SPHERA EVO 2.0 Invisible Hybrid

SQKN-YEE 1 IC + MiSAN-YEE 1 S + CCGIX 2.1÷5.1

Uncased air-to-water hybrid split heat pump for heating, cooling and domestic hot water production





























Integrated DHW tank

MANAGEMENT AND CONNECTIVITY



(optional)

























- √ Space-saving: completely outdoor installation with uncased wallmounted unit only 36 cm deep
- ✓ It adapts to every need: solar kit / inertial storage kit / additional storage tank / configurable booster kits
- Components and uncased cabinet with telescopic frame can be supplied separately
- √ 24 kW boiler fuelled by methane or LPG, with coaxial or split smoke discharge
- Advanced connectivity: management via the dedicated MSmartLife App or via the Modbus port with ELFOControl³ EVO included as standard

Using the space well

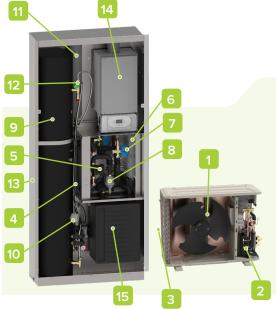
SPHERA EVO 2.0 Invisible Hybrid is the ideal choice for all homes that do not have a technical room and which need to make the unit invisible by embedding it in the wall.

The cabinet has an adjustable telescopic frame and can be painted to make the unit disappear completely.







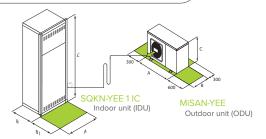


- Inverter DC fan
- 2. Inverter DC twin-rotary compressor
- 3. Air-gas finned exchanger (blue fin treatment)
- 4. Gas/water plate exchanger
- 5. Inverter DC high efficiency pump
- 6. 8L system expansion tank
- 7. 3-way valve
- 8. Magnetic dirt separator filter

- 9. 150L DHW tank with coil
- 10. 2kW DHW safety heater
- 11. 8L DHW expansion tank
- 12. Anti-scalding valve
- 13. Cabinet with adjustable telescopic frame
- 14. Boiler
- **15.** Kit for managing 2 areas (optional)



dimensions and connections



For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

(*) Water and gas connections

Size				2.1	3.1	4.1	5.1	
	Indoor unit	Length(A) x Height(C) x Depth(B)	mm	950x2.250x360				
Dimensions	Outdoor unit	Length(A) x Height(C) x Depth(B)	mm	1.008x712x426 1.118x865x523			65x523	
	Boiler	Length(A) x Height(C) x Depth(B)	mm	410x642x307 (23.2)				
Weight	Indoor unit		kg	325				
	Outdoor unit		kg	58 67		57		
	Boiler		kg	35 (23.2)				
Max / min equivalent length L m			m	30/2				
Max difference in level ODU / IDU	difference in level ODU / IDU H m			25				
Refrigerant precharge ¹			type/GWP	R-32 / 675				
			kg / m	1,50 / 15 1,65 / 15			5 / 15	
			CO ₂ tons	1,05 1,11		,11		
dditional refrigerant charge g/m			g/m	20)	38		
External diameters	Retriderant bibe —	Liquid	inch	1/4" 3/		/8"		
		Gas	inch	5/8"				
	La de como 20	Water (system)	inch	1"				
	Indoor unit	Water (DHW)	inch		3/4"			

⁽¹⁾ Check in the manual if the indoor unit requires a minimum installation surface

accessories

accessori	es					
	ADIX	Recessed storage unit with jigs for fittings		ADI50X	Recessed storage unit for external inertial accumulation	
	ACS150X	150-litre domestic hot water storage tank		CCGIX	Integration condensing boiler	
	ADIAX	Recessed storage unit for additional DHW accumulation	KSDFX	KSDFX	Splitter for boiler smoke discharge	
	ACSA150X	Additional 150-litre domestic hot water storage	KAS80X		Smoke intake and discharge	
	ACSA50X	Additional 50-litre domestic hot water storage		KAS80X	fittings, 80 mm diameter	
	SHWT	150L domestic hot water storage tank with solar coil		KTCGPLX	Kit to convert boiler from methane to LPG	
	KCVEX	Circulation kit: circulation group, control unit, expansion tank		DTX	Auxiliary condensate collection tray	
	KPRSX	DHW recirculation pump kit		APAVX	Kit of antivibration mounts for floor installation	
1 2	KCSX	Secondary circuit kit (1-litre circuit breaker + pump)		ASTFX	Kit of antivibration mounts for wall bracket installation	
	KIRE2HLX	2 zones: high temperature + low		KSIPX	Kit with wall fixing brackets	
	KIRE2HX	temperature (mixed) 2 zones: both at high temperature	• 205 = • •	HID-TCBX	Black soft touch chronothermostat, with temperature control and management via App / Voice control	
	AC50X	50-litre inertial storage tank for indoor installation	· · · · · · · · · · · · · · · · · · ·	HID-TCNX	White soft touch chronothermostat, with temperature control and management via App / Voice control	
	ACE50X	50-litre inertial storage tank for outdoor installation	@ 6.00 @ 7	SWCX	SwitchConnect radio receiver	



configurations

PUMP:

