	6,84	-	7,4	8,66	-	9	9	-	11,6	13,44	-	13,4	15,48	-	14	16
EER (fancoils)	a35 - w12/7	(m)	W/W	-	3,25	-	-	3,15	-	-	2,9	-	-	3,1	-	-	2,93	-	-	2,9	
Energy efficiency class in water heating 35°C	Warmer Climate			I	4+++			A+++			A+++			A+++			A+++			A+++	
SCOP	Warmer Climate				6,78			6,94			7,05			6,63			6,59			6,46	
s (Seasonal efficiency for space heating)	Warmer Climate		η s %	- 2	268,2			274,7			279,1			262,3			260,5			255,4	
Energy efficiency class in water heating 35°C	Average Climate			I	4+++			A+++			A+++			A+++			A+++			A+++	
SCOP	Average Climate				5,12			5,17			5,12			5,08			4,89			4,84	
s (Seasonal efficiency for space heating)	Average Climate		η s %		201,8			204			201,9			200,1			192,5			190,5	
Energy efficiency class in water heating 35°C	Cold Climate			1	4+++			A+++			A+++			A+++			A+++			A+++	
SCOP	Cold Climate				4,41			4,44			4,44			4,3			4,36			4,35	
s (Seasonal efficiency for space heating)	Cold Climate		η s %		173,4			174,6			174,6			168,8			171,3			170,9	
Energy efficiency class in water heating 55°C	Warmer Climate				A++			A++			A++			A++			A++			A++	
SCOP	Warmer Climate				4,35			4,71			4,91			4,55			4,69			4,68	
s (Seasonal efficiency for space heating)	Warmer Climate		η s %		170,9			185,3			193,4			179			184,6			184	
Energy efficiency class in water heating 55°C	Average Climate				A++			A++			A++			A++			A++			A++	
SCOP	Average Climate				3,59			3,67			3,71			3,62			3,62			3,59	
s (Seasonal efficiency for space heating)	Average Climate		η s %		140,7			143,6			145,5			141.6			141,8			140.6	Т
Energy efficiency class in water heating 55°C	Cold Climate				A++			A++			A++			A++			A++			A++	
SCOP	Cold Climate				2,9			3,02			3,14			3,23			3,24			3,18	
s (Seasonal efficiency for space heating)	Cold Climate		η s %		113,1			117,7			122,4			126			126,6			124,3	
Indoor unit sound power	cold chillate		dB(A)		-			-			-			-			-			-	
Indoor unit sound pressure		(n)			-			-			-			-			-			-	
Outdoor unit sound power (nominal)			dB(A)		60			63			65			70			72			72	_
Outdoor unit sound pressure (nominal)		(0)	dB(A)		48			51			53			56			58			58	
System circulator absorption		. ,	W		4-95			4-95			4-95			4-95			4-95			4-95	Т
Supply voltage indoor unit			V/ph/Hz		-			-			-			-			-			-	
Maximum absorbed current of the internal unit with active			A																		
heating elements																					
Internal unit maximum power consumption with active heating elements			kW		-			-			-			-			-			-	
Additional electric heating elements			kW														-				-
Supply voltage outdoor unit			V/ph/Hz	220-	-240/1/	/50	220	-240/1	/50	220)-240/1	/50	220)-240/1	/50	220	-240/1	/50	220)-240/	/50
Outdoor unit maximum absorbed current			A		13			14,5			16			25			26,5			28	
Outdoor unit maximum absorbed power			kW		3,2			3,5			3,8			5,8			6,2			6,6	
Compressor type				TWII	N ROTA	ARY	TWI	N ROT	ARY	TWI	IN ROT	ARY	TWI	N ROT	ARY	TWI	N ROT	ARY	TWI	N ROT	AR
Refrigerant inlet connection diameter			и		-			-			-			-			-			-	
Coolant gas		(p)			R32			R32			R32			R32			R32			R32	Ī
Global warming potential		Ü	GWP		675			675			675			675			675			675	
Refrigerant gas charge			kg		1,25			1,25			1,25			1,8			1,8			1,8	Ī
Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018		(a)			-			-						_			_			_	
check according to IEC 60335-2-40:2018		(q)																			
Hydraulic connections			"	(ST BSP		(G1 BSP			G1 BSP		(5/4 BS	Р	G	5/4 BS	Р	G	5/4 BS	Ρ
			1																		

