

Future Technology for you

# OCEAN



### **OCEAN** Engineering

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Established in 2004, Ocean Engineering Co., Ltd. has experienced growth by prioritizing the HAVC sector and diversifying into building energy-related industries.

Our main focus is on customer satisfaction, achieved through building trust and investing in cutting-edge technology through ongoing research and development, in our efforts to establish ourselves as a top energy company.

Our aim is to position ourselves as a prominent company in eco-friendly HVAC, refrigeration, and building energy by taking on new challenges and implementing innovative

strategies.







### Mission

Enhance customer satisfaction by carefully choosing the optimal furniture for each room and providing expert advice on the most fitting options

Vision

No.1 Energy solution company

DNA

**O**wnership

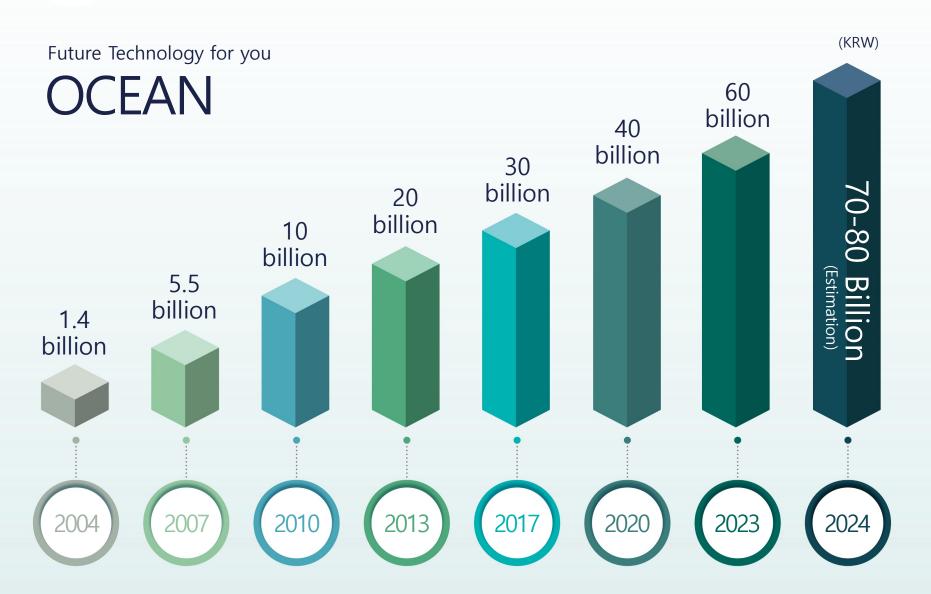
**C**hallenge

**E**xcellence

**A**chievement

**N**ext wave







### 2004 ~2006

- Established Ocean Engineering Co. Ltd.
- Registered as a Samsung Electronics Store
- Registered as a procurement agency company
- Registered as a partner company of NH Development
- Recognized as a DVM technical shop by Samsung Electronics
- Selected as the best store by Samsung Electronics

### 2007~2010

- Registered as a Mechanical Contractor
- Establish Daejeon branch
- Registered as an engineering business
- Registered as an energy saving company
- Registered patent for high efficiency water temperature difference heat pump
- Registered as a renewable energy specialist (geothermal)
- Registered as an ESCO (Energy Saving Company)
- Recognized by Samsung Electronics as a DVM, GHP, ERV specialty store

#### 2014

- Selected as a green remodeling business by the Ministry of Land, Infrastructure, and Transport
- Selected as a participant in the renewable energy supply project by the Korea Energy Management Corporation

### 2012~2013

- Registered patent for Gas Engine Heat Pump
- Registered a patent for geothermal source constant temperature and humidity
- Registered as an electrical construction business
- Established Chungju branch
- Registered as an energy diagnostic organization

#### 2011

- Registered as a Venture Company
- Registered as a groundwater contractor
- Established Gyeonggi Branch
- Registered as an energy diagnostic organization
- Registered as a fire protection facility business

### 2015~2017

- Selected as the main contractor for Green Remodeling
- Obtained a license for boring and grouting
- Awarded a plaque of merit from the Korea Equipment Association
- Registered as a building construction business

### 2018~2020

- Relocated to Hueam-dong new office
- Registered as a specialized fire facility construction business
- Registered patent for ventilation system using heat pump
- Established Busan Branch
- Registered as an industry utilizing groundwater development
- Registered as a real estate development business
- Registered as a venture company
- Supply Agreement with Mitsubishi Heavy Industries Thermal Systems, Ltd. for Heat Pumps

### 2021~2023

- Register as a machinery performance Inspector
- Registered as refrigerant recycling business
- ISO 45001 Safety and Health Management System Certification
- Registered as an SME (medium-sized enterprise)
- Established a company-affiliated research center
- Certified as an Inno-biz
- Established a branch in the western region (Gwangju Branch)
- Registered the factory









ISO45001 Safety and Health Management System

Corporate Credit Rating A-

ESG Composite Rating 4

Samsung 4STAR Partner for 5 consecutive years

Certifications

SME

Samsung Electronics Service
Center

Engineering company

Green remodeling company

Green Energy Energy diagnostic agency

Energy conservation company

**Building construction** 

Fire fighting facility construction

Machinery facility performance inspection

Real estate development

Machinery facility works

Construction

Electrical works

Boring and grouting construction /
groundwater development and utilization
construction

