

SERVICE MANUAL

● MODEL:



CRT-77-1R
CRT-77-2R

● SPECIFICATION

MODEL	DOOR	CU./FT.	HP	V/Hz/Amps	Refrigerant
CRT-77-1R	1	3.0	2/9	115/60/2.65	R134A(2.927Ounce)
CRT-77-2R	2	3.0	2/9	115/60/2.65	R134A(2.927Ounce)

● PARAMETER

Parameter	Model	CRT-77-1R	CRT-77-2R
Coolant and injection quantity		R134a (2.927 Ounce)	R134a(2.927 Ounce)
Rated Input Power (W):		165	165
Type of climate		N	N
Refrigeration temperature		0~12°C/32~53.6 °F	0~12°C/32~53.6 °F
Electricshock protection class		I	I
Power consumption(KW.H/24H)		2	2
High-side design pressures		3MPa	3MPa
Low-side design pressures		0	0
Total effective volume		82L (21.7gal.)	86L (22.7gal.)
Net weight		35.5kg (78.3Lbs)	36kg (79.4Lbs)
Rated Voltage(V)		115V~	115V~
Rated Frequency(Hz)		60Hz	60Hz
Overall dimension		425x404x980mm	425x429x980mm
		16.73x15.91x38.58inch	16.73x16.89x38.58inch
Package dimension(mm)		480x450x1035mm	480x480x1035mm
		18.9x17.72x40.75inch	18.9x18.9x40.75inch

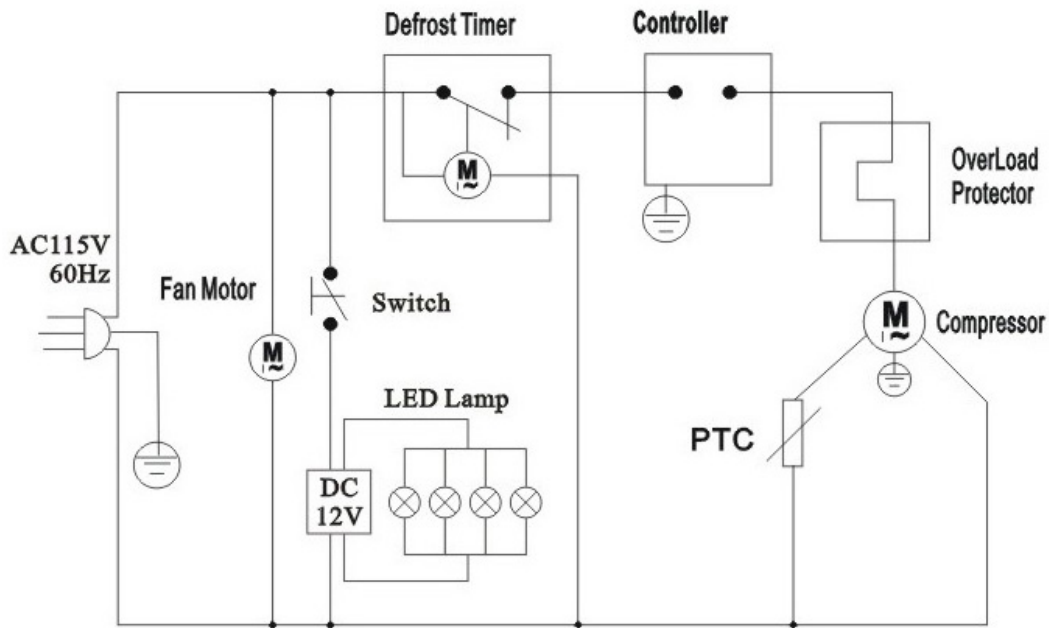
● TEMPERATURE CONTROL

Settings	Cabinet temperature
Low	6~12°C/42.8~53.6°F
Mid	5~11°C/41~51.8°F
High	4~10°C/39.2~50°F
Freeze	3~9°C/37.4~48.2°F

