elios COMFORT

EMC

Wall mounted Cold Climate heat pumps



UP TO 26.0 SEER2

UP TO 10.1 HSPF2-5

HEATING PERFORMANCE DOWN TO -30°C

R454B

INVERTER

HEAT+

Daily comfort for contemporary living

Elios ductless wall-mounted heat pumps provide versatile, top-notch solutions for contemporary working and living. Designed to adapt to seasonal variations and ensure comfort throughout the year, these units feature a stylish, modern appearance and offer various installation possibilities.

Heat pumps offer year-round home comfort

A heat pump serves as an all-in-one climate control solution, providing both heating and cooling to maintain optimal indoor temperatures throughout the year.

- Cooling Mode: Like a conventional air conditioner, the heat pump extracts heat from inside the home and releases it outdoors, cooling the indoor space.
- Heating Mode: Operating in reverse, the heat pump captures heat from the outside air and transfers it indoors to warm the home.

This dual functionality ensures efficient and consistent comfort in all seasons, with a single system.

Conquer Cold with HEAT+

Built for tough winters, EMC series keeps providing heat even when temperatures fall. Thanks to HEAT+ technology, systems deliver up to **100% of their rated capacity at -15°C**, and maintain a high Coefficient of Performance (COP) all the way down to -30°C—without spiking your energy bills.



Inverter driven compressor

Cutting-edge technology for optimal performance

Elios heat pumps utilize advanced Inverter Drive Technology to enhance energy efficiency by minimizing compressor on-off cycles.

Worry-free Reliability

Elios units are covered by a 6-year limited warranty on parts and compressor. An optional 10-year parts and compressor coverage is available for additional peace of mind.





Whether you choose the new touchscreen thermostat or compatible controller, you can trust your Elios contractor to help you choose the model best suited to your needs.



Touchscreen thermostat – Model ST1S42RW1 (Wi-Fi enabled)*
**Connection requires the addition of the MI3C1 mini-interface and 24V power supply*

Compatible controller – Model KJRSAALW1 (Wi-Fi enabled)



Heating & Cooling Performance

Cold-Climate Operation: Reliable heating down to -30°C

Heat+ Technology: Enhanced heating output at low outdoor temperatures

1% Compressor Frequency Control: for EMC Series models

100% Heating Capacity: At -15°C

Base Pan Heater: Prevents ice buildup and ensures efficient operation, especially in cold climates

Heating lockout: Systems can be modified to operate in cooling only mode through parameter settings.

Air Quality & Filtration

Variable-Speed Indoor Fan: Multiple airflow settings for customized comfort

Active Clean: Helps to prevent contaminant buildup such as mold and mildew on indoor coil

Turbo Mode: Quickly reaches set temperature in heat or cool mode

Double Filtration System:
Filter 1: Removes dust, pollen, pet hair
Filter 2: Carbon filter absorbs smoke, bacteria

Freeze Protection Mode: Heating setpoint to maintain 8°C to save money and protect your home while away

Control & Smart Technology

Wi-Fi Connectivity: Wireless capable with optional accessory

Do Not Disturb Mode: Disables display and sound alerts for night use

Built-In Auxiliary Heat Control: No extra module required providing flexible control of baseboard or auxiliary heat source

Follow Me Function: Adjusts comfort based on remote sensor location

Optional Wall Controller: Wired control option for all models

Smart Thermostat Compatible: Supports 24V interface for third-party thermostats

Silent Mode: Ultra-quiet performance ideal for light sleepers or babies

Safety & Reliability

Refrigerant Leak Detection Sensor (RDS): Auto shutdown and fan mode for safety

Auto-Restart Function: Resumes operation with saved settings after power failure

Goldfin plating: Anti-corrosion coating on the heat exchanger for protection against harsh elements

TU1 High Purity Copper Coils: Corrosion-resistant, longer system lifespan

Emergency Operation: Unit continues running with visible error code during a fault

