

HOSHIZAKI





HOSHIZAKI-GRAM HAS COME A
LONG WAY WHEN IT COMES TO
LOWERING THE ENVIRONMENTAL
IMPACT OF OUR ACTIVITIES.

The potential for improvement however is still almost endless. With the ongoing depletion of natural resources, resulting in increased energy and water costs, and emerging energy saving regulations, the food industry of today is confronted with profoundly different challenges. Challenges that require us to look at the way we do business.

Our focus is directed towards:

SUSTAINABLE TECHNOLOGIES

The development and adoption of innovative sustainable technologies, such as CO₂ cooling systems and challenging the limits of energy efficiency.

ENVIRONMENTAL MANAGEMENT SYSTEMS

The continous improvement of environmental performance by means of environmental management systems like ISO 14001.

DISTRIBUTION NETWORK

Reviewing and optimizing our distribution network to improve lead times and reduce emissions.

REDUCING WASTE

The reduction of waste material per produced unit in our factories

TURNING BLACK INTO GREEN REFRIGERATION

Further extending our green Hoshizaki-Gram portfolio, we now offer sustainable and installation-ready Gram refrigerators / freezers for remote CO2 cooling systems. Additionally, 2020 brings a series of innovative, energy efficient and environmentally friendly CO₂ Flake and Nugget ice makers.

Request our new CO₂ brochure to learn more.







R&D AND MANUFACTURING



Research & Development is raising the bar to set new standards in energy and water efficiency. Field research indicates substantial energy saving rates of more than 50% on future Gram counter series. Positive contributions come also from strategic purchasing. Around twothirds of factory supplies to our Danish plant are coming from ISO 14001 certified sub suppliers.

UTILIZATION - ENERGY & WATER CONSUMPTION



Between 2017 and 2019 we further improved the energy efficiency of all Gram labelled products by 16%. This result has to be seen in the light of already high energy efficiency performance levels at the outset. Similar to Gram refrigeration, Hoshizaki hydrocarbon cubers shows significantly lower energy and water consumption stats and up to 40% saving potential compared to their competitor equivalents.²

TRANSPORTATION



Hoshizaki Europe is in the process of building a new distribution network across Europe.

With optimisation of logistics to increase direct and coordinated shipments, we will reduce on emissions.

Secondly, we will work with forwarders who can provide low emission or electric vehicles.

DISPOSAL & RECYCLING



Through dedicated efforts focusing on structural reduction of waste we achieved a substantial decrease of 25 % in disposal per unit produced between 2017 and 2019.\(^1\) (Manufacturing site in Vojens, Denmark)

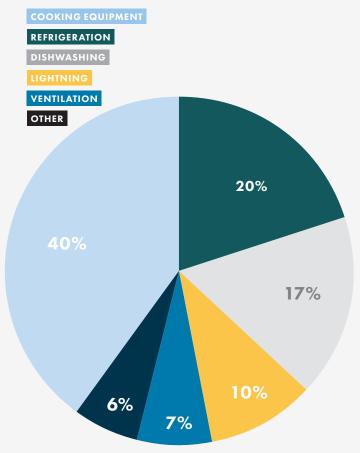


GO GREEN IN YOUR KITCHEN

There are many ways to set up a sustainable and environmentally friendly kitchen. A big portion of the overall energy consumption of a kitchen or a bar is made up by the electrical equipment used

WORKING ENVIRONMENT, HYGIENE AND FOOD QUALITY!

This, combined with changes and improvements in staff rountines, behaviour and kitchen design you can cut the energy bill substantially - and with that the CO₂ footprint our your kitchen.



REFRIGERATION COUNTS FOR APPROX. 20%

The largest part of the kitchen's electricity consumption is used for cooking equipment, refrigeration, and dishwashers.

Storage of produce requires the use of refrigeration units. It is a given, that these units consume a lot of electricity due to uninterrupted run times. The average daily use of refrigeration units points at 20% of the overall energy consumption.

^{*}Source: ProKlima – Der enercity-Fonds.



By following a few guidelines and by choosing the most energy efficient products you can save a lot of energy, water and costs

LEARN FROM TOPTEN.EU

Topten provides an entirely independent list of effcient cabinets that can be used as a guide to identify the most sustainable devices for your business' individual requirements.

DETERMINE YOUR INDIVIOUAL CAPACITY REQUIREMENTS

Make sure the sizes and capacities of the cabinets are suitable for your business' specific needs.

An idea is to always consolidate your stored products, by checking if the contents of several cabinets can fit into only one, powerful cabinet. This will save you space in the kitchen, energy and - in the long run - a lot of costs.

LIFETIME OPERATING COSTS

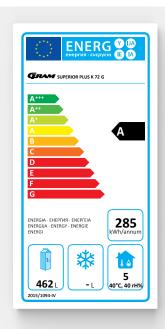
When comparing products or compiling a tender specification make, make sure to always count in operation costs over the entire lifetime of a product.

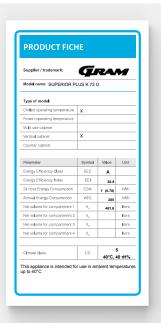
MONITOR TEMPERATURE

We recommend to purchase appliances with an easy-toread display showing the temperature inside the fridge or freezer. This makes it easier to monitor, control and adjust the temperature at all times.

