



AIR-TO-WATER PACKAGED MONOBLOC
HEAT PUMP FOR HEATING, COOLING AND
DOMESTIC HOT WATER PRODUCTION
ELFOEnergy Edge EVO 2.0



AIR CONDITIONING
AND AIR QUALITY
PARTNER

Inspiring Solutions since 1989

Edge EVO 2.0 - EXC

WiSAN-YME 1 S 2.1÷14.1

ENERGY SAVING



Solar integration
(optional - DHW tank)



Cascade



Smart Grid
ready



€-Switch

COMFORT



Heating
Cooling



DHW



Silent



High temperature

RELIABILITY



Backup heater
(optional)



Eurovent



Keymark

HEALTH



Eco-friendly
refrigerant



Renewable
energy

CONVENIENCE



Weekly
schedule



Boiler
integration

MANAGEMENT AND CONNECTIVITY



Potential-free
contact



User interface/
thermostat



Modbus
port



Wi-fi
Control



ELFOControl
management



Clivet Eye
monitoring

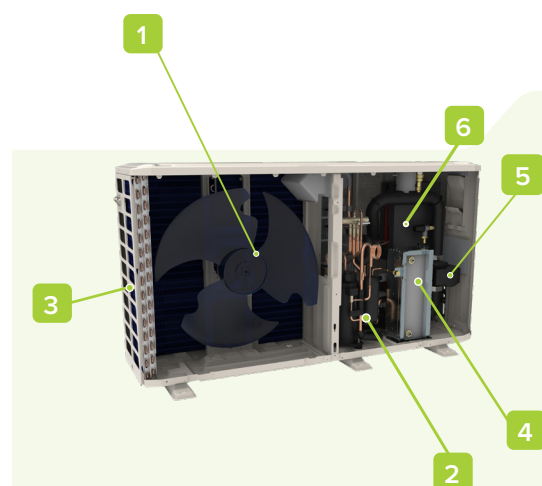


- ✓ Space saving: installed outdoors, no indoor unit is required
- ✓ Designed for harsh climates: excellent performance at low temperatures and optional 3 to 9kW auxiliary heaters
- ✓ High temperature distribution can be used: water up to 65°C
- ✓ Modular: combines up to 6 units in cascade for power 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.

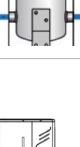
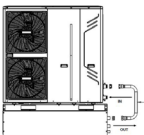
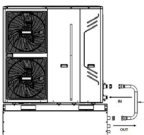


1. Inverter DC fan
2. Inverter DC twin-rotary compressor
3. Air-gas finned exchanger (blue fin treatment)
4. Gas/water plate exchanger
5. Inverter DC high efficiency pump
6. 4,8L system expansion tank

accessories available

	KTFLX	Hose kit for connection to the chiller/heat pump		DIX	1-litre circuit breaker
	FDMX	Magnetic dirt separator filter		DI50X	50-litre circuit breaker (to exhaustion)
	ACS200X	200-litre domestic hot water storage tank		KSAX	100-litre circuit breaker
	ACS300X	300-litre domestic hot water storage tank		T1BX	Probe for auxiliary heating source T1B
	ACS500X	500-litre domestic hot water storage tank		PCSX	Secondary circuit pump
	SCS08X	0.8 m² solar exchanger for flange installation (for ACS200X e ACS300X)		PCS2X	Oversized secondary circuit pump
	SCS12X	1.2 m² solar exchanger for flange installation (for ACS500X)		PRSX	DHW recirculation pump
	QERAMX	Electrical panel for single-phase heater connection on DHW storage tank		HID-TCBX	White soft touch chronothermostat, with temperature control and management via App / Voice control
	3DHWX	Three-way valve for domestic hot water		HID-TCNX	Black soft touch chronothermostat, with temperature control and management via App / Voice control
	KCSX	Secondary circuit kit (1-litre circuit breaker + pump)		SWCX	Switch IoT to be combined with HID-TConnect, for managing the heat pump mode or switching the terminal units/radiant systems ON/OFF
	KIR2HLX	2 zones: external kit, high temperature + low temperature (mixed)			
	KIRHX	2 zones: external kit, high temperature			

