



HEAT PUMP SYSTEMS

“The Climate Technology of the Future”



OttoCold Heat Pump Systems

OttoCold delivers heat pump solutions that are both environmentally responsible and cost-efficient, driven by a strong commitment to efficiency and sustainability in climate control technologies. Backed by a team with 30 years of engineering expertise in shipbuilding and HVAC systems, OttoCold has been designing and manufacturing heat pump solutions suitable for both marine and land-based applications for the past two years.

Heat pump technology is a technically advanced and financially viable climate control solution that addresses today's challenges while setting the standards of tomorrow. OttoCold Heat Pumps utilise the naturally available thermal energy in ambient air to provide heating, cooling, and domestic hot water simultaneously with a single system.

Designed to operate with high performance down to -20°C ambient temperatures, OttoCold Heat Pumps represent one of the most advanced and future-oriented climate technologies available today. Each system is engineered specifically for its installation environment, ensuring year-round comfort, high energy efficiency, and an environmentally friendly heating solution.

At OttoCold, we stand alongside you with durable, high-efficiency heat pump solutions that enhance energy performance, reduce operating costs, and elevate comfort standards in residential, commercial, industrial, and public buildings. OttoCold Heat Pumps provide reliable heating in winter, efficient cooling in summer, and uninterrupted domestic hot water all year round, delivering four-season comfort whenever you need it.



OttoCold Heat Pump Systems Features

- OttoCold Heat Pumps utilise naturally available thermal energy from ambient air to create environmentally friendly living and working spaces without the need for natural gas or other fossil fuels.
- The system operates using electric power only. Approximately 75% of the required energy is drawn from renewable air-source heat, while just 25% is supplied by electricity. This enables a highly efficient, eco-conscious, and cost-effective solution that delivers heating, cooling, and domestic hot water through a single integrated system.
- Equipped with state-of-the-art technology, OttoCold Heat Pumps maintain consistently high performance throughout the year, regardless of sunny, rainy, or snowy conditions, while utilising electrical energy with exceptional efficiency.
- The system's performance is defined by its COP (Coefficient of Performance) value, which ranges between 4.0 and 5.0 for OttoCold Heat Pumps. This means that for every 1 kW of electrical energy consumed, 4 to 5 kW of thermal energy is produced, ensuring maximum energy savings with minimal electricity consumption.
- When supported by an on-site photovoltaic (solar panel) system, OttoCold Heat Pumps enable a fully carbon-free, sustainable, and largely energy-independent living or working environment.
- OttoCold Heat Pumps are suitable for all climate conditions across Turkey, adaptable to buildings and facilities with varying functional requirements. They deliver high-performance heating and domestic hot water at temperatures of 75–80 °C, even at outdoor temperatures as low as –20 °C. Reliable heating and uninterrupted hot water are ensured even in cold climates, while offering an effective climate control solution for areas without access to natural gas.

❖ *Residential Buildings: Apartments, villas, residences, and housing complexes*

❖ *Public Buildings: Hospitals, schools, municipal and administrative buildings, sports facilities*

❖ *Commercial Buildings: Office buildings, shopping malls, hotels, restaurants, and fitness centers*

❖ *Industrial Facilities: Factories, warehouses, production plants, cold storage rooms, and logistics centers*

❖ *Agriculture: Greenhouses, farms, food processing areas, and livestock facilities*

❖ *Marine Applications: Custom system solutions for ships, yachts, and offshore platforms*



OttoCold Heat Pump Systems Features

✓ *Superior Energy Efficiency*

With A+++ energy efficiency classification, OttoCold Heat Pumps deliver high performance with minimal electricity consumption. By generating 4–5 kW of thermal energy from just 1 kW of electrical input, they ensure maximum energy savings. A 65 °C outlet water temperature guarantees reliable and comfortable domestic hot water supply.

