



## Precise Temp. Control

Microcomputer Temperature Control System, temperature accuracy 0.1°C.

## Security System

Multi-alarm system with lockable door

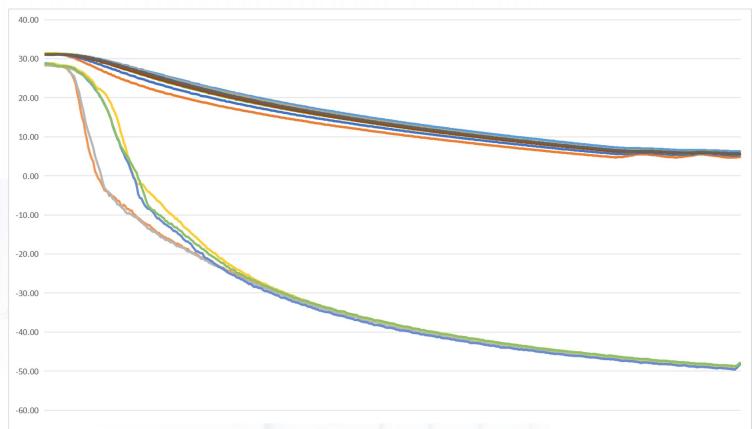
## Eco-Cool Refrigerant

R290 R600a (natural hydrocarbon, low-GWP) refrigerant ensures zero ozone depletion and lower climate impact.

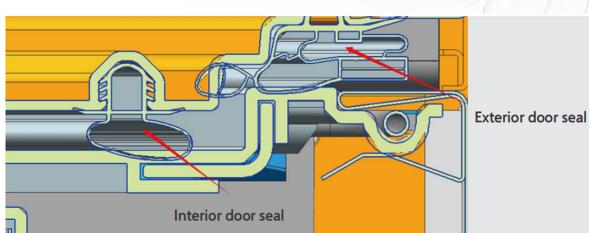
### Dual independent cooling system



### Cooling Speed(Ambient 25°C)



### Three-dimensional seal



### Safety Lock

Lockable door with key



### Multiple Alarms

Audible and visual alarms, remote alerts, high/low temperature warnings, door closure detection, power failure alerts, ambient temperature alarm, record fault alarm, record is not start alarm, low battery alarm and sensor fault monitoring.



### USB Interface

RS-485(Optional)



### Low Noise

50dB(A)



### Backup Battery

Maintains alarms for 16 hours during power failure



### Wheels

4 Swivel Casters + 2 Leveling Feet

### Application, Rating, & Electrical Data

Application	Combined refrigerator and freezer
Storage Volume (L/Cu.Ft)	Fridge:206/7.27   Freezer:144/5.08
Temperature Range	Fridge:2°C-8°C   Freezer:-10°C~-40°C
Default Set Point	Fridge:5°C   Freezer:-40°C
Power	115~V/60Hz   220-240~V/50Hz   220-240~V/60Hz
Current	3.8A   3.2A   2A
Power Cord Length	1.7m
Certification	CE/UL/FDA list
Door type	Solid door
Application Environment	Non-corrosive, non-flammable, non-explosive
Ambient Operating Temperature	10°C~32°C

### Refrigeration

Refrigeration System	Fridge:Forced air cooling   Freezer:Direct cooling
Compressor	Hermetic, fixed frequency
Condenser Type	Built in
Expansion Device	Capillary tube
Evaporator Type	Fridge: built in   Freezer: shelf evaporator
Defrost Method	Fridge : auto   Freezer: manual defrost
Refrigerant	Fridge: R600a   Freezer: R290

### Controller / Configuration Settings

Display screen	LED
Controller Type	Microprocessor
Security	Lockable door, password protected settings
Control Sensor	NTC
Communication Ports	USB, Remote alarm contacts
Power Failure Alarm	Yes
High/Low Alarms	Yes, fully adjustable
Door Ajar Alarm	Yes
Download	Yes, via USB, PDF
Temperature Log	Yes, download via USB
Battery Back-up	Yes, 16 hr display and alarm back-up   Rechargeable 12V, lead acid

### Performance Characteristics (normal operating conditions)

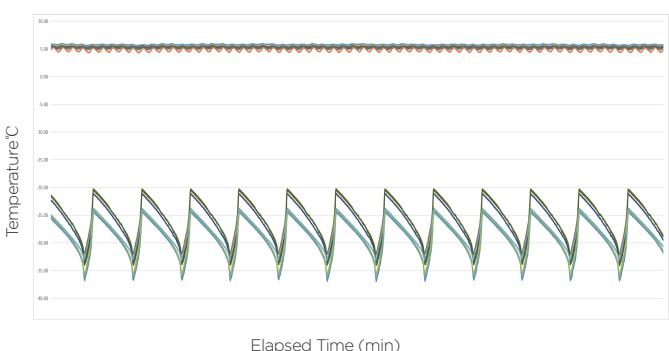
Uniformity   (°C)	Fridge:±1.5°C   Freezer:≤3°C
Temperature fluctuation   (°C)	Fridge:≤2°C
Energy consumption   (kWh/day)	2   3   1.6
Noise emission   dB(A)	50
Pull-down time to -40°C   (min)	180

### Dimensions and Construction

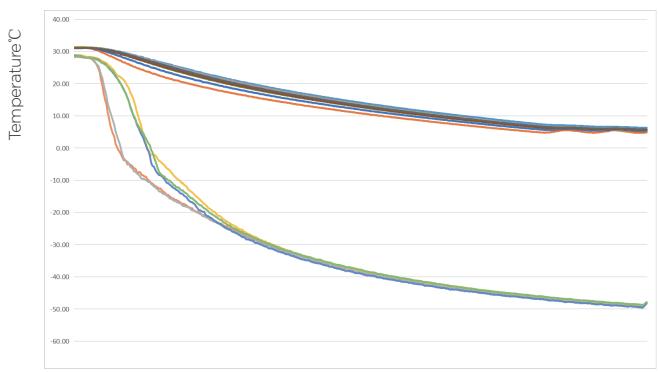
Interior (w*d*h)	Fridge:600*505*690   Freezer:540*480*560 mm
Exterior (w*d*h)	695*655*1920 mm
Access Port	2 Access Port- for external monitoring probe(s) (25 mm diameter)
shelf	Fridge:3   Freezer:3 drawers   18 kg max capacity
Wheels	4 Swivel Casters + 2 Leveling Feet
Net Weight	109 kg
Gross Weight	121 kg

All performance data from 350L combined refrigerator and freezer

### Uniformity



### Cooling Speed



### Typical Temperature Map

Ref	test 1	test 2	test 3	test 4	test 5	test 6	test 7	test 8	test 9
Avg	5.75	4.83	5.24	5.48	5.15	5.25	5.37	5.33	5.41
Max	5.90	5.30	5.40	5.70	5.40	5.40	5.50	5.50	5.60
Min	5.60	4.30	5.10	5.30	4.90	5.10	5.20	5.10	5.20

Fre	test 1	test 2	test 3	test 4	test 5	test 6	test 7	test 8	test 9
Avg	-25.49	-26.38	-25.87	-27.97	-29.06	-28.93	-28.81	-29.25	-28.86
Max	-20.500	-21.10	-20.30	-23.80	-24.20	-24.00	-24.20	-24.40	-24.10
Min	-32.10	-33.60	-34.10	-33.10	-36.40	-36.70	-35.70	-36.90	-36.00

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