Reference

- Company Presentation and Business Overview
- Sustainability Initiatives

May 25, 2021

Company Profile

Industry-leading manufacturer of environmental test chambers

Name

Head Office

Representative

Established

Incorporated

Paid-up Capital

Issued shares

Employees

Main Business

ESPEC CORP.

3-5-6, Tenjinbashi, Kita-ku, Osaka

Masaaki Ishida

July 25, 1947

January 13, 1954

¥6,895 Million

23,781,394 Shares

1,526 (consolidated)



Head Office

Manufacture and Sales of Environmental Test Chambers, Energy Device Equipment, Semiconductor Equipment and Plant Factory.

After-sales Service, Commissioned Tests and others.

Over 30% worldwide, Over 60% domestic

Share of Environmental Test Chambers:

(As of March 31,2021)

Global Network

Consolidated Subsidiaries 12 companies

(Global 9 companies, Domestic 3 companies)

Global Network 50 locations 45 companies

Business Facilities in Japan : 25 Domestic Agencies in Japan : 46

EUROPE

- ●ESPEC EUROPE GmbH

 -ESPEC IKLIM KABINLERI

 SATIS VE MUHENDISLIK

 LIMITED SIRKETI
 - ESPEC CORP.
- **ESPEC TEST SYSTEM CORP.**
- **ESPEC ASSIST CORP.**
- **ESPEC MIC CORP.**
- MIC FARM OHGUCHI CORP.

JAPAN

ASIA

- SHANGHAI ESPEC ENVIRONMENTAL EQUIPMENT CORP.
- ESPEC ENVIRONMENTAL EQUIPMENT (SHANGHAI) CO., LTD.
- ●ESPEC TEST EQUIPMENT (GUANGDONG) CO., LTD.
- ●ESPEC TEST TECHNOLOGY (SHANGHAI) CO., LTD.
- **ESPEC (CHINA) LIMITED**
- **ESPEC KOREA CORP.**
- ●ESPEC ENGINEERING (THAILAND) CO.,LTD -ESPEC ENGINEERING VIETNAM CO., LTD.

U.S.A

ESPEC NORTH AMERICA, INC

: Consolidated Subsidiaries

-: Non-consolidated Subsidiaries

Summary of ESPEC Business (Per Market / Use)

		Main Products	Market	Use	Sales composition (FY2020)
Equipment Business	Environmental Test Chambers	 Temperature & humidity chamber Thermal shock chamber Bench-top type temperature & humidity chamber HAST chamber Walk-in type temperature & humidity chamber Combined temperature & humidity chamber HALT & HASS test chamber FPD equipment 	*Electronic component and equipment market *Automobile market *Semiconductor market *Medicine, Cosmetics, Foods market *LCD and Organic Electro—Luminescence market	•For R & D •For credibility and evaluation •For production and inspection	79%
	Energy Device Equipment	Charge-discharge Cycle Evaluation Equipment LIB safety evaluation system Fuel cells evaluation system	 Next generation automobile market Secondary batteries market Fuel cells market 	 For R & D For credibility and evaluation Safety evaluation For production 	
	Semiconductor Equipment	Burn-in system Semiconductor evaluation system Instrumentation system	•Semiconductor market •Automobile market	For production and inspectionFor development and evaluation	
Service Business	After-sales Service and Engineering	After-sales service Construction around equipment	•Electronic component and equipment market	-	
	Commissioned Tests and Facility Rentals	Commissioned test	Automobile market Semiconductor market	For R & DFor credibility and evaluation	16%
Other Business	Environmental Preservation	Reforestation (Tree planting), Waterfront biotope restoration, Urban greening			5%
	Plant Production Systems	Plant factory, Equipment for growing plants	370		

History of Environmental Test

What is Environmental Test

Test to analyze and evaluate effects of environmental factors such as temperature, humidity, pressure, and light on various industrial products like electronic components in order to ensure product quality.

<1950s>

The environmental test was JISstandardized in Japan for consumer products.





<1970s-1990s>

"Reliability" and "quality control" became important issues in product development. Demand increased dramatically due to a rapid shift toward computerization and the use of electronic components.







<Today>

Demand is expanding in 5G and IoT field, also the development field of automobiles' electrification and automated driving functions.