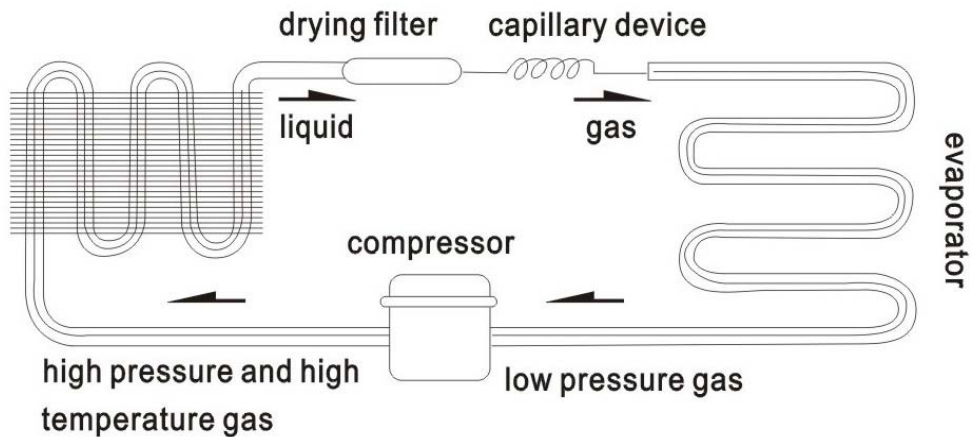
● **WORKING TEMPERATURE RANGE**

16~32°C/61~90°F.

