SUMMIT

FFBF191SS



79" x 23.63" x 25.63" (H x W x D)

Counter depth ENERGY STAR certified bottom freezer refrigerator in a slim fit, with frost-free operation, stainless steel doors, and digital controls

Highlights:

ENERGY STAR certified for guaranteed savings

Full 13.3 cu.ft. capacity in a slim counter depth fit

Bottom freezer design allows easier access to the refrigerator

Fully frost-free in both compartments for low maintenance use

Product Features:

ENERGY STAR certified	Rated by the DOE to perform with more efficiency than federal standards require, saving your unit energy and you on higher utility costs	
Bottom freezer	Convenient design keeps all refrigerated storage at eye level for easier use	
Full capacity in slim fit	Unique size offers a full 13.3 cu.ft. capacity in less than 24" of width	
Digital thermostats	Separate digital controls let you adjust the refrigerator and freezer section, with a digital display viewable in Celsius or Fahrenheit	
Frost-free operation	Eliminates the need to manually defrost the refrigerator or freezer section	
Adjustable glass shelves	Rearrange your refrigerator space to accommodate all shapes and sizes or remove shelves for a simple clean-up	
Door storage	Store tall bottles and condiments right on the door for convenient access	
Multiple crispers	Two clear crispers offer the perfect storage conditions for meats, dairy items, and produce. The lower crisper includes a dial for humidity control	
LED lighting	Automatically illuminates when you open the door	

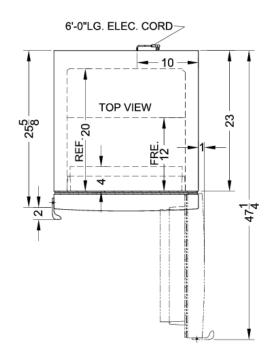




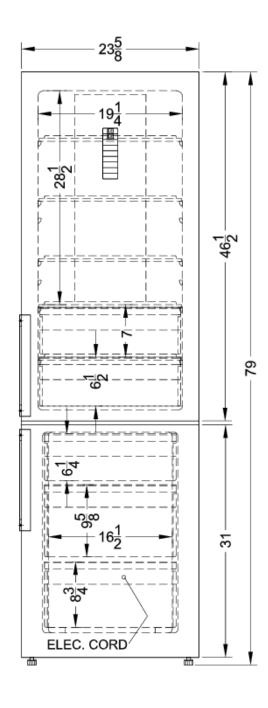
FFBF191SS Specifications:

Overview	
Height	79.0"
Width	23.63"
Width with Door Open	24.63"
Depth	25.63"
Depth with Handle	27.63"
Depth with door at 90°	47.25"
Capacity	13.3 cu.ft.
Defrost Type	Frost-Free
Door	Stainless Steel
Cabinet	Platinum
US Electrical Safety	CSA
Canadian Electrical Safety	CSA-C
Energy Usage/Year	413.0kWh/year
Amps	1.5
Voltage/Frequency	115 V AC/60 Hz
Weight	183.0 lbs.
Shipping Weight	205.0 lbs.
Parts & Labor Warranty	1 Year
Compressor Warranty	5 Years
Refrigerator-Freezer	
Door Swing	RHD
Reversible	Factory Reversible
Crisper Qty	2
Crisper Finish	Transparent
Crisper Cover	Glass
Refrigerator - Shelf Type	Glass
Refrigerator - Shelf Qty	3
Refrigerator - Full Door Shelves	4
Adjustable Shelves	Yes
Interior Light	Yes
Thermostat Type	Digital
Fan Type	Interior
Refrigerant Type	R134a
High Side PSI	250.0
Low Side PSI	88.0
Level Legs	2

Interior Drawers	Yes
Drawer Qty	3
Interior Height - Drawer 1	8.75"
Interior Width - Drawer 1	16.5"
Interior Depth - Drawer 1	12.0"
Interior Height - Drawer 2	9.63"
Interior Width - Drawer 2	16.5"
Interior Depth - Drawer 2	12.0"
Interior Height - Drawer 3	6.25"
Interior Width - Drawer 3	16.5"
Interior Depth - Drawer 3	12.0"







SAFETY DATA SHEET

R134a

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name R134a

Synonyms HFC 134a; 1,1,1,2-tetrafluoroethane

Chemical Formula CH₂-F-CH₃

CAS No 811-97-2

Use of Substance Industrial uses as refrigerant, blowing agent, propellant

and solvent.