Consecutively selected as a winner of Ministry of Economy. Trade and Industry (METI)

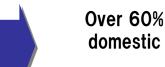
"Global Niche Top Companies Selection 100"

1961 Japan's First Environmental Test Chamber



[Low temperature & humidity chamber "Lucifer"]

Worldwide Market Share No.1





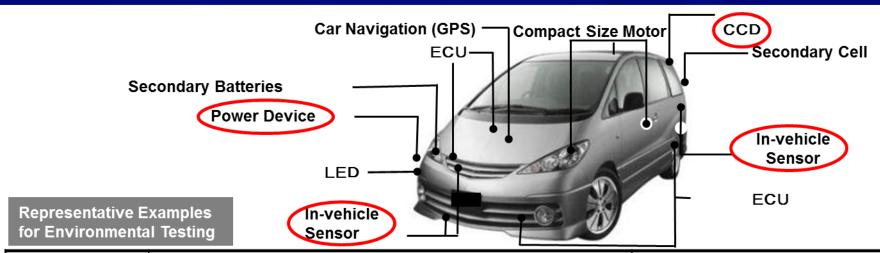


[Temperature & Humidity Chamber "Platinous J series"]

Transition in Business

Expanding business based on the "environmental creation technology" refined during the course of developing environmental test chambers large scale integration Integrated 5G·loT and circuit automated driving Growth of ESPEC Eco cars such as EVs, HVs, and PHVs surface mount package LCD storage of electricity generation of electricity 1995 1965 1975 1985 2005 2015 **Present** 1986 1982 1994 2011 Launching the FPD Equipment business Launching the evaluation system expansion Launching the semiconductor Business Launching the energy business equipment business device equipment business

[Equipment Business] Usage Case with Environmental Test Chambers



Device	Process/Test Condition		Our Products	
[Power Device]	Inspection	■Thermal shock test: -40°C⇔+125°C	Thermal shock chamber	
111111		■ High temperature exposure: + 175°C、+ 85°C	(Compact size) Oven	
Total State		■Burn-in test	Burn-in chamber	
[In-vehicle Sensor]	Inspection	■Temperature cycle test of printed circuit board: -40°C⇔+110°C	Temperature & humidity chamber (Platinous) /Oven	
		■ Temperature characteristic test after soldering: Linear change between -30°C and +85°C	Burn-in chamber, Rapid-rate thermal cycle chamber	
	Evaluation	■ Thermal shock test : -30°C⇔RT⇔+80°C、-55°C⇔+155°C	Thermal shock chamber	
[CCD/CMOS]	Production	■ Diffusion Test: +150°C	Compact size Oven	
		■ Drying after cleaning: +85°C	Clean Oven	
	Evaluation	■Screening: +85°C	Temperature chamber (Platinous) / Burn-in chamber	
	Inspection	■Temperature and humidity test: +85°C/+85%rh、+60°C/90%rh	Temperature & humidity chamber (Platinous)	
		■Acceleration test: + 120°C / 100%rh	HAST chamber	
		■ Thermal shock test : - 40°C ⇔ + 125°C、- 20°C ⇔ + 85°C	Thermal shock chamber	

[Equipment Business] Main New Products

Release Date	Name of product	Features
Apr. 2021	Stable Temperature Transport Coolers	 Optimal for small-lot transport and storage of items such as COVID-19 vaccines Vibration resistant, energy efficient and portable
Feb. 2021	Vacuum low-temperature heating cooker - model change	•Enables precise control of not only temperature but also the degree of vacuum
Aug. 2020	Expanded Environmental Stress Chamber AR Series Lineup	•Launched four new models as rapid-rate temperature cycle type products, bringing the total lineup to 32 models across the series
Mar. 2020	Transportation Evaluation System	 Recreates transport environments for pharmaceuticals and medical devices Applications in biopharmaceutical R&D and medical equipment quality control
Feb. 2020	Walk-In Type Temperature (&Humidity) Chamber for Drive-In Series	•Recreates various weather environments in a large space accommodating two vehicles
Feb. 2020	Walk-In Type Temperature (&Humidity) Chamber for High-Power Series	•Complies with international IEC standards and German automobile industrial standard
Dec. 2019	Thermal Air Test System	•Materials testing is possible under actual use conditions such as in vehicles through combinations of various types of material testing equipment
Dec. 2018	Aging Cabinet	•There is no temperature rise due to defrosting, and long-term continuous operation of high humidity environment is possible while maintaining below 5℃
Nov. 2018	Standard type secondary battery charge- discharge tester for automobiles	•Supports charge-discharge testing for large capacity secondary batteries in automobiles

ESPEC CORP.

