Sustainability Solution for Ice Cream Market

Designed & Built in Singapore

Current Ice Cream Sales Channel

Most countries have similar ice cream market share for various sales channels.
This skewed sales channel scenario need to be more customer-centric, to increase sales and be environmental friendly.

Store-Based Retail
>97%
Market Share

Modern Trade

15km

General Trade

Tens of thousand unit
<1,000 per freezer

Not Available

Non-Retail
~ 0%
Market Share

No Suitable Vending Machine

3 Days Delivery

e-commerce
<3%
Market Share

- Need cooler bag / ice gel
- Long delivery lead time
- Need to buy in bulk

Growth with SMART & Sustainability

HappyIce's IoT vending solution promotes sustainable growth with SMART features, energy efficient, streamlining inventory, and reduce CO2 emissions per sale

Non-Retail
0% → 10%
Market Share

At Convenient, Targeted Location
5,000 per machine

Energy Saving
200 watt

IOT

CO^2 Reduction

15 Mins

Max 2.5km

e-commerce
3% → 20%
Market Share

API
Work with Most e-platfoms

Self Collection or Rider Delivery

Vending Machine Specification

Dimension (WxDxH)	720 x 900 x 1980 mm
Weight	260kg
Total Storage Volume	390 liter
Cooling temperature	-25°c
Rated Voltage	220-240 V~
Rated Power	205 watt
Rated defrost power	400 watt
Defrost system	Auto-defrost
Rated Current	0.9 A
Startup surge current	6.5 A
Refrigerant, Amount	R600a, 50g
Climate Class	T (16 to 43 °c)
Max sku & capacity	16sku, 600pcs

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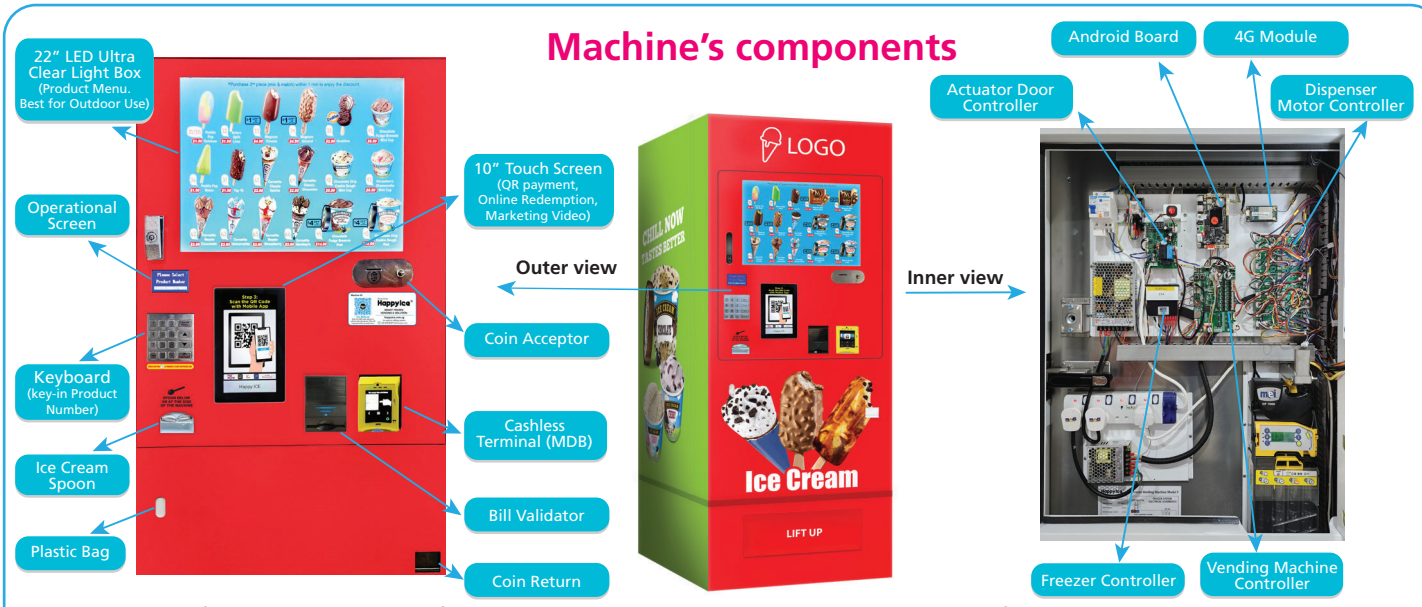
HappyIce®
SMART FROZEN VENDING & SOLUTION

happyice.com.sg

Machine's components



Outer view of the machine. User's interface to purchase product from vending machine

After opening the Outer door, is the location for machine's controller components

General Features

- Product Menu: 22" LED ultra clear light box, and 10" digital screen
- MDB compliant
- Cash (bill and coin) and cashless system compatible
- Guaranteed product delivery; if not, no money deduction
- Remote monitoring capability (live-view temperature, sales, inventory etc)
- Purchase-with-Purchase feature: second purchase to enjoy discount
- Available of spoon dispenser and plastic bag dispenser