CHOOSE CABINETS WITH INSULATED DOOR

Cabinets with insulated doors are the best choice for efficient refrigeration. The cold air is kept inside the cabinet, while the heated kitchen air is closed off more effectively. Therefore, only choose a glass door model when it is really required.





CUT YOUR ENERGY COSTS WITH



FUTURE PROOF SOLUTION AND LOWER FUTURE MAINTENANCE COSTS

The F-gas regulations (EU) put limits and prohibition dates on the application of hydrofluorocarbons (HFCs). This results in rising maintenance costs of conventional HFC products, due to increased service costs, and a steep price increase on HFC refrigerants. HC technologies, on the other hand, are future proof and maintenance costs will be much lower.

BETTER PERFORMANCE AND COST SAVINGS

Green technology is not only the better choice for our environment, sustainable machines can also generate substantial energy savings. The most energy efficient vertical chilled storage cabinet in the market, the Gram SUPERIOR PLUS K 72 G, saves you 79% of your energy costs compared to an inefficient G labelled refrigerator*.

*Source: Topten.eu

See backpage for list of design and sustainability awards received for our premium refrigeration products.

GREEN TECHNOLOGY FOR DECADES

Utilizing efficient hydrocarbon technologies since 2002 Hoshizaki-Gram was the first company to offer a complete HC standard product lineup (Gram refrigeration). In regards to ice makers we offer the widest range of HC machines in the industry.



HOSHIZAKI ICE MAKERS OFFER HUGE COST SAVINGS ON WATER AND ENERGY CONSUMPTION

Hoshizaki icemakers have always been the preferred choice when it comes to premium ice, high production capacities, food safety and durability. Low operating costs are one of the characteristics that help customers to cut energy and water costs on a daily basis.

COMPETITOR 1

Total Electricity & Water costs after 8 years

€ 4.531

COMPETITOR 2

Total Electricity & Water costs after 8 years

€ 3.691

IM-30NE-HC

Total Electricity & Water costs after 8 years

€ 2.608



Selfcontained icemaker

Electricity costs – after 8 years at € 0,12/kWh	€ 3.664	€ 2.439	€ 1.934
Water costs – after 8 years at € 3,3/m3	€ 867	€ 1.252	€ 674
Total after 8 years	€ 4.531	€ 3.691	€ 2.608
Energy Consumption	400 W/h	290 W/h	230 W/h
Water Consumption	0,09 m3/24h	0,13m3/24h	0,07 m3/24h

^{*}Source: Market research – manufacturers' websites Small self contained icemaker, production capacity 26-29 kg: Cost savings in the range of 1.000 to 1.900 EUR over 8 years compared with other major brands in the market.

COMPETITOR 1

Total Electricity & Water costs after 8 years

€ 19.123

COMPETITOR 2

Total Electricity & Water costs after 8 years

€ 15.627

IM-240DNE-HC

Total Electricity & Water costs after 8 years

€ 10.905



Modular icemaker

Electricity costs – after 8 years at € 0,12/kWh	€ 15.558	€ 11.773	€ 7.821
Water costs – after 8 years at € 3,3/m3	€ 3.565	€ 3.854	€ 3.084
Total after 8 years	€ 19.123	€ 15.627	€ 10.905
Energy Consumption	1850 W/h	1400 W/h	930 W/h
Water Consumption	0,37 m3/24h	0,40 m3/24h	0,32 m3/24h

^{*}Source: Market research – manufacturers' websites Bigger and modular icemaker, production capacity 155-195 kg: Cost savings in the range of 4.700 to 8.200 EUR over 8 years compared with other major brands in the market.

GREEN CREDENTIALS

ISO certificates

Gram Commercial A/S Environmental management system ISO 14001:2015 Quality management system ISO 9001:2015

Hoshizaki Europe Limited, Telford, UK. Quality management system ISO 9001:2015

Hoshizaki (Suzhou) Co., Ltd. Environmental management system ISO 14001:2004 Valid until July 29, 2020.

Hoshizaki America, Inc.
Environmental management system ISO 14001:2015
Quality management system ISO 9001:2015

HJ is 9001/2015

Sustainability and Product Excellence awards won:

2017:

Dec., UK

The Caterer Product Excellence Awards
GRAM SUPERIOR PLUS wins the refrigeration category

Nov., Ul

Hoshizaki wins Catering Insight's Supplier of the Year for Sustainability

May, UK

Footprint Award in the Energy Efficiency Category SUPERIOR PLUS K72G

March, Europe

ProCold 'Most Energy Efficient Product in Europe' Award in the Vertical Chilled Storage Cabinet category.

GRAM SUPERIOR PLUS K 72

2014 - 2016:

Green Good Design Award, 2015 SUPERIOR PLUS 72

Catering Insight Award, UK, 2015 SUPERIOR PLUS 72 Supplier of the Year, Sustainability Award

SUSTAINABLE CATERING EQUIPMENT MANUFACTURER AWARD 2015, UK

Foodservice Footprint Award, 2015, UK. SUPERIOR PLUS 72

Winner of Sustainable Equipment Manufacturer category

FCSI Sustainable Equipment Award 2014, UK

The Caterer Product Excellence Award 2014, UK

Catering Insight's Equipment of the Year 2014, UK

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