[Equipment Business] New Product Introduction (1)

■Walk-In Type
Temperature (&Humidity) Chamber
for High-Power Series

<Features>

- Compliant with IEC International Standards and German Automotive industry standard LV124
 (Can perform rapid temperature change testing of samples at 3K/minute)
- •Low GWP coolant (R-449A) as standard equipment



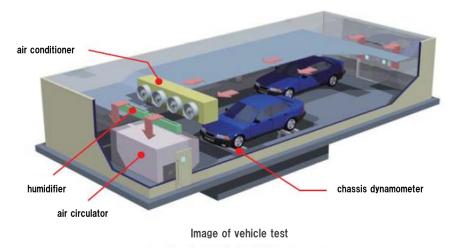
Walk-In Type Temperature (&Humidity)
Chamber for High-Power Series

■ Walk-In Type

Temperature (&Humidity) Chamber
for Drive-In Series

<Features>

- •Closely recreates various weather environments in a large space of approximately 500 m accommodating two vehicles to perform actual vehicle testing
- Multiple environmental factors can be recreated simultaneously, including humidity, sunlight, rain, snow, fog, and wind



Walk-In Type Temperature (&Humidity)
Chamber for Drive-In Series

ESPEC CORP.

[Equipment Business] New Product Introduction (2)

For the medical field

(Released in Feb. 2020)

■ Transportation Evaluation System

<Features>

- •Enables simultaneous recreation of temperature and vibration environment during transport to test medicine, etc. in actual transportation environment
- •Two types of equipment for biopharmaceutical and reagent R&D application and medical equipment quality control application





2 models of Transportation Evaluation System

For material field

(Released in Dec. 2019)

■ Thermal Air Test System

<Features>

- Can be combined with various materials testing instruments to perform materials testing in actual usage environment with given temperature
- Uses ESPEC's proprietary new method for cooling and heating test pieces efficiently





Example of set up with friction and wear testing machines and hardness meter (Left)
Thermal Air Test System (Right)

10

[Equipment Business] Examples of Products Delivered (1)

(Delivered in Jul. 2018)

■Delivery examples of temperature (& humidity) chambers, test chambers for use for building materials

Uses

Reproduce the environment inside apartments (temperature and humidity) and outdoors (weather such as rain, snow, and solar radiation), conduct performance evaluations and durability tests of building materials for sash, balcony, etc.



Temperature (& humidity) chambers, test chambers for use for building materials



Temperature (& humidity) chambers are movable so that building materials for testing can be easily changed



Furnished with irradiation equipment and watering (rain) equipment, to reproduce an outdoor weather environment

[Equipment Business] Examples of Products Delivered (2)

(Delivered in Mar. 2016)

■Smart System Research Facility,
Fukushima Renewable Energy Institute, AIST
(Koriyama city, Fukushima)

Product delivered:

Large walk-in type temperature & humidity chamber

Uses:

Performance and safety evaluation for large power conditioners for solar power generation Supports heat generation loads of 100 kw and large weights (21 tons)



Large walk-in type temperature & humidity chamber

■National Laboratory for advanced energy storage technologies (NLAB), National Institute of Technology and Evaluation (Nanko, Osaka City)

Product delivered:

- 1. Walk-in type temperature & humidity chamber for chargedischarge testing
- 2.External short-circuit testing equipment (energy devices equipment)

Uses:

- 1. Evaluate the performance of storage batteries by repeatedly charging and discharging them
- 2.Evaluate safety by confirming that storage batteries will not catch fire or rupture if they short circuit



Walk-in type temperature & humidity chamber for charge-discharge testing

ESPEC CORP.

