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

- Weekley Timer
- Contemporaneity (Hybrid Version)
- Instant DHW (Hybrid Version)

MANAGEMENT AND CONNECTIVITY

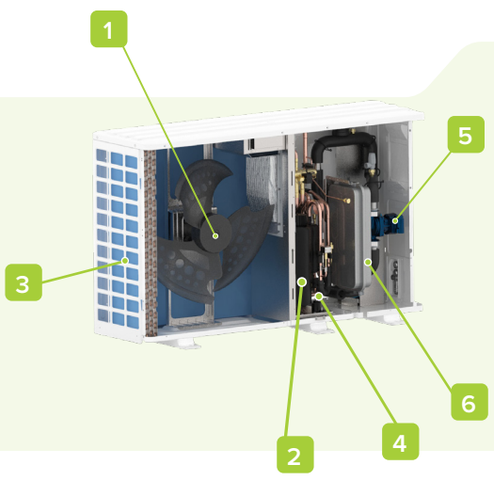
- Input ON/OFF
- User interface/ thermostat
- Port Modbus
- Control via App
- Control4 NRG management
- Clivet Eye monitoring
- Energy metering

ErP TOP SYSTEM EFFICIENCY 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 Smart Home App or via the Modbus port with Control4 NRG standard supplied

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.



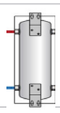
1. Inverter DC fan
2. Inverter DC twin-rotary compressor
3. Air-gas finned exchanger (blue fin treatment)
4. Gas/water plate exchanger
5. Inverter DC high efficiency pump
6. 4.8-litre system expansion tank

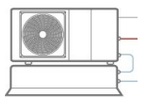
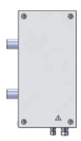
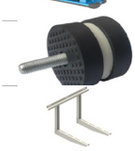
configurations

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
	FDMX	Magnetic dirt separator filter for water distribution systems
	VAGX	Safety antifreeze valve for system
	ACS200X	200 liter DHW tank
	ACS300X	300 liter DHW tank
	ACS500X	500 liter DHW tank
	ACS1000X	1000 liter DHW tank
	ACS10SX	1.000 liter DHW tank with solar coil
	SCS08X	Solar coil for ACS200X/ACS300X DHW tank
	SCS12X	1.2 m² solar exchanger for flange installation (for ACS500X)
	QERAX	Electrical panel for single-phase heater connection on DHW storage tank
	QERATX	Electrical panel for three-phase heater connection on DHW storage tank
	3DHWX	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
	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

	TANKX	System inertial storage tank
	KTCAX	Piping kit for the connection to the buffer tank
	PCSX	Secondary circuit pump
	PCS2X	Oversized secondary 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
	HTC2WX	White HID-TConnect² chronothermostat for temperature control
	SWCX	Receiver / IoT switch SwitchConnect

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
	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
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

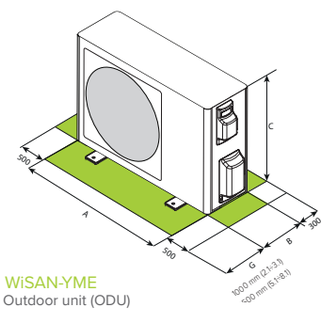
Technical specifications											
Power supply		Voltage/Frequency/Phases		V/Hz/n°	230/50/1						
Water flow-rate		Water 35/30 °C	Nominal	l/s	0,20	0,30	0,40	0,48	0,58	0,69	0,76
Pump available pressure		Outdoor air 7 °C	Nominal	kPa	85	85	86	86	88	87	87
Minimum system water content				l	30				70		
Expansion 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	-	Minimum / Maximum	°C	-25 / 35						
	DHW	-	Minimum / Maximum	°C	-25 / 43						
	Cooling	-	Minimum / Maximum	°C	-5 / 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).

