

Edge EVO 2.0 - EXC

WiSAN-YME 1 S 2.1÷14.1

Air-to-water packaged unit heat pump
for heating, cooling and domestic hot water production

ENERGY SAVING



Solar integration (optional -
DHW tank)



Cascade



Smart Grid ready



€-Switch

COMFORT



Heating Cooling



DHW



Silent

RELIABILITY



Backup heater
(optional)



Keymark
041

HEALTH



Renewable energy (Full
electric version)

CONVENIENCE



Weekley Timer



Simultaneity (Hybrid
version)



Instant DHW (Hybrid
version)

MANAGEMENT AND CONNECTIVITY



Input ON/OFF



User interface/
thermostat



Modbus port



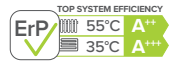
Control via the App



ELFOControl
management



Clivet Eye
monitoring



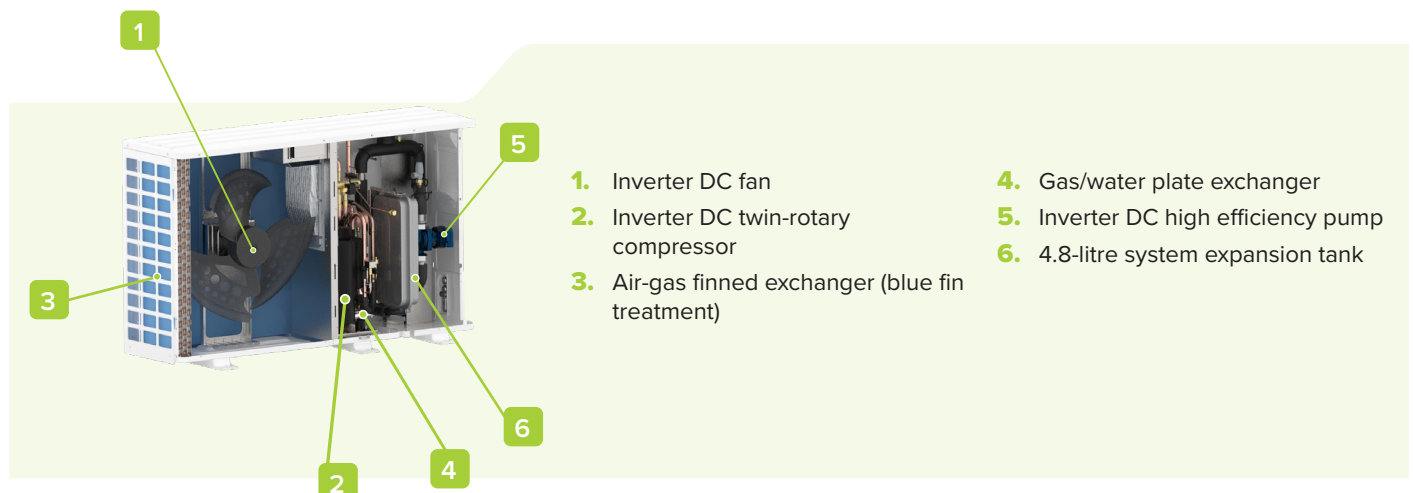
HEAT PUMPS



- ✓ Space saving: installed outdoors, no indoor unit is required
- ✓ Designed for harsh climates: excellent performance at low temperatures and optional 3 to 9 kW auxiliary heaters
- ✓ Simultaneous production of DHW and cooling/heating (*Hybrid version*)
- ✓ Modular: combines up to 6 units in cascade for capacities up to 180 kW
- ✓ Advanced connectivity: management via the dedicated MSmartHome App or via the Modbus port with CONTROL4 NRG included as standard

Senza pensieri

Edge EVO 2.0 - EXC Hybrid version is the solution designed for upgrading old generators without having to alter the system. The system is in fact extremely versatile and able to adapt to whatever already exists: it simply replaces the generator that produces Heating and Domestic Hot Water, improving comfort and efficiency, as well as ensuring peace of mind.