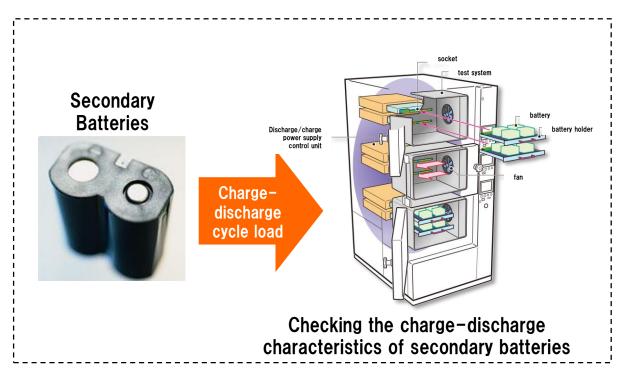
[Equipment Business] Usage Case with Energy Device Equipment

Charge-discharge Cycle Evaluation Equipment

Equipment for ensuring the reliability and safety of lithium-ion secondary batteries for next-generation vehicles (e.g., hybrid and electric vehicles)



Charge-discharge Cycle Evaluation Equipment



Evaluating the performance and life of secondary batteries

ESPEC CORP. 13

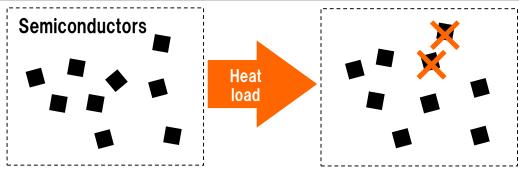
[Equipment Business] Usage Case with Semiconductor Equipment

Screening

Eliminate defective products to maintain initial-period quality at the final inspection stage of semiconductor device manufacturing



Burn-In chamber



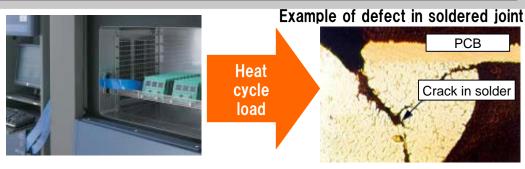
Elimination of latent early failures

Reliability Evaluation

Used to evaluate basic failure patterns to ensure reliability in the development of new technologies



Conductor resistance evaluation system



Electrical evaluation of reliability of joints in electronic parts

[Service Business]

After-sales Service and Engineering

Preventive maintenance of products, maintenance service, and the upgrading/improvement and installation/relocation of products

- Speedy response via one of the most extensive networks in Japan
- Launching new services by utilizing the network function mounted in the equipment

Commissioned Tests and Facility Rentals

Commissioning of testing, analysis, and evaluation; consulting; equipment rental; sales of used products; calibration of test equipment, etc.

- The company has four commissioned test centers in Japan, one in Thailand, two in China. (Japan: Utsunomiya, Toyota, Kariya and Kobe, Thailand, China: Shanghai, Suzhou)
- •The centers are also recognized as official calibration facilities under the Japan Calibration Service System (JCSS).
- **■** [First in world] Opened Battery Safety Certification Center. (in September 2015)
- Providing a one-stop service for testing and certification application services compliant with United Nations regulations on the safety of automotive rechargeable batteries.
- Entered into business alliance with TÜV SÜD Japan Ltd., a third-party certification agency (in October 2014)



Battery Safety Testing Center

- [First in Japan] Acquire ISO/IEC 17025 test facility certification simultaneously in the three fields of automobiles, trains and airplanes
- The Toyota Test Center provides one-stop services for testing LV 124, the German Automotive Manufacturer Testing Standards
- * ISO/IEC 17025: An international standard in which an authoritative third-party organization certifies whether a test facility or calibration organization is capable of producing accurate measurements or calibration results

[Service Business] After-sales Service

May 2020 start of "Home-based online service" Support continuity of customers' development operations

When using ESPEC products

Operate equipment and monitor samples from home

- Centralized management (monitoring and data analysis)
- Receive operating status by email
- Monitor samples using in-chamber monitoring camera (launched in March 2020)

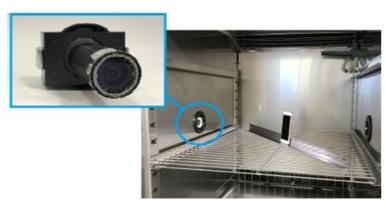
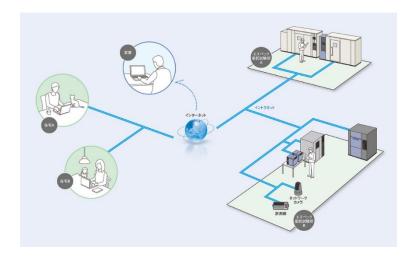


