

SPHERA EVO 2.0 Invisible Hybrid

PREVIEW 2021

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

ENERGY SAVING



Solar integration
(optional)



Smart Grid
ready

COMFORT



Heating
Cooling



DHW



Silent



High temperature

RELIABILITY



Eurovent



Keymark

HEALTH



Eco-friendly
refrigerant

CONVENIENCE



Weekly schedule



Integrated
DHW tank

MANAGEMENT AND CONNECTIVITY



Potential-free
contact



Modbus
port



Wi-fi
Control



ELFOControl
management



Clivet Eye
monitoring



HEAT PUMPS



- ✓ Space-saving: completely outdoor installation with uncased wall-mounted 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

dimensions and connections

Size				2.1	3.1	4.1	5.1
Dimensions	Indoor unit	Length x Height x Depth	mm	950x2.250x360			
	Outdoor unit	Length x Height x Depth	mm	1.008x712x426			1.118x865x523
	Boiler	Length x Height x Depth	mm	410x642x307 (24.4) / 410x642x330 (34.4)			
Weight	Indoor unit		kg	325			
	Outdoor unit		kg	58			67
	Boiler		kg	35 (24.4) / 44 (34.4)			
Max / min equivalent length		Minimum / Maximum	m	2 / 30			
Max difference in level ODU / IDU		Maximum	m	25			
Refrigerant precharge ¹			type/GWP	R-32 / 675			
			kg / m	1,50 / 15			1,65 / 15
			CO ₂ tons	1,05			1,11
Additional refrigerant charge			g/m	20			38
	Refrigerant pipe	Liquid	mm / inch	1/4"			3/8"
		Gas	mm / inch			5/8"	
External diameters	Indoor unit	Water (system)	mm / inch			1"	
		Water (DHW)	mm / inch			3/4"	
		Gas	mm / inch			3/4"	
	Boiler	Intake air	mm / inch			100	
		Exhaust gas	mm / inch			60	

PRELIMINARY DATA

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

technical data

Size				2.1	3.1	4.1	5.1	
Heating	Capacity	Water 35/30°C - Outdoor air 7°C	Nominal / Maximum	kW	4,25	6,20	8,30	10,00
	COP		Nominal	-	5,20	5,00	5,20	5,00
	Capacity	Water 45/40°C - Outdoor air 7°C	Nominal / Maximum	kW	4,35	6,35	8,20	10,00
	COP		Nominal	-	3,80	3,75	3,95	3,80
Cooling	Capacity	Water 18/23°C - Outdoor air 35°C	Nominal / Maximum	kW	4,50	6,55	8,40	10,00
	EER		Nominal	-	5,55	4,90	5,05	4,80
	Capacity	Water 7/12°C - Outdoor air 35°C	Nominal / Maximum	kW	4,70	7,00	7,40	8,20
	EER		Nominal	-	3,45	3,00	3,38	3,30
Boiler 23.4	Nominal heat capacity (LHV)	Water 80/60°C	Nominal	kW	22,7			
	Performance		Nominal	%	96,6			
	DWH power	Water with $\Delta T=30^{\circ}\text{C}$ in 10 minutes	Minimum / Maximum	kW	2,90 / 23,50			
	DWH specific flow rate		-	l/min	11,5			
Boiler 34.4	Nominal heat capacity (LHV)	Water 80/60°C	Nominal	kW	33,35			
	Performance		Nominal	%	98,08			
	DWH power	Water with $\Delta T=30^{\circ}\text{C}$ in 10 minutes	Minimum / Maximum	kW	4,10 / 34,00			
	DWH specific flow rate		-	l/min	16			
Seasonal efficiency Medium climate	Heating 55°C	Energy class	-	A++	A++	A++	A++	
		Annual energy consumption	kWh/year	2.742	3.343	4.054	4.567	
		SCOP	-	3,31	3,52	3,36	3,49	
	Heating 35°C	η_s (seasonal output)	%	129	137	131	135	
		Energy class	-	A+++	A+++	A+++	A+++	
		Annual energy consumption	kWh/year	2.351	2.845	3.218	3.644	
	DHW	SCOP	-	4,85	4,95	5,21	5,19	
		η_s (seasonal output)	%	191	195	205	204	
		Energy class	-	A+	A+	A+	A+	
		DHW profile	-	L	L	L	L	
Indoor unit				2.1	3.1	4.1	5.1	
Power supply	Voltage/Frequency/Phases		V/Hz/n°	230/50/1				
Expansion tank capacity			l	8				
Sound power			dB(A)	43				
Sound pressure @1m			dB(A)	29				
Boiler								
Power supply	Voltage/Frequency/Phases		V/Hz/n°	230/50/1				
Power input			W	38				
Sound power			dB(A)	52				
Outdoor unit				2.1	3.1	4.1	5.1	
Power supply	Voltage/Frequency/Phases		V/Hz/n°	230/50/1				
Sound power			dB(A)	56	58	59	60	
Sound pressure @1m			dB(A)	44	45	46	49	
Operating range								
Water supply temperature	Heating	Heat pump	Minimum / Maximum	°C	12 / 65			
		Boiler	Minimum / Maximum	°C	12 / 70			
	Cooling	-	Minimum / Maximum	°C	5 / 25			
Operating range (Outdoor air)	Heating	Heat pump	Minimum / Maximum	°C	-25 / 35			
		Boiler	Minimum	°C	-25 / 35			
	Cooling	-	Minimum / Maximum	°C	-5 / 46			
		Heat pump	Minimum / Maximum	°C	-25 / 43			
	DHW	Heat pump	Minimum / Maximum	°C	-25 / 43			
		Boiler	Minimum	°C	-25 / 43			

PRELIMINARY DATA

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 ELFOControl³ EVO system control