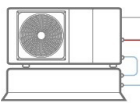











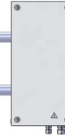

























configurations

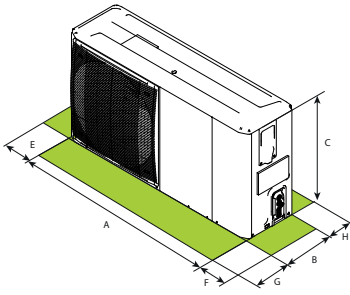
BACK-UP ELECTRIC HEATER (INTEGRATED IN THE UNIT):

- **No heater (standard)**
- IBH Back-up electric heater

accessories

	KTFLX	Hose kit for connecting the unit to the system		TANKX	System inertial storage tank
	FDMX	Magnetic dirt separator filter for water distribution systems		KTCAX	Piping kit for the connection to the buffer tank
	VAGX	Safety antifreeze valve for system		PCSX	Secondary circuit pump
	ACS200X	200 liter DHW tank		PCS2X	Oversized secondary circuit pump
	ACS300X	300 liter DHW tank		PRSX	DHW recirculation pump
	ACS500X	500 liter DHW tank		VDACSX	Thermostat-controlled switching valve for domestic hot water
	ACS1000X	1000 liter DHW tank		IBHX	Single-phase back-up electric heater (2/4/6kW)
	ACS10SX	1.000 liter DHW tank with solar coil		IBHTX	Three-phase back-up electric heater (3/6/9kW)
	SCS08X	Solar coil for ACS200X/ACS300X DHW tank		DTX	Auxiliary condensate collection tray
	SCS12X	1.2 m ² solar exchanger for flange installation (for ACS500X)		AMRX	Kit of antivibration mounts for floor installation
	QERAX	Electrical panel for single-phase heater connection on DHW storage tank		AMMSX	Kit of antivibration anti-seismic mounts for floor installation
	QERATX	Electrical panel for three-phase heater connection on DHW storage tank		ASTFX	Kit of antivibration mounts for wall bracket installation
	3DHWX	Three-way valve for domestic hot water		KSIPX	Kit with wall fixing brackets
	KCSX	Secondary circuit kit (1-litre circuit breaker + pump)		HIDTCBX <i>to exhaustion</i>	Black HID-TConnect chronothermostat for temperature control
	KIRE2HLX	Double zone distribution unit: direct + mixed (with mixing valve)		HIDTCNX <i>to exhaustion</i>	White HID-TConnect chronothermostat for temperature control
	KIRE2HX	Double zone distribution unit: direct + direct		HTC2WX	White HID-TConnect ² NEW chronothermostat for temperature control
	DIX	1 liter hydraulic separator		SWCX	Receiver / IoT switch SwitchConnect
	DI50-2X	50 liter hydraulic separator			
	DI100X	100-litre circuit breaker			
	T1BX	DHW temperature probe and additional heating source at 10 m			
	T1B30X	DHW temperature probe and additional heating source at 30 m			

dimensions and connections



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

H = 300 mm

F = 500 mm (2.1÷8.1) / 600 mm (9.1÷14.1)

E = 500 mm (2.1÷8.1) / 300 mm (9.1÷14.1)

G = 1000 mm (2.1÷3.1) / 1500 mm (5.1÷8.1) / 3000 mm (9.1÷14.1)