dimensions and connections

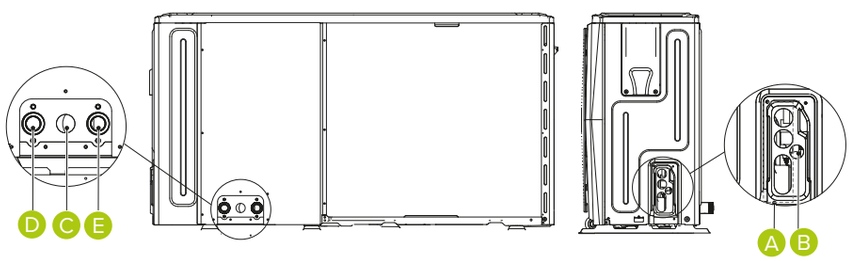
Size			2.1	3.1	4.1	5.1	6.1	7.1	8.1
Dimensions	AxCxB	mm	1.295x717x400				1.385x864x445		
Weight		kg	86		105			129	
Refrigerant charge		type / GWP	R-32 / 675						
		kg	1,40				1,75		
		CO_2 tons	0,95				1,18		
External diameters	Water	inch	1”				1” 1/4		



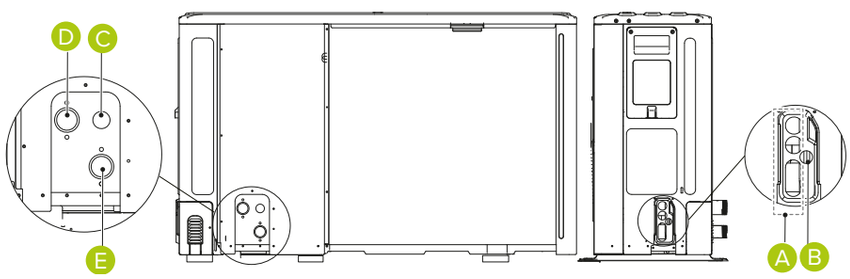
WiSAN-YME
Outdoor unit (ODU)

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

SIZES 2.1 to 3.1



SIZES 4.1 to 8.1



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

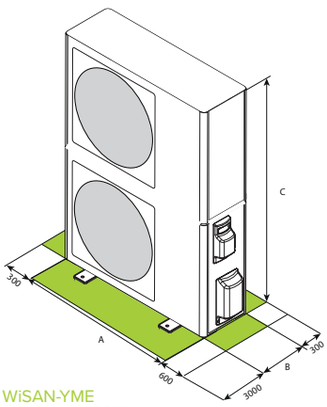
Size					6.1T	7.1T	8.1T	9.1	10.1	12.1	14.1
Heating	Capacity	Water 35/30 °C	Nominal / Maximum	kW	**12,1 / 14,6**	**14,5 / 15,5**	**15,9 / 16,8**	**18,0 / 20,7**	**22,0 / 24,9**	**26,0 / 29,1**	**30,1 / 31,8**
	COP	Outdoor air 7 °C	Nominal	-	4,95	4,60	4,50	4,70	4,40	4,08	3,91
	Capacity	Water 35/30 °C	Nominal / 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 °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
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	-	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).

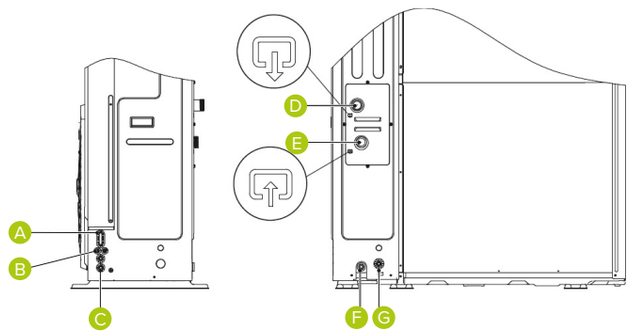
Size			6.1T	7.1T	8.1T	9.1	10.1	12.1	14.1
Dimensions	AxCxB	mm	1.385x864x445			1.120x1.557x445			
Weight		kg	144			177			
Refrigerant charge		type / GWP	R-32 / 675						
		kg	1,75			5,00			
		CO_2 tons	1,18			3,38			
External diameters	Water	inch	1" 1/4						



WiSAN-YME
Outdoor unit (ODU)