● **CIRCUIT DIAGRAM**



● **COOLING SYSTEM**

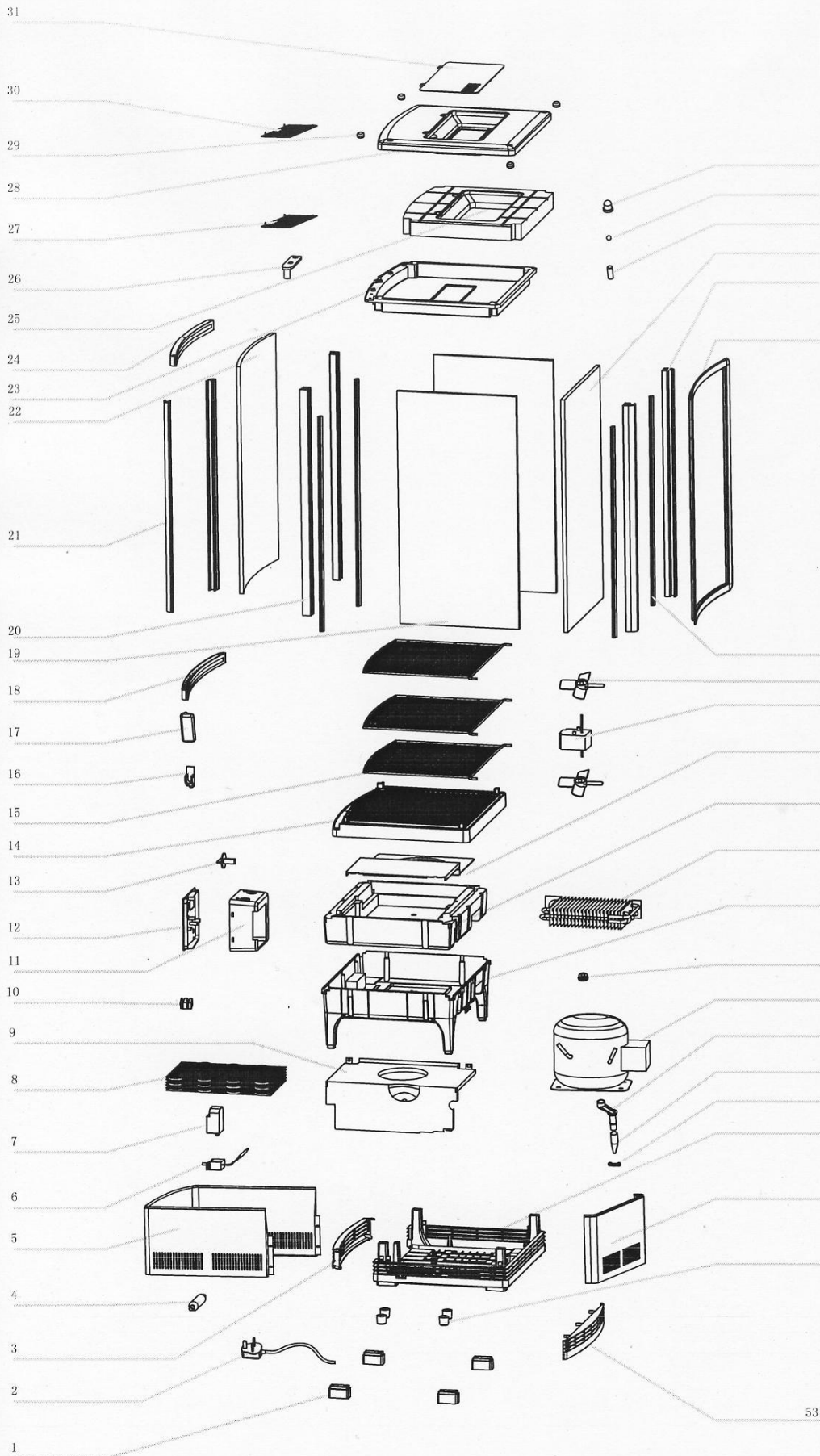


● **EXPLODED VIEW and SPARE PARTS LIST**

CRT-77-1R

CRT-77-1R

Exploded View



53	Nesting	ABS
52	Plastic Feet2	ABS
51	behind fence	0.5mmStainless steel
50	Plastic Base	ABS
49	Cord Clamp	PP
48	Water Leakage Tube2	Rubber
47	Water Leakage Tube1	Rubber
46	Compressor	
45	Rubber Washer	Rubber
44	Evaporator Seat	Aluminium
43	Evaporator	
42	Foam Base	Foam
41	Clapboard	PP
40	Motor	
39	Fan Blade	ABS
38	LED lamp	
37	Magnetic Strip	
36	Behind Side Frame Of The Cabinet	PVC
35	Behind Glass	Double layer glass
34	Pin	Steel
33	Steel Ball	Steel
32	Door Bushing	POM
31	Small Cover	ABS
30	Transparent Board2	ABS
29	Stoppie	PVC
28	Upper Cover	ABS
27	Transparent Board1	ABS
26	Upper Link	3mm Steel
25	Heat Insulation Foam	Foam
24	Upper Doorframe	ABS
23	Ceiling	ABS
22	Door Glass	Double layer glass
21	Side Doorframe	PVC
20	Side Frame Of The Cabinet	PVC
19	Side Glase	Double layer glass
18	Bottom Doorframe	PVC
17	Doorknob	ABS
16	Rack holder	ABS
15	Rack	Steel
14	Air outlet and suction	ABS
13	Adjuster	ABS
12	Panel	ABS
11	Plastic Box	PP
10	Clip	PE
9	Protect Board	Galvanization Steel
8	Condenser	
7	Defrost Timer	
6	Thermostat	Mechanical
5	Front Fence	ABS
4	Liquid Storage Tube	Cu
3	Back Door	ABS
2	Power Cord	
1	Plastic Foot1	ABS
No.	Part Name	Material/Specification

