Edge EVO 2.0 - EXC

WiSAN-YME 1 S 2.1÷14.1

Air to Water packaged unitunit heat pump for heating,cooling and domestic hot water production.

HEAT PUMPS

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

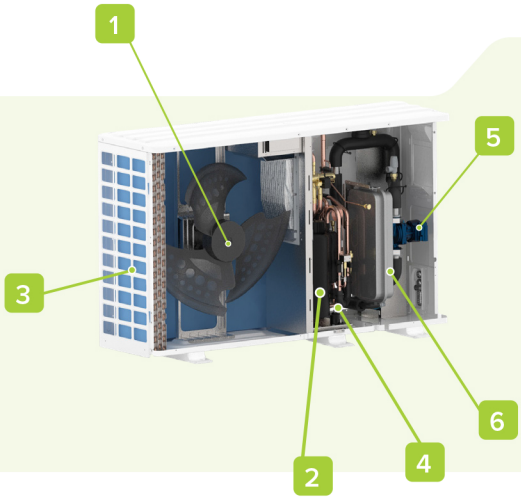
- Input ON/OFF
- User interface/ thermostat
- Modbus port
- Control via the App
- ELFOControl management
- Clivet Eye monitoring

TOP SYSTEM EFFICIENCY ErP 55°C A++ 35°C A+++

- 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

Versatility

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.



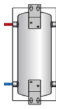
1. Inverter DC fan
2. Inverter DC twin-rotary compressor
3. Air-gas finned exchanger (blue fin treatment)
4. Gas/water plate exchanger
5. Inverter DC high efficiency pump
6. 4.8-litre system expansion tank

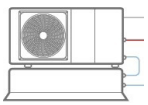
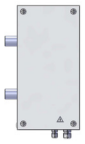
configurations

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

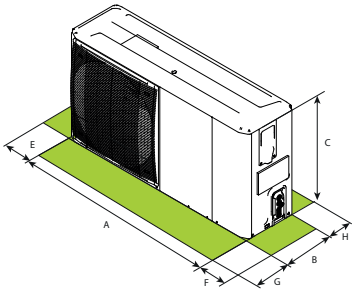
-	**No heater (standard)**
IBH	Back-up electric heater

accessories

	HPHOSE750B	Hose kit for connecting the unit to the system
	IKHPMF28	Magnetic dirt separator filter for water distribution systems
	ZERO001	Safety antifreeze valve for system
	LOGHPD3200	200 liter DHW tank
	LOGHPD3300	300 liter DHW tank
	LOGHPD3500	500 liter DHW tank
	LOGHPD3600	600 liter DHW tank
	LOHPT2	170-600 liter DHW tank with solar coil
	QERAX	Electrical panel for single-phase heater connection on DHW storage tank
	QERATX	Electrical panel for three-phase heater connection on DHW storage tank
	B328DIV	Three-way valve for domestic hot water
	KCSX	Secondary circuit kit (1-litre circuit breaker + pump)
	KIRE2HLX	Double zone distribution unit: direct + mixed (with mixing valve)
	KIRE2HX	Double zone distribution unit: direct + direct
	DIX	1 liter hydraulic separator
	BUFF25	25 liter hydraulic separator
	BUFF50	50-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

	TANKX	System inertial storage tank
	KTCAX	Piping kit for the connection to the buffer tank
	APE25-8-130	Secondary heating circuit pump
	PRSX	DHW recirculation pump
	VDACSX	Thermostat-controlled switching valve for domestic hot water
	IBHX	Single-phase back-up electric heater (2/4/6kW)
	IBHTX	Three-phase back-up electric heater (3/6/9kW)
	DTX	Auxiliary condensate collection tray
	AMRX	Kit of antivibration mounts for floor installation
	AMMSX	Kit of antivibration anti-seismic mounts for floor installation
	ASTFX	Kit of antivibration mounts for wall bracket installation
	KSIPX	Kit with wall fixing brackets
	HIDTCBX *to exhaustion*	Black HID-TConnect chronothermostat for temperature control
	HIDTCNX *to exhaustion*	White HID-TConnect chronothermostat for temperature control
	HTC2WX	White HID-TConnect[2] *NEW* chronothermostat for temperature control
	SWCX	Receiver / IoT switch SwitchConnect