⁽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./6°C b.u., inlet/outlet water temperature 30°C/35°C (d) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 30°C/35°C (f) Heating mode, external air temperature 2°C b.s./6°C b.u., inlet/outlet water temperature 40°C/45°C (g) Heating mode, external air temperature 2°C b.s./6°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 40°C/45°C (f) Heating mode, external air temperature 4.0°C/45°C b.u., inlet/outlet water temperature 40°C/45°C (f) Heating mode, external air temperature 4.0°C/45°C b.u., inlet/outlet water temperature 40°C/45°C (f) Heating mode, external air temperature 4.0°C/45°C b.u., inlet/outlet water temperature 4.0°C/45°C (f) Heating mode, external air temperature 4.0°C/45°C b.u., inlet/outlet water temperature 4.0°C/45°C (f) Heating mode, external air temperature 4.0°C/45°C b.u., inlet/outlet water temperature 4.0°C/45°C (f) Heating mode, external air temperature 4.0°C/45°C b.u., inlet/outlet water temperature 4.0°C/45°C (f) Heating mode, external air temperature 4.0°C/45°C b.u., inlet/outlet water temperature 4.0°C/45°C (f) Heating mode, external air temperature 4.0°C/45°C b.u., inlet/outlet water t

⁽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/P°C (n) Sound pressure values measured at a distance of 1 m in a semi-anecholic chamber (o) Sound pressure values measured at a distance of 1 m in a semi-anecholic chamber (p) Airtightally sealed equipment containing fluorinated GAS (a) maximum length of the refrigeration pipes beyond which checks on the minimum surface of the installation rooms are necessary, check the technical manual Energy efficiency classes refer to a range between A+++ and D.

TECHNICAL DATA					2T			14T			16T	
Sherpa Monobloc S2 E					309	May	Min	02310	May	Min	02311	Max
Compressor frequency	a7/6 - w30/35	(2)	kW		om 2,2	Max 13,42	Min	Nom 14,1	Max 15,27	Min	Nom 16	Max 18,2:
Heating power COP	a7/6 - w30/35	(a)			2,2 1,9	13,42	-	4,7	13,21	-	4,5	10,2
Heating power	a2/1 - w30/35	(b)	kW		2,3	12,3	-	13	13,56	-	14,5	14,76
COP	a2/1 - w30/35	(b)	W/W		3,6	-	-	3,5	-	-	3,25	-
Heating power	a-7/-8 - w30/35	(c)	kW		1,6	12,1	-	12,5	13,2	-	13,5	14,1
COP	a-7/-8 - w30/35	(c)	W/W	- 2,	,85	-	-	2,8	-	-	2,7	-
Heating power	a-15/-16 - w30/35		kW),35	10,35	-	11,22	11,22	-	11,82	11,8
COP	a-15/-16 - w30/35		W/W		,39	-	-	2,35	-	-	2,22	-
Heating power (fancoils)	a7/6 - w40/45	(f)	kW		2,5	13,14	-	14,5	14,87	-	16,2	18,0
COP (fancoils)	a7/6 - w40/45	(f)	W/W		3,7	-	-	3,55	- 70.00	-	3,45	
Heating power (fancoils) COP (fancoils)	a2/1 - w40/45 a2/1 - w40/45	(g)	kW W/W		12 2,9	12	-	13 2,8	13,28	-	14,3	14,7
Heating power (fancoils)	a-7/-8 - w40/45	(g) (h)	kW		2,9 1,5	11,5	-	12,5	12,5	-	13,5	13,5
COP (fancoils)	a-7/-8 - w40/45	(h)			2,4	-	-	2,3	-	-	2,25	10,0
Heating power (fancoils)	a-15/-16 - w40/45		kW		,62	9,62	-	10,3	10,3	-	10,96	10,9
COP (fancoils)	a-15/-16 - w40/45		W/W		2,11	-	-	2,07	-	-	1,98	-
Cooling power	a35 - w23/18	(1)	kW		2.2	16.11	-	13,9	17,13	-	15,4	17,13
EER	a35 - w23/18	(1)	W/W	- 4	4,6		-	4,4	-	-	4,2	-
Cooling power (fancoils)	a35 - w12/7	(m)			1,6	13,44	-	13,4	15,48	-	14	16,0
EER (fancoils)	a35 - w12/7	(m)	W/W		3,1	-	-	2,93	-	-	2,9	-
Energy efficiency class in water heating 35°C	Warmer Climate				+++			A+++			A+++	
SCOP	Warmer Climate				,64			6,59			6,46	
s (Seasonal efficiency for space heating)	Warmer Climate		η s %		52,5			260,6			255,5	
Energy efficiency class in water heating 35°C	Average Climate				+++			A+++			A+++	
SCOP	Average Climate			5,	,08			4,89			4,84	
s (Seasonal efficiency for space heating)	Average Climate		η s %	20	00,2			192,5			190,5	
Energy efficiency class in water heating 35°C	Cold Climate			A+	+++			A+++			A+++	
SCOP	Cold Climate			4	4,3			4,36			4,35	
s (Seasonal efficiency for space heating)	Cold Climate		ηs %	16	8,8			171,3			170,9	
Energy efficiency class in water heating 55°C	Warmer Climate			A	++			A++			A++	
SCOP	Warmer Climate			4,	,55			4,69			4,68	
s (Seasonal efficiency for space heating)	Warmer Climate		η s %	1	79			184,6			184	
Energy efficiency class in water heating 55°C	Average Climate			A	++			A++			A++	
SCOP	Average Climate			3,	,62			3,62			3,59	
s (Seasonal efficiency for space heating)	Average Climate		η s %	14	41,6			141,8			140,7	
Energy efficiency class in water heating 55°C	Cold Climate			A·	++			A++			A++	
SCOP	Cold Climate			3	,23			3,24			3,18	
s (Seasonal efficiency for space heating)	Cold Climate		ηs %	1	26			126,6			124,3	
Indoor unit sound power			dB(A)		-			-			-	
Indoor unit sound pressure		(n)			-			-			-	
Outdoor unit sound power (nominal)			dB(A)		70			72			72	
Outdoor unit sound pressure (nominal)		(0)	dB(A)	į	57			59			59	
System circulator absorption			W	4-	-95			4-95			4-95	
Supply voltage indoor unit			V/ph/Hz		-			-			-	
Maximum absorbed current of the internal unit with active			A					-			-	
heating elements Internal unit maximum power consumption with active												
heating elements			kW		-			-			-	
Additional electric heating elements			kW		-			-			-	
Supply voltage outdoor unit			V/ph/Hz	380-4	15/3/50)		380-415/3/50)		380-415/3/50	
Outdoor unit maximum absorbed current			A	9	9,5			10,5			11,5	
Outdoor unit maximum absorbed power			kW	5	5,8			6,2			6,6	
Compressor type				TWIN	ROTAR'	Υ		TWIN ROTAR	Y		TWIN ROTAR	Υ
Refrigerant inlet connection diameter			и		-			-			-	
Coolant gas		(p)			32			R32			R32	
Global warming potential			GWP	6	375			675			675	
Refrigerant gas charge			kg	1	1,8			1,8			1,8	
Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018					-			-			-	
Hydraulic connections			и	G5/4	4 BSP			G5/4 BSP			G5/4 BSP	
Capacity of expansion vessel					5			5			5	