✓ *High Performance, Low Operating Cost*

OttoCold Heat Pumps operate within a COP range of 4.00–5.00 under normal and adverse weather conditions and can achieve COP values of up to 6.00 in favourable conditions. This results in significant reductions in electricity consumption. Thanks to low operating costs, the system pays for itself in a short time and provides substantial long-term cost advantages.

✓ *Solutions for Every Requirement*

At OttoCold, we offer a comprehensive range of standard heat pump capacities, including 12–16–24–36–50 kW for residential applications and 250–400–550–750 kW for industrial use, enabling fast and reliable solutions for diverse requirements. For demands beyond standard capacities, project-specific solutions are developed through dedicated engineering studies.

✓ *Easy Installation and User-Friendly Operation*

OttoCold Heat Pumps enable easy installation with a single integrated unit, eliminating the need for complex piping systems. They can be seamlessly integrated into any building without the requirement for a natural gas line, flue, or additional installation costs. User comfort is maximised through a wired touch-screen control panel, which can also function as a room thermostat.

✓ *Compact Design, Flexible Integration*

OttoCold Heat Pumps minimise the space required indoors for boilers and outdoor air-conditioning units. Their aesthetically designed outdoor units complement modern architectural styles. Compatible with systems such as fan-coil units and underfloor heating, OttoCold heat pump solutions provide a cleaner, more refined, and comfortable system layout. With advanced compressor technology and acoustic insulation, they operate significantly more quietly than conventional systems.

OttoCold Heat Pump Systems Features

✓ *Environmentally Friendly and Sustainable Technology*

At OttoCold, we are committed to minimising our environmental impact. Our heat pumps utilise next-generation, environmentally friendly natural refrigerants (such as R290) as well as synthetic refrigerants that are not subject to bans under the EU Fluorinated Greenhouse Gases Regulation (F-Gas Regulation). This approach ensures high efficiency while delivering an exceptionally low carbon footprint. Systems that can be integrated with photovoltaic (solar panel) installations also enable carbon-neutral energy usage.

✓ *Future-Ready System Design*

OttoCold Heat Pumps are fully compliant with Nearly Zero-Energy Building (NZEB) standards. For buildings with a floor area of 2,000 m² and above, where central systems are mandatory, heat pump technology represents the most efficient solution. Designed in line with both current and forthcoming regulations, OttoCold Heat Pumps offer a future-proof investment that retains its value.

✓ *Accurate Design, Maximum Efficiency*

Achieving maximum efficiency from a heat pump system requires a thorough feasibility study, appropriate system design, and correct on-site implementation. With our experienced team and 30 years of engineering expertise, OttoCold ensures long-lasting, reliable, and stable system performance.

✓ *Local Manufacturing and Reliable Support*

Manufactured locally with advanced engineering design capabilities, OttoCold Heat Pumps deliver durable and environmentally responsible performance, supported by a 3-year warranty and comprehensive technical support, ensuring long service life and dependable operation.



OttoCold Heat Pump Systems



12 kW

Heating Capacity **13,7** kW

Cooling Capacity **10,3** kW



Heating COP **4.28**

Hot Water **7.1** m³/h

Connection Diameter **1** inch



16 kW

Heating Capacity **17,8** kW

Cooling Capacity **15,9** kW



Heating COP **4.13**

Hot Water **9,6** m³/h

Connection Diameter **1,1/4** inch



24 kW

Heating Capacity **25,8** kW

Cooling Capacity **20,8** kW



Heating COP **4.96**

Hot Water **10,5** m³/h

Connection Diameter **1,1/4** inch



36 kW

Heating Capacity **38,5** kW

Cooling Capacity **33,5** kW



Heating COP **4,63**

Hot Water **12** m³/h

Connection Diameter **1,1/2** inch



50 kW

Heating Capacity **50** kW

Cooling Capacity **43** kW



Heating COP **4,63**

Hot Water **17** m³/h

Connection Diameter **1,1/2** inch



OttoCold Industrial Heat Pump Systems



250
kW

400
kW

550
kW

700
kW



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