

**План першого поверху  
система підлогового опалення**

The floor plan illustrates the layout of a residential building with a complex heating system. The system is designed to serve multiple rooms, each with its own set of radiators and a dedicated distribution network. The plan includes detailed dimensions for each room and the overall building footprint. The heating system is shown in red, with blue lines indicating the main distribution network. The plan also shows the location of the main heating station and the distribution network.

| Room           | Room Number | Room Dimensions (m) | Room Area (m²) | Room Volume (m³) | Room Perimeter (m) | Room Shape  | Room Orientation | Room Notes      |
|----------------|-------------|---------------------|----------------|------------------|--------------------|-------------|------------------|-----------------|
| Гараж          | 01          | 15.0 x 18.7         | 280.5          | 522.3            | 39.4               | Rectangular | North            | Garage          |
| Гостинная      | 02          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Living room     |
| Спальня        | 01          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Bedroom         |
| Кухня          | 01          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Kitchen         |
| Ванная         | 01          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Bathroom        |
| WC             | 01          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | WC              |
| Тренажерная    | 01          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Gym             |
| Комната отдыха | 01          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Relaxation room |
| Гараж          | 02          | 15.0 x 18.7         | 280.5          | 522.3            | 39.4               | Rectangular | North            | Garage          |
| Гостинная      | 03          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Living room     |
| Спальня        | 02          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Bedroom         |
| Кухня          | 02          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Kitchen         |
| Ванная         | 02          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Bathroom        |
| WC             | 02          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | WC              |
| Тренажерная    | 02          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Gym             |
| Комната отдыха | 02          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Relaxation room |
| Гараж          | 03          | 15.0 x 18.7         | 280.5          | 522.3            | 39.4               | Rectangular | North            | Garage          |
| Гостинная      | 04          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Living room     |
| Спальня        | 03          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Bedroom         |
| Кухня          | 03          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Kitchen         |
| Ванная         | 03          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Bathroom        |
| WC             | 03          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | WC              |
| Тренажерная    | 03          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Gym             |
| Комната отдыха | 03          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Relaxation room |
| Гараж          | 04          | 15.0 x 18.7         | 280.5          | 522.3            | 39.4               | Rectangular | North            | Garage          |
| Гостинная      | 05          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Living room     |
| Спальня        | 04          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Bedroom         |
| Кухня          | 04          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Kitchen         |
| Ванная         | 04          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Bathroom        |
| WC             | 04          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | WC              |
| Тренажерная    | 04          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Gym             |
| Комната отдыха | 04          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Relaxation room |
| Гараж          | 05          | 15.0 x 18.7         | 280.5          | 522.3            | 39.4               | Rectangular | North            | Garage          |
| Гостинная      | 06          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Living room     |
| Спальня        | 05          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Bedroom         |
| Кухня          | 05          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Kitchen         |
| Ванная         | 05          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Bathroom        |
| WC             | 05          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | WC              |
| Тренажерная    | 05          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Gym             |
| Комната отдыха | 05          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Relaxation room |
| Гараж          | 06          | 15.0 x 18.7         | 280.5          | 522.3            | 39.4               | Rectangular | North            | Garage          |
| Гостинная      | 07          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Living room     |
| Спальня        | 06          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Bedroom         |
| Кухня          | 06          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Kitchen         |
| Ванная         | 06          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Bathroom        |
| WC             | 06          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | WC              |
| Тренажерная    | 06          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Gym             |
| Комната отдыха | 06          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Relaxation room |
| Гараж          | 07          | 15.0 x 18.7         | 280.5          | 522.3            | 39.4               | Rectangular | North            | Garage          |
| Гостинная      | 08          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Living room     |
| Спальня        | 07          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Bedroom         |
| Кухня          | 07          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Kitchen         |
| Ванная         | 07          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Bathroom        |
| WC             | 07          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | WC              |
| Тренажерная    | 07          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Gym             |
| Комната отдыха | 07          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Relaxation room |
| Гараж          | 08          | 15.0 x 18.7         | 280.5          | 522.3            | 39.4               | Rectangular | North            | Garage          |
| Гостинная      | 09          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Living room     |
| Спальня        | 08          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Bedroom         |
| Кухня          | 08          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Kitchen         |
| Ванная         | 08          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Bathroom        |