Image of in-chamber monitoring camera

When using commissioned testing center

All testing operations performed on behalf of customer, from start to finish, including transportation

- Remote consultation
- No need to attend in person
- Remote instruction



[Service Business] Commissioned Testing Service

First in Japan to realize 100% green electricity for commissioned testing services Contributing to the reduction of CO₂ emissions in customers' supply chains

We introduced renewable energy and became first in Japan to realize 100% green electricity for commissioned testing services in April 2021. We expect to reduce annual CO₂ emissions by approximately 4.187 t.

<Commissioned test centers in Japan>



Kobe Test Center



Toyota Test Center



Kariya Test Center



Utsunomiya Test Center



Battery Safety Testing Center



[Service Business] Commissioned Testing Service

World's first Energy Device Environmental Test Center compliant with United Nations regulations

Providing a one-stop service to support the implementation of 9 safety tests and applications for certification by certification agencies, as stipulated by UN ECE R100-2.

Part II, a United Nations regulation.

(The facility was opened within the Utsunomiya

Technocomplex in September 2015.)



Crush Testing Equipment (No. 1 Safety Test Room)



No. 2 Safety Test Room

First testing facility in Japan to address the German Automotive Manufacturer Testing Standards Renovated the Toyota Test Center

Supporting Japanese automotive equipment manufacturers seeking to develop global operations by addressing all test items set forth by the LV124 German Automotive Manufacturer Testing Standards
(Renovated the Toyota Test Center in September 2019)



Toyota Test Center

[Other Business]

Environmental Preservation

■Reforestation (Tree planting)

Recovery of local forest by selecting species and planting out seedlings using potential natural vegetation data.

■Waterfront biotope restoration

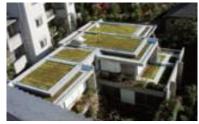
Reconstruction of natural environment, development of vegetative revetments, and water quality improvement using aquatic plants.

■Urban greening

Provision of roof and wall greening systems that use moss to effectively alleviate heat island effect.







Plant Production Systems

Provision of various cultivation environments employing advanced environmental control technologies to control light, temperature, humidity, carbon dioxide, etc.



Plant factory



Phyto-toron

[Other Business] Plant Production Systems

Produced a high value-added vegetables using deep-seawater

At a plant factory near Haneda Airport, production and sales of vegetables high in minerals with the use of deep sea water.





Interior of the plant factory and Factory-produced vegetables "mineraleaf"

20

[Other Business] Examples of Products Delivered

■ Arid Land Research Center, Tottori University

(Delivered in March 2016)

Products delivered:

Experimental System for Analyzing Responses of Dryland plants to Climate Changes (2 units) (Simulates the climates of arid lands, including high temperature, low humidity, strong sunlight, and high winds)

Uses:

Plant cultivation experiments and experiments to develop efficient water-usage technologies in arid lands, research to solve issues facing arid lands



Experimental System for Analyzing Responses of Dryland plants to Climate Changes



Experiment in progress

Strengthen Technology Development Capability

(Technology development building introduction)

Objective : Strengthen technology development capabilities

and promote preservation of biodiversity

by encouraging open innovation

Concepts: "Open innovation,"

"Open communication,"

"Coexistence with the natural environment"

Location : Kanokodai, Kita-ku, Kobe, Hyogo

(in Kobe R&D Center)

Start of operation: May 2020

(Construction started in June 2019)

Building area : 1,580m²

Gross floor area : 4,557m (Three story building)



Rooftop green space using only native species



New technological development building

Introducing ESPEC's all weather simulation chamber (within the Kobe R&D Center)

(Feb. 2021)

Opened the world's first all weather simulation chamber Encouraging open innovation and strengthening environmental creation technology

Replicates dynamic climate environments with high-precision control and variation of seven environmental factors (temperature, humidity, snow, fog, rain, sunlight and wind)

■ All weather simulation chamber

Examples of tests in dynamic environments





1Tests to replicate the change from sleet → snow

Snow with different amounts of water content can be replicated, including snowfall at temperatures around 0°C, which is close to snowfall in a natural environment. By controlling the snow quality and temperature, the laboratory replicates the change from sleet to snow. The laboratory can confirm the performance of automated driving sensors for which snow accretion has become a problem.