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
Seasonal efficiency Medium Climate	Heating Water 55°C	Energy class		-	**A++**	**A++**	**A++**	**A++**	**A++**	**A++**	**A++**
		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	Energy class		-	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**
		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				70		
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

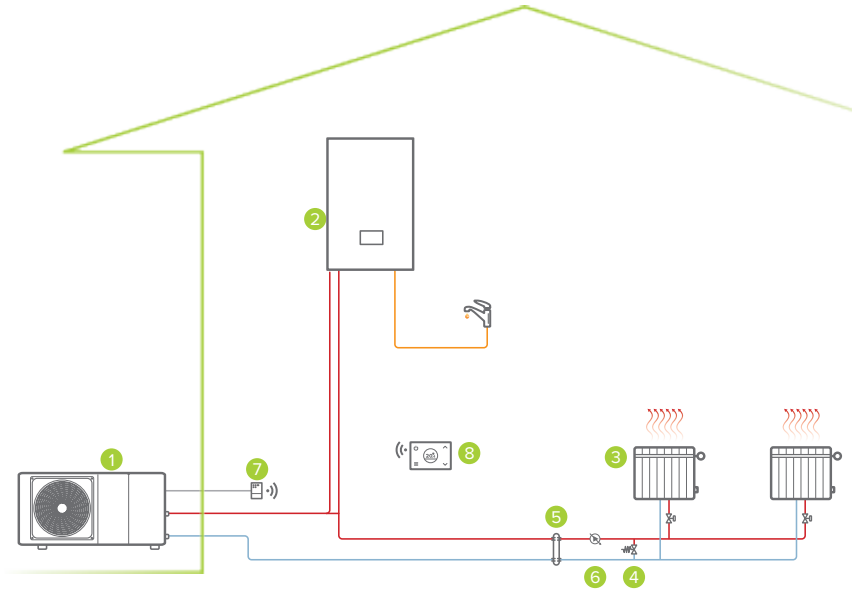
Operating range											
Water supply temperature	Heating / DHW	Full electric	Minimum / Maximum	°C	25 / 65						
		Hybrid	Minimum / Maximum	°C	25 / 75						
	Cooling	-	Minimum / Maximum	°C	5 / 25						
Operating range (outdoor air)	Heating / DHW	-	Minimum / Maximum	°C	-25 / 43						
	Cooling	-	Minimum / 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
Seasonal efficiency Medium Climate	Heating Water 55°C	Energy class		-	**A++**	**A++**	**A++**	**A+**	**A++**	**A+**	**A+**
		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	Energy class		-	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**	**A++**
		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				100	
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

