

Edge EVO 2.0 - EXC

WiSAN-YME 1 S 2.1÷14.1

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

HEAT PUMPS

ENERGY SAVING



Solar integration (optional - DHW tank)



Cascade



Smart Grid ready



e-Switch

HEALTH



Eco-friendly refrigerant



Renewable energy

CONVENIENCE



Weekly schedule



Boiler integration

COMFORT



Heating Cooling



DHW



Silent



High temperature

RELIABILITY



Backup heater (optional)



Eurovent



Keymark

MANAGEMENT AND CONNECTIVITY



Potential-free contact



User interface/thermostat



Modbus port



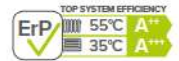
Wi-fi Control



ELFOControl management



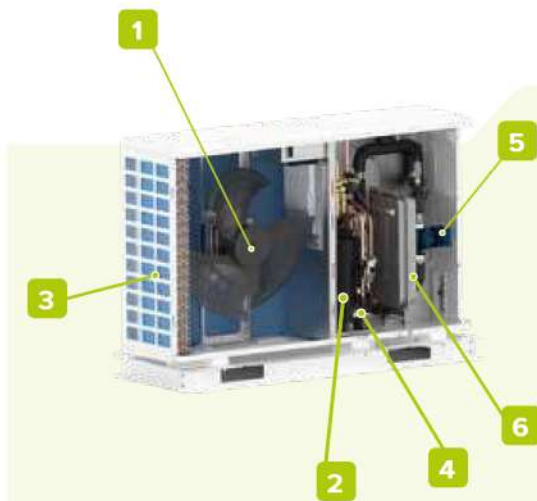
Clivet Eye monitoring



- ✓ Space saving: installed outdoors, no indoor unit is required
- ✓ Designed for harsh climates: excellent performance at low temperatures and optional 3 to 9kW auxiliary heaters
- ✓ High temperature distribution can be used: water up to 65°C
- ✓ Modular: combines up to 6 units in cascade for power up to 180kW
- ✓ Advanced connectivity: management via the dedicated MSmartLife App or via the Modbus port with ELFOControl³ EVO included as standard

Highly efficient even in winter

Edge EVO 2.0 - EXC is suitable for all climates and conditions. It is designed to be efficient and provide high temperature water even in harsh winters, down to -25°C: in particular, it can produce water at 60°C with the outdoor air down to -15°C. For even tougher applications, an additional electric heater can be selected to ensure that there is no loss of performance even under the most extreme conditions.



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. 8L system expansion tank

accessories

	KTFLX	Hose kit for connection to the chiller/heat pump		TANKX	Buffer tank
	FDMX	Magnetic dirt separator filter		KTCAMX	Piping kit for the connection to the buffer tank on supply water side
	VAGX	System freeze protection kit in the absence of electricity		KTCARX	Piping kit for the connection to the buffer tank on return water side
	ACS200X	200-litre domestic hot water storage tank		PCSX	Secondary circuit pump
	ACS399X	300-litre domestic hot water storage tank		PCS2X	Oversized secondary circuit pump
	ACS500X	500-litre domestic hot water storage tank		PRSX	DHW recirculation pump
	ACS1000X	1000-litre domestic hot water storage tank		IBHMX	single-phase back-up electric heater (2/4/6kW)
	ACS10SX	1000L domestic hot water storage tank with double coil for solar thermal connection		IBHTX	three-phase back-up electric heater (3/6/9kW)
	SCS08X	0.8 m ² solar exchanger for flange installation (for ACS200X e ACS300X)		DTX	Auxiliary condensate collection tray
	SCS12X	1.2 m ² solar exchanger for flange installation (for ACS500X)		APAVX	Kit of antivibration mounts for floor installation
	QERAMX	Electrical panel for single-phase heater connection on DHW storage tank		AMMX	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)		HID-TCBX	White soft touch chronothermostat, with temperature control and management via App / Voice control
	KIR2HLX	2 zones: external kit, high temperature + low temperature (mixed)		HID-TCNX	Black soft touch chronothermostat, with temperature control and management via App / Voice control
	KIRHX	2 zones: external kit, high temperature		SWCX	Switch IoT to be combined with HID-TConnect, for managing the heat pump mode or switching the terminal units/radiant systems ON/OFF
	DIX	1-litre circuit breaker			
	DI50X	50-litre circuit breaker (to exhaustion)			
	DI22-50X	50L circuit breaker (2 pairs of supply connectors / 2 pairs of return connectors)			
	DH00X	100-litre circuit breaker			
	T1BX	Probe for auxiliary heating source T1B			