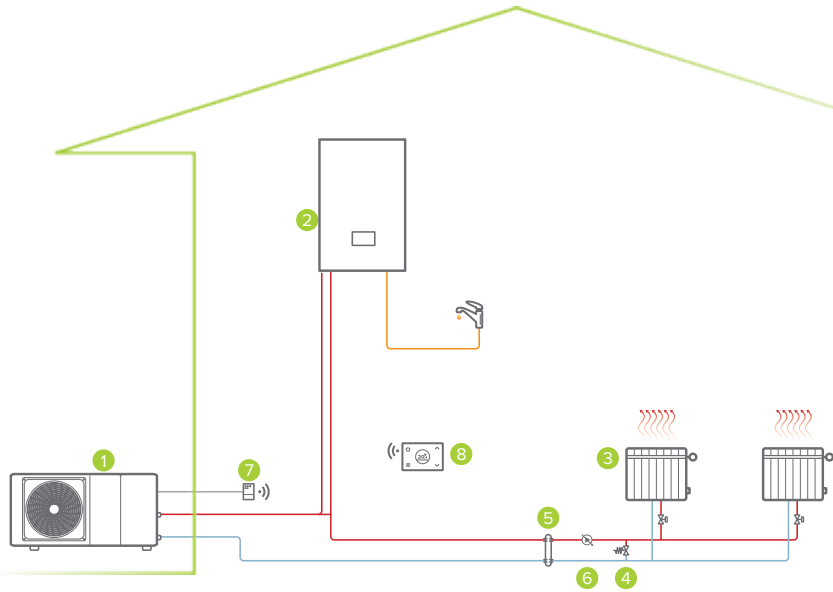
Size			2.1	3.1	4.1	5.1	6.1	7.1	8.1
Dimensions	AxCxB	mm	1.295x717x426					1.385x864x523	
Weight		kg	86		105			129	
Refrigerant charge		type / GWP	R-32 / 675						
		kg			1,40			1,75	
		CO ₂ tons			0,95			1,18	
External diameters	Water	inch	1"					1" 1/4	

Size			6.1T	7.1T	8.1T	9.1	10.1	12.1	14.1
Dimensions	AxCxB	mm	1.385x864x523					1.120x1.557x528	
Weight		kg	144					177	
Refrigerant charge		type / GWP	R-32 / 675						
		kg			1,75			5,00	
		CO ₂ tons			1,18			3,38	
External diameters	Water	inch			1" 1/4				