ACCESSORIES

B09	1916	Kit 3-way valve for DHW	0
018	804	HE 200 L storage tank	0
018	805	HE 300 L storage tank	0
es 018	806	HES 300 L solar storage tank	0
5 O18	807	Hybride boiler HY 300 L	0
STORAGE TANKS / PUFFER 908 810 820 820 820 820 820 820 820 820 820 82	808	HYS 300 L solar hybrid storage tank	0
<u>₹</u> B06	618	Resistance for boiler 2 kW	0
B06	666	Resistance for boiler 3 kW	0
B06	0617	Resistance flange kit	0
011	199	Thermal accumulation 50 L	0
012	200	Thermal accumulation 100 L	0

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

Accessory description on page 54

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.

Water heater in heat pump



HIGH EFFICIENCY

Sherpa SHW S2 achieves the highest energy class in its category (according to the ErP regulation).



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 260S.



FEATURES

- Available in two versions: standard model with heat pump, electric heating element and 202-litre tank (Sherpa SHW S2 200); model with coil for solar panels or other energy sources, electric heating element and 251-litre tank (Sherpa SHW S2 260S).
- COP>2,6* DHW at 65°C (75°C with electric heating element)
- Energy class: A+ over a range from A+ to F.
- Working range with heat pump and air temperature from -10C° to 43C°.
- Enamelled steel tank.
- Anti-corrosion magnesium anode to ensure tank durability.
- Condenser wound outside the boiler free from deposits and gas-water contamination.
- **Rigid polyurethane** foam (PU) thermal insulation, thickness 50mm.
- External plastic cladding. Soundproof plastic top cover.
- **High-efficiency compressor** with R134a refrigerant**.

- Electric heating element available in the unit as back-up which ensures hot
 water at a constant temperature even in extreme winter or summer conditions.
- **ON-OFF contact** to start the unit via an external switch.
- · Weekly sanitisation cycle.
- Option to manage the domestic hot water recirculation or solar heating integration. Valid only for model 260S
- Electronic expansion valve for a timely check.

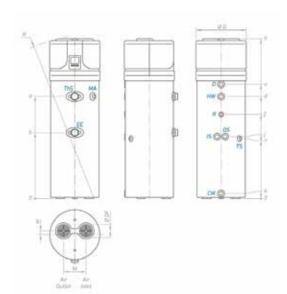
^{**} hermetically sealed equipment containing fluorinated gas with GWP equivalent 1430.



