



RotaClimate

POLAR BEAR 

24.000BTU | 42.000BTU | 48.000BTU



Our route is  
sustainable  
future.





A++

POLAR BEAR



## Air conditioning has never looked so stylish

Thanks to Rota Climate's cutting-edge technology, you're in full control of your space's climate.



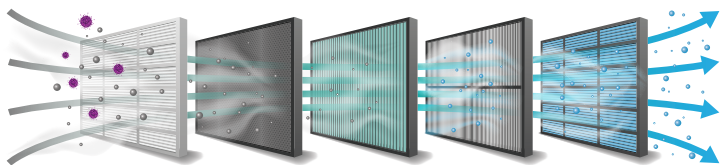
With 24,000, 42,000 and 48,000 BTU options, the big brother of the Polar range is here for you





## BioFilter Feature

The BioFilter reduces allergens and microbes in the air, providing a cleaner, safer and 'bio-safe' living space.



## Timer

A feature that allows the unit to switch on or off automatically at a set time, offering both comfort and energy savings.



## Turbo Mode

Achieve maximum airflow for super-cooling; with a single press of the TURBO button, the unit operates at maximum fan and compressor speeds to quickly reach the set temperature with cold air.

## 220V Single-Phase Power

Operates on a 220V power supply, allowing you to use it comfortably at home or in the office.



# Key Features



## Energy Class

Inverter Technology is a system that enhances efficiency by adjusting the motor's operating frequency.



## BioFilter Feature

The BioFilter reduces allergens and microbes in the air, creating a cleaner, safer and 'bio-safe' living environment.



## Ultra-Quiet

With an ultra-quiet operation of 34 dB, silence is now an accessible luxury.



## Turbo Mode

Delivers more powerful performance at the touch of a button. It cools or heats the room quickly. You have more time for yourself.



## Sleep Mode

Select the sleep mode before bed using the designated button to ensure a comfortable night's sleep, preventing excessive heating or cooling throughout the night.



## R32 Refrigerant Gas

The energy-saving R32 refrigerant is kind to your wallet too.



## Operation at -15 °C

Even in extreme cold, it never lets you down with flawless performance.



## Vertical Airflow

Instant cooling thanks to its superior performance and vertical airflow feature.



## 220V Single-Phase Power

Allows you to use it comfortably at home or in the office with a 220V power supply.



## Timer

A feature that automatically turns the unit on or off at a set time, offering both comfort and energy savings.



