elios COMFORT

Central-Elios

Centrally ducted cold climate heat pump system



UP TO **18.3** SEER2

UP TO **8.6** HSPF2-5

HEATING PERFORMANCE DOWN TO **-30°C***

*From 69 to 76% of rated heating capacity at -30°C. Refer to capacity tables for more information.

R454B

INVERTER

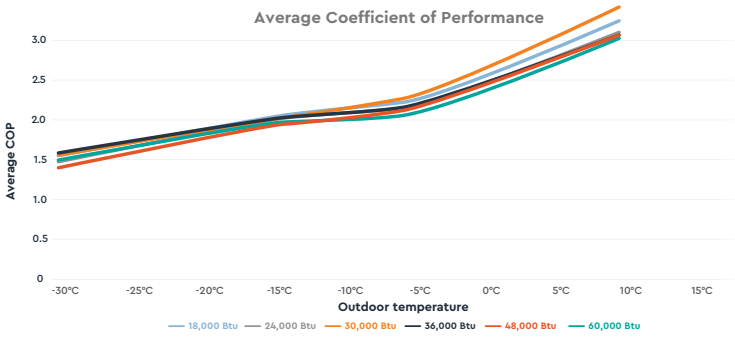
HEAT+

Everyday comfort for modern spaces

Elios products are expertly crafted for the Canadian market, providing optimal comfort and efficiency even in extreme temperatures. Central-Elios is a centrally ducted system, designed with advanced technology delivering unparalleled performance.

Proven Technology Means Big Results

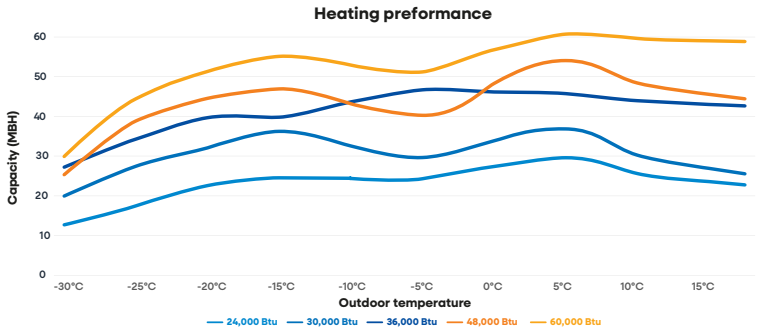
Central-Elios heat pumps feature HEAT+ and Inverter drive technology. Its outstanding operation has industry leading performance as well as recognition from organizations dedicated to the promotion of energy efficient appliances such as ENERGY STAR® and NEEP.



	24,000 BTU	30,000 BTU	36,000 BTU	48,000 BTU	60,000 BTU
-30°C	1.43	1.55	1.59	1.32	1.46
-15°C	2.03	2.04	2.04	1.9	1.92
-8,3°C	2.21	2.39	2.23	2.17	2.08
8,3°C	3.28	3.74	3.23	3.23	3.17

Conquer Cold with HEAT+

Built for tough winters, Central-Elios keeps providing heat even when temperatures fall. Thanks to HEAT+ technology, the system delivers **up to 100% of its rated capacity at -20°C**, and maintains a high Coefficient of Performance (COP) all the way down to -30°C—without spiking your energy bills.



NRCAN and the Government of Canada define the Coefficient of Performance (COP) of a heat pump as the ratio between the rate at which the heat pump transfers thermal energy (in kW), and the amount of electrical power required to do the pumping (in kW). For example, if a heat pump used 1kW of electrical energy to transfer 3 kW of heat, the COP would be 3.



Advanced Inverter Technology = Smarter Comfort

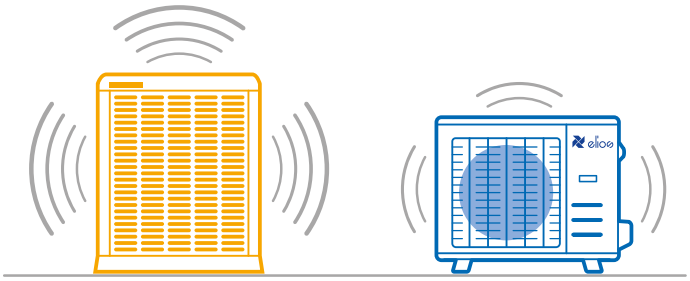


Central-Elios' advanced Inverter technology brings temperature control to the next level by allowing the compressor to operate at variable speeds, adjusting its output to precisely meet heating or cooling needs. For home and business owners, this means less energy use, extended system life, and quieter, more consistent performance.

Inverter driven compressor

Ultra-Quiet, Peaceful Living

Enjoy complete peace and quiet in your space. The Central-Elios indoor unit runs whisper-quiet, while the compact, side-discharge outdoor unit operates as low as 65 dB(A)—quiet enough to protect the calm of your outdoor areas.



Traditional central system: 73 dB(A)

Central-Elios system: 65 dB(A)



A Compact Powerhouse

The sleek side-discharge condenser is up to 40% smaller than top-discharge models—giving you more flexibility, less bulk, and a cleaner finish outside your home or business.

And thanks to the automatic reverse fan cycle, the unit stays cleaner and more efficient—blowing away debris from the condenser coil surface.

Gold Fin Heat Exchangers Provide Additional Corrosion Protection

The gold fin heat exchangers help guard against corrosion, extending the life of your system. And with dual voltage capability, the air handler can run on 115V—eliminating the need (and expense) of installing a dedicated 230V circuit.