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

OLIMPIA

SPLENDID



		200	260 S
h	mm	1720	2010
a	mm	994	1285
b	mm	724	834
d	mm	995	1285
f	mm	803	1064
i	mm		781
k	mm	60	60
n	mm		766
U	mm	1153	1440
w	mm	58	58
М	mm	260	260
ØDF	mm	160	160
R	mm	1785	2055
ØD	mm	630	630

CW - Cold water inlet G 1" HW - Hot water outlet G 1"

IS - Heat exchanger inlet G 1"

OS - Heat exchanger outlet G 1"

R - Recirculation G 3/4"

TS - Temperature probe G ½"

EE - Opening for electric heating element G 1 ½"

CD - Condensation drain G ¾"

TECHNICAL DATA		SHERPA SHW S2 200	SHERPA SHW S2 260S
		02385	02386
Electrical power supply	V/Ph/Hz	220-240/1Ph+N/50	220-240/1Ph+N/50
Actual tank capacity	L	202	251
Prated nominal heating power (EN 16147: 2017 - A7/W55)	W	1050	1200
Maximum heating power (summer conditions)	W	2305	2305
COPDHW (EN 16147: 2017 - A7/W55)	W/W	2.7	3
COPDHW (EN 16147: 2017 - A14/W55)	W/W	3.1	3.4
Maximum electrical absorption with active electric heating element	W	663+1500	663+1500
Heating time (EN 16147: 2017 - A7/W55)	h:min	08:59	10:15
Heating time in BOOST mode (A7 - W10-55)	h:min	03:47	04:21
Intake air temperature range	°C	-10 ÷ 43	-10 ÷ 43
Refrigerant gas (a)		R134a	R134a
Refrigerant loading	g	880	880
Nominal air flow rate (98 Pa)	m3/h	315	315
Storage tank maximum operating pressure	bar	8	8
Auxiliary electric heating element	W	1500	1500
Solar exchange coil surface	m²	-	1.2
Protection class		IPX4	IPX4
Transportation weight	Kg	105	128
Sound pressure (EN 12102:2013)	dB(A)	53	53
Load Profile (EN 16147: 2017)		L	XL
Energy efficiency class (average climate conditions)		A+	A+
ηWH (average climate conditions - EU Regulation 812/2013)	%	118	124

(a) hermetically sealed equipment containing fluorinated gas with GWP equivalent 1430.

- (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. Energy efficiency classes refer to a range between A+ and F.

^{*}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).

Heat pump accessories



B0931

B0916

Remote control display kit 10 m

Remote control display kit 10 m



Compatible with:

	suspended	tower		suspended	tower
SHERPA AQUADUE	0	0	SHERPA	0	0

Kit 3-way valve for DHW

Compact size and two-point control.



Compatible with:

	suspended	tower		
SHERPA AQUADUE	•	•	SHERPA MONOBLOC	0
SHERPA	0	•		

B0917

Solar thermal probe kit

Additional probe that detects the temperature of the solar thermal pipes, inhibits the heat pump from producing DHW only with solar thermal under certain conditions.



Compatible with:

	suspenaea	tower
SHERPA	0	_

B0623

Outdoor air temperature probe kit

Shielded probe to measure the outdoor air temperature. It is necessary to allow activation of the electric heating element and climatic curves.



Compatible with:

	suspended	tower
SHERPA AQUADUE	•	•
SHERPA	0	0

B0624

Kit DHW storage tank sensor

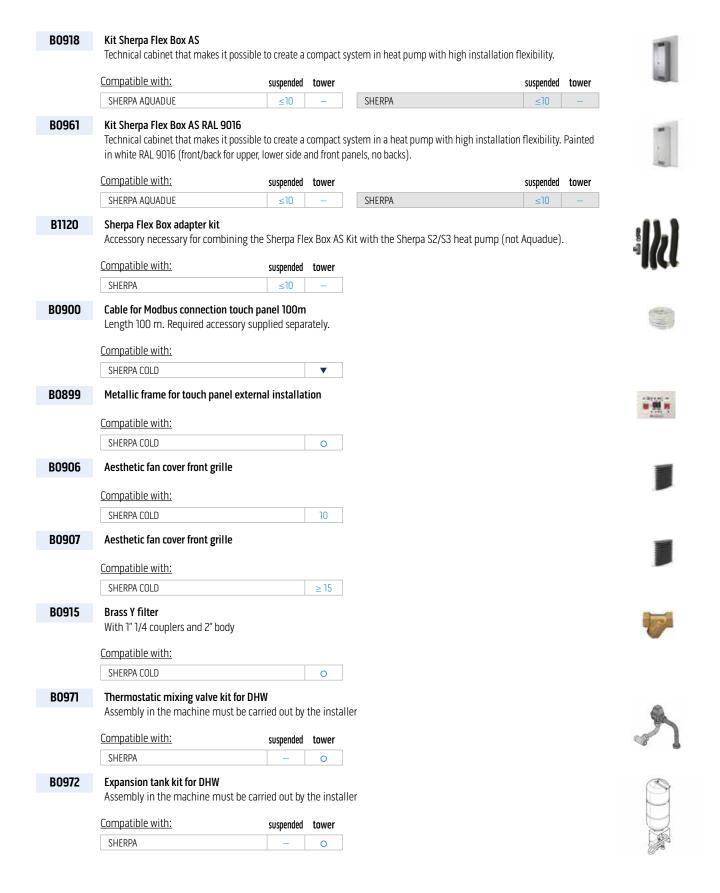
Probe to measure and directly control the water temperature in the domestic hot water storage tank.