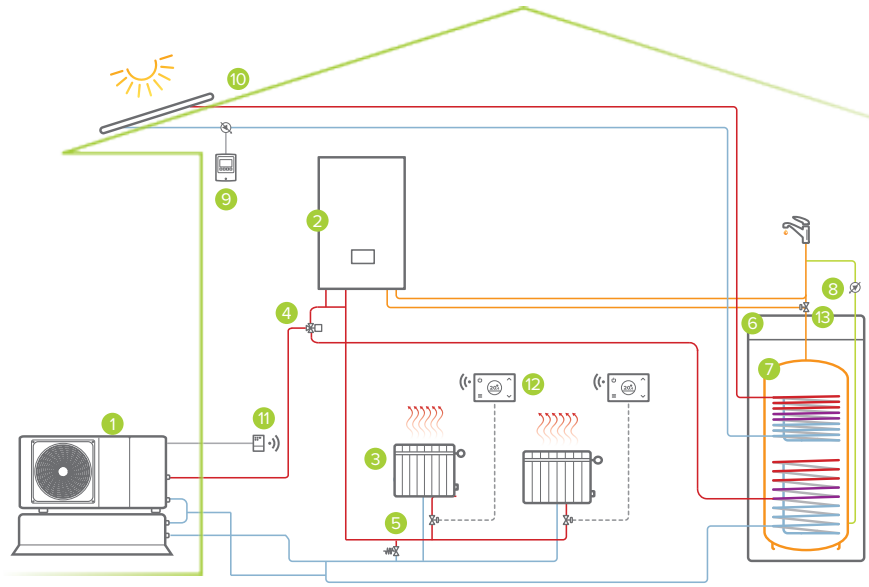
Operating range											
Water supply temperature	Heating / DHW	Full electric	Minimum / Maximum	°C		25 / 65				25 / 60	
		Hybrid	Minimum / Maximum	°C		25 / 75				25 / 70	
	Cooling	-	Minimum / Maximum	°C				5 / 25			
Operating range (outdoor air)	Heating / DHW	-	Minimum / Maximum	°C				-25 / 43			
	Cooling	-	Minimum / Maximum	°C		-5 / 43				-5 / 46	

system diagrams



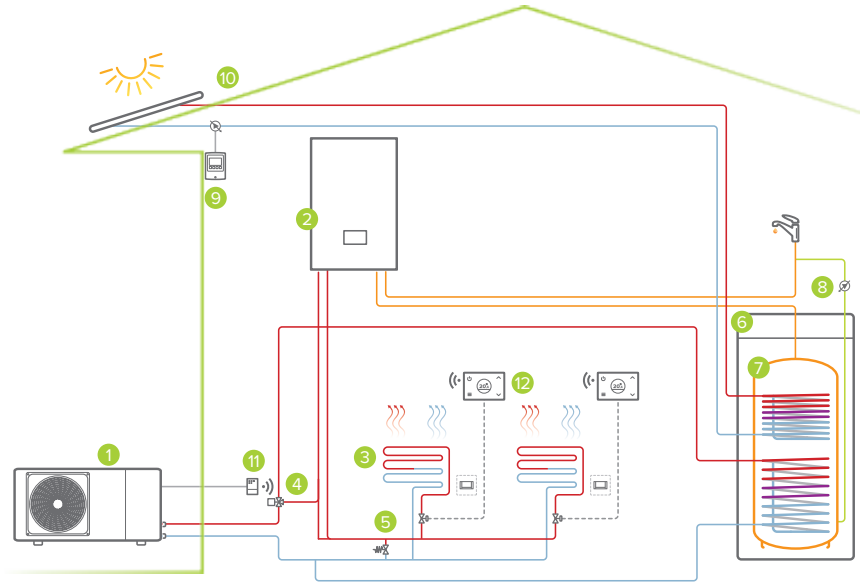
Hybrid single-zone system:
Heating / DHW

