

NEW

# SHERPA

Compatible with:



## Traditional split heat pumps, suspended and tower versions



### COMPACT TECHNOLOGY

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



### DOMESTIC HOT WATER UP TO 60°C

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



### LOW GWP GAS

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



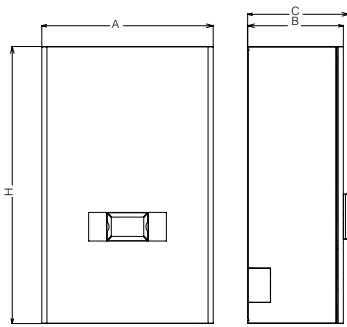
### FEATURES

- **Inverter air-water heat pump**
- **Energy efficiency class** in heating medium climate: A+++ (35°C) and A++ (55°C)
- **Available powers:** 10 powers with R32 refrigerant (4-6-8-10-12-14-16 kW single-phase and 12-14-16 kW three-phase)
- **It provides DHW** with temperatures up to 60° C.
- **DHW management:** Sherpa allows extremely flexible DHW management through two management modes: water probe inserted in the cylinder or thermostat contact of the cylinder (only for wall-mounted version).
- **Climate curves** based on outside air temperature: two curves available, one for cooling and one for heating. The climate curves allow the system temperature to be varied according to external climatic conditions, adapting the heat input to the building's heat requirements, in order to achieve energy savings.
- **Two configurable set points** in cooling, **three configurable set points** in heating (one of which for DHW); set points can also be selected by remote contact.
- **Two-stage electric heaters as standard:** configurable single or dual-stage can be activated to support the heat pump, through the electronic control's verification of the heat pump's real thermal capacity. Each stage is activated according to the real need for thermal power, in order to optimise electrical consumption.
- **Daily holiday and weekly programmer:** heating/raff, DHW, night.
- **Complete management** of anti-legionella cycles.
- **Refrigerant gas R32\***
- **Integrated high-efficiency 200 L kettle** (tower version only).
- **Components included** (tower version only): system filling tap, 3-way valve.
- **Optional kit** (only for tower version): thermostatic mixer and DHW expansion tank
- **Operating limits:** down to -25°C, +43°C (see technical manuals for details).

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

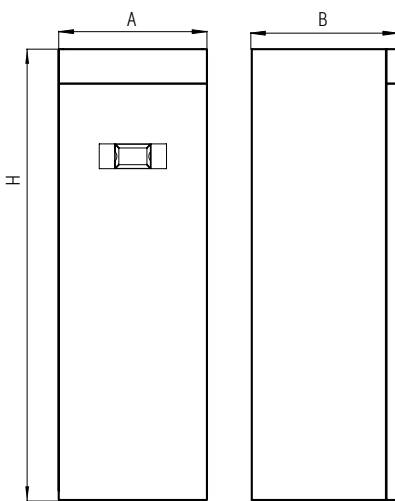


## DIMENSIONS AND WEIGHT



### Suspended indoor units

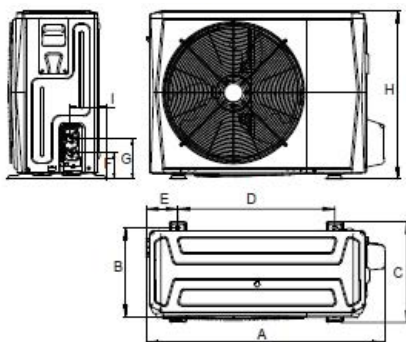
		4	6	8	10	12	14	16	12T	14T	16T
		SMALL					BIG				
A	mm	500	500	500	500	500	500	500	500	500	500
B	mm	280	280	280	280	280	280	280	280	280	280
C	mm	296	296	296	296	296	296	296	296	296	296
H	mm	810	810	810	810	810	810	810	810	810	810
Net weight	kg	36	36	36	36	38	38	38	38	38	38