Manufacturer Juhua Group Corporation

No. 849 Jiangcheng Rd, Hangzhou, Zhejiang Province, 310009

Contact Number +86-570-3098687

Emergency Phone Number (24 hr) +86-570-3097819

SDS Reference Number CSDS/FH 14-2015

2. HAZARDS IDENTIFICATION

					Labeling
Chemical Name	CAS No.	Classification Code	H-code	Signal Word	Hazard Pictogram
R134a	811-97-2	Press. Gas	H 280	Warning	\Diamond

Classification of the substance Press. Gas : Gases under pressure

(Liquefied gas)

Hazard Statement H 280 : Contains gas under pressure; may explode if heated.

> **OSHA** - : May displace oxygen and cause rapid suffocation.

H01

CGA : May cause frostbite.

HG01

Do not handle until all safety precautions have been read **Precautionary Statement** P 202

and understood.

P 262 : Do not get in eyes, on skin, or on clothing.

P 271 + P : Use only outdoors or in a well-ventilated area. Store in a

403

well-ventilated place.

P 304, P : IF INHALED: Remove victim to fresh air and keep at

340, P 313 rest in a position comfortable for breathing. Get medical

advice /attention.

P302, P: IF ON SKIN: Thaw frosted parts with lukewarm water.

336, P 315 Do not rub affected area. Get immediate medical

advice/attention.

CGA-PG02 : Protect from sunlight when ambient temperature exceeds

52 °C (125°F).

CGA-PG05 : Use a back flow preventive device in the piping.

CGA-PG06 : Close valve after each use and when empty.

CGA-PG27 : Read and follow the Safety Data Sheet (SDS) before use.

OSHA- : DO NOT REMOVE THIS PRODUCT LABEL (or

PG01 equivalent wording).

Contact with liquid or cold vapor can cause frostbite.

Low acute toxicity.

High exposures may cause an abnormal heart rhythm and prove suddenly

fatal.

Very high concentrations may cause anesthetic affects and asphyxiation. Contains fluorinated greenhouse gases covered by the Kyoto Protocol.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Other Hazards

Common Name	Ingredient	CAS Number	Specification	OSHA-PEL
R134a	1,1,1,2- tetrafluoroethane	811-97-2	100% (w/w)	None established.

^{*}Contains no other components or impurities which influence the classification of the product.

4. FIRST AID MEASURES

Eye Contact Contact with liquid or cold vapor can cause frostbite.

Immediately flush with water for at least 15 minutes, opening

eyelids to ensure flushing.

Get medical attention if symptoms occur.

Inhalation Victims should be assisted to an uncontaminated area is most

important.

Move exposed person to fresh air.

If not breathing, provide artificial respiration or oxygen by

trained personnel.

In the event of cardiac arrest apply external cardiac massage.

Further treatment should be symptomatic and supportive.

Keep victim warm and quiet.

PROMPT MEDICAL ATTENTION IS MANDAROTY IN

ALL CASES OF OVEREXPOSURE.

RESCUE PERSONNEL SHOULD BE EQUIPPED WITH

SELF-CONTAINED BREATHING APPARATUS.

Skin Contact Take off the contaminated clothing / shoes immediately.

Flush the affected area with lukewarm water not exceeds 105°F

(40°C) immediately.

Get medical attention if symptoms occur.

Ingestion Unlikely route of exposure.

Do not include vomiting.

Provided the patient is conscious, wash out mouth with water

and give 200-300ml of water to drink.

Get medical attention if symptoms occur.

Most important symptoms and effects, both acute and delayed

High concentrations may cause asphyxiation.