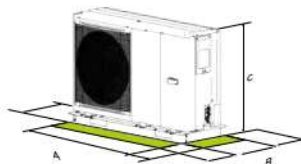
configurations

UNIT POWER SUPPLY (size 6.1÷8.1):

- 230M** Power supply 230/1/50
- 400TN** Power supply 400/3/50+N

dimensions and connections

HEAT PUMPS



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

- Back: 300 mm
- Left side: 500mm (2.1÷8.1) / 300mm (9.1÷14.1)
- Right side: 500mm (2.1÷8.1) / 600mm (9.1÷14.1)
- Front: 1000mm (2.1÷3.1) / 1500mm (5.1÷8.1) / 3000mm (9.1÷14.1)

Size (230M)			2.1	3.1	4.1	5.1	6.1	7.1	8.1
Dimensions	Length(A) x Height (C) x Depth(B)		1.295x792x429		1.385x945x526		1.385x945x526		
Weight		kg	121		148		170		
		type/GWP			R-32 / 675				
Refrigerant charge		kg			1,4		1,75		
		CO ₂ tons			0,95		1,18		
External diameters	Water	inch	1"				1 1/4"		

Size (400TN)			6.1	7.1	8.1	9.1	10.1	12.1	14.1
Dimensions	Length(A) x Height (C) x Depth(B)		1.385x945x526				1.129x1.558x440		
Weight		kg	188				206		
		type/GWP			R-32 / 675				
Refrigerant charge		kg			1,75		5		
		CO ₂ tons			1,18		3,4		
External diameters	Water	inch	1 1/4"				1 1/4"		

technical data

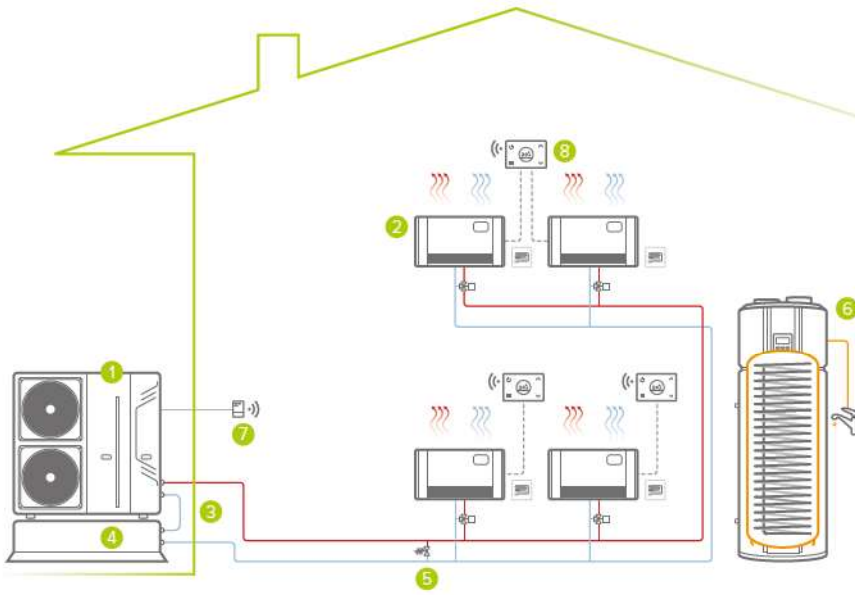
Size (230M)				2.1	3.1	4.1	5.1	6.1	7.1	8.1		
Heating	Capacity	Water 35/30°C - Outdoor air 7°C	Nominal	kW	4,20	6,35	8,40	10,00	12,10	14,50	15,90	
	COP		Nominal	-	5,10	4,95	5,15	4,95	4,95	4,60	4,50	
	Capacity	Water 35/30°C - Outdoor air -7°C	Nominal	kW	4,70	6,00	7,00	8,00	10,00	12,00	13,10	
	COP		Nominal	-	3,10	3,00	3,20	3,05	3,00	2,85	2,70	
	Cooling	Capacity	Water 45/40°C - Outdoor air 7°C	Nominal	kW	4,30	6,30	8,10	10,00	12,30	14,10	16,00
		COP		Nominal	-	3,80	3,70	3,85	3,75	3,70	3,60	3,50
Capacity		Water 18/23°C - Outdoor air 35°C	Nominal	kW	4,50	6,50	8,30	9,90	12,00	13,50	14,90	
EER			Nominal	-	5,50	4,80	5,05	4,55	3,95	3,60	3,40	
Capacity		Water 7/12°C - Outdoor air 35°C	Nominal	kW	4,70	7,00	7,45	8,20	11,50	12,40	14,00	
EER			Nominal	-	3,45	3,00	3,35	3,25	2,75	2,50	2,50	
Electrical power for meter sizing				kW	3,50	3,50	6,50	6,50	6,50	6,50	6,50	
Seasonal efficiency Medium climate	Energy class				-	A++	A++	A++	A++	A++	A++	
	Heating 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	3,36	3,49	3,46	3,46	3,46		
	ηs (seasonal output)				%	129	138	131	137	135	135	135
	Energy class				-	A+++	A+++	A+++	A+++	A+++	A+++	A+++
	Heating 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	5,21	5,19	4,81	4,81	4,72			
ηs (seasonal output)				%	191	195	205	205	189	189	186	
Indoor unit					2.1	3.1	4.1	5.1	6.1	7.1	8.1	
Power supply	Voltage/Frequency/Phases				V/Hz/n°	230/50/1						
Water flow-rate	Water 35/30°C - Outdoor air 7°C		Nominal	l/s	0,22	0,33	0,36	0,39	0,55	0,59	0,67	
Pump available pressure			Nominal	kPa	85,2	82,2	76,4	67,9	59,9	59,9	47,6	
Minimum system water content					l	20		40				
Expansion tank capacity					l	8						
Sound power			Nominal	dB(A)	55	58	59	60	65	65	68	
Sound pressure @1m			Nominal	dB(A)	41	44	45	45	50	50	53	
Operating range												
Water supply temperature	Heating	Minimum / Maximum	°C	30 / 65								
	Cooling	Minimum / Maximum	°C	5 / 25								
	DHW	Minimum / Maximum	°C	30 / 60								
Operating range (Outdoor air)	Heating	Minimum / Maximum	°C	-25 / 35								
	Cooling	Minimum / Maximum	°C	-5 / 43								
	DHW	Minimum / Maximum	°C	-25 / 43								