### Tower indoor units

		4	6	8	10	12	14	16	12T	14T	16T
		SMALL					BIG				
A	mm	600	600	600	600	600	600	600	600	600	600
B	mm	600	600	600	600	600	600	600	600	600	600
H	mm	1980	1980	1980	1980	1980	1980	1980	1980	1980	1980
Net weight	kg	183	183	183	183	185	185	185	185	185	185

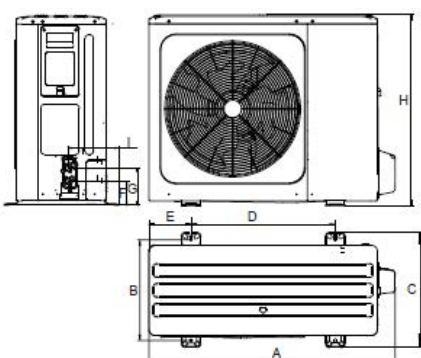
Sizes 4/6



### Outdoor units

		4	6	8	10	12	14	16	12T	14T	16T
A	mm	1008	1008	1118	1118	1118	1118	1118	1118	1118	1118
B	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
H	mm	712	712	865	865	865	865	865	865	865	865
I	mm	160	160	230	230	230	230	230	230	230	230
Net weight	kg	58	58	77	77	96	96	96	112	112	112

