



**elios**  
COMFORT



# EBC

**Essential Tier  
Wall Mounted  
Heat Pumps**



UP TO  
**22.3**  
SEER2

UP TO  
**7.2**  
HSPF2-5

HEATING  
PERFORMANCE  
DOWN TO  
**-20°C**



# Essential performance for reliable comfort

The EBC series of ductless wall-mounted heat pumps offers a practical comfort solution for everyday living. Ideally suited as an efficiency problem solver, the EBC unit delivers reliable heating and cooling performance in areas where traditional systems fall short. Whether you're upgrading a single room, finishing a basement, or looking to supplement an existing HVAC system, the EBC heat pump provides seasonal comfort with straightforward installation and user-friendly controls.

Designed with value in mind, it's the smart choice for homeowners seeking energy savings without sacrificing performance.

## Innovative, Affordable Comfort

EBC heat pumps represent the latest evolution in our entry-level lineup—now offering enhanced efficiency, improved performance, and greater temperature control. With 100-step incremental modulation, the system precisely adjusts output to match real-time demand, delivering consistent comfort while maximizing energy savings. This improved efficiency delivers **up to 100% cooling capacity up to 40°C** in the summer and comfort heating in the spring and fall.

## Cutting-edge technology for optimal performance

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



Inverter driven compressor

## Worry-free Reliability

Elios units are covered by a 1-year limited warranty on parts and 5-year compressor. An optional 10-year parts and compressor coverage is available for additional peace of mind.



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

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.



Compatible controller –  
Model KJRSAALW1 (Wi-Fi enabled)