technical data

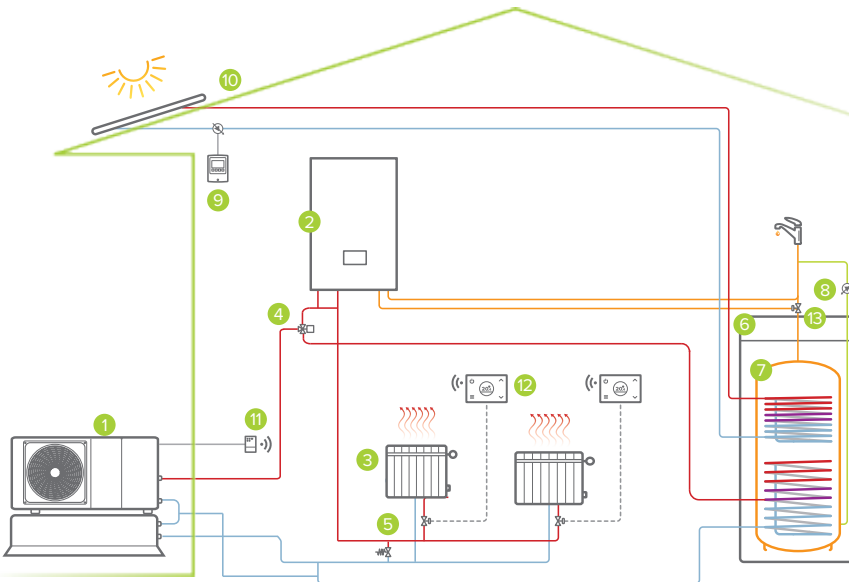
Size				2.1	3.1	4.1	5.1	6.1	7.1	8.1		
Heating	Capacity	Water 35/30°C	Nominal / Maximum	kW	4,20 / 6,26	6,35 / 7,41	8,40 / 9,11	10,0 / 10,3	12,1 / 14,6	14,5 / 15,5	15,9 / 16,8	
	COP	Outdoor air 7°C	Nominal	-	5,10	4,95	5,15	4,95	4,95	4,60	4,50	
	Capacity	Water 35/30°C	Nominal / Maximum	kW	4,70 / 4,99	6,00 / 6,21	7,00 / 7,27	8,00 / 8,31	10,0 / 11,0	12,0 / 12,7	13,1 / 13,9	
	COP	Outdoor air -7°C	Nominal	-	3,10	3,00	3,20	3,05	3,00	2,85	2,70	
	Capacity	Water 45/40°	Nominal / Maximum	kW	4,30 / 5,96	6,30 / 7,13	8,10 / 8,98	10,0 / 10,3	12,3 / 14,5	14,1 / 15,7	16,0 / 16,6	
	COP	Outdoor air 7°C	Nominal	-	3,80	3,70	3,85	3,75	3,70	3,60	3,50	
Cooling	Capacity	Water 18/23°C	Nominal / Maximum	kW	4,50 / 7,65	6,50 / 7,65	8,30 / 11,1	9,90 / 12,0	12,0 / 15,0	13,5 / 15,3	14,2 / 16,4	
	EER	Outdoor air 35°C	Nominal	-	5,50	4,80	5,05	4,55	3,95	3,61	3,61	
	Capacity	Water 7/12°C	Nominal / Maximum	kW	4,70 / 6,14	7,00 / 7,11	7,45 / 7,94	8,20 / 8,67	11,5 / 11,5	12,4 / 12,4	14,0 / 14,0	
	EER	Outdoor air 35°C	Nominal	-	3,45	3,00	3,35	3,25	2,75	2,50	2,50	
	Electrical power for meter sizing				kW	2,30	2,70	3,40	3,70	5,50	5,80	6,20
			Energy class		-	A++	A++	A++	A++	A++	A++	A++
Seasonal efficiency Medium Climate	Heating Water 55°C	Annual energy consumption		kWh/year	2.749	3.348	4.064	4.541	6.916	6.917	7.213	
		SCOP		-	3,31	3,52	3,37	3,47	3,45	3,47	3,41	
		ηs (seasonal output)		%	129	138	131	137	135	135	133	
	Heating Water 35°C	Annual energy consumption		kWh/year	2.354	2.849	3.223	3.649	5.156	5.157	6.011	
		SCOP		-	4,85	4,95	5,22	5,20	4,81	4,72	4,62	
		ηs (seasonal output)		%	191	195	205	205	189	186	182	
Technical specifications												
Power supply	Voltage/Frequency/Phases			V/Hz/n°	230/50/1							
Water flow-rate	Water 35/30°C	Nominal		l/s	0,20	0,30	0,40	0,48	0,58	0,69	0,76	
Pump available pressure	Outdoor air 7°C	Nominal		kPa	85	85	86	86	88	87	87	
Minimum system water content				l	30							
Expansion tank capacity				l	4,8							
Sound power			Minimum / Nominal	dB(A)	53 / 55	55 / 58	54 / 59	55 / 60	59 / 65	59 / 65	59 / 68	
Sound pressure @1m			Minimum / Nominal	dB(A)	39 / 41	41 / 44	40 / 45	40 / 46	44 / 50	44 / 50	44 / 53	
Operating range												
Water supply temperature	Heating / DHW	Full electric	Minimum / Maximum	°C	25 / 65							
		Hybrid	Minimum / Maximum	°C	25 / 75							
	Cooling	-	Minimum / Maximum	°C	5 / 25							
Operating range (outdoor air)	Heating / DHW	-	Minimum / Maximum	°C	-25 / 43							
	Cooling	-	Minimum / Maximum	°C	-5 / 43							

