

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 Hot Cold DHW Silent			RELIABILITY Backup heater (optional) Keymark 041 ProdottiQualità CasaClima		
HEALTH Renewable Energy (Full electric version)		CONVENIENCE Weekly Timer Contemporaneity (Hybrid Version) Instant DHW (Hybrid Version)		MANAGEMENT AND CONNECTIVITY Input ON/OFF User interface/ thermostat Port Modbus Control via App Control4 NRG management Clivet Eye monitoring Energy metering					



- ✓ 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 Smart Home App or via the Modbus port with Control4 NRG standard supplied

HEAT PUMPS

Clever solution

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.




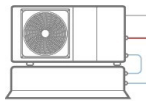























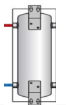

1. Inverter DC fan
2. Inverter DC twin-rotary compressor
3. Air-gas finned exchanger (blue fin treatment)
4. Gas/water plate exchanger
5. Inverter DC high efficiency pump
6. 4.8-litre system expansion tank

configurations

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

- **No heater (standard)**
- IBH Back-up electric heater (only available for WiSAN-YME 1 S 2.1-8.1)

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)		HTC2WX	White HID-TConnect ² chronothermostat for temperature control
	KIRE2HLX	Double zone distribution unit: direct + mixed (with mixing valve)		SWCX	Receiver / IoT switch SwitchConnect
	KIRE2HX	Double zone distribution unit: direct + direct			
	DIX	1 liter hydraulic separator			
	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			

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 / 5,33	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
Cooling	Capacity	Water 45/40 °C	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
	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
Electrical power for meter sizing	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
Seasonal efficiency Medium climate	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++
	Heating	Annual energy consumption		kWh/year	2.749	3.348	4.064	4.541	6.916	6.917	7.213
	Water 55 °C	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
	Energy class			-	A+++	A+++	A+++	A+++	A+++	A+++	A+++
Medium climate	Heating	Annual energy consumption		kWh/year	2.354	2.849	3.223	3.649	5.156	5.157	6.011
	Water 35 °C	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				30								
Expansion tank capacity				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
Operating range (Outdoor air)	Cooling	-	Minimum / Maximum	°C							5 / 25
	Heating	-	Minimum / Maximum	°C							-25 / 35
Operating range (Outdoor air)	DHW	-	Minimum / Maximum	°C							-25 / 43
	Cooling	-	Minimum / Maximum	°C							-5 / 43

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

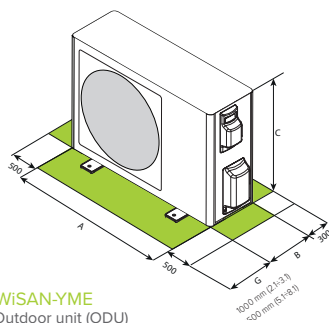
2016/2281).

The Product complies with the European ErP Directive (EU Regulations 813/2013 - 813/2013 -

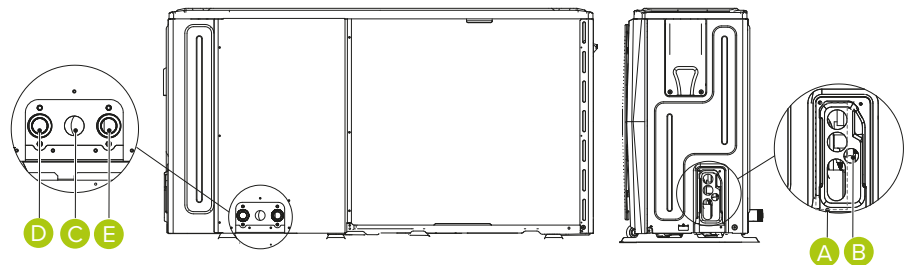
dimensions and connections

Size			2.1	3.1	4.1	5.1	6.1	7.1	8.1
Dimensions	AxCxB	mm	1.295x717x400			1.385x864x445			
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			