Size (400TN)				6.1	7.1	8.1	9.1	10.1	12.1	14.1		
Heating	Capacity	Water 35/30°C - Outdoor air 7°C	Nominal	kW	12,10	14,50	15,90	18,00	22,00	26,00	30,00	
	COP		Nominal	-	4,95	4,60	4,50	4,70	4,40	4,08	3,91	
	Capacity	Water 35/30°C - Outdoor air -7°C	Nominal	kW	10,00	12,00	13,10	18,00	21,00	22,00	23,00	
	COP		Nominal	-	3,00	2,85	2,70	2,70	2,60	2,50	2,45	
	Cooling	Capacity	Water 45/40°C - Outdoor air 7°C	Nominal	kW	12,30	14,10	16,00	18,00	22,00	26,00	30,00
		COP		Nominal	-	3,70	3,60	3,50	3,50	3,40	3,10	2,90
Capacity		Water 18/23°C - Outdoor air 35°C	Nominal	kW	12,00	13,50	14,90	18,50	23,00	27,00	31,00	
EER			Nominal	-	3,95	3,60	3,40	4,75	4,60	4,30	4,00	
Capacity		Water 7/12°C - Outdoor air 35°C	Nominal	kW	11,50	12,40	14,00	17,00	21,00	26,00	29,50	
EER			Nominal	-	2,75	2,50	2,50	3,05	2,95	2,70	2,55	
Electrical power for meter sizing				kW	6,50	6,50	6,50	10,60	12,50	13,80	14,50	
Seasonal efficiency Medium climate	Energy class				-	A++	A++	A++	A++	A+	A+	
	Heating 55°C	Annual energy consumption	kWh/year	7.214	7.894	7.895	11.396	14.363	17.116	19.552		
		SCOP	-	3,46	3,41	3,41	3,21	3,23	3,16	3,14		
	ηs (seasonal output)				%	135	133	133	125	126	123	123
	Energy class				-	A+++	A+++	A+++	A+++	A+++	A+++	A+++
	Heating 35°C	Annual energy consumption	kWh/year	6.012	6.803	6.805	8.077	10.167	11.513	14.372		
SCOP		-	4,72	4,62	4,62	4,61	4,54	4,50	4,20			
ηs (seasonal output)				%	186	182	182	181	179	177	165	
Outdoor unit					6.1	7.1	8.1	9.1	10.1	12.1	14.1	
Power supply	Voltage/Frequency/Phases				V/Hz/n°	400/50/3+N						
Water flow-rate	Water 35/30°C - Outdoor air 7°C		Nominal	l/s	0,55	0,59	0,67	0,81	1,00	1,24	1,41	
Pump available pressure			Nominal	kPa	47,6	33,1	33,1	101,9	94,6	78,8	59,4	
Minimum system water content					l	40		60				
Expansion tank capacity					l	8						
Sound power			Nominal	dB(A)	65	65	68	70	72	74	77	
Sound pressure @1m			Nominal	dB(A)	50	50	53	57	59	61	63	
Operating range												
Water supply temperature	Heating	Minimum / Maximum	°C	30 / 65								
	Cooling	Minimum / Maximum	°C	5 / 25								
	DHW	Minimum / Maximum	°C	30 / 60								
Operating range (Outdoor air)	Heating	Minimum / Maximum	°C	-25 / 35								
	Cooling	Minimum / Maximum	°C	-5 / 43								
	DHW	Minimum / Maximum	°C	-25 / 43								