Standard pump

1PUM Single pump with larger available head

Size					2.1	3.1	4.1	5.1	
	Capacity	Water 35/30°C - Outdoor air 7°C	Nominal / Maximum	kW	4,32 / 6,26	6,18 /7,41	8,30 / 9,11	10,09 / 10,3	
Heating	COP	water 35/30 C - Outdoor dir / C	Nominal	-	5,42	5,21	5,31	5,01	
	Capacity	Water 35/30°C - Outdoor air -7°C	Nominal / Maximum	kW	4,17 / 6,25	6,05 / 6,97	7,33 / 8,35	8,20 / 9,30	
	COP	water 35/30 C - Outdoor dir -7 C	Nominal	-	3,16	3,00	3,23	3,07	
	Capacity	Water 45/40°C - Outdoor air 7°C	Nominal / Maximum	kW	4,16 / 5,96	6,03 / 7,13	8,22 / 8,98	10,01/10,30	
	COP	Water 43/40 C - Outdoor dir 7 C	Nominal	-	3,93	3,83	3,95	3,86	
Cooling	Capacity	Water 18/23°C - Outdoor air 35°C	Nominal / Maximum	kW	4,55 / 6,88	6,44 / 7,65	810 / 11,13	10,00 / 12,03	
	EER	Water 16/23 C - Outdoor dir 33 C	Nominal	-	6,08	5,24	5,12	4,77	
	Capacity	Water 7/12°C - Outdoor air 35°C	Nominal / Maximum	kW	4,26 / 6,14	6,25 / 6,39	7,46 / 7,94	8,67 / 9,10	
	EER	Water 7/12 C - Outdoor dir 55 C	Nominal	-	3,50	3,09	3,33	3,09	
Boiler 23.2	Nominal heatig capacity (LHV)	Water 80/60°C	Nominal	kW	22,94				
Performance Water		Water 80/00 C	Nominal	%	97.6				
Electrical power for meter sizing				kW	2,20	2,60	3,30	3,60	
Energy class		Energy class		-	A++	A++	A++	A++	
	Heating	Annual energy consumption		kWh/year	2.542	3.283	3.824	4.749	
	55°C	SCOP		-	3,32	3,54	3,72	3,73	
		ηs (seasonal output)		%	130	138	146	146	
Seasonal efficiency		Energy class		-	A+++	A+++	A+++	A+++	
Medium climate	Heating 35°C	Annual energy consumption		kWh/year	2.542	3.283	3.824	4.749	
		SCOP		-	5,13	5,15	5,32	5,27	
		ηs (seasonal output)		%	202	203	210	208	
	DHW	Energy class			A+	A+	A+	A+	
		DHW profile		_	L	L	L	L	
Indoor unit		· ·			Α	Α	Α	Α	
Power supply	Voltage/Frequency/Phas	ses		V/Hz/n°	230/50/1				
Water flow-rate	, ,		Nominal	I/s	0,21	0,30	0,41	0,49	
Pump available pressure		Nominal	kPa	31,2	36,5	33,1	31,0		
Expansion tank capa	acity						8		
Minimum system wa	nter content					4	0		
Sound power			dB(A)	41					
Sound pressure @1m			dB(A)	26					
Boiler									
Power supply	Voltage/Frequency/Phas	ses		V/Hz/n°		230	/50/1		
Power input	voitage/11equency/11lases			W	38				
Sound power				dB(A)	52				
Outdoor unit				<u> </u>	2.1	3.1	4.1	5.1	
Power supply Voltage/Frequency/Phases				V/Hz/n°	2.1	230/50/1			
Sound power	, , , , , , , , , , , , , , , , , , , ,			dB(A)	55	58	58	60	
Sound pressure @1m			dB(A)	42	44	45	47		
•				ub(A)	42	44	45	- 4/	
Operating range		Heat pump	Minimum / Maximum	°C		25	/65		
Water supply temperature	Heating	Boiler			25 / 65 12 / 70				
	Cooling	DUILEI	Minimum / Maximum	°C	12 / 70				
-	Cooling	- Haatawaa	Minimum / Maximum	°C	5/25				
Operating range (Outdoor air)	Heating	Heat pump	Minimum / Maximum	°C	-25 / 43				
	Boiler		Minimum / Maximum	°C		-25 / 35			
	Cooling -		Minimum / Maximum	°C	-5 / 43				
	DHW	Heat pump	Minimum / Maximum	°C	-25 / 43				
		Boiler	Minimum / Maximum	°C	-25 / 43				

Data according to EN 14511:2018 and EN 14825:2016

 $The \ Product \ complies \ with \ the \ European \ ErP \ Directive \ (EU \ Regulations \ 811/2013 - 813/2013 - 2016/2281). \ Energy \ classes \ with \ ELFOC ontrol 3 \ EVO \ system \ control 4 \ EVO \ system \ system \ control 4 \ EVO \ system \ control 4 \ EVO$