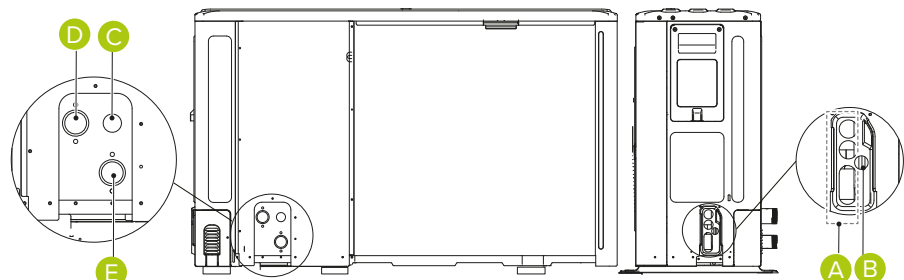
SIZES 2.1 to 3.1



WiSAN-YME
Outdoor unit (ODU)



SIZES 4.1 to 8.1



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

- A. Hole for high voltage cable (power supply)
- B. Hole for low pressure cable (control and signal cables)
- C. Hole for discharge pipe
- D. Water outlet
- E. Water inlet

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
Cooling	Capacity	Water 45/40 °C	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
	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
Electrical power for meter sizing	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
Seasonal efficiency	Energy class			-	A++	A++	A++	A++	A++	A+	A+
	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
Medium climate	Energy class			-	A+++	A+++	A+++	A+++	A+++	A+++	A++
	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
Pump available pressure	Outdoor air 7 °C	Nominal	kPa	88
Minimum system water content			l	70
Expansion tank capacity			l	4,8
Sound power		Minimum / Nominal	dB(A)	59 / 65
Sound pressure @1m		Minimum / Nominal	dB(A)	44 / 50

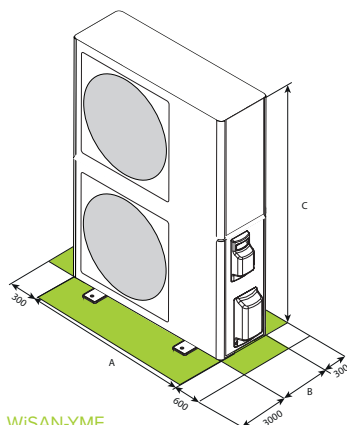
Operating range

Water supply temperature	Heating / DHW	Full electric	Minimum / Maximum	°C		25 / 65		25 / 60
		Hybrid	Minimum / Maximum	°C		25 / 75		25 / 70
Operating range (Outdoor air)	Cooling	-	Minimum / Maximum	°C			5 / 25	
	Heating	-	Minimum / Maximum	°C			-25 / 35	
	DHW	-	Minimum / Maximum	°C			-25 / 43	
	Cooling	-	Minimum / Maximum	°C		-5 / 43		-5 / 46

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).

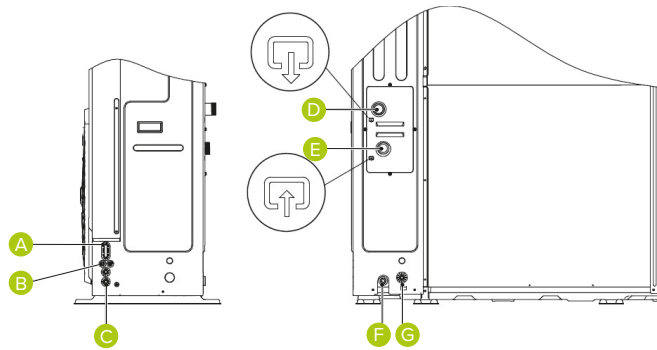
Size			6.1T	7.1T	8.1T	9.1	10.1	12.1	14.1
Dimensions	AxCxB	mm		1.385x864x445				1.120x1.557x445	
Weight		kg		144				177	
Refrigerant charge		type / GWP				R-32 / 675			
		kg		1,75				5,00	
		CO ₂ tons		1,18				3,38	
External diameters	Water	inch				1" 1/4			