Sizes 8/10/12/14/16/12T/14T/16T



# PRELIMINARY TECHNICAL DATA

				4		6		8		10						
DDU Sherpa S3				02284		02285		02286		02287						
DU Sherpa S3				02294		02294		02294		02294						
DU Sherpa Tower S3				02300		02300		02300		02300						
Compressor frequency				Min	Nom	Max	Min	Nom	Max	Min	Nom	Max				
Punctual performance	Heating power	a7/6 - w30/35	(a)	kW	2,42	4,25	5,66	3,53	6,20	8,26	4,73	8,30	11,05	5,70	10,00	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	-	4,05	-	-	3,95	-	-	4,10	-	-	4,05	-
	Heating power	a-7/8 - w30/35	(c)	kW	2,74	4,80	6,39	3,48	6,10	8,12	4,05	7,10	9,46	4,70	8,25	10,99
	COP	a-7/8 - w30/35	(c)	W/W	-	3,15	-	-	3,05	-	-	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	(d)	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)	a7/6 - w40/45	(f)	W/W	-	3,80	-	-	3,75	-	-	3,95	-	-	3,80	-
	Heating power (fancoils)	a2/1 - w40/45	(g)	kW	2,91	5,10	6,79	3,31	5,80	7,72	4,22	7,40	9,86	4,47	7,85	10,45
	COP (fancoils)	a2/1 - w40/45	(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)	a-15/-16 - w40/45	(i)	W/W	-	2,02	-	-	1,98	-	-	2,32	-	-	2,34	-
	Cooling power	a35 - w23/18	(l)	kW	2,41	4,5	5,52	3,51	6,55	8,03	4,50	8,4	10,30	5,36	10,00	12,27
	EER	a35 - w23/18	(l)	W/W	-	5,55	-	-	4,9	-	-	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	-
	Efficiencies	Energy efficiency class in water heating 35°C				A+++		A+++		A+++		A+++		A+++		
		SCOP	Warmer Climate			6,46		6,57		6,99		7,09		7,09		
		ηs (Seasonal efficiency for space heating)			%	255,4%		259,8%		276,6%		280,5%		280,5%		
		Energy efficiency class in water heating 35°C				A+++		A+++		A+++		A+++		A+++		
		SCOP	Average Climate			4,85		4,95		5,22		5,20		5,20		
ηs (Seasonal efficiency for space heating)				%	191,0%		195,0%		205,6%		204,8%		204,8%			
Energy efficiency class in water heating 35°C					A++		A++		A++		A++		A++			
SCOP		Cold Climate			4,06		4,21		4,33		4,32		4,32			
ηs (Seasonal efficiency for space heating)				%	159,5%		165,3%		170,0%		169,8%		169,8%			
Energy efficiency class in water heating 55°C					A+++		A+++		A+++		A+++		A+++			
SCOP		Warmer Climate			4,15		4,21		4,51		4,62		4,62			
ηs (Seasonal efficiency for space heating)				%	163,1%		165,4%		177,2%		181,7%		181,7%			
Energy efficiency class in water heating 55°C					A++		A++		A++		A++		A++			
SCOP		Average Climate			3,31		3,52		3,37		3,47		3,47			
ηs (Seasonal efficiency for space heating)				%	129,5%		137,9%		131,6%		135,7%		135,7%			
Energy efficiency class in water heating 55°C				A+		A+		A+		A+		A+				
SCOP	Cold Climate			2,63		2,85		2,88		2,99		2,99				
ηs (Seasonal efficiency for space heating)			%	102,1%		111,1%		112,1%		116,5%		116,5%				