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

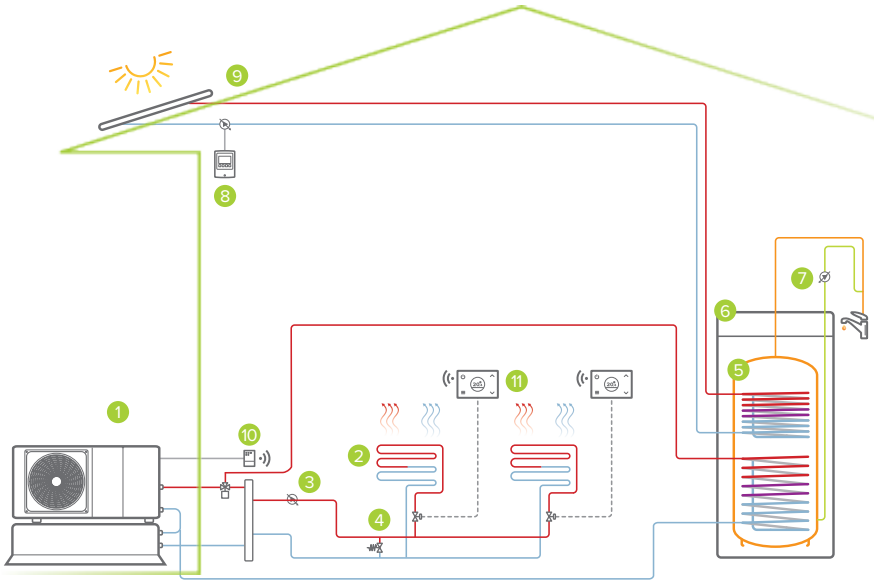
1. outdoor unit
2. instantaneous boiler *(Hybrid version)*
3. heating/cooling zone
4. 3-way switching valve (optional)
5. bypass*
6. boiler connection kit (optional)
7. DHW boiler with solar coil (optional)
8. DHW recirculation pump (optional)
9. solar circulation kit (optional)
10. ELFOSun solar thermal (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

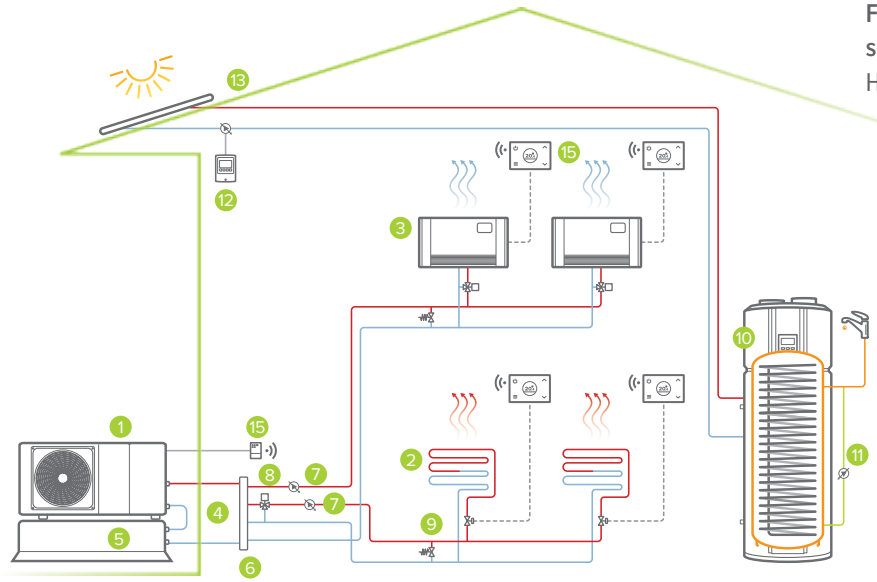
1. outdoor unit
2. boiler
3. heating/cooling zone
4. 3-way switching valve (optional)
5. bypass*
6. boiler kit connection QERAX (optional)
7. DHW tank with solar predisposition (optional)
8. DHW recirculation pump*
9. solar circulation kit (optional)
10. ELFOSun solar thermal (optional)
11. SwitchConnect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