WiSAN-YME
Outdoor unit (ODU)

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

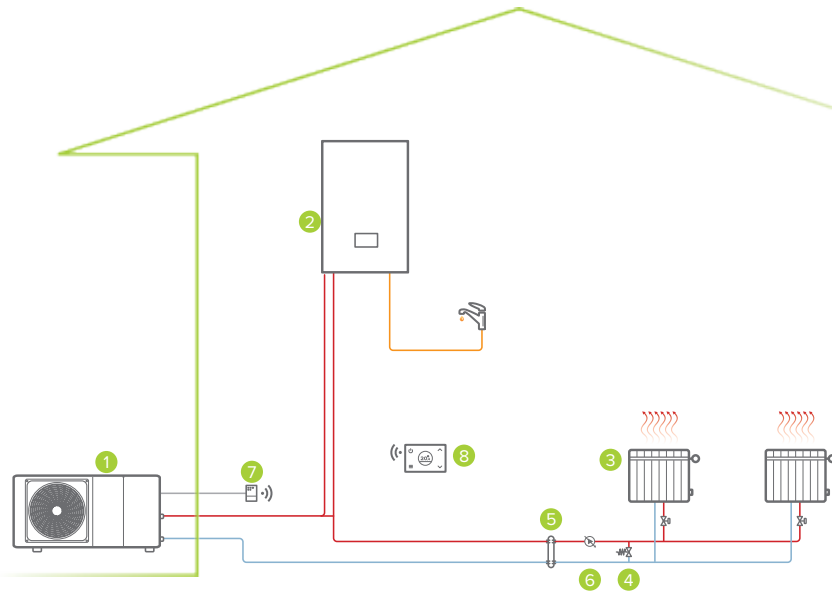
SIZES 9.1 to 14.1



- A. Hole for high voltage cable (power supply)
- B. Hole for low pressure cable (control and signal cables)
- C. Hole for discharge pipe
- D. Water outlet
- E. Water inlet
- F. Hole for discharge pipe
- G. Hole for pressure relief valve discharge pipe

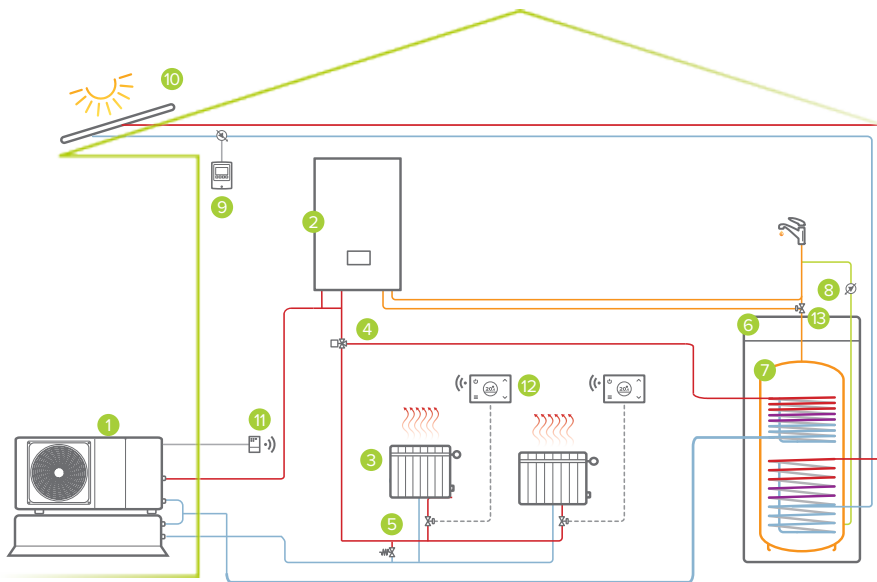
**Hybrid single-zone system:
Heating / DHW**