2 Experiment to replicate the change from rain → fog

The laboratory controls the thickness, temperature and humidity of fog and replicates the change from rain to fog. The laboratory can confirm the performance of automated driving sensors in response to the effects of fog.

Test chamber: Width 6 m x Depth 9 m x Height 3 m

A black coating is applied to suppress the diffuse reflection of light.

About ESPEC's SDGs and ESG Initiatives

About ESPEC's Sustainability

Guided by its corporate philosophy,

"THE ESPEC MIND," ESPEC will help to solve social and environmental problems through businesses centered on environmental creation technology, with the aim of achieving sustainable growth.

ESPEC Identity Corporate Philosophy

Our important values that have been passed on since our inception

"THE ESPEC MIND" (Excerpt)

The Origin

To engage in a higher level of value exchange as a public institution

Mission

Provide more certain Seikankyo (living environment) via environmental creation technology

Style

Progressive, Reliable, Open, Fair

Declaration What ESPEC promises society

"compliance," "culture," "human rights," "the environment," "education/enlightenment."

ESPEC's Businesses and the SDGs

Equipment Business





Contribute to the development of cutting-edge technologies through the supply of products and services leveraging environmental creation technology

•Supply products and services that contribute to the development of cutting-edge technologies to solve social and environmental issues

Environmental Test Chamber

Supply environmental test chambers that artificially replicate environmental factors such as temperature and humidity, thereby ensuring the reliability of products

Energy Device Equipment

Supply evaluation systems for rechargeable batteries and fuel cells installed in eco cars

Semiconductor Equipment

Supply products such as burn-in chambers and systems for semiconductor inspection and instrumentation and evaluation systems

Pharmaceutical Equipment

Supply products such as coolers for COVID-19 vaccines and stability test systems used for quality control of items such as pharmaceuticals and food



Temperature & Humidity Chamber "Platinous J series"



Automobile test system that can enclose an entire vehicle



Burn-In chamber for semiconductor inspection



Advanced Battery Tester for secondary batteries

ESPEC Business and SDGs





Service Business

Contribute to the development of cutting-edge technologies through the supply of products and services leveraging environmental creation technology

•Supply products and services that contribute to the development of cutting-edge technologies to solve social and environmental issues

■After-sales Service and Engineering

Conduct product maintenance and preventive maintenance so that customers can use systems with peace of mind

Commissioned testing service

Provide commissioned testing services based on technologies and testing expertise developed through environmental tests



Electronic records that facilitate maintenance log management



Support for remote operations using smart glasses



Large temperature cycle testing system (Battery Safety Testing Center)

ESPEC Business and SDGs

Environmental Preservation Business







Contribute to biodiversity preservation

A business to restore natural environments through projects such as reforestation (tree planting) with local native plant species and waterfront biotope restoration to rehabilitate natural river ecosystems

Contribute to the prevention of global warming and biodiversity preservation



A forest restored along the approach to Rinno-ji Temple in Sendai



Waterfront biotope restoration on the Sumida River Terrace in Tokyo

Plant Production Systems Business



Contribute to a stable food supply to address global warming and extreme weather

Supply plant factories that artificially replicate plant growing environments and enable vegetables to be grown systematically even under extreme weather conditions

Contribute to a stable food supply by supplying systems that can be used in research into drought-tolerant plants



Plant factory using deep sea water Produce and sell vegetables high in minerals



Experimental System for Analyzing Responses of Dryland Plants to Climate Change

(Arid Land Research Center, Tottori University)

Contribute to SDGs in the Supply Chain

Procurement

- Conduct supplier evaluations, including factors such as the environment and compliance
- Measures to address unforeseen conditions such as natural disasters through business continuity management
- Curtail increases in effluents at the time of procurement



Development and design

 Develop and design environmentally friendly products with features such as energy efficiency, low GWP, reduced emissions of chemical substances, and reduced environmental impact during disposal











