The Daikin Altherma 3 Geo for Collective Housing is a highly efficient heat pump system, which can provide economical heating, hot water and optional cooling for an entire apartment building at relatively low ambient water temperatures. The system consists of a network of in-apartment water-to-water heat pumps with integrated DHW cylinders, connected to a common central water loop to form a communal system.

By distributing energy throughout the building using near ambient water temperatures, heat losses are reduced by more than 90% compared with high temperature distribution alternatives. The central water loop can be warmed and/or cooled via several different means:

- Ground or air source heat pump
- Shared ground array, borehole or thermal piles
- Surface water source such as a river, canal or seawater
- District heat network
- Waste heat recovery

Key system advantages:

- Utilises renewable (or recovered) energy
- Low carbon heat pump solution delivers significant CO₂ reductions over traditional combined heat & power/boiler/heat interface unit systems
- Low carbon solution reduces carbon offset payments
- Energy centre not required, saving valuable space
- Heating, hot water & cooling via a 2 pipe network offers capital savings over a traditional 4 pipe solution
- Intuitive user controls and internet connectivity as standard
- In-apartment heat pump has integrated back up heater, so heating & hot water is maintained in any eventuality.
## Daikin Altherma GEO 3 for Collective Housing

### Indoor Unit

<table>
<thead>
<tr>
<th>Function</th>
<th>Heating &amp; hot water</th>
<th>Heating, cooling and hot water</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Units</strong></td>
<td>EGSAH06/10UD9W</td>
<td>EGSAH06/10UD9W</td>
</tr>
<tr>
<td><strong>Capacity kW</strong></td>
<td>0.85 - 7.5</td>
<td>0.85 - 9.1</td>
</tr>
<tr>
<td><strong>Nominal input kW</strong></td>
<td>0.7</td>
<td>1.12</td>
</tr>
<tr>
<td><strong>COP</strong></td>
<td>4.74</td>
<td>4.89</td>
</tr>
<tr>
<td><strong>Performance at 20°C inlet temperature</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Capacity kW</strong></td>
<td>2.0 - 13.9</td>
<td>2.4 - 13.9</td>
</tr>
<tr>
<td><strong>Nominal input kW</strong></td>
<td>0.7</td>
<td>0.7</td>
</tr>
<tr>
<td><strong>COP</strong></td>
<td>9.5</td>
<td>8.7</td>
</tr>
<tr>
<td><strong>Performance at 25°C inlet temperature</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Capacity kW</strong></td>
<td>11.3</td>
<td>11.5</td>
</tr>
<tr>
<td><strong>Nominal input kW</strong></td>
<td>11</td>
<td>9.8</td>
</tr>
<tr>
<td><strong>COP</strong></td>
<td>5.6</td>
<td>5.6</td>
</tr>
<tr>
<td><strong>7°C flow Cooling</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Capacity kW</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Nominal input kW</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>COP</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Casing

- **Colour**: White
- **Material**: Precoated sheet metal

### Dimensions

- **Unit**: kg
- **Height**: 1,891 mm
- **Width**: 597 mm
- **Depth**: 666 mm

### Weight

- **Unit**: kg
- **Value**: 222

### Hot water tank

- **Material**: Stainless steel (EN 1.4521)
- **Water volume l**: 180
- **Standing losses @ 60°C kWh/24h**: 1.2
- **Immersion heater kW**: 0.7

### Hydraulic characteristics

- **Energy source Water loop mm**: 28
- **Water connections DHW mm**: 22
- **Water connections Space heating mm**: 22
- **Inlet temperature range °C**: +10 ~ +30
- **Leaving water temperature range**: Heating °C +15 ~ +60
  - Cooling °C +5 ~ +20
  - Hot water °C +25 ~ +60
- **Sound pressure dBA**: 27.0 / 39.0
- **Refrigerant charge R32 kg**: 1.7
- **Power supply**: 1-phase / 230V / 50Hz
- **Recommended fuses** Heat pump** A: 32

### Sound pressure level measured at 1m from the unit

### Nominal capacity and nominal input tested according to EN 14511

### Notepad:

- **EGSAH06/10UD9W**
- **Daikin Altherma GEO 3 for Collective Housing**
- **Indoor Unit**
- **Capacity kW**
- **Nominal input kW**
- **COP**
- **Performance at 0°C inlet temperature**
- **Capacity kW**
- **Nominal input kW**
- **COP**
- **Performance at 20°C inlet temperature**
- **Capacity kW**
- **Nominal input kW**
- **COP**
- **Performance at 25°C inlet temperature**
- **Capacity kW**
- **Nominal input kW**
- **COP**
- **7°C flow Cooling**
- **Capacity kW**
- **Nominal input kW**
- **COP**
- **Function**
- **Casing**
- **Material**
- **Dimensions**
- **Weight**
- **Hot water tank**
- **Hydraulic characteristics**
- **Inlet temperature range °C**
- **Leaving water temperature range**: Heating °C +15 ~ +60
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- **Power supply**: 1-phase / 230V / 50Hz
- **Recommended fuses** Heat pump** A: 32

### Notepad:

- **Every EGSAH D must be purchased alongside a G3 Kit (EKUHWG3D)**
- **Only one optional remote sensor can be installed**

### Accessories:

<table>
<thead>
<tr>
<th>Accessory Ref</th>
<th>Description</th>
<th>Trade price</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRC1HHDW</td>
<td>Madoka Heating - White</td>
<td>£84.00</td>
</tr>
<tr>
<td>BRC1HDDS</td>
<td>Madoka Heating - Silver</td>
<td>£84.00</td>
</tr>
<tr>
<td>BRC1HHDX</td>
<td>Madoka Heating - Black</td>
<td>£84.00</td>
</tr>
<tr>
<td>EKUHWG3D</td>
<td>Daikin Altherma 3 Floor standing G3 Kit</td>
<td>£131.00</td>
</tr>
<tr>
<td>ERPPCABA</td>
<td>PC cable – to upload field settings from PC to unit</td>
<td>£215.00</td>
</tr>
<tr>
<td>KRC501-1</td>
<td>Optional remote temperature sensor for indoor unit</td>
<td>£54.00</td>
</tr>
<tr>
<td>ERPRHBA</td>
<td>Optional PCB kit for remote alarm monitoring, run and fault indication and bivalent operation</td>
<td>£123.00</td>
</tr>
<tr>
<td>ERPRFAMT</td>
<td>Optional PCB for power limitation</td>
<td>£123.00</td>
</tr>
<tr>
<td>ERRC5-W</td>
<td>Sequence controller</td>
<td>£75.00</td>
</tr>
<tr>
<td>DCOM LT/MB</td>
<td>Daikin Altherma Modbus Gateway</td>
<td>£225.00</td>
</tr>
<tr>
<td>DCOM LT/IO</td>
<td>Daikin Altherma I/O Gateway</td>
<td>£241.00</td>
</tr>
<tr>
<td>KFERNOKTF1</td>
<td>Femox magnetic filter</td>
<td>£110.00</td>
</tr>
<tr>
<td>K FERNOKTF1/F/L</td>
<td>Femox magnetic filter 1” and F1 inhibitor fluid (500ml)</td>
<td>£129.00</td>
</tr>
<tr>
<td>ENGBYOMOD</td>
<td>Hydro module replacement</td>
<td>TBC</td>
</tr>
</tbody>
</table>

### Notes:

1. Every EGSAH D must be purchased alongside a G3 Kit (EKUHWG3D)
2. Only one optional remote sensor can be installed

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