Symptoms may include loss of mobility/ consciousness.

Victim may not be aware of asphyxiation.

As asphyxiation progresses, nausea, vomiting, prostration, and loss of consciousness may result, eventually leading to convulsions, coma, and death.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

None known

Special hazards arising from the chemical

Exposure to fire may cause containers to rupture/explode. R134a does not support life. It act as a simple asphyxiant.

Special protective equipment and precautions for fire fighters

In case of fire: Stop leak if safe to do so.

Continue water spray from protected position until container stays cool.

In confined space use self-contained breathing apparatus (opencircuit positive pressure compressed air type) in combination with fire kit.

Thermal decomposition will evolve very toxic and corrosive vapors (hydrogen fluoride).

HFC 134a is not flammable in air under ambient condition of temperature and pressure.

Certain mixtures of HFC 134a and air when under pressure maybe flammable. $\,$

Certain mixtures of HFCs and chlorine may be flammable or reactive under certain conditions.

Safety gloves and shoes, or boots, should be worn when handling cylinders.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Ensure suitable personal protection (including respiratory

protection) during removal of spillages.

Evacuate surrounding areas.

Keep unnecessary and unprotected personnel from entering.

Environmental precautions If safe to do so: isolate the source of the leak.

Large spillages: Ventilate area.

Contain spillages with sand, earth or any suitable adsorbant

material.

Try to stop release.

Prevent from entering sewers, basements and work pits, or any

place where its accumulation can be dangerous.

7. HANDLING AND STORAGE

Precaution for safe handling

Avoid inhalation of high concentrations of vapors.

Atmospheric level should be controlled in compliance with the occupational exposure limit. Atmospheric concentrations well below the occupational exposure limit can be achieved by good occupational hygiene practice.

The vapor is heavier than air, high concentrations may be produced at low levels where general ventilation is poor.

In such cases, provide adequate ventilation or wear suitable respiratory protective equipment with positive air supply.

Avoid contact with naked flames and hot surfaces as corrosive and very toxic decomposition products can be formed. Avoid contact between the liquid and skin and eyes.

Use only properly specified equipment which is suitable for this product, its supply pressure and temperature.

Suck back of water into the container must be prevented.

Do not allow back feed into the container.

Contact your gas supplier if in doubt.

Never use direct flame or electrical heating devices to raise the pressure of cylinder.

Valve protection caps must remain in place unless container is secured with valve outlet piped to use point.

Do not drag, slide or roll cylinders.

Use a suitable hand truck for cylinder movement.

Use a check valve or trap in the discharge line to prevent hazardous back flow into the cylinder.

Use a pressure regulator when connecting cylinder to lower pressure piping or systems.

Avoid venting to atmosphere.

Condition for safe storage

Keep away from ignition sources (including static discharges).

Do not allow the temperature where cylinders are stored to exceed 125°F (52°C).

Use a "first-in-first out" inventory system to prevent full cylinders from being stored for excessive period of time.

Store in cool, dry, well-ventilated area of non-combustible construction away from heavily trafficked areas and emergency exits

Full and empty cylinders should be segregated.

Containers should not be stored in conditions likely to encourage corrosion.

Container should be stored in the vertical position and properly secured to prevent falling over.

Outside or detached storage is preferred.

Post "No Smoking" signs in use or storage areas.

There should be no accidental ignition in areas where this product is being used or stored.

Avoid storing near to the intake of air conditioning units, boiler units, and open drains.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters Exposure Limit: OSHA-PEL

Chemical Name	Eight-hour time-weighted average airborne concentration	
	ppm	mg/m ³
R134a	-	-
(1,1,1,2-		
Tetrafluoroethane)		

Appropriate engineering controls

Use local exhaust and general ventilation systems.

Engineering control measures are preferred to reduce oxygen depleted atmospheres.

General methods include force-draught ventilation, separate from other exhaust ventilation systems.

Ensure that sufficient fresh air enters at, or near, floor level.

Personal protection equipment

Wear goggles for eye protection.