Production and logistics

- Curtail CO₂ emissions
- Appropriate management of chemical substances and emissions mitigation
- Effluent recycling (zero emission)
- Environmentally friendly logistics (modal shift)









Sale of products and services

- Supply products and services that contribute to the development of cutting-edge technologies to solve social and environmental issues
- Supply environmentally friendly products and services
- Promote the environmental preservation business
- Promote the plant production systems business













Disposal

- Product collection
- Chlorofluorocarbon gas collection
- Recycling and resale





Foundation supporting the supply chain

- Improve customer satisfaction and ensure product safety
- Respect for human rights Promote the development of diverse human resources
- Provide appropriate information disclosure and communication
- Strengthen the management foundation













Initiatives for Environment

- Promote environmental management
 Currently, we are implementing the 7th Mid-Term Plan on the Environment
 (planned implementation period: FY2018-FY2021).
- (1) Measures to address climate change
 The Mid-Term Plan on the Environment was revised in FY2020. The target for CO2
 emissions at domestic business sites was changed from the previous target of reducing
 emissions per net sales to reducing gross CO2 emissions.
 FY2021 target: Reduce gross CO2 emissions by 10% (versus FY2018)
- May 2020: In response to the Science Based Targets (SBT) initiative, an international organization, we committed to setting science based greenhouse gas emissions targets within the next 2 years, in order to contain global warming to 2°C or less.
- August 2020: We voluntarily responded to the CDP Climate Change Questionnaire for the first time (received a "B" score).
- Promote the conversion to electricity derived from renewable energy January 2020: Kariya Test Center; January 2021: five Kansai business sites (Head Office, Fukuchiyama Plant, Kobe R&D Center and other sites); April 2021: Utsunomiya Technocomplex, Toyota Test Center The ESPEC Group's renewable energy usage rate is 70%. We expect to reduce annual CO2 emissions by 48% on a consolidated basis and by 75% in Japan (versus FY2019).

Initiatives for Environment

- (2) Supply products and services that contribute to a sustainable society

 Develop and supply environmentally friendly products (such as energy efficient products and low GWP products)
- (3) Resource circulation Implement measures such as reducing effluents
- (4) Chemical substance management
 Curtail emissions of hazardous substances, address RoHS regulations
- (5) Preserve biodiversity and develop environmental personnel
 - Preserve biodiversity through the environmental preservation business
 - Model forest (Kewara Forest Creation Program) activities
 March 2018: Designated as an affiliated business of the Japan Committee for United Nations
 Decade on Biodiversity
 - Raising environmental awareness through activities such as ESPEC Midori-no-gakko schools (ESPEC Green School) and encouraging people to take the eco test
 - ESPEC Foundation for Global Environment Research and Technology

Biodiversity Preservation Initiatives

Kobe R&D Center, a hub for biodiversity preservation activities Developed rooftop green space using only plant species native to the northern Rokko region

The site has a forest of approximately 30,000 trees comprising native plant species, planted and grown by employees; rooftop green space using plant species native to the northern Rokko region on the roof of the technology development building; and a biotope made up of two ponds and a stream.

ESPEC MIC CORP., which manages the environmental preservation business, conducted the tree planting and construction.



A biotope that attracts a variety of living creatures, such as birds, insects and fish



The Kobe R&D Center aims to achieve harmony with the natural environment.

ESPEC CORP.

To a company where employees can be more active

Initiatives to promote women's success



From the Ministry of Health, Labor and Welfare:
The Company received the "Kurumin" certification, which is granted to companies that support child-rearing. And the highest ranking of the certification mark "Eruboshi" based on the Act on Promotion of Women's Participation and Advancement in the Workplace.



The female leadership development program

Employee Education System Enhancement

- Implement training sessions to share the corporate philosophy
- Implement a Global Trainee Program aimed at developing human resources who are capable of working in international settings
- Enhance the education program to support management executive education and selfdevelopment



On-site training in the Global Trainee Program (U.S.)