Noise level	Indoor unit sound power		(n)	dB (A)	46		46		46		46		46			
	Indoor unit sound pressure		(n)	dB (A)	38		38		38		38		38			
	Outdoor unit sound power (nominal)		(o)	dB (A)	56		58		59		60		60			
	Outdoor unit sound pressure (nominal)		(o)	dB (A)	36		38		39		40		40			
Electrical data	System circulator absorption			W	3 - 87		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		220-240/1/50		220-240/1/50			
	Maximum current absorbed indoor unit with additional active heating elements			A	18,00		18,00		18,0		18,0		18,0			
	Maximum power absorbed indoor unit with additional active heating elements			kW	4,05		4,05		4,05		4,05		4,05			
	Additional electric heating elements			kW	1,5+1,5		1,5+1,5		1,5+1,5		1,5+1,5		1,5+1,5			
	Supply voltage outdoor unit				V/ph/Hz	220-240/1/50		220-240/1/50		220-240/1/50		220-240/1/50		220-240/1/50		
	Outdoor unit maximum absorbed current			A	10		11		14		16		16			
Outdoor unit maximum absorbed power			kW	2,2		2,6		3,3		3,6		3,6				
Cooling circuit	Compressor type				Twin Rotary DC Inverter		Twin Rotary DC Inverter		Twin Rotary DC Inverter		Twin Rotary DC Inverter		Twin Rotary DC Inverter			
	Refrigerant inlet connection diameter			"	1/4"-5/8"		1/4"-5/8"		3/8"-5/8"		3/8"-5/8"		3/8"-5/8"			
	Coolant gas		(p)		R32		R32		R32		R32		R32			
	Global warming potential			GWP	675		675		675		675		675			
	Refrigerant gas charge			kg	1,5		1,5		1,65		1,65		1,65			
	Additional charge above 15m			g/m	20		20		38		38		38			
Refrigerant piping length limit		min - max			2 - 30		2 - 30		2 - 30		2 - 30		2 - 30			
		max	(q)		30		30		20		20		20			
					Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018											
Hydraulic data	Hydraulic connections			"	1"		1"		1"		1"		1"			
	System expansion valve capacity			l	8		8		8		8		8			
	Load profile according to EN16147				XL		XL		XL		XL		XL			
	DHW production energy efficiency class	Average Climate			A+		A+		A+		A+		A+			
	ηhw (seasonal production efficiency DHW)	Average Climate		%	125%		125%		123%		123%		123%			
	Boiler volume			l	200		200		200		200		200			
	Boiler interior surface material				DD12 glazed steel S235JR		DD12 glazed steel S235JR		DD12 glazed steel S235JR		DD12 glazed steel S235JR		DD12 glazed steel S235JR			
	Heat exchanger in the boiler			m <sup>2</sup>	2,4		2,4		2,4		2,4		2,4			
	Type and thickness of boiler insulation				Hard expanded polyurethane 55 mm		Hard expanded polyurethane 55 mm		Hard expanded polyurethane 55 mm		Hard expanded polyurethane 55 mm		Hard expanded polyurethane 55 mm			
	Specific dispersion			W/K	2		2		2		2		2			
DHW expansion tank capacity			l	7		7		7		7		7				
DHW hydraulic connections			"	3/4"		3/4"		3/4"		3/4"		3/4"				