- 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 HID-TConnect2 Wi-Fi chronothermostat (optional)



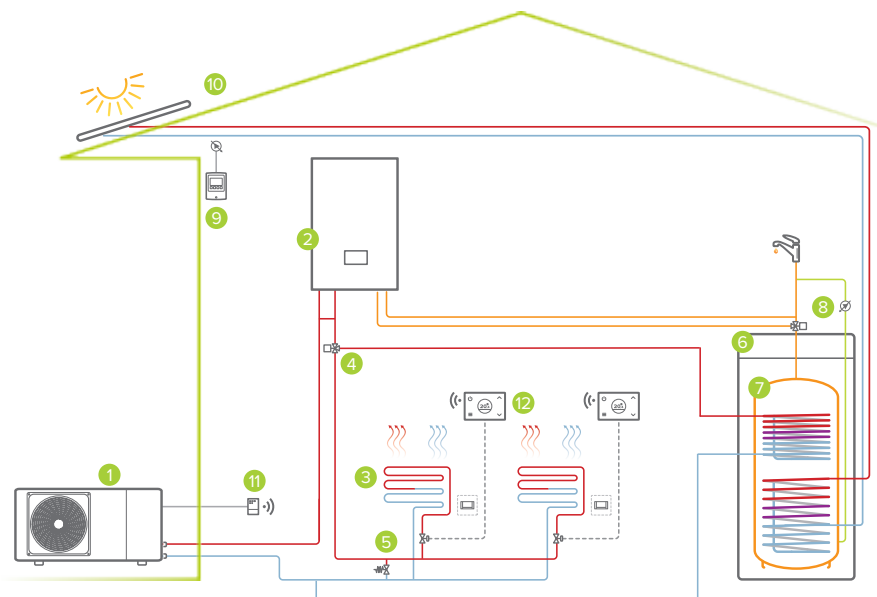
**Hybrid single-area system with thermal solar:
Heating / DHW**

- 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 kit di circolazione solare (opzionale)
- 10 ELFOSun³ thermal solar (optional)
- 11 SwitchConnect Wi-Fi receiver (optional)
- 12 HID-TConnect2 Wi-Fi chronothermostat (optional)
- 13 thermostatic switching valve for DHW (optional)

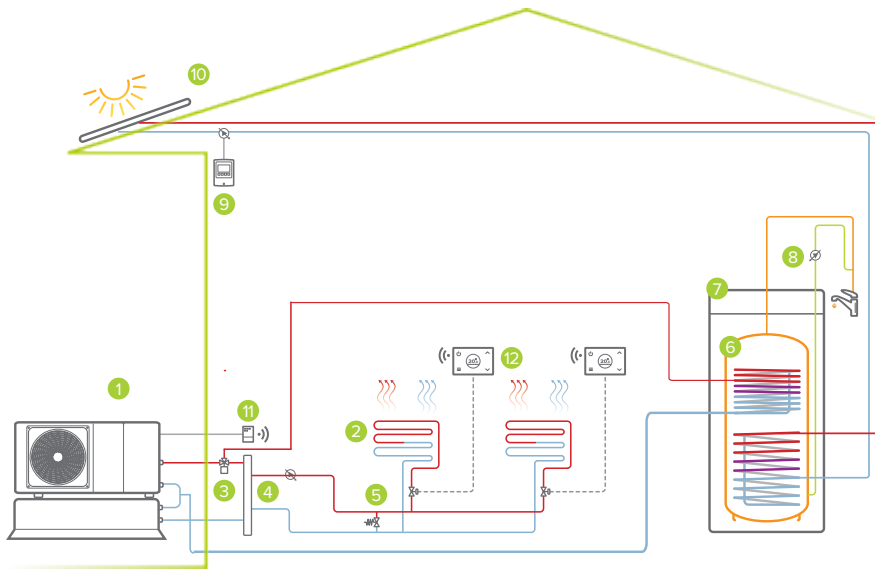


**Hybrid single-area system with thermal solar:
Heating / Cooling / DHW**

- 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 kit di circolazione solare (opzionale)
- 10 ELFOSun³ thermal solar (optional)
- 11 SwitchConnect Wi-Fi receiver (optional)
- 12 HID-TConnect2 Wi-Fi chronothermostat (optional)



