























# 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

<b>ENERGY SAVING</b>  Solar integration (optional - DHW tank)  Cascade  Smart Grid ready  E-Switch				<b>COMFORT</b>  Heating Cooling  DHW  Silent  High temperature				<b>RELIABILITY</b>  Backup heater (optional)  Eurovent  Keymark		
<b>HEALTH</b>  Eco-friendly refrigerant  Renewable energy		<b>CONVENIENCE</b>  Weekly schedule  Boiler integration		<b>MANAGEMENT AND CONNECTIVITY</b>  Potential-free contact  User interface/thermostat  Modbus port  Wi-fi Control  ELFOControl management  Clivet Eye monitoring						

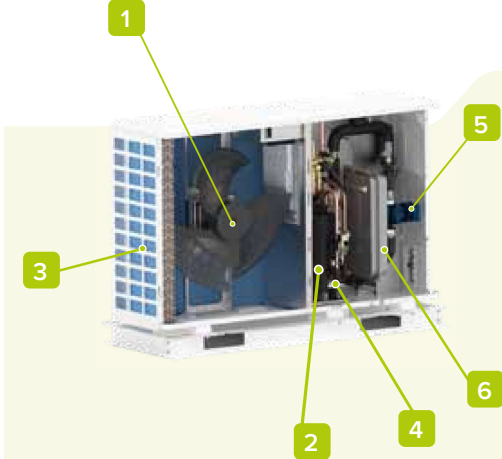




- ✓ Space saving: installed outdoors, no indoor unit is required
- ✓ Designed for harsh climates: excellent performance at low temperatures and optional 3 to 9kW auxiliary heaters
- ✓ High temperature distribution can be used: water up to 65°C
- ✓ Modular: combines up to 6 units in cascade for power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

	<b>KTFLX</b>	Hose kit for connection to the chiller/heat pump		<b>TANKX</b>	Buffer tank
	<b>FDMX</b>	Magnetic dirt separator filter		<b>KTCAMX</b>	Piping kit for the connection to the buffer tank on supply water side
	<b>VAGX</b>	System freeze protection kit in the absence of electricity		<b>KTCARX</b>	Piping kit for the connection to the buffer tank on return water side
	<b>ACS200X</b>	200-litre domestic hot water storage tank		<b>PCSX</b>	Secondary circuit pump
	<b>ACS399X</b>	300-litre domestic hot water storage tank		<b>PCS2X</b>	Oversized secondary circuit pump
	<b>ACS500X</b>	500-litre domestic hot water storage tank		<b>PRSX</b>	DHW recirculation pump
	<b>ACS1000X</b>	1000-litre domestic hot water storage tank		<b>IBHMX</b>	single-phase back-up electric heater (2/4/6kW)
	<b>ACS10SX</b>	1000L domestic hot water storage tank with double coil for solar thermal connection		<b>IBHTX</b>	three-phase back-up electric heater (3/6/9kW)
	<b>SCS08X</b>	0.8 m <sup>2</sup> solar exchanger for flange installation (for ACS200X e ACS300X)		<b>DTX</b>	Auxiliary condensate collection tray
	<b>SCS12X</b>	1.2 m <sup>2</sup> solar exchanger for flange installation (for ACS500X)		<b>APAVX</b>	Kit of antivibration mounts for floor installation
	<b>QERAMX</b>	Electrical panel for single-phase heater connection on DHW storage tank		<b>AMMX</b>	Kit of antivibration anti-seismic mounts for floor installation
	<b>QERATX</b>	Electrical panel for three-phase heater connection on DHW storage tank		<b>ASTFX</b>	Kit of antivibration mounts for wall bracket installation
	<b>3DHWX</b>	Three-way valve for domestic hot water		<b>KSIPX</b>	Kit with wall fixing brackets
	<b>KCSX</b>	Secondary circuit kit (1-litre circuit breaker + pump)		<b>HID-TCBX</b>	White soft touch chronothermostat, with temperature control and management via App / Voice control
	<b>KIR2HLX</b>	2 zones: external kit, high temperature + low temperature (mixed)		<b>HID-TCNX</b>	Black soft touch chronothermostat, with temperature control and management via App / Voice control
	<b>KIRHX</b>	2 zones: external kit, high temperature		<b>SWCX</b>	Switch IoT to be combined with HID-TConnect, for managing the heat pump mode or switching the terminal units/radiant systems ON/ OFF
	<b>DIX</b>	1-litre circuit breaker			
	<b>DI50X</b>	50-litre circuit breaker (to exhaustion)			
	<b>DI22-50X</b>	50L circuit breaker (2 pairs of supply connectors / 2 pairs of return connectors)			
	<b>DI100X</b>	100-litre circuit breaker			
	<b>T1BX</b>	Probe for auxiliary heating source T1B			

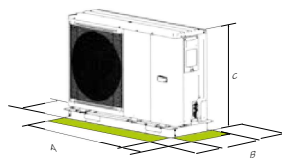
## configurations

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  
Right side: 500mm (2.1÷8.1) / 600mm (9.1÷14.1)