Size				6.1T	7.1T	8.1T	9.1	10.1	12.1	14.1		
Heating	Capacity	Water 35/30°C	Nominal / Maximum	kW	12,1 / 14,6	14,5 / 15,5	15,9 / 16,8	18,0 / 20,7	22,0 / 24,9	26,0 / 29,1	30,1 / 31,8	
	COP	Outdoor air 7°C	Nominal	-	4,95	4,60	4,50	4,70	4,40	4,08	3,91	
	Capacity	Water 35/30°C	Nominal / Maximum	kW	10,0 / 11,0	12,0 / 12,7	13,1 / 13,9	18,0 / 19,9	21,0 / 21,3	22,0 / 23,5	23,0 / 23,3	
	COP	Outdoor air -7°C	Nominal	-	3,00	2,85	2,70	2,70	2,60	2,50	2,45	
	Capacity	Water 45/40°	Nominal / Maximum	kW	12,3 / 14,5	14,1 / 15,7	16,0 / 16,6	18,0 / 18,5	22,0 / 22,7	26,0 / 27,4	30,0 / 31,0	
	COP	Outdoor air 7°C	Nominal	-	3,70	3,60	3,50	3,50	3,40	3,10	2,90	
Cooling	Capacity	Water 18/23°C	Nominal / Maximum	kW	12,0 / 15,0	13,5 / 15,3	14,2 / 16,4	18,5 / 21,7	23,0 / 26,6	27,0 / 29,2	31,0 / 31,9	
	EER	Outdoor air 35°C	Nominal	-	3,95	3,61	3,61	4,75	4,60	4,30	4,00	
	Capacity	Water 7/12°C	Nominal / Maximum	kW	11,5 / 11,5	12,4 / 12,4	14,0 / 14,0	17,0 / 17,1	21,0 / 21,0	26,0 / 26,0	29,5 / 29,7	
	EER	Outdoor air 35°C	Nominal	-	2,75	2,50	2,50	3,05	2,95	2,70	2,55	
	Electrical power for meter sizing				kW	5,50	5,80	6,20	10,6	12,5	13,8	14,5
			Energy class		-	A++	A++	A++	A+	A++	A+	A+
Seasonal efficiency Medium Climate	Heating Water 55°C	Annual energy consumption		kWh/year	7.214	7.894	7.895	11.396	14.363	17.116	19.552	
		SCOP		-	3,45	3,47	3,41	3,20	3,23	3,15	3,15	
		ηs (seasonal output)		%	135	135	133	125	126	123	123	
	Heating Water 35°C	Annual energy consumption		kWh/year	6.012	6.803	6.805	8.077	10.167	11.513	14.372	
		SCOP		-	4,81	4,72	4,62	4,60	4,53	4,50	4,20	
		ηs (seasonal output)		%	189	186	182	181	179	177	165	
Technical specifications												
Power supply	Voltage/Frequency/Phases			V/Hz/n°	400/50/3+N							
Water flow-rate	Water 35/30°C	Nominal		l/s	0,58	0,69	0,76	0,86	1,05	1,25	1,44	
Pump available pressure	Outdoor air 7°C	Nominal		kPa	88	87	87	112	111	111	110	
Minimum system water content				l	70							
Expansion tank capacity				l	4,8							
Sound power			Minimum / Nominal	dB(A)	59 / 65	59 / 65	59 / 68	63 / 70	62 / 72	70 / 74	73 / 77	
Sound pressure @1m			Minimum / Nominal	dB(A)	44 / 50	44 / 50	44 / 53	48 / 55	46 / 56	54 / 58	57 / 61	
Operating range												
Water supply temperature	Heating / DHW	Full electric	Minimum / Maximum	°C	25 / 65							
		Hybrid	Minimum / Maximum	°C	25 / 75							
	Cooling	-	Minimum / Maximum	°C	5 / 25							
Operating range (outdoor air)	Heating / DHW	-	Minimum / Maximum	°C	-25 / 43							
	Cooling	-	Minimum / Maximum	°C	-5 / 46							



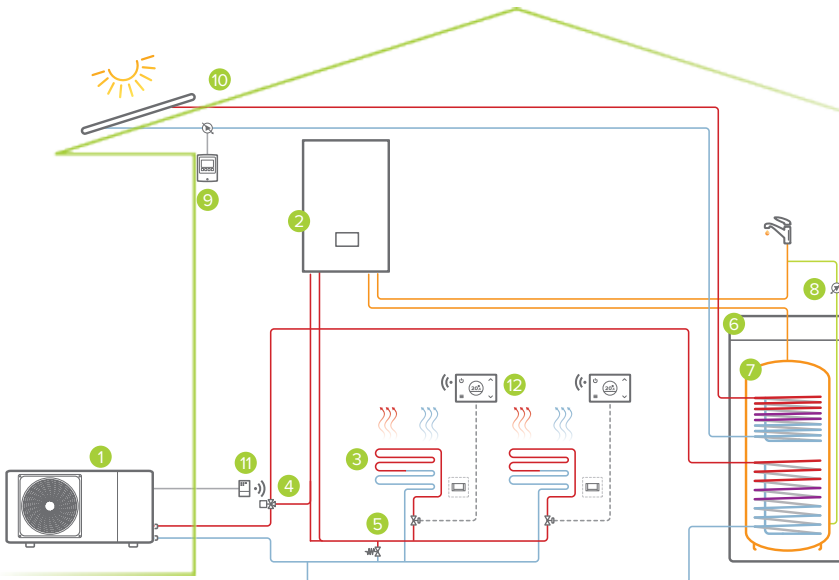
**Hybrid single-zone system:
Heating / DHW**