## Heating & Cooling Performance



### Cold-Climate Operation:

Reliable heating down to -20°C



**1% Compressor Frequency Control:** for EMC Series models



**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



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



**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

# Technical specifications

| Indoor model                              |                                                  |         | EWHBA12C1AN*                      | EWHBA09C2AN*                       | EWHBA12C2AN*                     | EWHBA18C2AN*                       | EWHBA24C2AN*                       | EWHBA30C2AS*                       | EWHBA36C2AS*                       |
|-------------------------------------------|--------------------------------------------------|---------|-----------------------------------|------------------------------------|----------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Outdoor model                             |                                                  |         | ESHBA12C1AN*                      | ESHBA09C2AN*                       | ESHBA12C2AN*                     | ESHBA18C2AN*                       | ESHBA24C2AN*                       | ESHBA30C2AN*                       | ESHBA36C2AN*                       |
| Cooling                                   | Capacity (range)                                 | Btu/h   | 12,000<br>(3,800-12,600)          | 9,000<br>(2,900-10,500)            | 12,000<br>(2,700-13,800)         | 18,000<br>(2,600-18,600)           | 24,000<br>(6,200-24,700)           | 30,000<br>(6,800-34,000)           | 36,000<br>(6,600-36,800)           |
|                                           | EER2                                             |         | 10                                | 12.6                               | 10.8                             | 11.5                               | 9.6                                | 12                                 | 9.3                                |
|                                           | SEER2                                            |         | 21.3                              | 21.6                               | 21.3                             | 20.2                               | 18.5                               | 22.3                               | 19.5                               |
| Heating                                   | Capacity (range)                                 | Btu/h   | 12,000<br>(2,730-12,500)          | 10,000<br>(2,400-11,200)           | 12,000<br>(4,200-14,100)         | 18,800<br>(6,100-19,200)           | 24,000<br>(11,900-27,200)          | 30,000<br>(12,300-32,200)          | 36,000<br>(11,400-44,000)          |
|                                           | COP at 8.3°C                                     |         | 3.15                              | 3.27                               | 3.34                             | 3.08                               | 3.22                               | 3.03                               | 2.95                               |
|                                           | HSPF2 Region V (Region IV)                       |         | 6.7 (8.7)                         | 7.2 (9.4)                          | 7 (9.2)                          | 7 (9.1)                            | 7.1 (9)                            | 7 (9)                              | 7 (9.1)                            |
| Max. fuse/breaker                         |                                                  | A       | 20                                | 15                                 | 15                               | 20                                 | 20                                 | 30                                 | 35                                 |
| Power supply                              |                                                  | V/Ph/Hz | 115V/1Ph/60Hz                     | 208-230V/1Ph/60Hz                  | 208-230V/1Ph/60Hz                | 208-230V/1Ph/60Hz                  | 208-230V/1Ph/60Hz                  | 208-230V/1Ph/60Hz                  | 208-230V/1Ph/60Hz                  |
| Indoor air flow<br>(Turbo\Hi\Mi\Lo\Si)    |                                                  | m³/h    | 600\500\400\<br>300\220           | 520\420\300\<br>240\(\n/a)         | 590\500\330\<br>260\(\n/a)       | 800\680\560\<br>460\(\n/a)         | 1240\930\680\<br>560\(\n/a)        | 1480\1100\760\<br>560\(\n/a)       | 1480\1150\760\<br>560\(\n/a)       |
|                                           |                                                  | CFM     | 353.2\294.3\235.4\<br>176.6\129.5 | 306.1\247.2\176.6\<br>141.3 (\n/a) | 347.3\294.3\194.2\<br>153\(\n/a) | 470.9\400.2\329.6\<br>270.8\(\n/a) | 729.9\547.4\400.2\<br>329.6\(\n/a) | 871.1\647.5\447.3\<br>329.6\(\n/a) | 871.1\676.9\447.3\<br>329.6\(\n/a) |
| Indoor noise level<br>(Turbo\Hi\Mi\Lo\Si) |                                                  | dB(A)   | 45\41\37\27.5\18.5                | 43\38.5\33\24\19.5                 | 46\41\35\24\18.5                 | 49\45\38\23\19                     | 54\46\41\28\22                     | 56.5\52\45\36\22                   | 57\51\45\33.5\27.5                 |
| Indoor unit                               | Dimension (WxDxH)                                | mm      | 802×200×295                       | 729×200×292                        | 802×200×295                      | 971×228×321                        | 1082×234×337                       | 1259×283×362                       | 1259×283×362                       |
|                                           |                                                  | in      | 31.57x7.87x11.61                  | 28.70 x 7.87 x 11.50               | 31.57x7.87x11.61                 | 38.23 x 8.98 x 12.64               | 42.60 x 9.21 x 13.27               | 49.57 x 11.14 x 14.25              | 49.57 x 11.14 x 14.25              |
|                                           | Net weight                                       | kg      | 8.8                               | 8.2                                | 8.6                              | 11.5                               | 13.9                               | 19.7                               | 19.7                               |
|                                           |                                                  | lb      | 19.4                              | 18.08                              | 18.96                            | 25.35                              | 30.64                              | 43.43                              | 43.43                              |
| Outdoor noise level                       |                                                  | dB(A)   | 52.5                              | 53.5                               | 53                               | 58                                 | 62                                 | 61.5                               | 63                                 |
| Outdoor unit                              | Dimension (WxDxH)                                | mm      | 765×303×555                       | 765×303×555                        | 765×303×555                      | 805×330×554                        | 890×342×673                        | 946×410×810                        | 946×410×810                        |
|                                           |                                                  | in      | 30.12×11.93×21.85                 | 30.12×11.93×21.85                  | 30.12×11.93×21.85                | 31.69×12.99×21.81                  | 35.04×13.46×26.50                  | 37.24×16.14×31.89                  | 37.24×16.14×31.89                  |
|                                           | Net weight                                       | kg      | 27.8                              | 24.6                               | 26.8                             | 32.8                               | 42.9                               | 64.8                               | 68.2                               |
|                                           |                                                  | lb      | 61.29                             | 54.23                              | 59.08                            | 72.31                              | 94.58                              | 142.86                             | 150.35                             |
| Précharge réfrigérant                     |                                                  | oz (kg) | 24.34 (0.69)                      | 21.52 (0.61)                       | 24.6 (0.7)                       | 40.57 (1.15)                       | 53.62 (1.52)                       | 84.66 (2.4)                        | 112.88 (3.2)                       |
| Refrigerant piping                        | Liquid side                                      | in (mm) | 1/4 (6.35)                        | 1/4 (6.35)                         | 1/4 (6.35)                       | 1/4 (6.35)                         | 3/8 (9.52)                         | 3/8 (9.52)                         | 3/8 (9.52)                         |
|                                           | Gas side                                         | in (mm) | 3/8 (9.52)                        | 3/8 (9.52)                         | 3/8 (9.52)                       | 1/2 (12.7)                         | 5/8 (15.9)                         | 5/8 (15.9)                         | 5/8 (15.9)                         |
|                                           | Max. refrigerant pipe length                     | ft (m)  | 82 (25)                           | 82 (25)                            | 82 (25)                          | 98.4 (30)                          | 164 (50)                           | 164 (50)                           | 164 (50)                           |
|                                           | Max. difference in level                         | ft (m)  | 49.20 (15)                        | 49.20 (15)                         | 49.20 (15)                       | 65.6 (20)                          | 82 (25)                            | 82 (25)                            | 82 (25)                            |
| Moisture removal                          |                                                  | L/h     | 1.3                               | 0.9                                | 1.4                              | 2.5                                | 3                                  | 3.6                                | 5.1                                |
| Included controller type                  |                                                  |         | Remote Control                    | Remote Control                     | Remote Control                   | Remote Control                     | Remote Control                     | Remote Control                     | Remote Control                     |
| Outdoor                                   | Outdoor temperature range of operation (cooling) | °C (°F) | -15~50 (5-122)                    | -15~50 (5-122)                     | -15~50 (5-122)                   | -15~50 (5-122)                     | -15~50 (5-122)                     | -25~50 (-13-122)                   | -25~50 (-13-122)                   |
|                                           | Outdoor temperature range of operation (heating) | °C (°F) | -20~24 (-4~75)                    | -20~24 (-4~75)                     | -20~24 (-4~75)                   | -20~24 (-4~75)                     | -20~24 (-4~75)                     | -25~24 (-13~75)                    | -25~24 (-13~75)                    |
| Refrigerant                               |                                                  |         | R454B                             | R454B                              | R454B                            | R454B                              | R454B                              | R454B                              | R454B                              |
| ENERGY STAR® V6.1                         |                                                  |         | X                                 | ✓                                  | X                                | ✓                                  | X                                  | ✓                                  | X                                  |
| ENERGY STAR® V6.1 Cold Climate            |                                                  |         | ✓                                 | ✓                                  | ✓                                | ✓                                  | ✓                                  | ✓                                  | ✓                                  |

Asterisk (\*) in model number is a placeholder for version suffix (1, 2, etc.). Do not include asterisk (\*) in model inventory query. Compatibility unchanged across versions unless otherwise noted.  
 Product specifications may change without notice. Performance at standard test conditions.  
 The ENERGY STAR® name and the ENERGY STAR symbol are trademarks registered in Canada by the United States Environmental Protection Agency.



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