ESPEC CORP. 33

Contributions to Society

ESPEC Foundation for Global Environment Research and Technology

- Provides funding support every year for research, technology development on global environmental conservation
- Established in 1997 on the 50th anniversary of ESPEC



Award Ceremony

ESPEC Smile Club: a donation system featuring employee participation

- •Established a matching gift system in which the company matches donations made by employees as part of activities to promote SDGs (Jan. 2021)
- •Donated to an organization that conducts CSR activities related to children and medical care



Logo

Contributing to COVID-19 Vaccination

(Apr. 2021)

Contributing to the cold chain of COVID-19 vaccines Commenced the sale and free-of-charge lending of transport chillers

- •Realized a transport chiller that is vibration resistant, continuously operates at −20°C, energy efficient, and portable
- Commenced the sale of Stable Temperature Transport Coolers that are optimal for the small-lot transport and storage of COVID-19 vaccines.
- •Began free rental of compact, ultra-low temperature freezers made by urgently modifying this product and other existing products to local governments throughout the country



Stable Temperature Transport Cooler Temperature range: -20°C to +40°C External dimensions: 442mm (W) x 284mm (D) x 398mm (H)



These vibration-resistant coolers enable the stable transport of vaccines in automobiles to medical institutions and other sites.



The coolers are portable, allowing them to be easily carried into medical institutions and other sites.

Non-financial Data (environmental aspects)

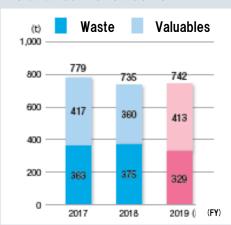
Contribution to CO₂ emissions mitigation through the sale of energy efficient products



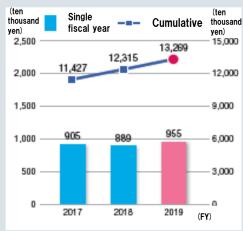
Certification acquisition rate for the Certification Test for Environmental Specialists (Eco Test)



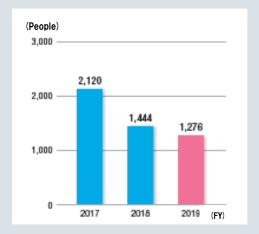
Total amount of effluents



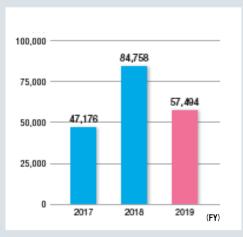
Grants from the ESPEC Foundation for Global Environment Research and Technology



Number of participants in ESPEC Midori-no-gakko schools (ESPEC Green School)



Number of trees planted through environmental preservation business



* Actual results for ESPEC MIC CORP.

ESPEC CORP. 36

Non-financial Data (social aspects)

FY 2019 Results

Contribution to CO2
emissions mitigation
through the sale of
energy efficient
products
Approximately
10,000

Number of female officers (including executive officers)

1

Ratio of female managers
4.7%

* As of April 1, 2020

Number of registered members of the Test Navi information website for engineers

19. 570

* As of March 31, 2020

Ratio of employees taking childcare leave

Women (no applicable employees)

Men 7%

Number of employees (consolidated)

1. 512

Number of employees at overseas consolidated subsidiaries 655

* As of March 31, 2020

Occupational injuries (excluding minor injuries without lost workdays)

1

Rate of health check examination 100%

External Recognition

February, 2021

 Our Sustainability Report received the Excellence Award in the Environmental Communication Awards (Organized by the Ministry of the Environment and the general incorporated foundation Global Environment Forum)



December, 2020

- Voluntarily responded to CDP Climate Change Questionnaire this year for the first time and received a "B" score
- •Selected as an excellent website in the All Japanese Listed Companies' Website Ranking 2020 by Nikko Investor Relations Co., Ltd.
- •Awarded a Bronze Prize in the Gomez IR Website Ranking 2020 by Morningstar Japan K.K. (ranked 28th according to industry)

November, 2020

- •Rated 3 stars in Nikkei's 4th Smart Work Management Survey
- •Rated 3.5 stars in the Nikkei SDGs Management Survey 2020
- •Ranked 163rd in the Nikkan Kogyo Shimbun's COVID-19 Response Ranking (sponsored by the Ministry of Economy, Trade and Industry)

June. 2020

 Ministry of Economy, Trade and Industry (METI) Global Niche Top Companies Selection 100 for Fiscal 2020 ESPEC was selected as a winner for the second time









2021



Quality is more than a word

