elios COMFORT

Central-Elios

ADD-ON COIL SYSTEM

Designed for both new and retrofit installations - electric or hybrid (fossil fuel)



UP TO **16.1** SEER2

UP TO **8.2** HSPF2-5

HEATING PERFORMANCE DOWN TO **-30°C**

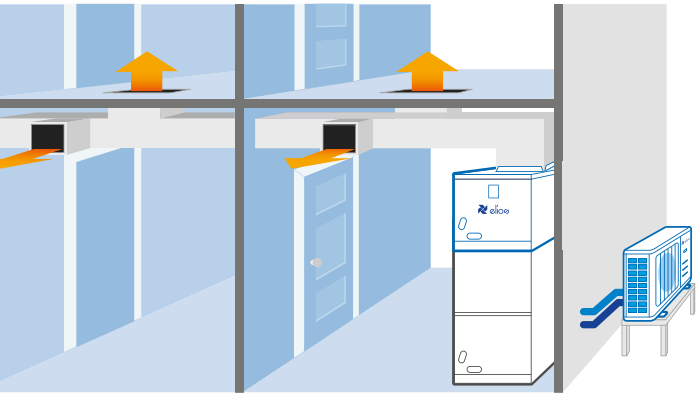
R454B

INVERTER

HEAT+

Trusted comfort for where you live

Elios products are designed for the Canadian climate with your comfort and well-being in mind. A Central-Elios heat pump system maintains the serenity of your home by keeping you cozy all year round in a whisper-quiet, energy efficient manner.



A2L-Ready. Seamlessly Integrated

Unlock the full potential of your variable speed heat pump. Our advanced A-Coil interface is designed to seamlessly integrate with variable-speed compressors, enabling precise modulation and optimal system performance. Unlike traditional 24V control systems, which offer only basic on/off functionality, our two-way communicating interface allows real-time dialogue between indoor and outdoor components—ensuring your system always runs at the ideal capacity for comfort and efficiency. Benefits include enhanced humidity control, significant energy savings and extended system lifespan.



