



## Garitage Park



### Excellence knows no size limits

Daikin ensures the best possible climate while avoiding the use of gas - on a site the size of over 23 football pitches.

#### Location

**Country:** Bulgaria

**City:** Sofia

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#### Installed systems:

- › Air cooled scroll small inverter chillers
- › Ventilation systems (Heat Recovery VAMs & AHUs)
- › VRV & Sky Air systems





## Big, bigger, Garitage Park: This 360° HVAC solution delivers the perfect climate for work, life, and play.

### Project requirements

- ☒ Air conditioning
- ☐ Air curtain
- ☐ Air purification
- ☒ Controls
- ☒ Heating
- ☐ Hot water
- ☐ Refrigeration
- ☒ Ventilation

Year of installation  
2017-2021

Total capacity  
Overall ~ 16 MW

Within only five years, Daikin implemented a total HVAC solution fulfilling the immense variety of technology and design requirements for this multi-use office and residential complex spanning a staggering 167,000 m<sup>2</sup>.

**95,000 m<sup>2</sup> of office space: taking challenges in our stride.** The solution consists of 10 air handling units, 25 small inverter chillers, and 80 Sky Airs for technical cooling. The 300 VRV heat recovery systems and 400 VAM heat reclaim ventilation units ensure best possible efficiency by using waste heat for ventilation and by avoiding the use of gas. Because of open-ceiling installations and open-space offices, there was limited installation space for units and ducts and, due to the lack of false ceilings, the units themselves had to have especially low sound emissions to avoid noise pollution.

**Optimal indoor climate for 60,000 m<sup>2</sup> of residential space.** The Daikin HVAC solution consists of small inverter chillers for the apartments and Altherma LT systems for the villas.

#### Sports hall, gym & spa

Fresh air supply and comfortable climate conditions for athletes, staff and guests are guaranteed by Daikin chillers and Daikin Air Handling units.

Additionally, Garitage Park houses a kindergarten, a school, as well as retail spaces and restaurants, where Daikin's comprehensive HVAC solution was implemented, as well. Today, Garitage Park is the first multi-use development project in Central and Eastern Europe to have received a BREEAM Excellent certification.

"With Daikin we chose the perfect long-term partner: they implemented a total HVAC solution in premium quality; they met all our design needs; and they offer continuous support together with their partner Termosyst."

David Davidov,  
Managing Partner Garitage Park

### Solution and system components

- › Air cooled scroll small inverter chillers - EWYQ064-CWP
- › VRV systems: VRV IV Heat Recovery, VRV IV Heat Pump, VRV IV S-series, HT Hydrobox
- › Sky Air systems - Seasonal Smart & Alpha series
- › Heat reclaim ventilation units
  - VAM-J
  - VAM-FC
- › Air handling units
  - Modular L AHU – ALB04RBS
- › Indoor units:
  - Wide variety of Daikin indoor units (mix of round flow & fully flat cassettes, wall mounted, floor standing, ceiling suspended, concealed ceiling units)



Thanks to 300 VRV heat recovery systems (outdoor units' capacity: 3500 HP), no gas heating system is needed.



Air handling units guarantee fresh air supply at the pool, the gym, and the spa.



80 Sky Air systems for technical cooling (e.g. server rooms) in the office buildings.