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

<b>Size (230M)</b>			<b>2.1</b>	<b>3.1</b>	<b>4.1</b>	<b>5.1</b>	<b>6.1</b>	<b>7.1</b>	<b>8.1</b>
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 <sub>2</sub> tons	0,95				1,18		
External diameters	Water	inch	1"					11/4"	

<b>Size (400TN)</b>			<b>6.1</b>	<b>7.1</b>	<b>8.1</b>	<b>9.1</b>	<b>10.1</b>	<b>12.1</b>	<b>14.1</b>
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 <sub>2</sub> tons	1,18			3,4			
External diameters	Water	inch	11/4"			11/4"			

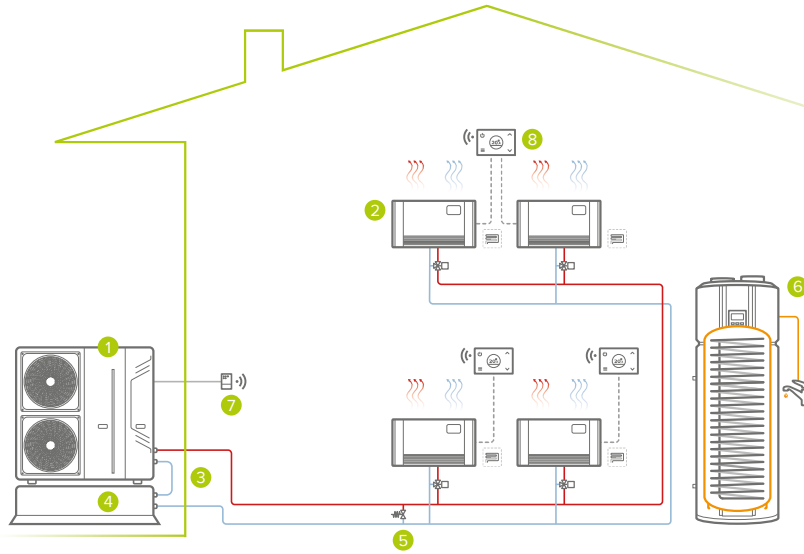
## technical data

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
	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
Cooling	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
Energy class				-	A++	A++	A++	A++	A++	A++	A++
Seasonal efficiency Medium climate	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
	ηs (seasonal output)			%	129	138	131	137	135	135	135
	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	
<b>Indoor unit</b>					<b>2.1</b>	<b>3.1</b>	<b>4.1</b>	<b>5.1</b>	<b>6.1</b>	<b>7.1</b>	<b>8.1</b>
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
<b>Operating range</b>											
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							
<b>Size (400TN)</b>					<b>6.1</b>	<b>7.1</b>	<b>8.1</b>	<b>9.1</b>	<b>10.1</b>	<b>12.1</b>	<b>14.1</b>
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
	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
Cooling	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
Energy class				-	A++	A++	A++	A++	A++	A+	A+
Seasonal efficiency Medium climate	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
	ηs (seasonal output)			%	135	133	133	125	126	123	123
	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	
<b>Outdoor unit</b>					<b>6.1</b>	<b>7.1</b>	<b>8.1</b>	<b>9.1</b>	<b>10.1</b>	<b>12.1</b>	<b>14.1</b>
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
<b>Operating range</b>											
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

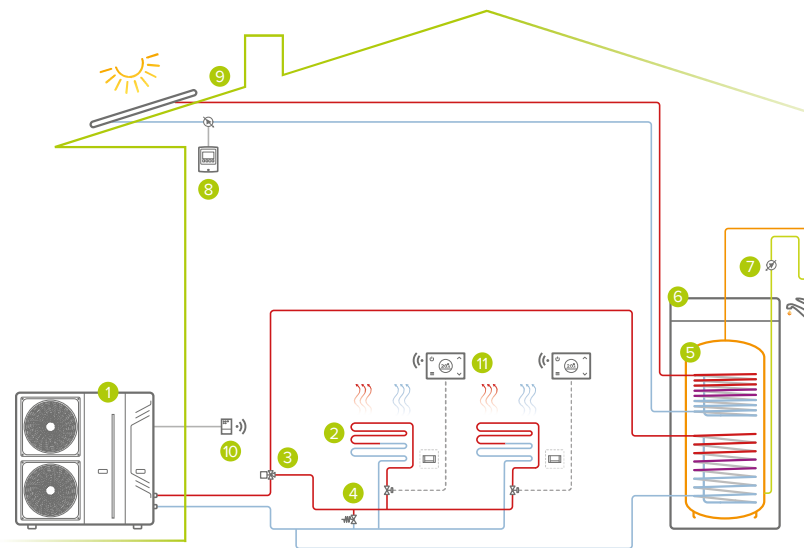
The Product complies with the European ErP Directive (EU Regulations 811/2013 - 813/2013 - 2016/2281).