ONLY FOR SHERPA TOWER S3

(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./-16°C b.u., inlet/outlet water temperature 30°C/35°C  
(e) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 40°C/45°C  
(f) 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 -7°C b.s./-8°C b.u., inlet/outlet water temperature 40°C/45°C  
(h) Heating mode, external air temperature -15°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

(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  
(o) Sound pressure values measured at a distance of 4 m in free field distance  
(p) Non-airtightly 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

# PRELIMINARY TECHNICAL DATA

					12			14			16			
DDU Sherpa S3					02288			02289			02290			
DU Sherpa S3					02295			02295			02295			
DU Sherpa Tower S3					02301			02301			02301			
Compressor frequency					Min	Nom	Max	Min	Nom	Max	Min	Nom	Max	
Punctual performance	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	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	-	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	
	COP	a-15/-16 - w30/35	(d)	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)	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)	a2/1 - w40/45	(g)	W/W	-	3,00	-	-	2,86	-	-	2,85	-	
	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	(i)	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	(i)	W/W	-	2,32	-	-	2,29	-	-	2,03	-	
	Cooling power	a35 - w23/18	(l)	kW	5,60	12,0	14,29	6,31	13,5	16,08	6,96	14,9	17,75	
	EER	a35 - w23/18	(l)	W/W	-	4,0	-	-	3,61	-	-	3,4	-	
	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	-	
Efficiencies	Energy efficiency class in water heating 35°C				A+++			A+++			A+++			
	SCOP	Warmer Climate			6,48			6,58			6,47			
	ηs (Efficienza stagionale per il riscaldamento di ambienti)			%	256,1%			260,3%			255,6%			
	Energy efficiency class in water heating 35°C				A+++			A+++			A+++			
	SCOP	Average Climate			4,81			4,72			4,62			
	ηs (Seasonal efficiency for space heating)			%	189,4%			185,7%			181,7%			
	Energy efficiency class in water heating 35°C				A+			A++			A++			
	SCOP	Cold Climate			4,08			4,07			4,02			
	ηs (Seasonal efficiency for space heating)			%	160,2%			159,6%			157,8%			
	Energy efficiency class in water heating 55°C				A+++			A+++			A+++			
	SCOP	Warmer Climate			4,43			4,49			4,48			
	ηs (Seasonal efficiency for space heating)			%	174,1%			176,5%			176,1%			
	Energy efficiency class in water heating 55°C				A++			A++			A++			
	SCOP	Average Climate			3,45			3,47			3,41			
	ηs (Seasonal efficiency for space heating)			%	135,1%			135,6%			133,3%			
	Energy efficiency class in water heating 55°C				A+			A+			A+			
	SCOP	Cold Climate			3,02			3,05			3,12			
	ηs (Seasonal efficiency for space heating)			%	117,8%			118,9%			121,8%			
	Noise level	Indoor unit sound power			dB (A)	48			48			48		
		Indoor unit sound pressure	(n)		dB (A)	40			40			40		
Outdoor unit sound power (nominal)				dB (A)	64			65			68			
Outdoor unit sound pressure (nominal)		(o)		dB (A)	44			45			48			
Electrical data	System circulator absorption			W	8 - 140			8 - 140			8 - 140			
	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 active heating elements		A		31,0			31,0			31,0			
	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		220-240/1/50			220-240/1/50			220-240/1/50			
	Outdoor unit maximum absorbed current		A		23			25			25			
Outdoor unit maximum absorbed power		kW		5,4			5,7			5,7				
Cooling circuit	Compressor type				Twin Rotary DC Inverter			Twin Rotary DC Inverter			Twin Rotary DC Inverter			
	Refrigerant inlet connection diameter		"		3/8"-5/8"			3/8"-5/8"			3/8"-5/8"			
	Refrigerant 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		g/m		38			38			38			
	Refrigerant piping length limit	min - max			2 - 30			2 - 30			2 - 30			
Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018	max	(q)		15			15			15				
Hydraulic data	Hydraulic connections		"		1"			1"			1"			
	System expansion valve capacity		l		8			8			8			
	Load profile according to EN16147				XL			XL			XL			
	DHW production energy efficiency class	Average Climate			A			A			A			
	ηHW (seasonal production efficiency DHW)	Average Climate	%		95%			95%			95%			
	Boiler volume		l		200			200			200			
	Boiler interior surface material				DD12 glazed steel S235JR			DD12 glazed steel S235JR			DD12 glazed steel S235JR			
	Heat exchanger in the boiler		m <sup>2</sup>		2,4			2,4			2,4			
	Type and thickness of boiler insulation				Hard expanded polyurethane 55 mm			Hard expanded polyurethane 55 mm			Hard expanded polyurethane 55 mm			
	Specific dispersion		W/K		2			2			2			
DHW expansion tank capacity		l		7			7			7				
DHW hydraulic connections		"		3/4"			3/4"			3/4"				