Compatible with:

	suspended	tower
SHERPA AQUADUE	•	•
SHERPA	0	•

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



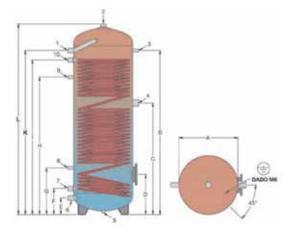
Storage tanks / puffer

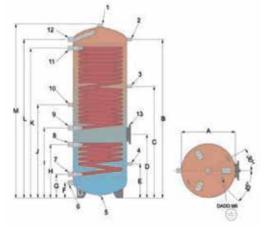
01804 HE 200 L storage tank Compatible with: suspended tower SHERPA AQUADUE SHERPA COLD 0 10 SHERPA SHERPA MONOBLOC 01805 HE 300 L storage tank Compatible with: suspended tower SHERPA AQUADUE SHERPA COLD SHERPA MONOBLOC **SHERPA** 01806 HES 300 L solar storage tank Compatible with: suspended tower SHERPA AQUADUE SHERPA COLD ≤ 15 SHERPA SHERPA MONOBLOC 0

Storage tank with 1 or 2 coils with high exchange surface in carbon steel, complete with anodic protection, internal vitrification treatment according to DIN 4753-3 and UNI 10025 standards. Rigid polyurethane insulation thickness 70 mm. Coating colour Sky Blue RAL 5010.

TECHNICAL DATA		01804	01805	01806
Inhoud boiler HWW Nom.	1	200	300	300
Inhoud boiler HWW Effective	I	190	263	260
Total heigh	mm	1215	1615	1615
Diameter with insulation	mm	640	640	640
Insulation	mm	70	70	70
Energy class		В	В	В
Dispersion total	W	51	63	63
Dispersion temperature probe	W/°K	1,13	1,40	1,40
Coil exchangers N°		1 double coil	1 double coil	1 double coil + 1 solar unit
Coil exchangers Surface Heat pump	m²	3	4	3,7
Coil exchangers Secondary surface	m²	-	-	1,2
Empty weight	kg	90	124	131

Dimensio	ns	01804	01805	01806
A	mm	500	500	500
В	mm	995	1390	1470
С	mm	735	945	1035
D	mm	320	340	590
E	mm	140	140	315
F	mm	220	220	140
G	mm	370	395	220
Н	mm	835	1165	495
I	mm	990	1310	650
J	mm	-	-	865
K	mm	1070	1390	1390
L	mm	1215	1615	1470
М	mm	-	-	1615





Storage tank 1 coil HE 200-300

- 1. Hot water flow 1"
- 2. Anode 1" 1/4
- 3. Thermometer-Probe 1/2"
- 4. Electric heating element attachment 1" 1/2
- 5. Pallet attachment (blind)
- 6. Cold water inlet 1"
- 7. Coil return 1"
- 8. Thermostat 1/2"
- 9. Recirculation 1/2"
- 10. Coil flow 1"

Storage tank 2 coils HES 300

- 1. Anode 1" 1/4
- 2. Thermometer-Probe 1/2"
- 3. Thermostat 1/2"
- 4. Thermostat 1/2"
- 5. Pallet attachment (blind) 1/2"
- 6. Cold water inlet 1"
- 7. Lower coil return 1"
- 8. Lower coil flow 1"
- 9. Upper coil return 1"
- 10. Recirculation 1/2"
- 11. Upper coil flow 1"
- 12. Hot water flow 1"
- 13. Flange with electric heating element attachment 1" 1/2

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.