PRELIMINARY DATA

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

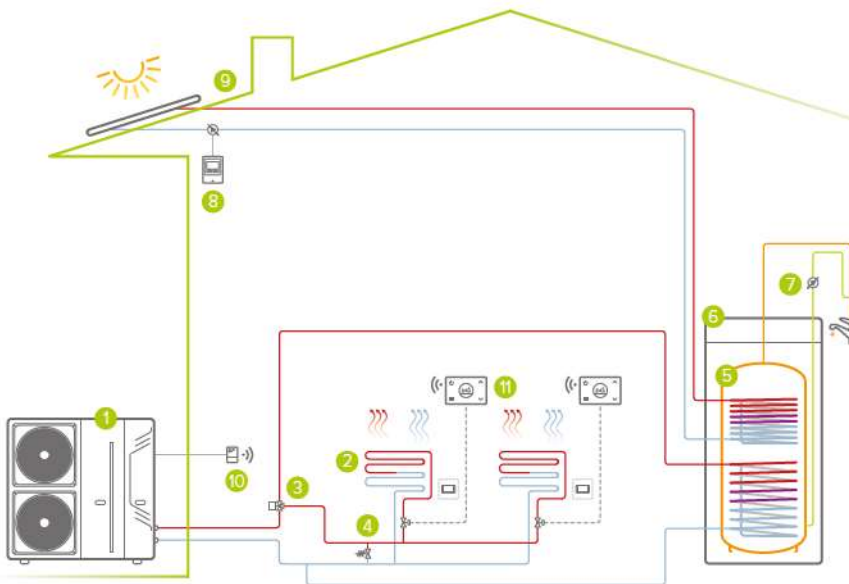
The Product complies with the European ErP Directive (EU Regulations 811/2013 - 813/2013 - 2016/2281).



**Single area system:
heating/cooling/DHW**

- 1 outdoor unit
- 2 heating/cooling area (fan coils / radiant)
- 3 system inertial storage connection kit (optional)
- 4 system inertial storage (optional)
- 5 bypass*
- 6 DHW heat pump - AQUA
- 7 SwitchConnect Wi-Fi receiver (optional)
- 8 HID-TConnect Wi-Fi chronothermostat (optional)