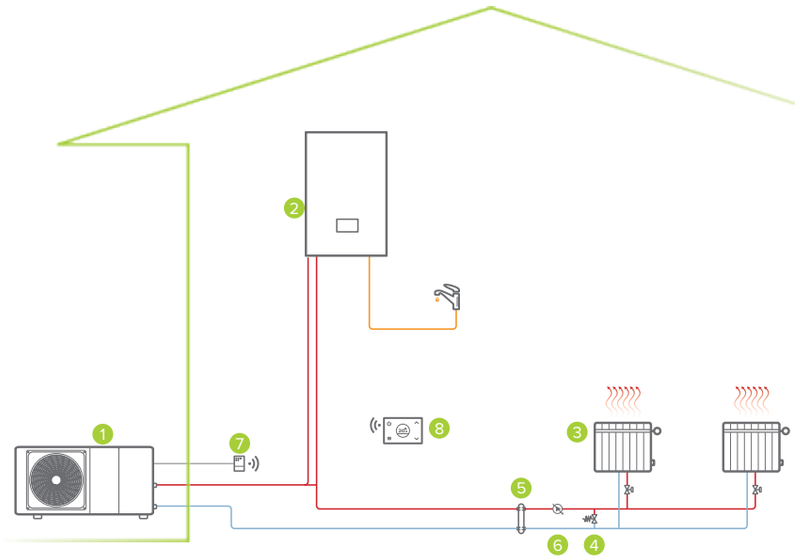
For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

SIZES 9.1 to 14.1



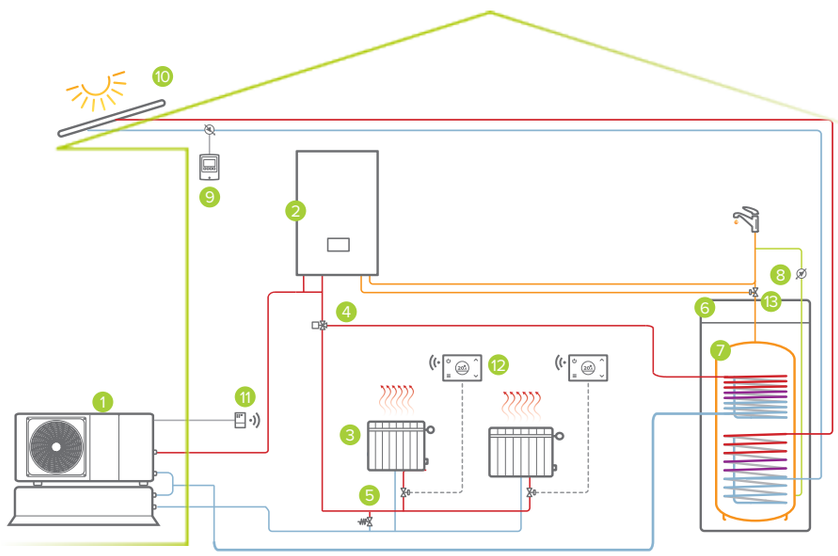
- **A.** Hole for high voltage cable (power supply)
- **B.** Hole for low pressure cable (control and signal cables)
- **C.** Hole for discharge pipe
- **D.** Water outlet
- **E.** Water inlet
- **F.** Hole for discharge pipe
- **G.** Hole for pressure relief valve discharge pipe

system diagrams



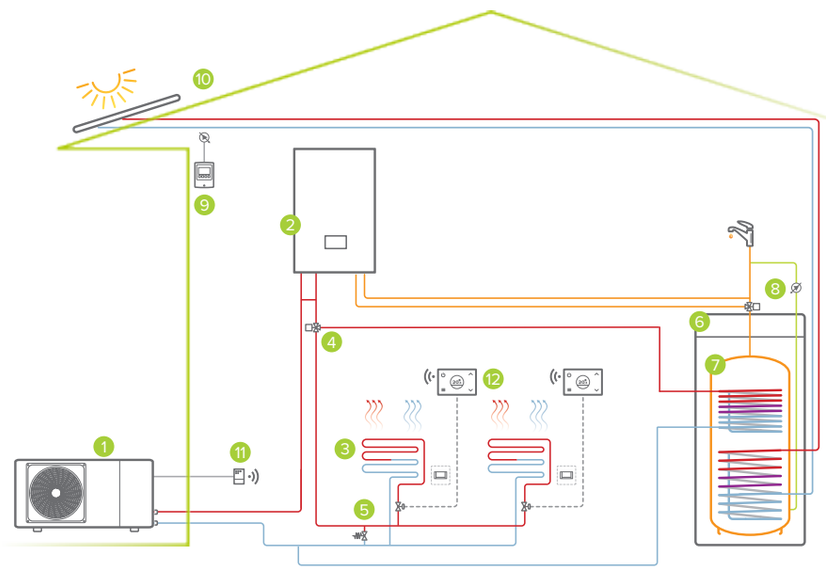
Hybrid single-zone system:
Heating / DHW