Optional accessory | — Accessory not compatible

OLIMPIA SPLENDID

01807

Hybride boiler HY 300 L

Compatible with:	
SHERPA AQUADUE	

SHERPA MONOBLOC	0



01808

HYS 300 L solar hybrid storage tank

Compatible with:

SHERPA

	suspenueu	tower
SHERPA AQUADUE	0	_
SHERPA	0	_

SHERPA MONOBLOC O

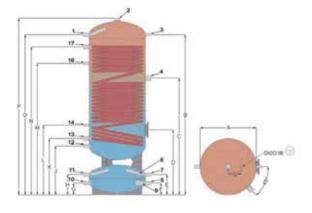


Combined heat storage tanks. Upper storage tank with 1 or 2 coils with high exchange surface in carbon steel, complete with anodic protection, internal vitrification treatment according to DIN 4753-3 and UNI 10025 standards. Lower storage tanks for heated or chilled water, internal untreated. Rigid polyurethane insulation thickness 70 mm. Coating colour Sky Blue RAL 5010.

suspended tower 0

TECHNICAL DATA		01807	01808
Inhoud boiler HWW Nom.	1	300	300
Inhoud boiler HWW Effective	- 1	270	270
Puffer Capacity	I	80	80
Total heigh	mm	1925	1925
Diameter with insulation	mm	690	690
Insulation	mm	70	70
Energy class		В	В
Dispersion total	W	73	73
Dispersion temperature probe	W/°K	1,62	1,62
Coil exchangers N°		1	1 + 1 solar unit
Coil exchangers Surface Heat pump	m²	3,3	2,8
Coil exchangers Secondary surface	m²	-	0,9
Empty weight	kg	150	170

Dimensions		01807	01808
A	mm	550	550
В	mm	1755	1755
С	mm	1300	1420
D	mm	875	1035
E	mm	340	810
F	mm	160	340
G	mm	160	160
Н	mm	340	160
1	mm	-	340
J	mm	675	-
K	mm	765	675
L	mm	940	755
М	mm	1425	945
N	mm	1675	1125
0	mm	1755	1280
P	mm	1925	1675
Q	mm	150	1755
R	mm	-	1925
S	mm	-	150



Storage tank 1 coil HY 300

- 1. Domestic hot water flow 1"
- 2. Anode 1" 1/4
- 3. Thermometer 1/2"
- 4. Electric heating element attachment 1" 1/2
- 6. Probe 1/2"
- 7. Boiler flow 1"
- 8. Boiler return 1"
- 9. Electric resistance 1" 1/2
- 10. Heating system return 1"
- 11. System flow 1"

12. Domestic cold water inlet 1"

- 13. Coil return 1" 1/4
- 14. Probe 1/2"
- 16. Recirculation 1/2"
- 17. Upper coil flow 1"

Storage tank 2 coils HYS 300

- 1. Domestic hot water flow 1"
- 2. Anode 1" 1/4
- 3. Thermometer 1/2"
- 4. Probe 1/2"
- 5. Probe 1/2"
- 6. Probe 1/2"
- 7. Boiler flow 1"
- 8. Boiler return 1"
- 9. Electric resistance 1" 1/2
- 10. Heating system return 1"

- 12. Domestic cold water inlet 1"
- 13. Lower coil return 1"
- 15. Upper coil return 1"
- 16. Recirculation 1/2"
- 11. System flow 1"
- 14. Lower coil flow 1"
- 17. Upper coil flow 1"

01199

Thermal accumulation 50 L

Com	patib	le with:

	suspenaea	towei
SHERPA	0	0
SHERPA AQUADUE	0	0





01200

Thermal accumulation 100 L

Compatible with:	suspended	towe
SHERPA	0	0
SHERPA AQUADUE	0	0

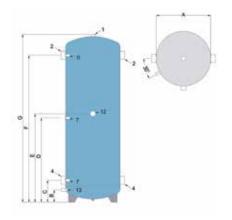
SHERPA COLD	10
SHERPA MONOBLOC	0



Storage for chilled water, internal untreated. Can also be used for heating water. Polyurethane insulation 50 mm. Coating colour Sky Blue RAL 5010.

TECHNICAL DATA		01199	01200
Puffer Capacity	I	57	123
Total heigh	mm	935	1095
Diameter with insulation	mm	400	500
Insulation	mm	50	50
Energy class		В	В
Dispersion total	W	34	50
Dispersion temperature probe	W/°K	0,76	1,11
Empty weight	kg	25	35

Dimensions		01199	01200
A	mm	300	400
В	mm	100	100
С	mm	180	185
D	mm	485	560
E	mm	530	605
F	mm	785	935
G	mm	935	1095



- 1. Vent 1"
- 2. Water connection 1" 1/4
- 4. Water connection 1" 1/4
- 6. Probe 1/2"
- 7. Probe 1/2"
- 12. Electric resistance 1" 1/2
- 13. Drain 1/2"

B0618

Resistance for boiler 2 kW

CHEDDA	Compatible with:	suspended	tower
SHEKPA O -	SHERPA	0	_

SHERPA COLD	0
SHERPA MONOBLOC	0



B0666

Resistance for boiler 3 kW

Compatible with:	suspended	tower
SHERPA	0	_
t.	· ·	

SHERPA COLD	0
SHERPA MONOBLOC	0



Immersion in copper, IP 65, with internal adjustable thermostat and temperature limiter.