**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)

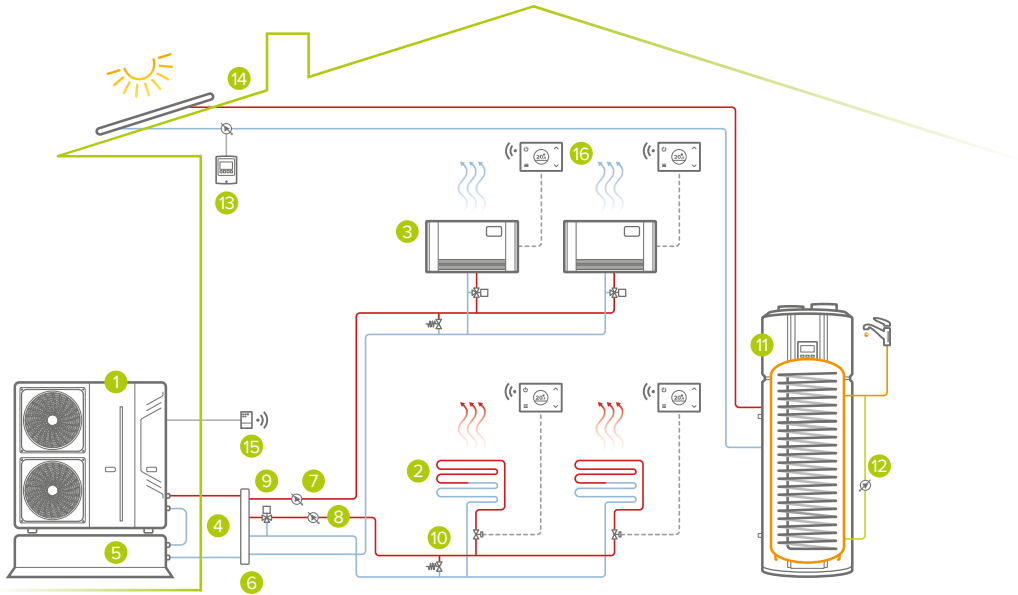
\*from external supply



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

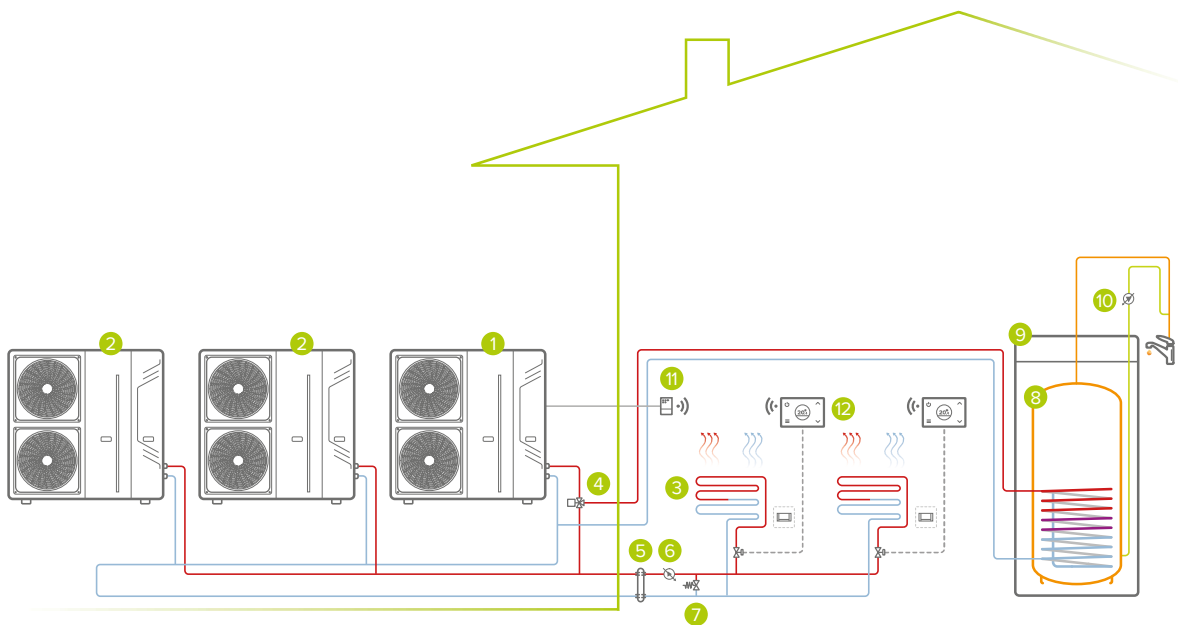
- 1 outdoor unit
- 2 heating/cooling area (fan coils / radiant)
- 3 3-way switching valve (optional)
- 4 bypass\*
- 5 DHW tank with solar predisposition (optional)
- 6 boiler kit connection QERAX (optional)
- 7 DHW recirculation pump\*
- 8 solar circulation kit (optional)
- 9 ELFSun solar thermal (optional)
- 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

HEAT PUMPS