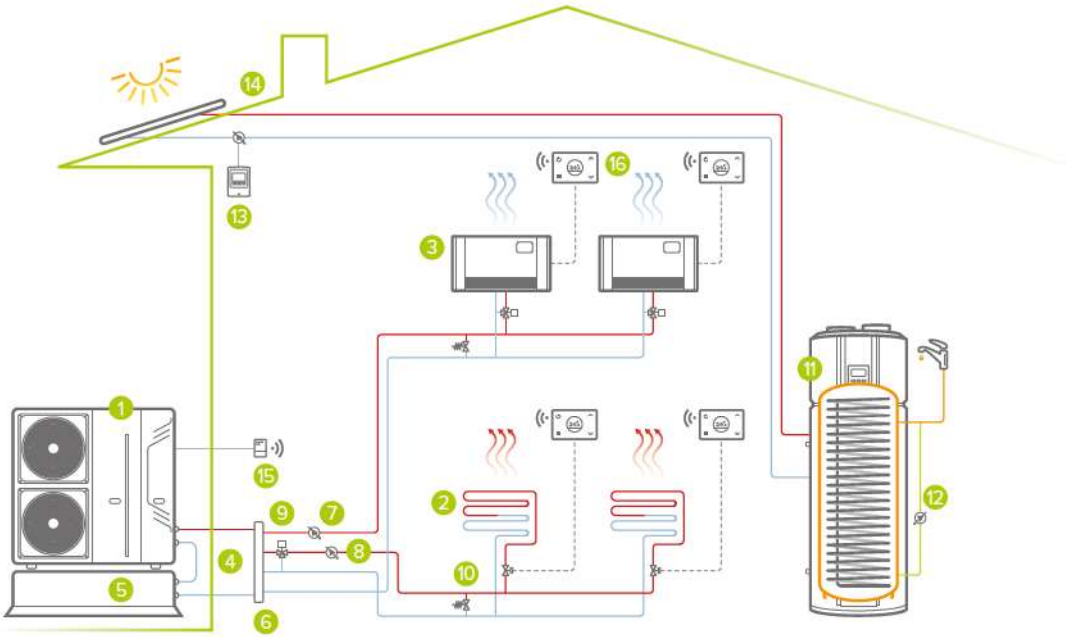
*from external supply



**Single area system with solar thermal:
heating/cooling/DHW**

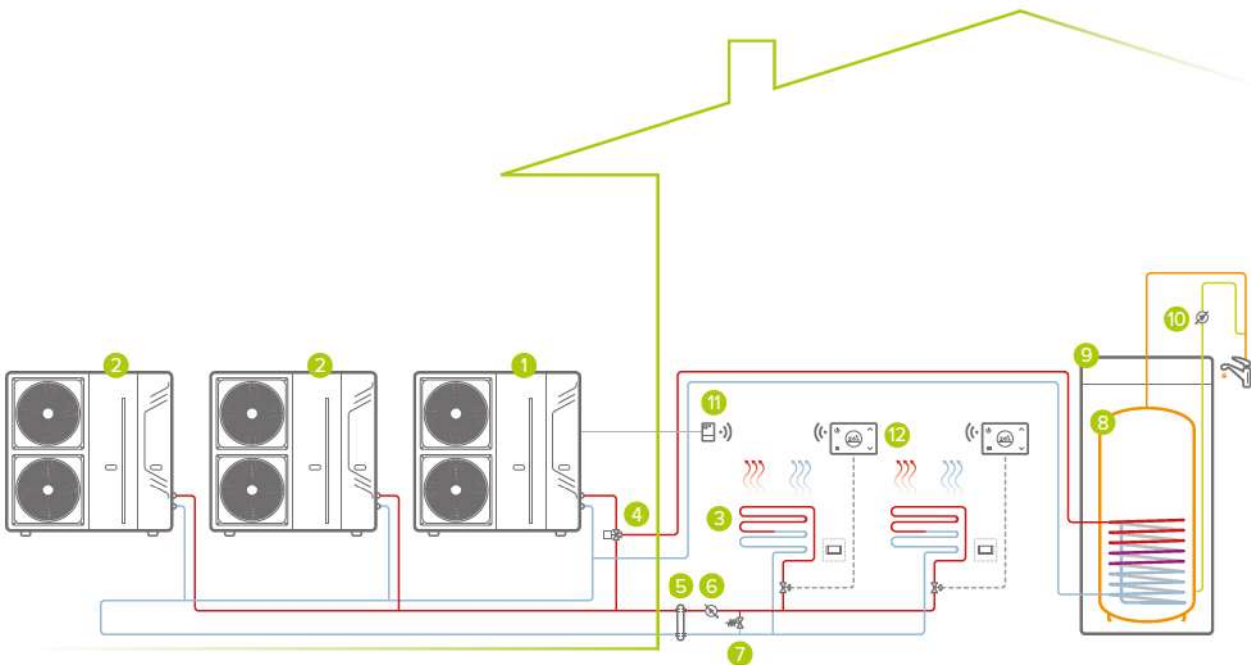
- 1 outdoor unit
- 2 heating/cooling area (fan coils / radiant)
- 3 3-way switching valve (optional)
- 4 bypass*
- 5 DHW tank with solar predisposition (optional)
- 6 boiler kit connection QERAX (optional)
- 7 DHW recirculation pump*
- 8 solar circulation kit (optional)
- 9 ELFOSun solar thermal (optional)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

*from external supply



**Two-area system with solar thermal:
heating/cooling/DHW**

- 1 outdoor unit
 - 2 heating area (radiant)
 - 3 cooling area (fan coils)
 - 4 system inertial storage connection kit (optional)
 - 5 system inertial storage (optional)
 - 6 circuit breaker (optional)
 - 7 high temperature secondary circuit pump*
 - 8 low temperature secondary circuit pump*
 - 9 3-way mechanical mixing valve*
 - 10 bypass*
 - 11 DHW heat pump with solar predisposition - AQUA
 - 12 DHW recirculation pump*
 - 13 solar circulation kit (optional)
 - 14 ELFOSun solar thermal (optional)
 - 15 SwitchConnect Wi-Fi receiver (optional)
 - 16 HID-TConnect Wi-Fi chronothermostat (optional)
- *from external supply



Single area system: heating/cooling/DHW

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