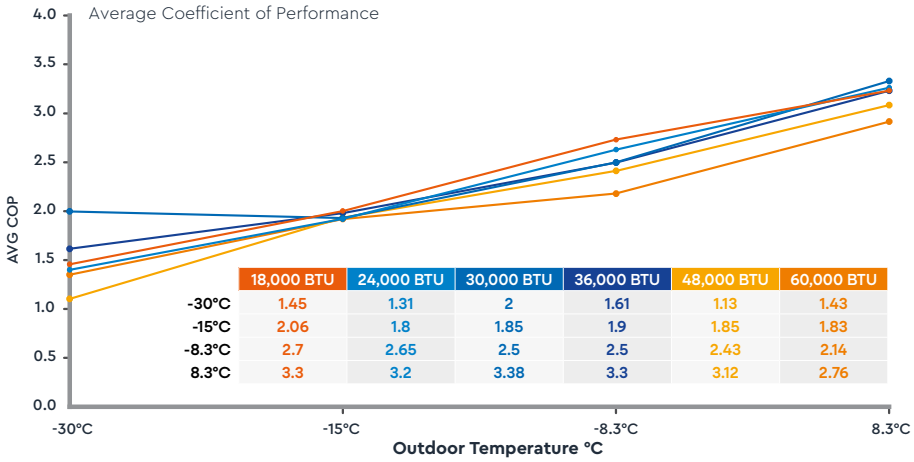
Technical specifications

Indoor Unit			GCHMA24RAAS*	GCHMA24RBAS*	GCHMA24RAAS*	GCHMA24RBAS*	GCHMA36RBAS*	GCHMA36RCAS*	GCHMA36RBAS*	GCHMA36RCAS*
Outdoor Unit			ESHMA18R2AN*	ESHMA18R2AN*	ESHMA24R2AN*	ESHMA24R2AN*	ESHMA30R2AN*	ESHMA30R2AN*	ESHMB36R2AN*	ESHMB36R2AN*
Nominal Capacity		Btu/h	18000	18000	24000	24000	30000	30000	36000	36000
Cooling	Rated @ 95°F (35°C)	Btu/h	18000	18000	24000	24000	29000	29000	36000	36000
	Min. @ 95°F (35°C)		5600	5600	7900	7900	13900	13900	12100	12100
	Max. @ 95°F (35°C)		22800	22800	27600	27600	36000	36000	41000	41000
	SEER2		16.1	16.1	16	16	16	16	15.8	15.8
	EER2		11.7	11.7	10	10	11	11	10.7	10.7
Heating	Rated @ 47°F (8.3°C)	Btu/h	19000	19000	25000	25000	30000	30000	38000	38000
	Min. @ 47°F (8.3°C)		5600	5600	6800	6800	13000	13000	11900	11900
	Max. @ 47°F (8.3°C)		22800	22800	30000	30000	39000	39000	46000	46000
	Rated COP @ 47°F (8.3°C)		3.29	3.3	3.2	3.2	3.39	3.39	3.3	3.3
	HSPF2 (IV)		9.5	9.5	9.5	9.5	9.6	9.6	9.4	9.4
	HSPF2 (V)		7.8	7.8	7	7	8.2	8.2	7.9	7.9
Outdoor Temperature Operating Range	Cooling	°C	-30~50	-30~50	-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	-22~122	-22~122
	Heating	°C	-30~24	-30~24	-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	-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	208-230/1/60	208-230/1/60
MOCP (Maximum breaker)		A	20	20	20	20	30	30	35	35
MCA		A	17	17	19	19	29.5	29.5	32	32
Indoor Unit Dimensions	Net (WxDxH)	in.	14.49x20.98x17.99	17.52x21x17.99	14.49x20.98x17.99	17.52x21x17.99	17.52x21x23.58	21.02x21x24.06	17.52x21x23.58	21.02x21x24.06
		mm	368x533x457	445x533.4x457	368x533x457	445x533.4x457	445x533.4x599	534x533.4x611	445x533.4x599	534x533.4x611
Indoor Unit Weight	Net	lb	42	41.89	42	41.89	59.52	64.37	59.52	64.37
		kg	19	19	19	19	27	29.2	27	29.2
Outdoor Unit Dimensions	Net (WxDxH)	in.	35.04x13.46x26.5	35.04x13.46x26.5	35.04x13.46x26.5	35.04x13.46x26.5	37.24x16.14x31.89	37.24x16.14x31.89	38.58x16.34x38.39	38.58x16.34x38.39
		mm	890x342x673	890x342x673	890x342x673	890x342x673	946x410x810	946x410x810	980x415x975	980x415x975
Outdoor Unit Weight	Net	lb	101.41	101.41	102.29	102.29	164.02	164.02	204.15	204.15
		kg	46	46	46.4	46.4	74.4	74.4	92.6	92.6
Outdoor Unit Fan	Max. Airflow	CFM	1766	1766	1766	1766	3002	3002	3002	3002
Outdoor Unit Noise	Max.	dB(A)	58	58	60	60	62	62	64	64
Refrigerant Pre-Charge		oz	74.07	74.07	74.07	74.07	105.82	105.82	126.98	126.98
Pre-Charge Length		ft	24.6	24.6	24.6	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	3/8	3/8	3/8
	Gas Line	in.	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
	Maximum Length	ft	98	98	164	164	164	164	246	246
	Maximum Height Difference	ft	65.6	65.6	82	82	82	82	98.4	98.4
Refrigerant			R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B
ENERGY STAR			✓ 6.1	✓ 6.1	-	-	✓ 6.1	✓ 6.1	-	-
ENERGY STAR Cold Climate			✓ 6.1	✓ 6.1	✓ 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. Images shown are for illustration purposes only and may not represent the exact product model or configuration available. 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. The ENERGY STAR name and the ENERGY STAR symbol are trademarks registered in Canada.

Optimized Efficiency and Performance

Central-Elios heat pumps were built for epic performance thanks to energy-saving HEAT+ and Inverter drive technology. Its outstanding operation has earned best-in-class ranking as well as recognition from organizations dedicated to the promotion of energy efficient appliances such as ENERGY STAR* and NEEP.



	18,000 BTU	24,000 BTU	30,000 BTU	36,000 BTU	48,000 BTU	60,000 BTU
-30°C	1.45	1.31	2	1.61	1.13	1.43
-15°C	2.06	1.8	1.85	1.9	1.85	1.83
-8.3°C	2.7	2.65	2.5	2.5	2.43	2.14
8.3°C	3.3	3.2	3.38	3.3	3.12	2.76

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.

HEAT+

Central-Elios stands unrivaled against extreme cold weather. Its HEAT+ technology ensures peak heating performance even at low temperatures, while significantly reducing energy consumption. Central-Elios Series units maintain **up to 100% of their rated capacity at -20°C**, and sustain a high Coefficient of Performance (COP) in severe cold, down to -30°C.

