



Flower Vending Machine

A smart self-service retail device integrated with precise refrigeration control, IoT management and modular structural design. It maintains a constant temperature of 4–12°C to keep flowers fresh and uses transparent compartments with independent lighting for clear product display. The machine supports full-process automatic shopping including selection, payment and door opening, providing customers with safe, efficient and 7×24h unmanned retail service.

Business Challenges of Flower Vending Machine



Strict Freshness Preservation Requirements

Flowers are highly perishable and require stable temperature control (4–12°C) and professional refrigeration systems, increasing technical difficulty and equipment costs.



High Operational & Maintenance Complexity

Regular flower replenishment, lighting adjustment, compartment cleaning, and refrigeration system upkeep demand continuous manpower and standardized management.



Unmanned Retail Adaptation Difficulties

Unmanned self-service requires stable payment systems, secure lock control, and remote IoT monitoring; hardware–software compatibility and outdoor durability also raise development and deployment barriers.

“ Solution ”

Zhilai smart vending machine restructures the retail ecology based on "Full-scenario Penetration + Data Closed-loop", and deeply integrates IoT sensing, AI visual recognition and block chain tracking technology to create the smart retail network. The machine combines multi-mode interaction screen, smart goods shelf and adaptive temperature control system to realize accurate marketing, optimize supply chain, improve revenue per available square meter in community, transportation hub, etc., and establish the next generation of retail infrastructure "Fulfill immediate demand immediately and create an ecology for each locker".

Key Features of Fresh Flower Vending Machine

- 24/7 unmanned retail operation
- Precise temperature control at 4–12°C
- Independent LED lighting for each compartment
- 10.1-inch touch screen for easy operation
- Double door magnetic lock for safety & anti-theft
- Self-service shopping for easy purchase
- Transparent compartment window for clear display
- Modular cooling & power design on top
- European POS multi-payment support
- Remote intelligent control & U disk upgrade

Specification of Fresh Flower Vending Machine

Item	Specification	Remarks
Input voltage	AC110V-120V, 60HZ AC220V, 50HZ	US version EU version
Rated power	700w	
IPC configuration	Rk3568, 2G+16G	
Screen dimension	10.1"	
POS terminal	(optional)	(optional)
Electric lock	Zhilai ZL-21A	
Light	White; color temperature 5000K	
Network connection method	LAN/4G	
Number of compartments	14	
Dimension (W*H*D)	1396*2220*829 (mm)	With locker feet
Compartment type/dimension	S (6) Net dimension: 235.5*320*50 L (8) Net dimension:235.5*500*500	W*H*D/mm
Material	Exterior panel: galvanized steel. Inner liner: stainless steel. Locker frame: polyurethane foaming.	
Weight	380KG	Net weight for reference only.
Operating temperature	-10~40°C	
Storage temperature	-30~60°C	
Cooling temperature	7- 13°C	
Refrigerant	R290	
Foaming agent	Polyurethane	
Heating module	Fin heater	Optional

Application Scenarios of Vending Machine for Flowers



Shopping Mall



Airport & Transportation Hub



Hospital