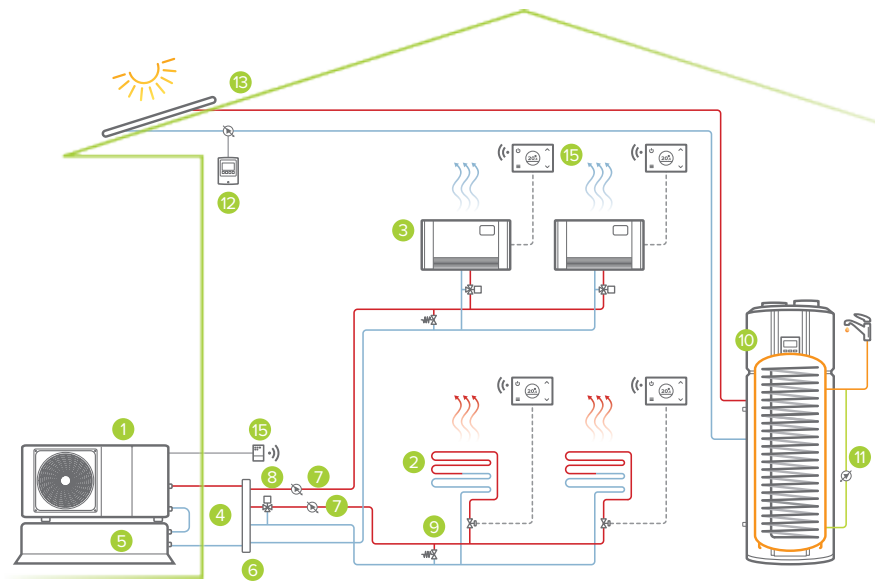
*from external supply



Full electric single-area system with thermal solar:

Heating / Cooling / DHW

- 1 outdoor unit
- 2 heating/cooling zone
- 3 3-way switching valve (optional)
- 4 single-area separator + pump kit
- 5 bypass*
- 6 DHW boiler with solar coil (optional)
- 7 boiler connection kit (optional)
- 8 DHW recirculation pump (optional)
- 9 kit di circolazione solare (opzionale)
- 10 ELFOSun³ thermal solar (optional)
- 11 SwitchConnect Wi-Fi receiver (optional)
- 12 HID-TConnect2 Wi-Fi chronothermostat (optional)