Technical specifications

Indoor Unit			EWHMA09C2AS*	EWHMA12C2AS*	EWHMA15C2AS*	EWHMA18C2AS*	EWHMA24C2AS*	EWHMA33C2AS*
Outdoor Unit			ESHMA09C2AN*	ESHMA12C2AN*	ESHMA15C2AN*	ESHMA18C2AN*	ESHMA24C2AN*	ESHMA33C2AN*
Nominal Capacity		Btu/h	9000	12000	15000	18000	24000	33000
Cooling	Rated @ 95°F (35°C)	Btu/h	9000	12000	15500	18000	23000	33000
	Min. @ 95°F (35°C)		3600	3600	8400	8400	16800	15000
	Max. @ 95°F (35°C)		13500	13500	20200	20200	24500	35900
	SEER2		26	24	22.7	21.7	22.3	20
	EER2		15	13.2	14	13	12.5	11.7
Heating	Rated @ 47°F (8.3°C)	Btu/h	12000	12000	15500	18000	26000	36000
	Min. @ 47°F (8.3°C)		3800	3800	10300	10300	11800	19900
	Max. @ 47°F (8.3°C)		16000	16000	23000	23000	28100	38200
	Rated COP @ 47°F (8.3°C)		3.63	3.63	3.65	3.54	3.05	3.22
	HSPF2 (IV)		12.5	10.5	10.2	10.8	13.3	10.5
	HSPF2 (V)		10.1	8	8.5	8.8	9.6	8.6
Outdoor Temperature Operating Range	Cooling	°C	-30~50	-30~50	-30~50	-30~50	-30~50	-30~50
		°F	-22~122	-22~122	-22~122	-22~122	-22~122	-22~122
	Heating	°C	-30~24	-30~24	-30~24	-30~24	-30~24	-30~24
		°F	-22~75	-22~75	-22~75	-22~75	-22~75	-22~75
Power Supply		V/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
MOCP (Maximum breaker)		A	15	15	20	20	25	35
MCA		A	15	15	19	19	24.9	34
Indoor Unit Dimensions	Net (WxDxH)	in.	31.57x7.87x11.61	31.57x7.87x11.61	42.6x9.21x13.27	42.6x9.21x13.27	42.6x9.21x13.27	49.57x11.14x14.25
		mm	802x200x295	802x200x295	1082x234x337	1082x234x337	1082x234x337	1259x283x362
Indoor Unit Weight	Net	lb	18.96	18.96	30.42	30.42	30.86	43.21
		kg	8.6	8.6	13.8	13.8	14	19.6
Outdoor Unit Dimensions	Net (WxDxH)	in.	31.69x12.99x21.81	31.69x12.99x21.81	35.04x13.46x26.5	35.04x13.46x26.5	37.24x16.14x31.89	37.24x16.14x31.89
		mm	805x330x554	805x330x554	890x342x673	890x342x673	946x410x810	946x410x810
Outdoor Unit Weight	Net	lb	72.75	72.75	99.87	99.87	130.29	156.97
		kg	33	33	45.3	45.3	59.1	71.2
Indoor Unit Fan	Airflow (Turbo | High | Med. | Low | Silent)	CFM	383 | 294 | 194 | 153 | -	383 | 294 | 194 | 153 | -	759 | 500 | 441 | 371 | -	759 | 500 | 441 | 371 | -	759 | 589 | 459 | 383 | -	830 | 677 | 530 | 447 | -
	Noise (Turbo | High | Med. | Low | Silent)	dB(A)	44 | 39.5 | 33 | 24 | -	44.7 | 42 | 35.5 | 22.5 | -	54.5 | 45 | 40 | 24.5 | -	54.5 | 45 | 40 | 24.5 | -	54.5 | 49.5 | 43.5 | 34.5 | -	56 | 52.5 | 46.5 | 29.5 | -
	Moisture Removal	l/h	0.6	1.4	1.8	1.8	2.6	4.5
Outdoor Unit Fan	Max. Airflow	CFM	1471	1471	1765	1765	2235	2235
Outdoor Unit Noise	Max.	dB(A)	56	56	59	59	61	63.5
Refrigerant Pre-Charge		oz	35.27	35.27	55.38	55.38	63.49	87.13
Pre-Charge Length		ft	24.6	24.6	24.6	24.6	24.6	24.6
Line Set	Liquid Line	in.	1/4	1/4	1/4	1/4	3/8	3/8
	Gas Line	in.	3/8	3/8	1/2	1/2	5/8	3/4
	Maximum Length	ft	82	82	98.4	98.4	164	164
	Maximum Height Difference	ft	49.2	49.2	65.6	65.6	82	82
Refrigerant			R454B	R454B	R454B	R454B	R454B	R454B
ENERGY STAR			✓ 6.1	✓ 6.1	✓ 6.1	✓ 6.1	✓ 6.1	✓ 6.1
ENERGY STAR Cold Climate			✓ 6.1	✓ 6.1	✓ 6.1	✓ 6.1	✓ 6.1	✓ 6.1

Asterisk (*) in model number is placeholder for version suffix (1, 2, etc.). Do not include asterisk (*) in model inventory query.
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Performance at standard test conditions. Values shown are approximate and may have been rounded for ease of reference.
Refer to product submittals for complete specifications. Specifications subject to change without notice.
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ENERGY STAR | ENERGY STAR COLD CLIMATE | R454B

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Elios COMFORT

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