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. HID-TConnect2 Wi-Fi chronothermostat (optional)



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

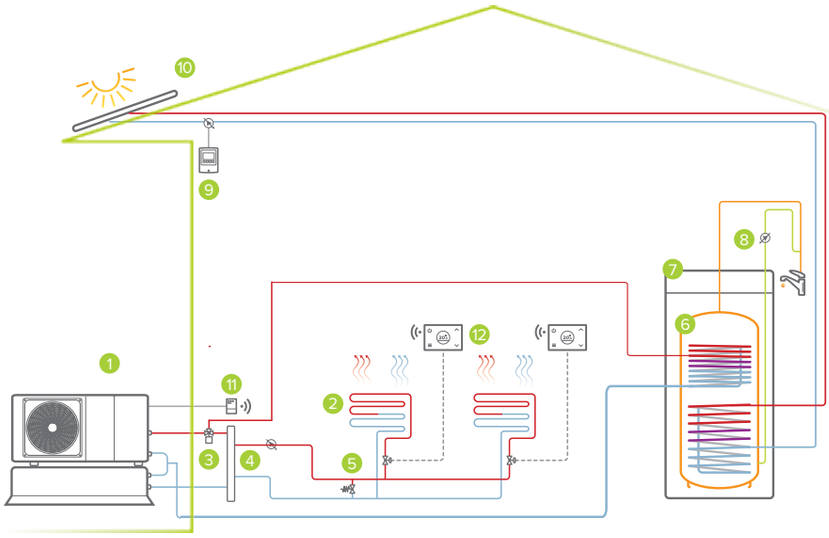
1. outdoor unit
2. instantaneous boiler *(Hybrid version)*
3. heating/cooling zone
4. 3-way switching valve (optional)
5. bypass*
6. boiler connection kit (optional)
7. DHW boiler with solar coil (optional)
8. DHW recirculation pump (optional)
9. kit di circolazione solare (opzionale)
10. ELFOSun^3 thermal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

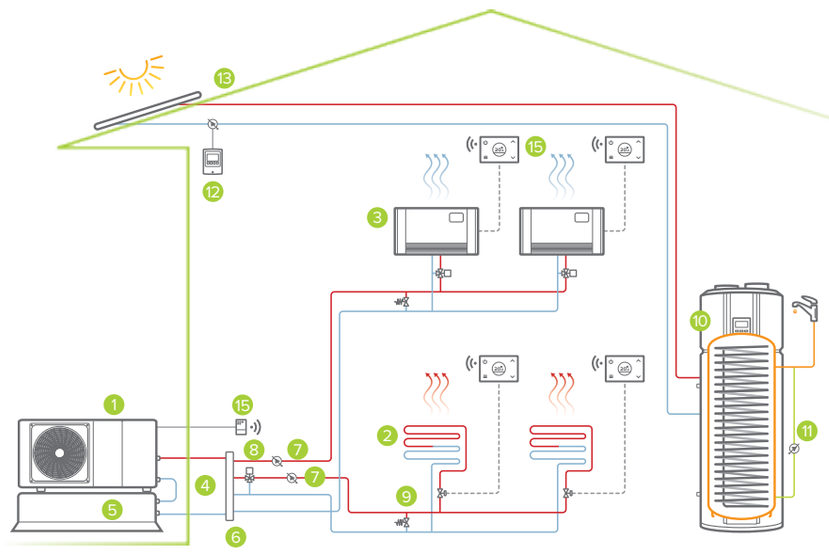
1. outdoor unit
2. boiler
3. heating/cooling zone
4. 3-way switching valve (optional)
5. bypass*
6. boiler kit connection QERAX (optional)
7. DHW tank with solar predisposition (optional)
8. DHW recirculation pump*
9. kit di circolazione solare (opzionale)
10. ELFOSun^3 thermal solar (optional)
11. SwitchConnect 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. ELFOSun^3 thermal solar (optional)
11. SwitchConnect Wi-Fi receiver (optional)
12. HID-TConnect2 Wi-Fi chronothermostat (optional)