ONLY FOR SHERPA TOWER S3

(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./-16°C b.u., inlet/outlet water temperature 30°C/35°C  
 (e) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 40°C/45°C  
 (f) 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 -7°C b.s./-8°C b.u., inlet/outlet water temperature 40°C/45°C  
 (h) Heating mode, external air temperature -15°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

(j) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 23°C/18°C  
 (m) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 12°C/7°C  
 (n) Sound pressure values measured at a distance of 1 m in a semi-anechoic chamber  
 (o) Sound pressure values measured at a distance of 4 m in free field distance  
 (p) Non-airtightly 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

# PRELIMINARY TECHNICAL DATA

					12T			14T			16T			
DDU Sherpa S3					02291			02292			02293			
DU Sherpa S3					02295			02295			02295			
DU Sherpa Tower S3					02301			02301			02301			
Compressor frequency					Min	Nom	Max	Min	Nom	Max	Min	Nom	Max	
Punctual performance	Heating output	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 output	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 output	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	-	3,00	-	-	2,80	-	-	2,70	-	
	Heating output	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	
	COP	a-15/-16 - w30/35	(d)	W/W	-	2,88	-	-	2,85	-	-	2,66	-	
	Heating output(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 output (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	(g)	W/W	-	3,00	-	-	2,86	-	-	2,85	-	
	Heating output(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 output(fancoils)	a-15/-16 - w40/45	(i)	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	(i)	W/W	-	2,32	-	-	2,29	-	-	2,03	-	
	Cooling power	a35 - w23/18	(l)	kW	5,60	12,0	14,29	6,31	13,5	16,08	6,96	14,9	17,75	
	EER	a35 - w23/18	(l)	W/W	-	4,0	-	-	3,61	-	-	3,4	-	
	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	-	
	Efficiencies	Energy efficiency class in water heating 35°C				A+++			A+++			A+++		
		SCOP	Warmer Climate			6,47			6,57			6,28		
		$\eta_s$ (Seasonal efficiency for space heating)			%	255,6%			259,8%			248,1%		
		Energy efficiency class in water heating 35°C				A+++			A+++			A+++		
		SCOP	Average Climate			4,81			4,72			4,62		
		$\eta_s$ (Seasonal efficiency for space heating)			%	189,3%			185,6%			181,6%		
		Energy efficiency class in water heating 35°C				A++			A++			A++		
		SCOP	Cold Climate			4,08			4,07			4,02		
$\eta_s$ (Seasonal efficiency for space heating)				%	160,2%			159,6%			157,8%			
Energy efficiency class in water heating 55°C					A+++			A+++			A+++			
SCOP		Warmer Climate			4,42			4,49			4,47			
$\eta_s$ (Seasonal efficiency for space heating)				%	173,8%			176,4%			175,9%			
Energy efficiency class in water heating 55°C					A++			A++			A++			
SCOP		Average Climate			3,45			3,47			3,41			
$\eta_s$ (Seasonal efficiency for space heating)				%	135,1%			135,6%			133,2%			
Energy efficiency class in water heating 55°C					A+			A+			A+			
SCOP		Cold Climate			3,02			3,05			3,12			
$\eta_s$ (Seasonal efficiency for space heating)				%	117,7%			118,9%			121,8%			
Noise level		Indoor unit sound power			dB (A)	48			48			48		
		Indoor unit sound pressure	(n)		dB (A)	40			40			40		
		Outdoor unit sound power (nominal)			dB (A)	64			65			68		
		Outdoor unit sound pressure (nominal)	(o)		dB (A)	44			45			48		
Electrical data		System circulator absorption			W	8 - 140			8 - 140			8 - 140		
		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 active heating elements		A		31,0			31,0			31,0			
	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		380-415/3/50			380-415/3/50			380-415/3/50			
	Outdoor unit maximum absorbed current		A		8			8			8			
Cooling circuit	Outdoor unit maximum absorbed power		kW		5,4			5,7			5,7			
	Compressor type				Twin Rotary DC Inverter			Twin Rotary DC Inverter			Twin Rotary DC Inverter			
	Refrigerant inlet connection diameter		"		3/8"-5/8"			3/8"-5/8"			3/8"-5/8"			
	Refrigerant 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		g/m		38			38			38			
	Refrigerant piping length limit		min - max		2 - 30			2 - 30			2 - 30			
	Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018	(q)	max		15			15			15			
	Hydraulic data	Hydraulic connections		"		1"			1"			1"		
System expansion valve capacity			l		8			8			8			
Integrated DHW boiler	Load profile according to EN16147				XL			XL			XL			
	DHW production energy efficiency class	Average Climate			A			A			A			
	$\eta_{HW}$ (seasonal production efficiency DHW)	Average Climate	%		95%			95%			95%			
	Boiler volume		l		200			200			200			
	Boiler interior surface material				DD12 glazed steel S235JR			DD12 glazed steel S235JR			DD12 glazed steel S235JR			
	Heat exchanger in the boiler		m <sup>2</sup>		2,4			2,4			2,4			
	Type and thickness of boiler insulation				Hard expanded polyurethane 55 mm			Hard expanded polyurethane 55 mm			Hard expanded polyurethane 55 mm			
	Specific dispersion		W/K		2			2			2			
	DHW expansion tank capacity		l		7			7			7			
	DHW hydraulic connections		"		3/4"			3/4"			3/4"			

ONLY FOR SHERPA TOWER S3

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ACCESSORIES

suspended tower

			suspended	tower
KIT DR.	B0971	DHW thermostatic mixing valve kit (internal installation by installer)	–	○
	B0972	Expansion tank kit for DHW (internal installation by installer)	–	○
CONTROLS	B0916	Kit 3-way valve for DHW	○	●
	B0917	Solar thermal probe kit	○	–
	B0623	Outdoor air temperature probe kit	○	○
	B0624	Kit DHW storage tank sensor	○	●
	B0931	Remote control display kit 10 m	○	○
STORAGE TANKS / PUFFER	01804	HE 200 L storage tank	○	–
	01805	HE 300 L storage tank	○	–
	01806	HES 300 L solar storage tank	○	–
	01807	Hybride boiler HY 300 L	○	–
	01808	HYS 300 L solar hybrid storage tank	○	–
	B0618	Resistance for boiler 2 kW	○	–
	B0666	Resistance for boiler 3 kW	○	–
	B0617	Resistance flange kit	○	–
	01199	Thermal accumulation 50 L	○	○
	01200	Thermal accumulation 100 L	○	○

○ Optional accessory | ● Standard accessory | – Not compatible accessory