CRT-77-2R

Exploded View

51	Nesting	ABS
50	Plastic Feet2	ABS
49	behind fence	0.5mmStainless steel
48	Plastic Base	ABS
47	Cord Clamp	PP
46	Water Leakage Tube2	Rubber
45	Water Leakage Tube1	Rubber
44	Compressor	
43	Rubber Washer	Rubber
42	Evaporator Seat	Aluminium
41	Evaporator	
40	Foam Base	Foam
39	Clapboard	PP
38	Motor	
37	Fan Blade	ABS
36	Magnetic Strip	
35	LED lamp	
34	Pin	Steel
33	Steel Ball	Steel
32	Door Bushing	POM
31	Small Cover	ABS
30	transparent Board2	ABS
29	Stopple	PVC
28	Upper Cover	ABS
27	transparent Board1	ABS
26	Upper Link	3mm Steel
25	Heat Insulation Foam	Foam
24	Upper Doorframe	ABS
23	Ceiling	ABS
22	Door Glass	Double layer glass
21	Side Doorframe	PVC
20	Side Frame Of The Cabinet	PVC
19	Side Glase	Double layer glass
18	Bottom Doorframe	PVC
17	Doorknob	ABS
16	Rack holder	ABS
15	Rack	Steel
14	Air outlet and suction	ABS
13	Adjuster	ABS
12	Panel	ABS
11	Plastic Box	PP
10	Clip	PE
9	Protect Board	Galvanization Steel
8	Condenser	
7	Defrost Timer	
6	Thermostat	Mechanical
5	Front Fence	ABS
4	Liquid Storage Tube	Cu
3	Back Door	ABS
2	Power Cord	
1	Plastic Foot1	ABS
No.	Part Name	Material/Specification

Fault		What problem is?	How to solve?
No Cooling	Compressor does no work.	1. No power or wrong Voltage and Frequency of Power.	Connect the right Power.
		2. Bad power cord.	Change power cord.
		3. Temperature Controller is bad.	Change Temperature Controller.
		4. Overload protector of compressor is bad.	Change overload protector.
		5. Starter relay of compressor is bad.	Change starter relay of compressor.
		6. Compressor is bad.	Change compressor and add refrigerant.
	Compressor works.	1. Blockage in Water Leakage Tube (#47, #48) , which cause to freeze.	Please see "Remark 2" hereunder.
		2. Refrigerant leakage.	Check where leakage, repair and add refrigerant.
		3. No exhaust from Compressor.	Change compressor and add refrigerant.
		4. Blockage in Cooling System.	Clear Cooling System. Change filter and add refrigerant.
		5. Blockage in Eva.	Change Defrost Timer (#7) or temperature controller.
		6. Motor does not work or blade or blade fall off.	Change Motor or fix the blade.
		7. Something blocks the outlet.	Clear the outlet.
		8. Bad heat elimination of condenser.	Keep far from heat source. Keep clear of base outlet.
Cooling is not good.	Compressor works continuously.	1. Object is too much.	Reduce object.
		2. Something blocks the outlet.	Clear the outlet.
		3. Does not close the door or the door doesn't fasten up.	Close the door or change the door.
		4. Compressor is bad.	Change compressor and add refrigerant.
		5. a little blockage of compressor	Clear the compressor.
		6. a little leakage of compressor	Check where leakage, repair and add refrigerant.
	Compressor works on and off.	1. Surrounding temperature is too high. (working temperature range is 16~32°C/61~90°F)	Move the unit to a convenient location.
		2. Bad Motor or Motor rotates slowly.	Change Motor.
		3. Wrong Voltage and Frequency of Power.	Connect the right Power.
		4. Bad heat elimination of condenser.	Keep far from heat source. Keep clear of base outlet.
LED strip	The lamp gave little slight.	1. Output voltage is too small.	Change the LED power supply. Please see its photo from "remark 1" hereunder.
	LED doesn't work.	1. Switch is in off. 2. Power switch is bad.	Turn on. Change switch.

	3. LED is in short circuit or the cord is disconnected.	Remove the short circuit faults or connect the cord.
Some LED units is bad.		Change the LED strip.

Remark:

1. LED Power Supply.

2. First step, turn the Defrost Timer clockwise, until you hear "da", this means the machine is in defrosting.

It will work for about 20min, and then will stop automatic.

If after first step, the problem is still exit. Please do second step.

Second step: Power off, open the door. It need 4~5hours to melt the ice on Eva.