TECHNICAL DATA		B0618	B0666
Absorbed power	W	2000	3000
Supply voltage		230	230
Weight		1,5	1,5
Lenght (L)	mm	390	390
Diameter of coupling		1"1/2	1"7/2

Optional accessory | — Accessory not compatible

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.



B0617 Resistance flange kit

Required accessory for correct positioning of the electric heating elements when used for anti-Legionnaires disease cycles.

Compatible with:

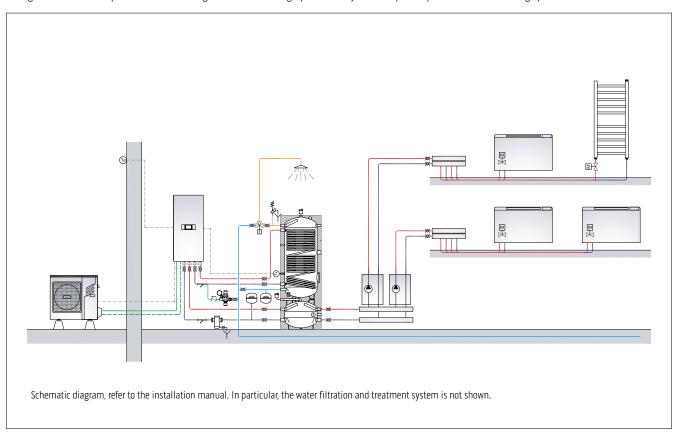
	suspenaea	tower
SHERPA	0	_

SHERPA COLD	0
SHERPA MONOBLOC	0

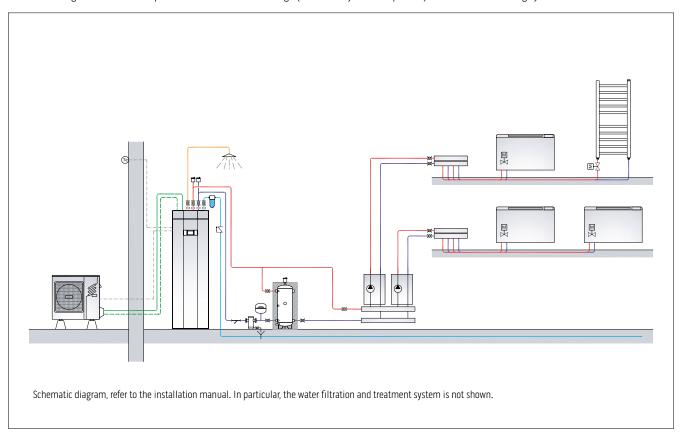
System diagrams

Sherpa Aquadue heat pumps

SHERPA AQUADUE S2/S3 heat pump (heating and air conditioning; production of high temperature DHW); Bi2 SLR radiant fan coil units; example of a two-zone configuration with a simple manifold and integrated inertial storage (used as a hydraulic separator) for the air conditioning system.



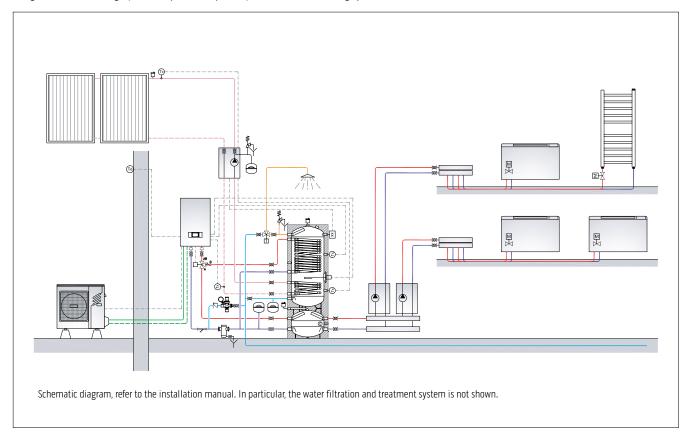
SHERPA AQUADUE TOWER S2/S3 heat pump (heating and air conditioning; production of high temperature DHW); Bi2 SLR radiant fan coil units; example of a two-zone configuration with a simple manifold and inertial storage (used as a hydraulic separator) for the air conditioning system.