- 1 outdoor unit
- 2 instantaneous boiler (*Hybrid version*)
- 3 heating area
- 4 bypass*
- 5 hydraulic separator (optional)
- 6 secondary circuit pump (optional)
- 7 SwitchConnect Wi-Fi receiver (optional)
- 8 SwitchConnect Wi-Fi chronothermostat (optional)



**Hybrid single-zone system with
thermodynamic solar system:
Heating / DHW**

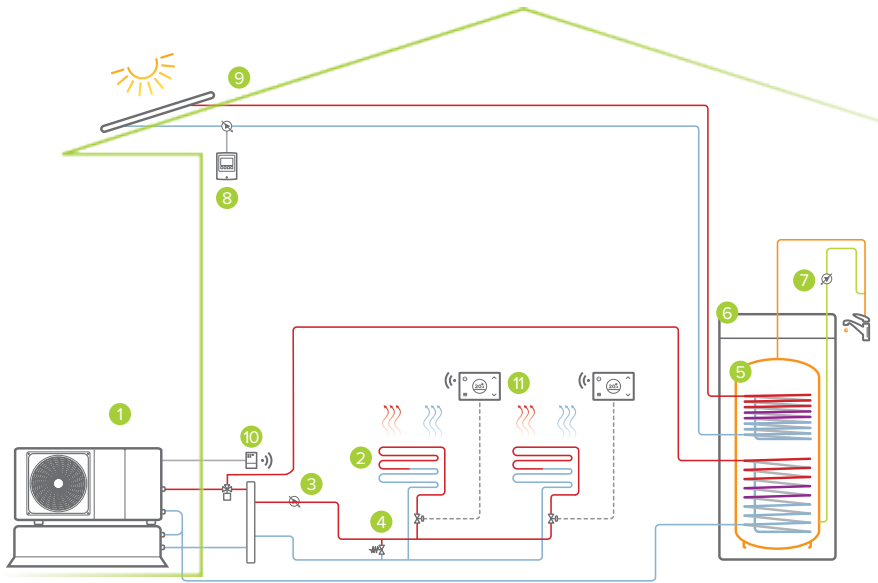
- 1 outdoor unit
- 2 instantaneous boiler (*Hybrid version*)
- 3 heating/cooling zone
- 4 3-way switching valve (optional)
- 5 bypass*
- 6 boiler connection kit (optional)
- 7 DHW boiler with solar coil (optional)
- 8 DHW recirculation pump (optional)
- 9 solar circulation kit (optional)
- 10 ELFOSun solar thermal (optional)
- 11 SwitchConnect Wi-Fi receiver (optional)
- 12 SwitchConnect Wi-Fi chronothermostat (optional)
- 13 thermostatic switching valve for DHW (optional)