Refrigerant recycling

Inno-Biz

Company-affiliated research center

Development

Participated in worklife balance campaign

Work-learning balance project

Energy-saving high-efficiency water temperature difference heat pump heating and cooling system

Constant temperature and humidity using geothermal with improved reheating

Patents

- Ventilation system using heat pump
- Gas-engine heat pump system
- Shrink heat heating and cooling system

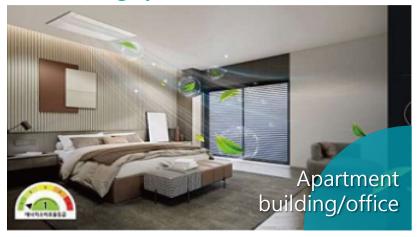
Heat pump chiller

MTH
Certified
Distributor

CO<sub>2</sub> Heat Pump Water Heater



Provides various air conditioning options tailored to the size and classification of the space, encompassing large, medium, small, residential, and central air conditioning systems.











### Al Ventilation Purification

A solution that gathers and analyzes data on outdoor and indoor air in real time to regulate ventilation devices for the purpose of maintaining cleanliness and energy efficiency in the designated space.

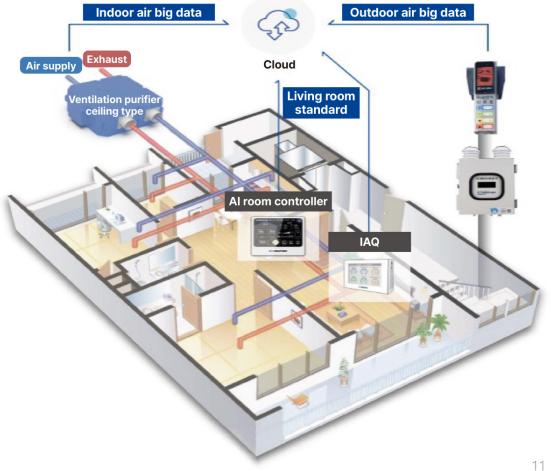






Server (K-IoT platform)

Big data analysis, ICT control

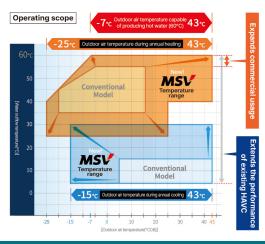


### 1 Heat pump chiller



### HAVC systems for industries and environmentally-friendly buildings that retrieve heat energy from the air

Туре	MSV1501P2C-K (50HP)
Cooling and heating capacity	150KW
Rated consumption (Cooling/heating)	46.4KW / 45.5KW
Cold/hot water	4°C / 60°C
Pipe diameter	65A
Operating conditions	-25°C ~ 43°C



### **Application Scope**



#### **HAVC**

Enhances capabilities of absorption-type water cooler and heater



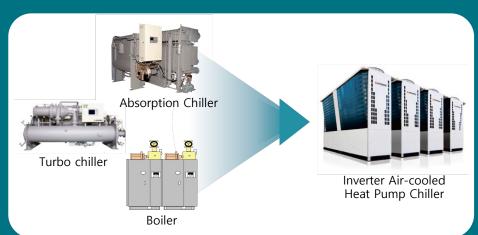
### Commercial

Hot spring and swimming pool



#### Industrial

Cleaning, painting, and drying process



### CO<sub>2</sub> Heat Pump Water Heater

Maintains full hot water performance in temperatures as low as -7°C and ensures stable hot water delivery up to 90°C, even in conditions as cold as -25°C, serving a dormitory housing 150 residents.







Regularly maintaining your air conditioner not only enhances air quality but also helps lower maintenance expenses and prolong the unit's lifespan.

1 Maintenance

Regular inspection

Prompt service

Remote management

Demand management

Energy analysis

Solution

Genuine-part cleaning

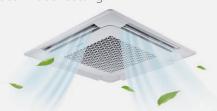
Certified cleaning chemical

Follow-up service

2 Heating and cooling cleaning

### Ensure a cozy

Indoor atmosphere by using certified chemicals and specialized cleaning products to eliminate dust, food odors, and other pollutants from the indoor and outdoor air, ensuring a clean, secure, and ideal indoor setting.



#### Clean hazardous materials

- Complete dismantling
  Cleaning with approved
- cleaning agents.

  Maintain the ideal indoor
  - Environment by optimizing efficiency
- Airflow, and noise levels

### Systematic cleaning process

Regular cleaning helps eliminate sources of contamination and maintain products in good condition.



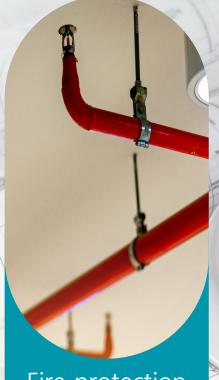
- Internal contamination removal
- 7 Drain pump cleaning
- Heat exchanger cleaning
- 5 Disassembly and cleaning of blower fan
- 4 Drain pan cleaning
- Front panel cleaning PCB dust removal
- 2 Filter cleaning
- 1 Cleaning of filter grills



Construction works



Mechanical facility works



Fire protection works (machinery, electrical)



Electrical works