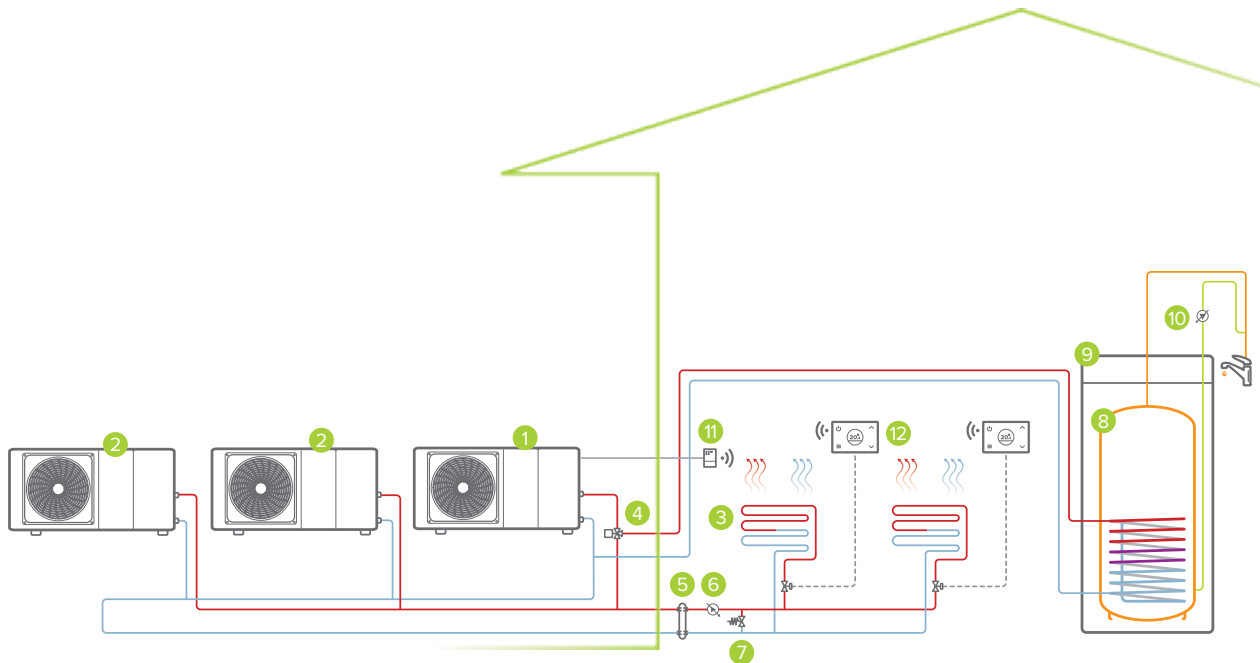


Full electric two-area system with thermal solar:

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 kit di circolazione solare (opzionale)
- 13 ELFOSun³ thermal solar (optional)
- 14 SwitchConnect Wi-Fi receiver (optional)
- 15 HID-TConnect2 Wi-Fi chronothermostat (optional)

*from external supply

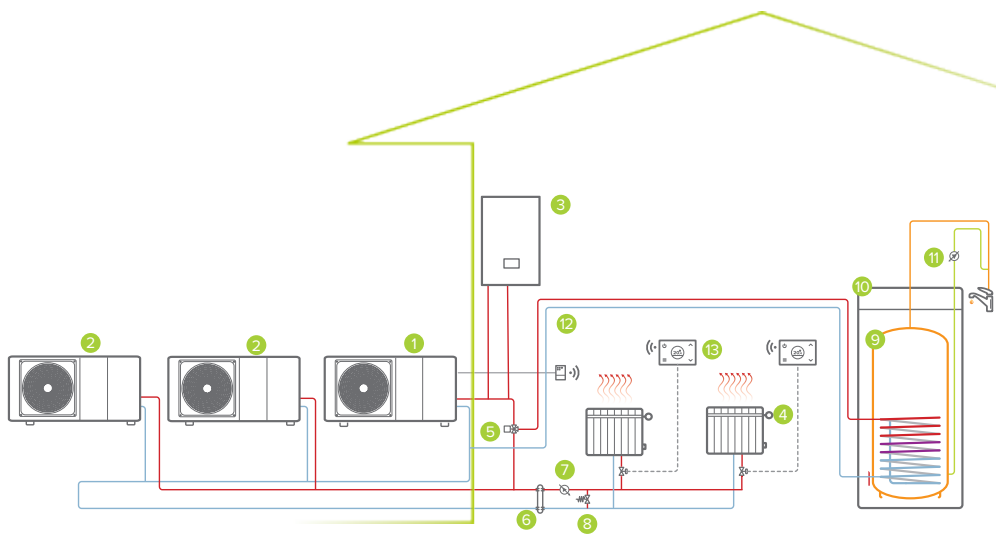


Full electric single-zone system in cascade:

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 HID-TConnect2 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 HID-TConnect2 Wi-Fi chronothermostat (optional)

*from external supply