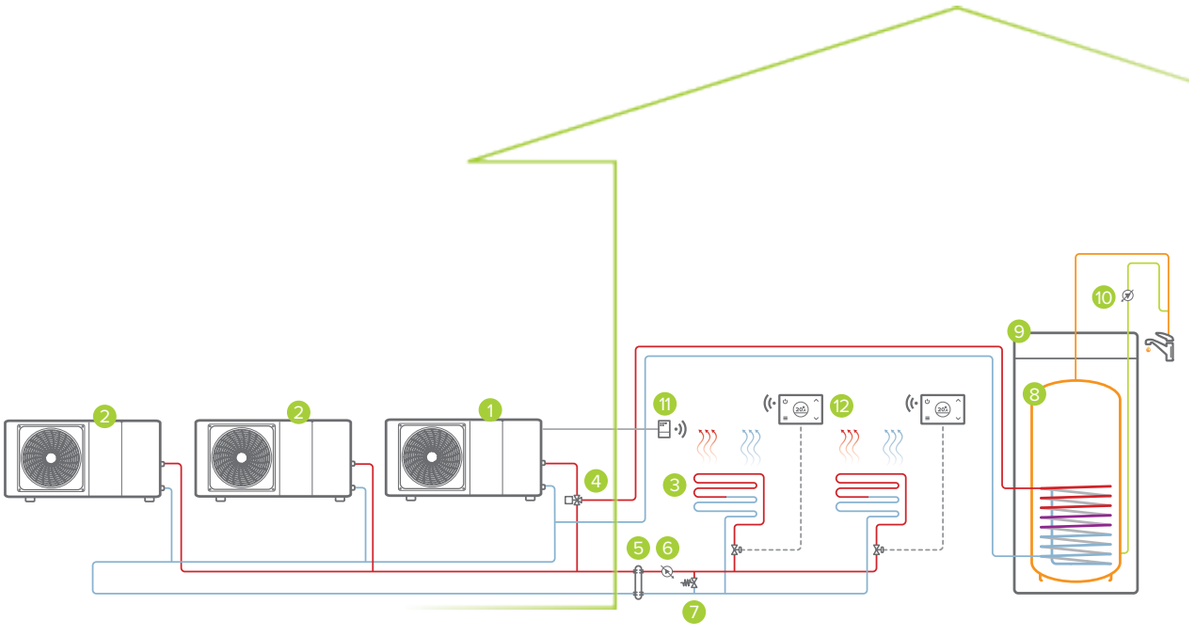


Full electric two-area system with thermal solar:
Heating / Cooling / DHW

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. ELFOSun^3 thermal solar (optional)
14. SwitchConnect Wi-Fi receiver (optional)
15. HID-TConnect2 Wi-Fi chronothermostat (optional)

*from external supply

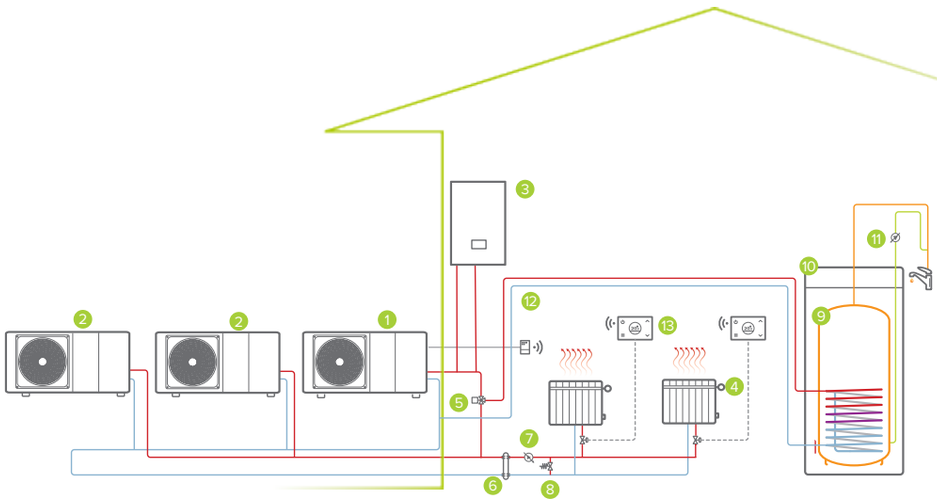
system diagrams



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. 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

Dansk importør: H. Jessen Jürgensen A/S, www.hjj.dk

V2419