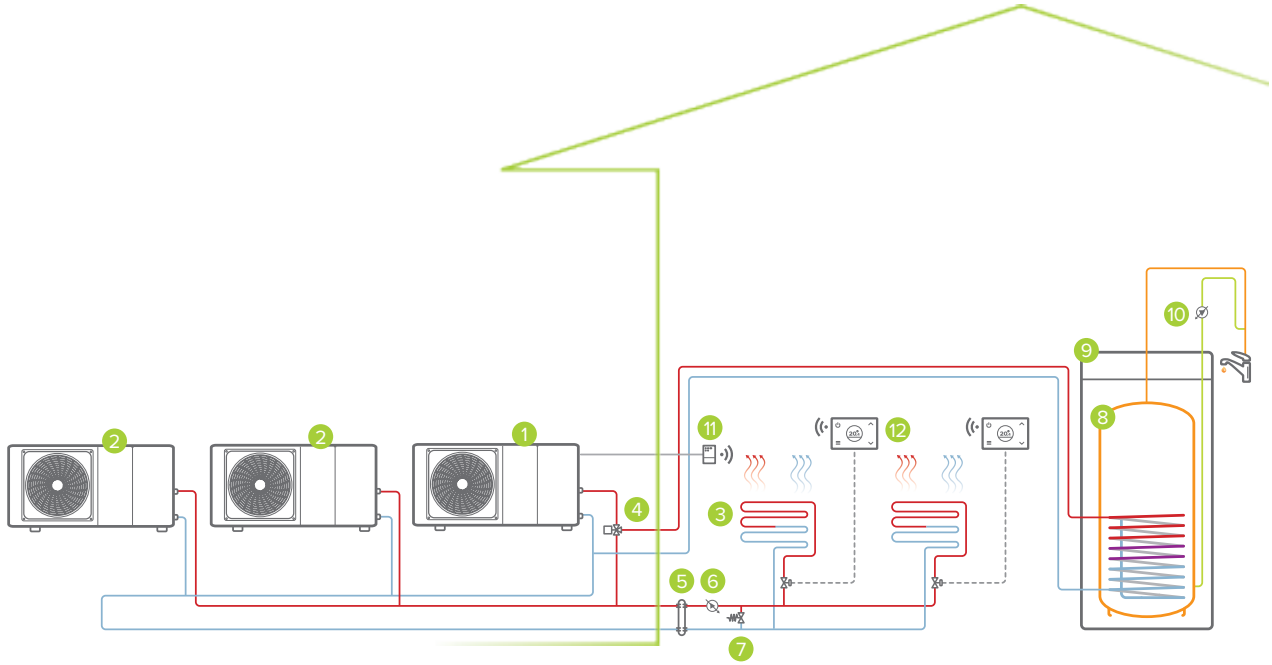


Full electric two-zone system with thermodynamic solar system:
Heating / Cooling / DHW

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

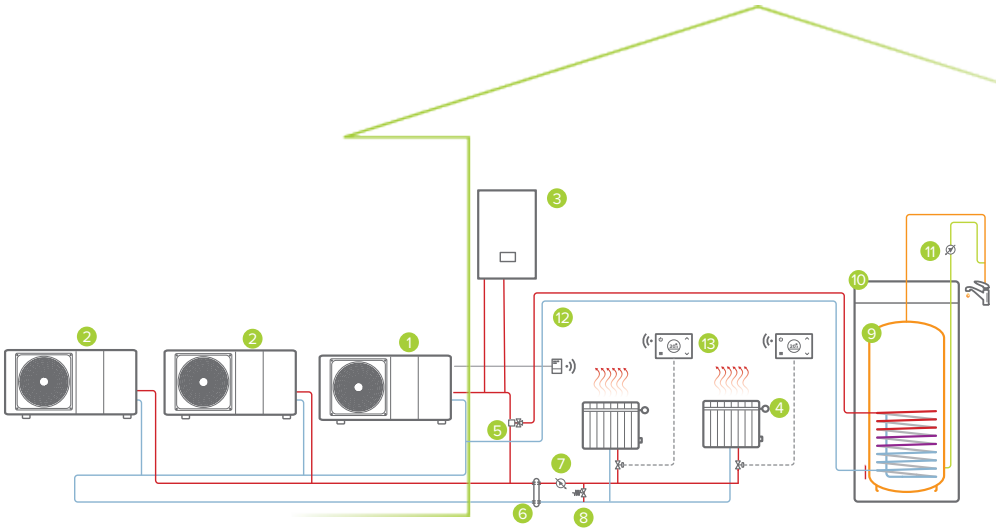
system diagrams



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

REF SP23A032GB-01