GCHMA48RCAS*	GCHMA60RDAS*	GUHMA24RAAS*	GUHMA24RBAS*	GUHMA24RAAS*	GUHMA24RBAS*	GUHMA36RBAS*	GUHMA36RCAS*	GUHMA36RBAS*	GUHMA36RCAS*
ESHMA48R2AN*	ESHMA60R2AN*	ESHMA18R2AN*	ESHMA18R2AN*	ESHMA24R2AN*	ESHMA24R2AN*	ESHMA30R2AN*	ESHMA30R2AN*	ESHMB36R2AN*	ESHMB36R2AN*
48000	60000	18000	18000	24000	24000	30000	30000	36000	36000
45000	47000	18000	18000	24000	24000	29000	29000	36000	36000
16000	17600	5600	5600	7900	7900	13900	13900	12100	12100
48000	53400	22800	22800	27600	27600	36000	36000	41000	41000
15.2	15.2	16.1	16.1	16	16	16	16	15.8	15.8
10	10	11.7	11.7	10	10	11	11	10.7	10.7
48000	58000	19000	19000	25000	25000	30000	30000	38000	38000
16000	21200	5600	5600	6800	6800	13000	13000	11900	11900
50000	59000	22800	22800	30000	30000	39000	39000	46000	46000
3.12	2.76	3.29	3.3	3.2	3.2	3.39	3.39	3.3	3.3
8.8	8.1	9.5	9.5	9.5	9.5	9.6	9.6	9.4	9.4
7.4	6.8	7.8	7.8	7	7	8.2	8.2	7.9	7.9
-30~50	-30~50	-30~50	-30~50	-30~50	-30~50	-30~50	-30~50	-30~50	-30~50
-22~122	-22~122	-22~122	-22~122	-22~122	-22~122	-22~122	-22~122	-22~122	-22~122
-30~24	-30~24	-30~24	-30~24	-30~24	-30~24	-30~24	-30~24	-30~24	-30~24
-22~75	-22~75	-22~75	-22~75	-22~75	-22~75	-22~75	-22~75	-22~75	-22~75
208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
40	40	20	20	20	20	30	30	35	35
38	40	17	17	19	19	29.5	29.5	32	32
21.61x21.5x27.8	24.49x21x27.99	13.07x22.64x16.54	16.13x22.53x15.78	13.07x22.64x16.54	16.13x22.53x15.78	16.13x22.68x20.14	19.65x22.74x20.4	16.13x22.68x20.14	19.65x22.74x20.4
549x546x706	622x533.4x711	332x575x420	409.67x572.31x400.81	332x575x420	409.67x572.31x400.81	409.67x576.03x511.55	499.07x577.51x518.1	409.67x576.03x511.55	499.07x577.51x518.1
96.78	81.13	17.2	17.82	17.2	17.82	27.28	27.72	27.28	27.72
43.9	36.8	7.8	8.1	7.8	8.1	12.4	12.6	12.4	12.6
38.58x16.34x38.39	37.48x16.34x52.48	35.04x13.46x26.5	35.04x13.46x26.5	35.04x13.46x26.5	35.04x13.46x26.5	37.24x16.14x31.89	37.24x16.14x31.89	38.58x16.34x38.39	38.58x16.34x38.39
980x415x975	952x415x1333	890x342x673	890x342x673	890x342x673	890x342x673	946x410x810	946x410x810	980x415x975	980x415x975
201.06	242.95	101.41	101.41	102.29	102.29	164.02	164.02	204.15	204.15
91.2	110.2	46	46	46.4	46.4	74.4	74.4	92.6	92.6
3037	2649	1766	1766	1766	1766	3002	3002	3002	3002
65	64	58	58	60	60	62	62	64	64
134.04	183.42	74.07	74.07	74.07	74.07	105.82	105.82	126.98	126.98
24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6
3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
246	246	98	98	164	164	164	164	246	246
98.4	98.4	65.6	65.6	82	82	82	82	98.4	98.4
R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B
-	-	✓ 6.1	✓ 6.1	-	-	✓ 6.1	✓ 6.1	-	-
✓ 6.1	✓ 6.1	✓ 6.1	✓ 6.1	✓ 6.1	✓ 6.1	✓ 6.1	✓ 6.1	✓ 6.1	✓ 6.1

ENERGY STAR COLD CLIMATE HEAT+ R454B

Advanced Inverter Technology = Smarter Comfort

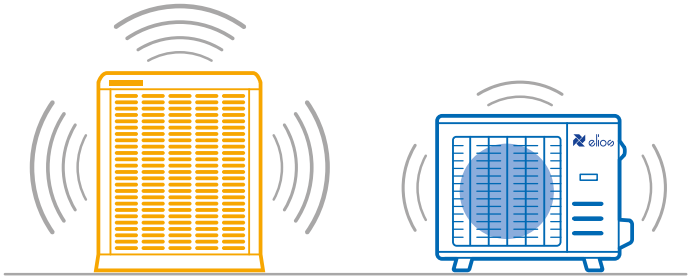


Central-Elios' advanced Inverter technology brings temperature control to the next level by allowing the compressor to operate at variable speeds, adjusting its output to precisely meet heating or cooling needs. For home and business owners, this means less energy use, extended system life, and quieter,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

Stress-Free Performance

Elios heat pumps include a 6-year limited warranty on parts and compressor. An optional 10-year warranty covering both parts and compressor is available, offering additional peace of mind and reliability assurance.



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—by blowing away debris from the condenser coil surface.

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.

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)



Compatible controller – Model KJRSAALW1 (Wi-Fi enabled)

Elios HVAC products are supported by The Master Group, Canada's largest independently-owned HVAC-R distributor. The Master Group has always distinguished itself by its extensive inventory, technical expertise and exceptional customer service.

Canadian Independent Contractor

Elios_Central-EliosADDON_202611_EN_V03

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