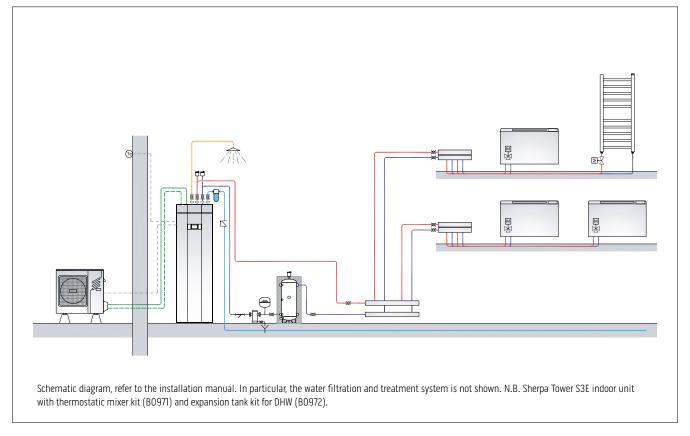


Sherpa heat pumps

SHERPA S2/S3 heat pump (heating and air conditioning; DHW production) Bi2 SLR radiant fan coil units; domestic water integration with solar thermal and integrated inertial storage (used as hydraulic separator) for the air conditioning system.

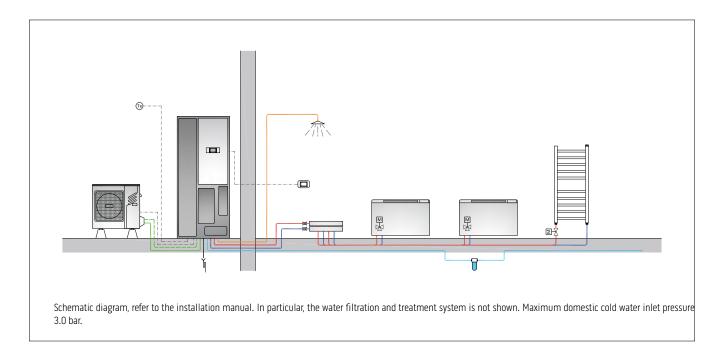


SHERPA TOWER S2/S3 heat pump (heating and air conditioning; DHW production) Bi2 SLR radiant fan coil units with 3-way valves and inertial storage in series on the return pipe of the air conditioning system.



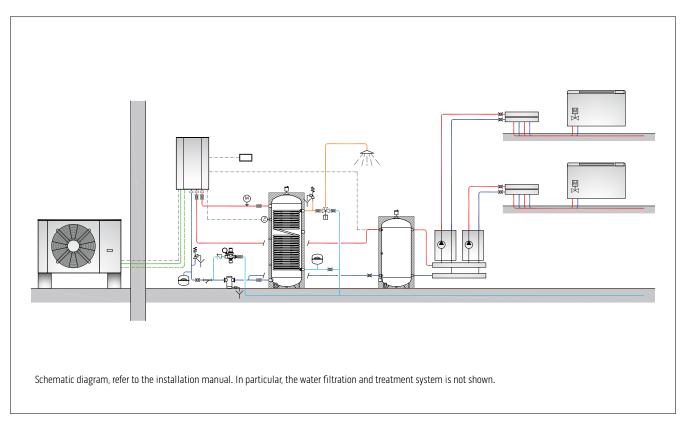
Kit Sherpa Flex Box

SHERPA AQUADUE S3 E heat pump or SHERPA S3 E 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 Cold heat pumps

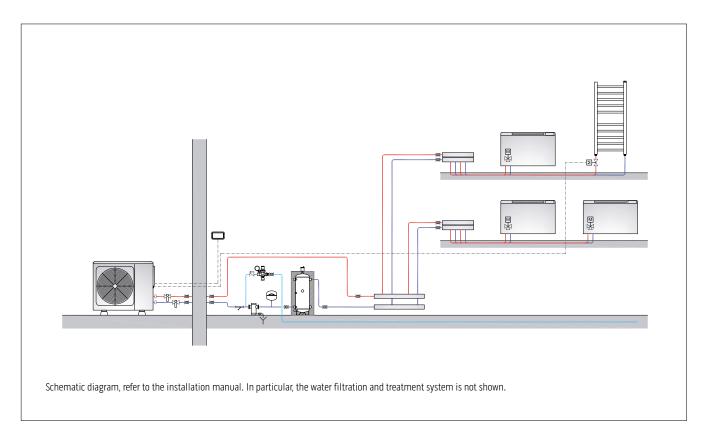
SHERPA COLD heat pump (heating and air conditioning; production of DHW) Bi2 SLR radiant fan coil units with 3-way valves and inertial storage tank (used as hydraulic separator). Storage of technical water with instant DHW production. It is mandatory to provide safety valves and appropriately sized expansion tanks outside the heat pump.





Sherpa Monobloc heat pumps

SHERPA MONOBLOC S2 E heat pump (heating and air conditioning) Bi2 SLR radiant fan coil units with 3-way valves and inertial storage in series on the return pipe of the air conditioning system.



SHERPA MONOBLOC S2 E heat pump (heating and air conditioning; DHW production) Bi2 SLR radiant fan coil units, domestic water integration with solar thermal and integrated inertial storage (used as hydraulic separator) for the air conditioning system.