Confidence That Lasts

Every Central-Elios system comes with a 1-year limited parts warranty and a 5-year compressor warranty. For even more peace of mind, upgrade to the optional 10-year warranty covering both.



Touchscreen thermostat – Model ST1S42RW1 (Wi-Fi enabled)



Compatible controller – Model KJRSAALW1 (Wi-Fi enabled)

Built-In Refrigerant Leak Detection

Our new heat pumps feature a built-in refrigerant safety sensor for added peace of mind. It continuously monitors for leaks and, if detected, instantly shuts down the compressor, keeps air safely circulating, and sends a service alert. This protection lets you enjoy the comfort and efficiency of next-generation refrigerants like R-454B, backed by 24/7 safety technology.

Year-Round Comfort You Can Count On

From -30°C winters to sweltering summer days, Central-Elios keeps your home or business perfectly comfortable in every season. Optional backup electric coils (3 to 25 kW) — so you can relax, no matter what the weather brings.



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.

Technical specifications

Indoor Unit			EAHMA24R4AS*	EAHMA30R4AS*	EAHMA36R4AS*	EAHMA48R4AS*	EAHMA60R4AS*
Outdoor Unit			ESHMA24R2AN*	ESHMA30R2AN*	ESHMB36R2AN*	ESHMA48R2AN*	ESHMA60R2AN*
Nominal Capacity		Btu/h	24000	30000	36000	48000	60000
Cooling	Rated @ 95°F (35°C)	Btu/h	23000	30000	36000	48000	54000
	Min. @ 95°F (35°C)		7200	12800	9700	15600	11400
	Max. @ 95°F (35°C)		27000	39000	42000	51000	56300
	SEER2		18.3	16.8	17.4	16.5	16
	EER2		11.7	11.7	11.7	10.5	10
Heating	Rated @ 47°F (8.3°C)	Btu/h	24000	34000	37000	50000	56000
	Min. @ 47°F (8.3°C)		7100	10300	11000	15500	8100
	Max. @ 47°F (8.3°C)		30000	38500	48000	57300	64500
	Rated COP @ 47°F (8.3°C)		3.33	3.65	3.6	3.4	3.1
	HSPF2 (IV)		10	10	10.3	9.5	9
	HSPF2 (V)		8	8.3	8.6	8	8
Outdoor Temperature Operating Range	Cooling	°C	-30~50	-30~50	-30~50	-30~50	-30~50
		°F	-22~122	-22~122	-22~122	-22~122	-22~122
	Heating	°C	-30~24	-30~24	-30~24	-30~24	-30~24
		°F	-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
MOCP (Maximum breaker)		A	20	30	35	40	40
MCA		A	19	29.5	32	38	40
MOCP (Indoor Unit; powered separately)		A	15	15	15	15	15
MCA (Indoor Unit; powered separately)		A	4	6	6	11	11
Alternate MCA @ 115V to Indoor Unit		A	5.5	8	8	14.5	14.5
Indoor Unit Dimensions	Net (WxDxH)	in.	17.52x21.02x45	21.02x21.02x49.02	21.02x21.02x49.02	24.49x21.02x52.99	24.49x21.02x52.99
		mm	445x534x1143	534x534x1245	534x534x1245	622x534x1346	622x534x1346
Indoor Unit Weight	Net	lb	105.6	128.97	129.41	162.92	162.92
		kg	47.9	58.5	58.7	73.9	73.9
Outdoor Unit Dimensions	Net (WxDxH)	in.	35.04x13.46x26.5	37.24x16.14x31.89	38.58x16.34x38.39	38.58x16.34x38.39	37.48x16.34x52.48
		mm	890x342x673	946x410x810	980x415x975	980x415x975	952x415x1333
Outdoor Unit Weight	Net	lb	102.29	164.02	204.15	201.06	242.95
		kg	46.4	74.4	92.6	91.2	110.2
Indoor Unit Fan	Airflow (Turbo | High | Med. | Low | Silent)	CFM	824 | 759 | 695 | 630 | -	989 | 895 | 806 | 712 | -	1189 | 1083 | 971 | 865 | -	1601 | 1472 | 1283 | 1095 | -	1807 | 1583 | 1360 | 1136 | -
	Noise (Turbo | High | Med. | Low | Silent)	dB(A)	- | 44 | 42 | 28 | -	47 | 46 | 43 | 27.5 | -	49 | 48 | 45.5 | 25.5 | -	- | 52 | 50 | 34 | -	54.5 | 52 | 49.5 | 34.5 | -
	Moisture Removal	l/h	2.05	2.77	3.4	3.85	5.87
	External Static Pressure Range	in. wc	0-0.8	0-0.8	0-0.8	0-0.8	0-0.8
Outdoor Unit Fan	Max. Airflow	CFM	1766	3002	3002	3037	2649
Outdoor Unit Noise	Max.	dB(A)	60	60.5	62.5	65	65
Refrigerant Pre-Charge		oz	74.07	105.82	126.98	134.04	183.42
Pre-Charge Length		ft	24.6	24.6	24.6	24.6	24.6
Line Set	Liquid Line	in.	3/8	3/8	3/8	3/8	3/8
	Gas Line	in.	3/4	3/4	3/4	3/4	3/4
	Maximum Length	ft	164	164	246	246	246
	Maximum Height Difference	ft	82	82	98.4	98.4	98.4
Refrigerant			R454B	R454B	R454B	R454B	R454B
ENERGY STAR			✓ 6.1	✓ 6.1	✓ 6.1	-	-
ENERGY STAR Cold Climate			✓ 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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Canadian Independent Contractor

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