**Hybrid single-zone system with
thermodynamic solar system:
Heating / Cooling / DHW**

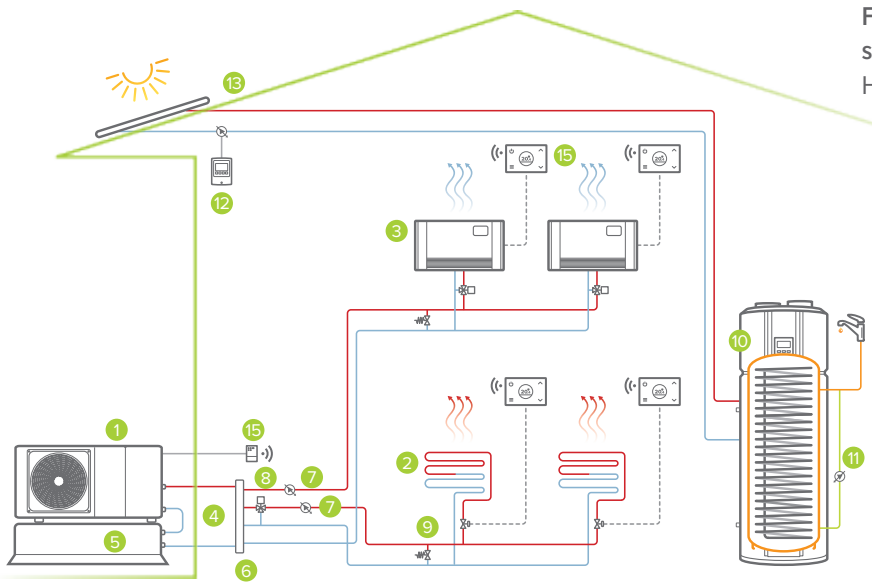
- 1 outdoor unit
- 2 boiler
- 3 heating/cooling zone
- 4 3-way switching valve (optional)
- 5 bypass*
- 6 boiler kit connection QERAX (optional)
- 7 DHW tank with solar predisposition (optional)
- 8 DHW recirculation pump*
- 9 solar circulation kit (optional)
- 10 ELFOSun solar thermal (optional)
- 11 SwitchConnect Wi-Fi receiver (optional)
- 12 SwitchConnect Wi-Fi chronothermostat (optional)

*from external supply



Full electric single-zone system with thermodynamic solar system:
Heating / Cooling / DHW

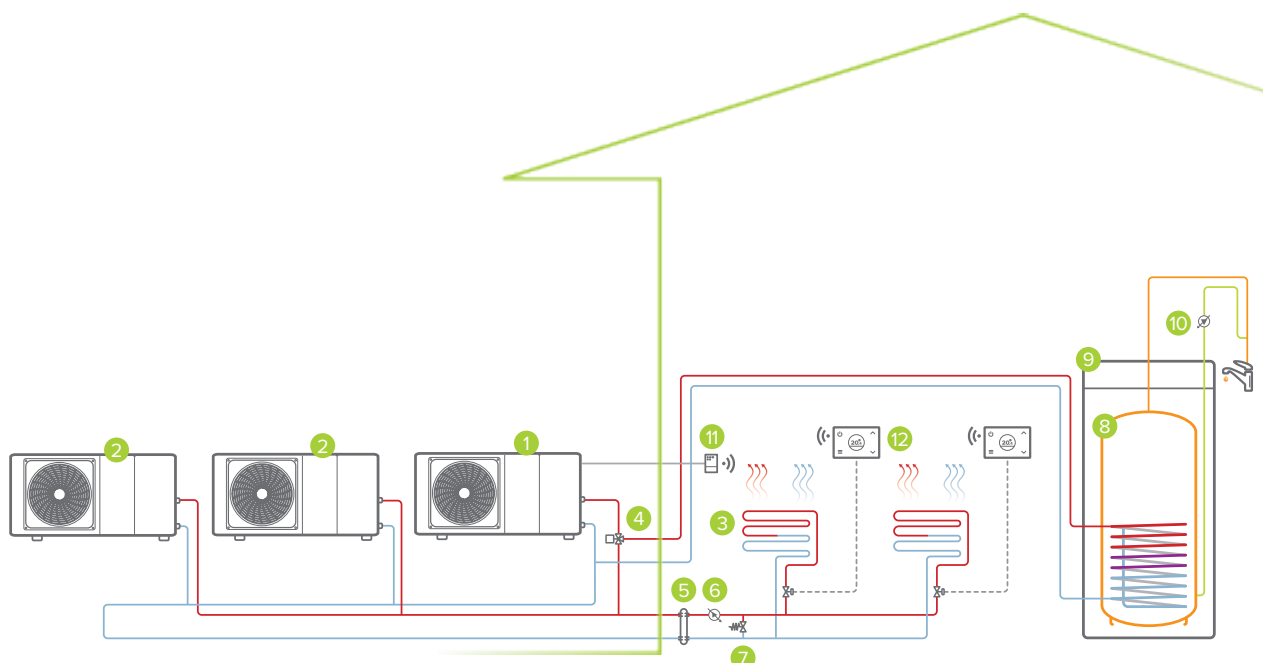
- 1 outdoor unit
- 2 heating/cooling zone
- 3 3-way switching valve (optional)
- 4 bypass*
- 5 DHW boiler with solar coil (optional)
- 6 boiler connection kit (optional)
- 7 DHW recirculation pump (optional)
- 8 solar circulation kit (optional)
- 9 ELFOSun solar thermal (optional)
- 10 SwitchConnect Wi-Fi receiver (optional)
- 11 SwitchConnect Wi-Fi chronothermostat (optional)