Refrigeration

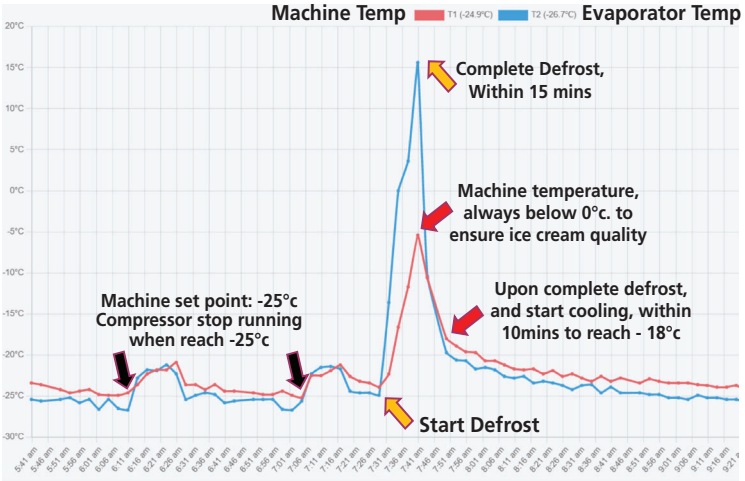
- Energy efficient (80% lower electric consumption than conventional frozen vending machine)
- High efficient refrigerant: R600a
- Auto defrost. During defrost, able to maintain all the time to be below freezing point, to ensure ice cream quality
- 12hrs thermal holding power (during power loss, can hold 12hours to keep ice cream remain safe)

Live view machine status

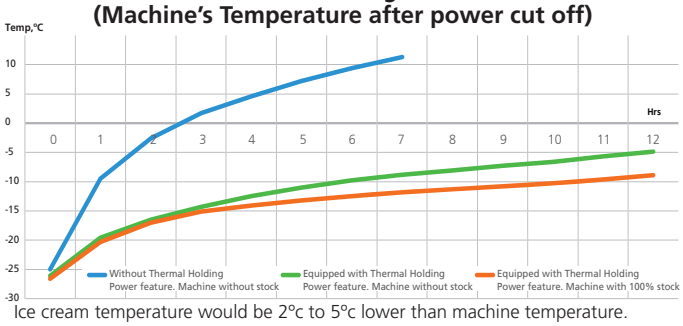
Name	Temp1(°C) Δt1-t2	Inventory Status (#Channel, Sold, Balance/Capacity)			Errors	Balance Stock	Remaining SKU#	$ Sales (qty) Today Y'day Last7d Last30d	Status
UFI-2331	-24.4 55s ago 0.8	#31, 8, 13/21	#32, 22, 0/22	#33, 0, 15/15	#63, (9) 230506 06:00pm	133/ 336 (40%)	13/ 19 (68%)	19.80 (11) 65.40 (22) 292.60(123) 1,002.40(491)	Online 4s ago
		#34, 11, 4/15	#35, 21, 0/21	#36, 14, 8/22					Drop Sensor Enabled
		#37, 15, 0/15	#38, 4, 11/15						Fan Speed 4477
		#41, 6, 4/10	#42, 10, 0/10	#43, 6, 4/10					Door Close
		#44, 4, 0/4	#45, 2, 2/4						Coin 81.30
		#61, 13, 13/26	#62, 5, 20/25	#63, 21, 4/25					
		#64, 20, 6/26	#65, 8, 17/25	#66, 13, 12/25					

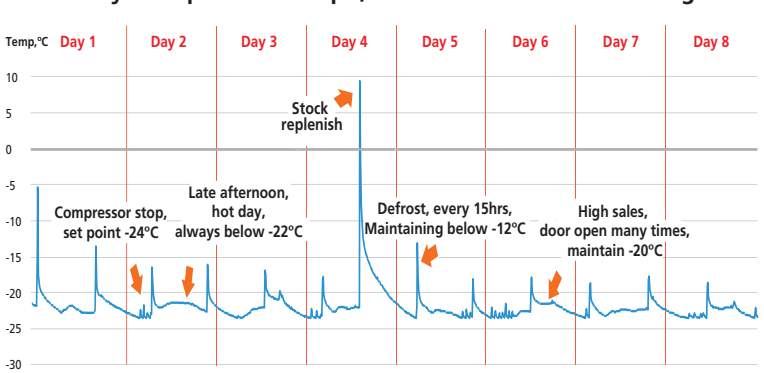
Cloud based live-view on machine status: temperature, inventory, sales, error, Coin & Bill equipment condition
Fully integrated with NAYAX cashless terminal: Provide pre-defined SMS alarm notification Detail Sales report

Auto defrost cycle, every 15hrs



Thermal holding power



Ice cream temperature would be 2°c to 5°c lower than machine temperature.
In the event of loss of electric power, this 12 hours thermal holding power feature, can protect ice cream from melt. This can reduce losses and ensure highest ice cream quality and customer satisfaction

Temperature (outdoor) Climate class: t (up to 43°c)