| WC             | 08          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | WC              |
| Тренажерная    | 08          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Gym             |
| Комната отдыха | 08          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Relaxation room |
| Гараж          | 09          | 15.0 x 18.7         | 280.5          | 522.3            | 39.4               | Rectangular | North            | Garage          |
| Гостинная      | 10          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Living room     |
| Спальня        | 09          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Bedroom         |
| Кухня          | 09          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Kitchen         |
| Ванная         | 09          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Bathroom        |
| WC             | 09          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | WC              |
| Тренажерная    | 09          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Gym             |
| Комната отдыха | 09          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Relaxation room |
| Гараж          | 10          | 15.0 x 18.7         | 280.5          | 522.3            | 39.4               | Rectangular | North            | Garage          |
| Гостинная      | 11          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Living room     |
| Спальня        | 10          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Bedroom         |
| Кухня          | 10          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Kitchen         |
| Ванная         | 10          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Bathroom        |
| WC             | 10          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | WC              |
| Тренажерная    | 10          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Gym             |
| Комната отдыха | 10          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Relaxation room |
| Гараж          | 11          | 15.0 x 18.7         | 280.5          | 522.3            | 39.4               | Rectangular | North            | Garage          |
| Гостинная      | 12          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Living room     |
| Спальня        | 11          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Bedroom         |
| Кухня          | 11          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Kitchen         |
| Ванная         | 11          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Bathroom        |
| WC             | 11          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | WC              |
| Тренажерная    | 11          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Gym             |
| Комната отдыха | 11          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Relaxation room |
| Гараж          | 12          | 15.0 x 18.7         | 280.5          | 522.3            | 39.4               | Rectangular | North            | Garage          |
| Гостинная      | 13          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Living room     |
| Спальня        | 12          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Bedroom         |
| Кухня          | 12          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Kitchen         |
| Ванная         | 12          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Bathroom        |
| WC             | 12          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | WC              |
| Тренажерная    | 12          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Gym             |
| Комната отдыха | 12          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Relaxation room |
| Гараж          | 13          | 15.0 x 18.7         | 280.5          | 522.3            | 39.4               | Rectangular | North            | Garage          |
| Гостинная      | 14          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Living room     |
| Спальня        | 13          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Bedroom         |
| Кухня          | 13          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Kitchen         |
| Ванная         | 13          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Bathroom        |
| WC             | 13          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | WC              |
| Тренажерная    | 13          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Gym             |
| Комната отдыха | 13          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Relaxation room |
| Гараж          | 14          | 15.0 x 18.7         | 280.5          | 522.3            | 39.4               | Rectangular | North            | Garage          |
| Гостинная      | 15          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Living room     |
| Спальня        | 14          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Bedroom         |
| Кухня          | 14          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Kitchen         |
| Ванная         | 14          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Bathroom        |
| WC             | 14          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | WC              |
| Тренажерная    | 14          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Gym             |
| Комната отдыха | 14          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Relaxation room |
| Гараж          | 15          | 15.0 x 18.7         | 280.5          | 522.3            | 39.4               | Rectangular | North            | Garage          |
| Гостинная      | 16          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Living room     |
| Спальня        | 15          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Bedroom         |
| Кухня          | 15          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Kitchen         |
| Ванная         | 15          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Bathroom        |
| WC             | 15          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | WC              |
| Тренажерная    | 15          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Gym             |
| Комната отдыха | 15          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Relaxation room |
| Гараж          | 16          | 15.0 x 18.7         | 280.5          | 522.3            | 39.4               | Rectangular | North            | Garage          |
| Гостинная      | 17          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Living room     |
| Спальня        | 16          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Bedroom         |
| Кухня          | 16          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Kitchen         |
| Ванная         | 16          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Bathroom        |
| WC             | 16          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | WC              |
| Тренажерная    | 16          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Gym             |
| Комната отдыха | 16          | 15.0 x 22.3         | 334.5          | 610.1            | 41.6               | Rectangular | North            | Relaxation room |
| Гараж          | 17          | 15.0 x 18.7         | 280.5          |                  |                    |             |                  |                 |