Full electric two-zone system with thermodynamic solar system:
Heating / Cooling / DHW

- 1 outdoor unit
- 2 heating area
- 3 cooling zone
- 4 inertial tank connection kit (optional)
- 5 system inertial storage (optional)
- 6 hydraulic separator (optional)
- 7 secondary circuit pump (optional)
- 8 3-way mixing valve*
- 9 bypass*
- 10 heat pump for DHW
- 11 DHW recirculation pump (optional)
- 12 solar circulation kit (optional)
- 13 ELFOSun solar thermal (optional)
- 14 SwitchConnect Wi-Fi receiver (optional)
- 15 SwitchConnect Wi-Fi chronothermostat (optional)

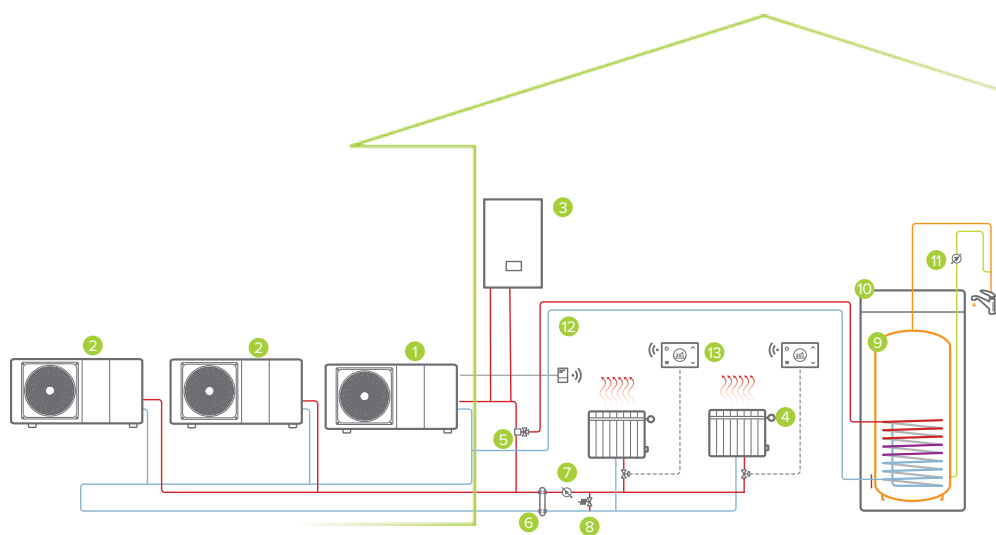
*from external supply



Full electric single-zone system in cascade:

Heating / Cooling / DHW

- 1 outdoor unit (Master)
 - 2 outdoor unit (Slave)
 - 3 heating/cooling zone
 - 4 3-way switching valve (optional)
 - 5 hydraulic separator (optional)
 - 6 secondary circuit pump (optional)
 - 7 bypass*
 - 8 DHW tank (optional)
 - 9 boiler connection kit (optional)
 - 10 DHW recirculation pump (optional)
 - 11 SwitchConnect Wi-Fi receiver (optional)
 - 12 SwitchConnect Wi-Fi chronothermostat (optional)
- *from external supply



Hybrid single-zone system in cascade:

Heating / DHW

- 1 indoor unit (Slave)
 - 2 outdoor unit (Slave)
 - 3 instantaneous boiler (Hybrid version)
 - 4 heating area
 - 5 3-way switching valve (optional)
 - 6 hydraulic separator (optional)
 - 7 secondary circuit pump (optional)
 - 8 bypass*
 - 9 DHW tank (optional)
 - 10 boiler connection kit (optional)
 - 11 DHW recirculation pump (optional)
 - 12 SwitchConnect Wi-Fi receiver (optional)
 - 13 SwitchConnect Wi-Fi chronothermostat (optional)
- *from external supply