accessories available from June 2022

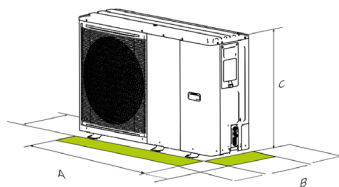
	VAGX	System freeze protection kit in the absence of electricity		IBHMX	single-phase back-up electric heater (2/4/6kW)
	ACS1000X	1000-litre domestic hot water storage tank		IBHTX	three-phase back-up electric heater (3/6/9kW)
	ACS10SX	1000L domestic hot water storage tank with double coil for solar thermal connection		DTX	Auxiliary condensate collection tray
	QERATX	Electrical panel for three-phase heater connection on DHW storage tank		APAVX	Kit of antivibration mounts for floor installation
	DI22-50X	50L circuit breaker (2 pairs of supply connectors / 2 pairs of return connectors)		AMMX	Kit of antivibration anti-seismic mounts for floor installation
	DI100X	100-litre circuit breaker		ASTFX	Kit of antivibration mounts for wall bracket installation
	TANKX	Buffer tank		KSIPX	Kit with wall fixing brackets
	KTCAMX	Piping kit for the connection to the buffer tank on supply water side			
	KTCARX	Piping kit for the connection to the buffer tank on return water side			

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



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)

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)		1.295x718x429			1.385x865x526			
Weight		kg	86		105		129		
		type/GWP	R-32 / 675						
Refrigerant charge		kg	1,4				1,75		
		CO2 tons	0,95				1,18		
External diameters	Water	inch	1"				11/4"		
Size (400TN)			6.1T	7.1T	8.1T	9.1	10.1	12.1	14.1
Dimensions	Length(A) x Height (C) x Depth(B)		1.385x865x526			1.129x1.558x440			
Weight		kg	144			177			
		type/GWP	R-32 / 675						
Refrigerant charge		kg	1,75				5		
		CO2 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	14,20
	EER		Nominal	-	5,50	4,80	5,05	4,55	3,95	3,61	3,61
	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	Heating 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	3,36	3,49	3,46	3,46	3,46
		ηs (seasonal output)		%	129	138	131	137	135	135	135
	Heating 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	5,21	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	4,8						
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)					6.1T	7.1T	8.1T	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
	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	14,20	18,50	23,00	27,00	31,00
	EER		Nominal	-	3,95	3,61	3,61	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	Heating 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		-	3,46	3,41	3,41	3,21	3,23	3,16	3,14
		ηs (seasonal output)		%	135	133	133	125	126	123	123
	Heating 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		-	4,72	4,62	4,62	4,61	4,54	4,50	4,20
		ηs (seasonal output)		%	186	182	182	181	179	177	165
Outdoor unit					6.1T	7.1T	8.1T	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	4,8						
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).

**ALWAYS READY FOR
THE FUTURE**

INSPIRING SOLUTIONS

For over 30 years of working on the design, manufacturing and distribution of air conditioning and handling systems, combining high efficiency with minimal environmental impact, Clivet has developed solutions to ensure sustainable comfort and the well-being of people and the environment.

Designing and developing year-round air conditioning solutions with innovative technologies are part of Clivet's DNA, which means the company has always been ready for the future.

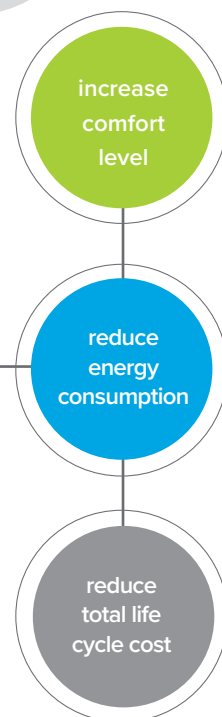


COMFORT FOR THE PLANET & PEOPLE

OUR VALUES

IN THE RESIDENTIAL, COMMERCIAL AND INDUSTRIAL SECTORS

Increasing comfort, saving energy and providing customers with the best value for the entire life cycle of the system: these are the values that inspire our systems for the residential, services and industrial sectors.



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or operate with the use of fluorinated greenhouse gases.

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SOLUTIONS TO ENSURE SUSTAINABLE COMFORT
AND THE WELL-BEING OF
PEOPLE AND THE ENVIRONMENT

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