Protective gloves made of any suitable material. Contact lens should not be worn when working. Wear suitable hand, body and head protection. Do not eat, drink or smoke when using the product.

For emergency release use a positive pressure NIOSH approved air supplying

respirator systems (SCBA or airline/escape bottle)

9. PHYSICAL AND CHEMICAL PROPERTIES

Viscosity

Appearance Colorless, Liquefied gas **Odour** Slightly ethereal. **Odour threshold** Odour threshold is subjective and inadequate to warn for over exposure. pН Not applicable Melting point / Freezing point -101 °C **Boiling point** -26.5 °C Flash point Not applicable **Evaporation rate** Not available Not available **Flammability** Not available Upper/lower explosive limit Vapour pressure 4270 mmHg at 20°C Vapour density (Air =1) 3.66 at normal boiling point 1.208 Water : 25°C, 1atm Relative density Slightly soluble Solubility (H₂O) **Partition coefficient** 1.06 logPow The product is more soluble in octanol. Auto ignition temperature Not applicable **Decomposition temperature** Not available

Not applicable

10. STABILITY AND REACTIVITY

Reactivity No reactivity hazard other than the effects described in sub-

sections below.

Chemical Stability Stable.

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Possibility of hazardous reactions Certain mixtures of HFCs and chlorine may be flammable or

reactive under certain conditions.

Can react violently if in contact with alkali metals and alkaline

earth metals - sodium, potassium, barium.

Condition to avoid Keep away from heat/sparks/open flames/hot surfaces - No

smoking.

Incompatible materials: finely divided metals, magnesium and

alloys containing more than 2% magnesium.

Hazardous decomposition products

Hydrogen fluoride by thermal decomposition and hydrolysis.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

sensitization

Acute toxicity Oral: $LD_{50} > No$ information available.

Dermal: $LD_{50} > No$ information available. Inhalation: $LC_{50} > Rat$, 2,080,000 mg/m³ 4hrs

Skin corrosion / irritation Not classified

Serious eye damage/irritation Not classified

Respiratory or skin Not classified

Germ cell mutagenicity Not classified

Carcinogenicity product Not classified

Reproductive toxicity productNot classified

Specific target organ toxicity – Not classified single exposure product.

Specific target organ toxicity – Not classified repeated exposure product

Aspiration hazard product Not applicable to gases and gas mixtures.

12. ECOLOGICAL INFORMATION

Ecotoxicity effect

Acute toxicity product No ecological damage caused by this product

Additional ecological information No ecological damage caused by this product.

Persistence and degradability Not readily biodegradable.

Bioaccumulative potential Not expected to bioaccumulate due to the low log Kow (log

Kow < 4).

Mobility in soil No data available.

Global Warning Potential [CO₂=1]: 1300.

13. DISPOSAL CONSIDERATIONS

Waste from residue / unused Do not attempt to dispose of residual waste or unused

product qunatities.

Contact supplier if guidance is required.

Contaminated packaging Do not reuse empty containers.

Empty remaining contents.

Dispose of container and unused contents in accordance

with local and national regulation.

Return cylinder to supplier

14. TRANSPORT INFORMATION

UN Number UN 3159 UN proper shipping name 1,1,1,2-Tetrafluoroethane Transport hazard class(es) 2.2 Packing group **Environmental hazards** Not applicable Special precautions for user None Not available Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code **Others Information** Ensure the driver is understand well on the potential hazards of the load and knows what to do in the event of an accident or an emergency. Secured the product containers before transporting it.

Ensure adequate air ventilation.

Ensure that the cylinder valve is closed and not leaking. Container valve guards or caps should be in place.

15. REGULATORY INFORMATION

Contact local government authority.

16. OTHER INFORMATION

16. OTHER INFORMATION

Legend to the abbreviations ad acronyms used

Classification of the substance

Press. Gas

Gases under pressure
(Liquefied gas)

LC₅₀ : Lethal Concentration

LD₅₀ : Median Lethal Dose

EC50 : Half Maximal Effective Concentration

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