  
POLAR BEAR

# The big brother of the Poles

24.000BTU | 42.000BTU | 48.000BTU





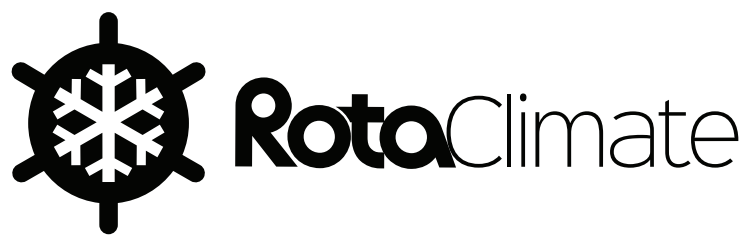

**A++**

| Model                               |                              |          | Polar 24                    | Polar 42                    | Polar 48                    |
|-------------------------------------|------------------------------|----------|-----------------------------|-----------------------------|-----------------------------|
| Indoor code                         |                              |          | 22022211003867              | 22022211003127              | 22022211002687              |
| Outdoor code                        |                              |          | 22022216002407              | 22022216002227              | 22022216001747              |
| Power supply                        |                              | V-Ph-Hz  | 220-240V,1Ph,50HZ           | 220-240V,1Ph,50HZ           | 220-240V,1Ph,50Hz           |
| Cooling (Standard conditions)       | Capacity                     | Btu/h    | 24500(7200~28000)           | 41300(10000~42000)          | 48000(12000~52400)          |
|                                     | Input                        | W        | 2100(200~2919)              | 4400(680~4600)              | 4900 (900~5700)             |
|                                     | Current                      | A        | 9.3(1.5~12.79)              | 19.5(3.1~20.4)              | 22 (5.2~25)                 |
|                                     | EER                          | W/W      | 3.42                        | 2.75                        | 2.87                        |
| Heating (Standard conditions)       | Capacity                     | Btu/h    | 27500(6000~33000)           | 45000(11500~47000)          | 55000(14000~61000)          |
|                                     | Input                        | W        | 2150(250~2920)              | 3900(750~4400)              | 5100 (1000~5700)            |
|                                     | Current                      | A        | 9.5(1.7~12.79)              | 17.0(3.4~19.5)              | 22.5 (5.2~25.0)             |
|                                     | COP                          | W/W      | 3.75                        | 3.38                        | 3.16                        |
| Seasonal Cooling                    | Pdesigngc                    | kW       | 7.1                         | 12.1                        | 14.1                        |
|                                     | SEER                         | W/W      | 7.0                         | 5.8                         | 6.1                         |
|                                     | Energy Efficiency Class      |          | A++                         | A+                          | A++                         |
| Heating(Average )                   | Pdesignh                     | kW       | 5.4                         | 8.4                         | 11.0                        |
|                                     | SCOP                         | W/W      | 4.6                         | 4.2                         | 4.0                         |
|                                     | Energy Efficiency Class      |          | A++                         | A+                          | A+                          |
| Heating(Warmer )                    | Pdesignh                     | kW       | 6.0                         |                             |                             |
|                                     | SCOP                         |          | 4.6                         |                             |                             |
|                                     | Energy Efficiency Class      | W/W      | A++                         |                             |                             |
|                                     | Tbiv                         | °C       | 2                           | -7                          | -7                          |
| ToI                                 |                              | °C       | -15                         | -15                         | -15                         |
| Max. input consumption              |                              | W        | 4800                        | 5000                        | 6900                        |
| Max. current                        |                              | A        | 20                          | 22.5                        | 29.0                        |
| Starting current                    |                              | A        |                             | /                           | /                           |
| Compressor                          | Type                         |          | Rotary                      | Rotary                      | Rotary                      |
| Indoor air flow (Hi/Mi/Lo)          |                              | m3/h     | 1400/1200/800               | 1900/1750/1550              | 2413/2222/2027              |
| Indoor noise level (Hi/Mi/Lo)       |                              | dB(A)    | 44/40/38/31                 | 52/49/46/40                 | 53/50/48/39.5               |
| Indoor sound power level (Hi)       |                              | dB(A)    | 60                          | 65                          | 67                          |
| Indoor unit                         | Dimension(W*D*H)             | mm       | 380x392x1802                | 585x405x1830                | 1935x629x456                |
|                                     | Packing (W*D*H)              | mm       | 2040x475x490                | 2060x750x550                | 2055x750x575                |
|                                     | Net/Gross weight             | Kg       | 25.1/33.6                   | 49.75/61.89                 | 59.0/77.0                   |
| Outdoor air flow                    |                              | m3/h     | 3500                        | 5100                        | 7500                        |
| Outdoor sound pressure level        |                              | dB(A)    | 60.5                        | 64                          | 63                          |
| Outdoor sound power level           |                              | dB(A)    | 70                          | 73                          | 73                          |
| Outdoor unit                        | Dimension(W*D*H)             | mm       | 890x342x673                 | 946x410x810                 | 952x415x1333                |
|                                     | Packing (W*D*H)              | mm       | 995x398x740                 | 1090x500x885                | 1095x495x1480               |
|                                     | Net/Gross weight             | Kg       | 43.8/46.8                   | 66.87/71.51                 | 91.5/105.4                  |
| Refrigerant                         | Type                         |          | R32                         | R32                         | R32                         |
|                                     | GWP                          |          | 675                         | 675                         | 675                         |
|                                     | Charged quantity             | Kg       | 1.13                        | 2.3                         | 2.9                         |
| Design pressure                     |                              | MPa      | 4.3/1.7                     | 4.3/1.7                     | 4.3/1.7                     |
| Refrigerant piping                  | Liquid side/ Gas side        | mm(inch) | 6.35mm(1/4in)/12.7mm(1/2in) | 9.52mm(3/8in)/15.9mm(5/8in) | 9.52mm(3/8in)/15.9mm(5/8in) |
|                                     | Max. refrigerant pipe length | m        | 50                          | 55                          | 65                          |
|                                     | Max. difference in level     | m        | 25                          | 20                          | 30                          |
| Connection wiring                   |                              |          | 1.5x4//                     | 1.0x4//                     | 1.5x4//                     |
| Plug type                           |                              |          | //no-plug                   | //no-plug                   | //no-plug                   |
| Thermostat type                     |                              |          | Uzaktan Kumanda             | Uzaktan Kumanda             | Uzaktan Kumanda             |
| Room temperature                    | Indoor(cooling/ heating)     | °C       | 17 ~ 32/0 ~ 30              | 17 ~ 32/0 ~ 30              | 17 ~ 32/0 ~ 30              |
|                                     | Outdoor(cooling/heating)     | °C       | -15 ~ 50/-20 ~ 24           | -15 ~ 50/-15 ~ 24           | -15 ~ 50/-15 ~ 24           |
| Application area (Cooling Standard) |                              | m2       | 33 ~ 48                     | 55 ~ 81                     | 64 ~ 94                     |
| Qty/per 20' /40' /40'HQ             |                              |          | 32/70/78                    | 20/44/49                    | 15/32/39                    |

\*Leaks of refrigerants contribute to climate change. Refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP if they escape into the atmosphere. This appliance contains a refrigerant with a GWP of [xxx]. This means that if 1 kg of this refrigerant were to leak into the atmosphere, its impact on global warming would be [xxx] times greater than that of 1 kg of CO<sub>2</sub> over a 100-year period. Do not tamper with the refrigeration circuit or attempt to dismantle the product yourself; always consult a specialist.

\* Energy consumption based on standard test results. Actual energy consumption will vary depending on how the appliance is used and its location.





[www.rotacclimate.com](http://www.rotacclimate.com)

Call Canter

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