



Ascend Refrigeration

Jimex Corporation

Service Manual

JFD - Full Door Upright Reach-ins

Covers Ascend Units:

JFD-23R

JFD-23F

JFD-48R

JFD-48F

JFD-72R



Updated 08/13/08

- Page 1 of 46-



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Covers Ascend Units:

JFD-23R

JFD-23F

JFD-48R

JFD-48F

JFD-72R

Ascend Refrigeration

Jimex Corporation

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*<<<**NOTE:** This manual is intended solely for the use of licensed refrigeration technicians. Any repairs or alterations made by any person other than a licensed refrigeration technician may void unit warranty. The information contained within is believed to be accurate at time of printing and is subject to change without warning. Please check our website for the most up to date service information.>>>*

*<<<**WARNING:** Before servicing any electrical component be sure unit is unplugged and there is no power to any component. Always wear proper safety gear, and follow good safety practices. Always reclaim any refrigerant charge in accordance with EPA guidelines.>>>*

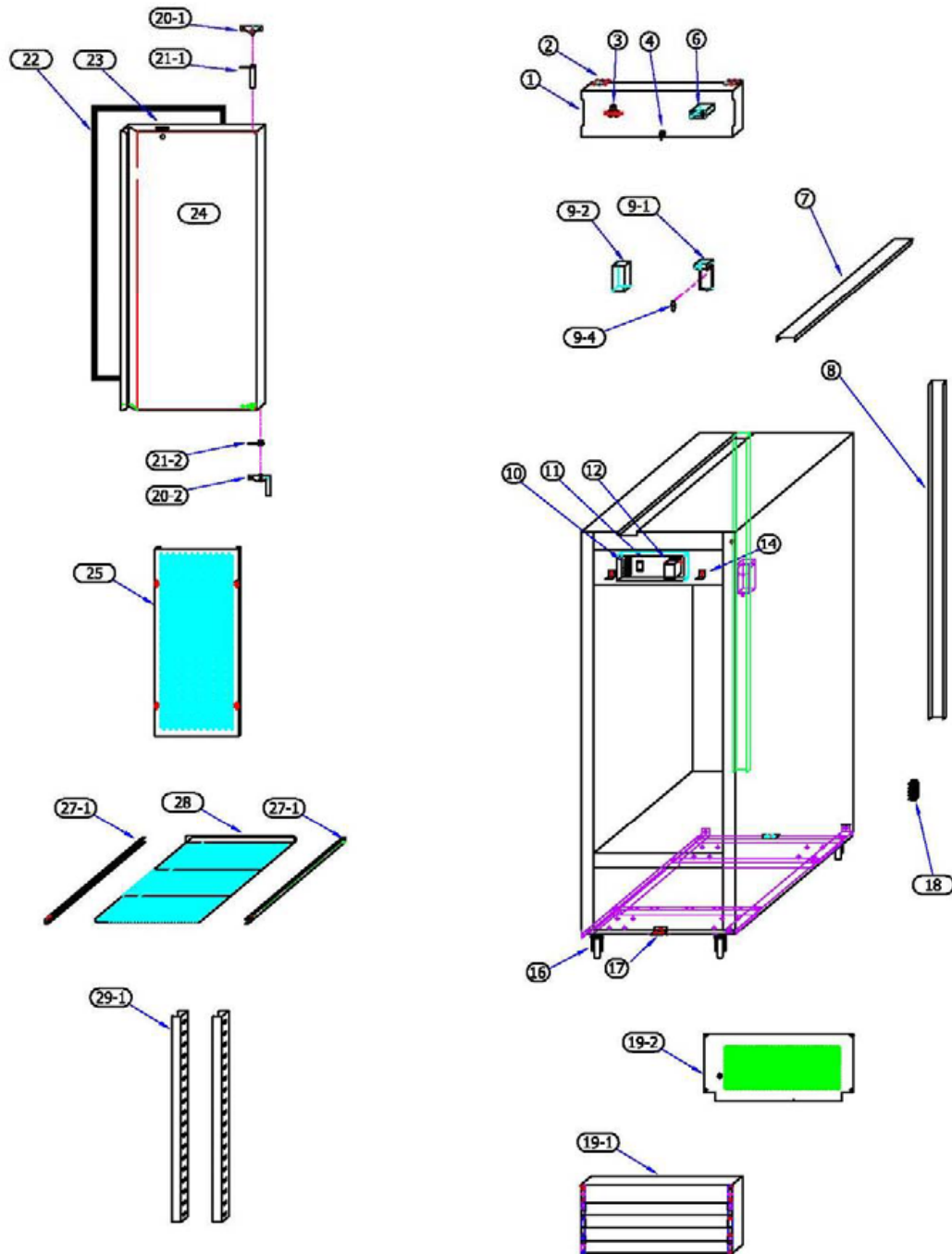
Table of Contents

1. Exploded Views and Parts List	
1-1. JFD-23R: Exploded View, Parts and Price List	5 - 8
1-2. JFD-23F: Exploded View, Parts and Price List.....	9 - 12
1-3. JFD-48R: Exploded View, Parts and Price List	13 - 16
1-4. JFD-48F: Exploded View, Parts and Price List	17 - 20
1-5. JFD-72R: Exploded View, Parts and Price List	21 - 24
2. Wiring Diagrams	
2-1. JFD-23R.....	25
2-2. JFD-23F.....	26
2-3. JFD-48R.....	27
2-4. JFD-48F.....	28
2-5. JFD-72R.....	29
3. Electronic Control, SF-102 - Coolers	
3-1. Components.....	30
3-2. Electrical Set Up.....	31
3-3. Basic Operation.....	31
3-4. Changing Settings.....	31
3-5. Factory Settings.....	32
3-6. Troubleshooting the SF-102.....	33
4. Electronic Control, SF-104 - Freezers	
4-1. Components.....	34
4-2. Electrical Set Up.....	35
4-3. Basic Operation.....	35
4-4. Changing Settings.....	35
4-5. Factory Settings.....	36
4-6. Troubleshooting the SF-104.....	37
5. Installing and Replacing Parts	
5-1. Opening the top panel.....	38
5-2. Removing the top panel.....	38
5-3. Electronic control.....	38
5-4. Door switches.....	38
5-5. Evaporator coil cover.....	39
5-6. Evaporator fan motor.....	39
5-7. Defrost heater coil and drain line heater (freezers only).....	40
5-8. Doors.....	40
5-9. Tensioner.....	41
5-10. Gaskets.....	41
5-11. Bottom front grill.....	41
5-12. Condensing assembly.....	42
5-13. Shelving.....	42
6. Troubleshooting, FAQ's and Tech information	
6-1. Frequently asked questions.....	43
6-2. Table: Amp draw per component.....	44
6-3. Table: Compressor tech data and running pressures	45
6-4. Revision and changes history.....	46

1-1. JFD-23R, Exploded View, Parts and Price List

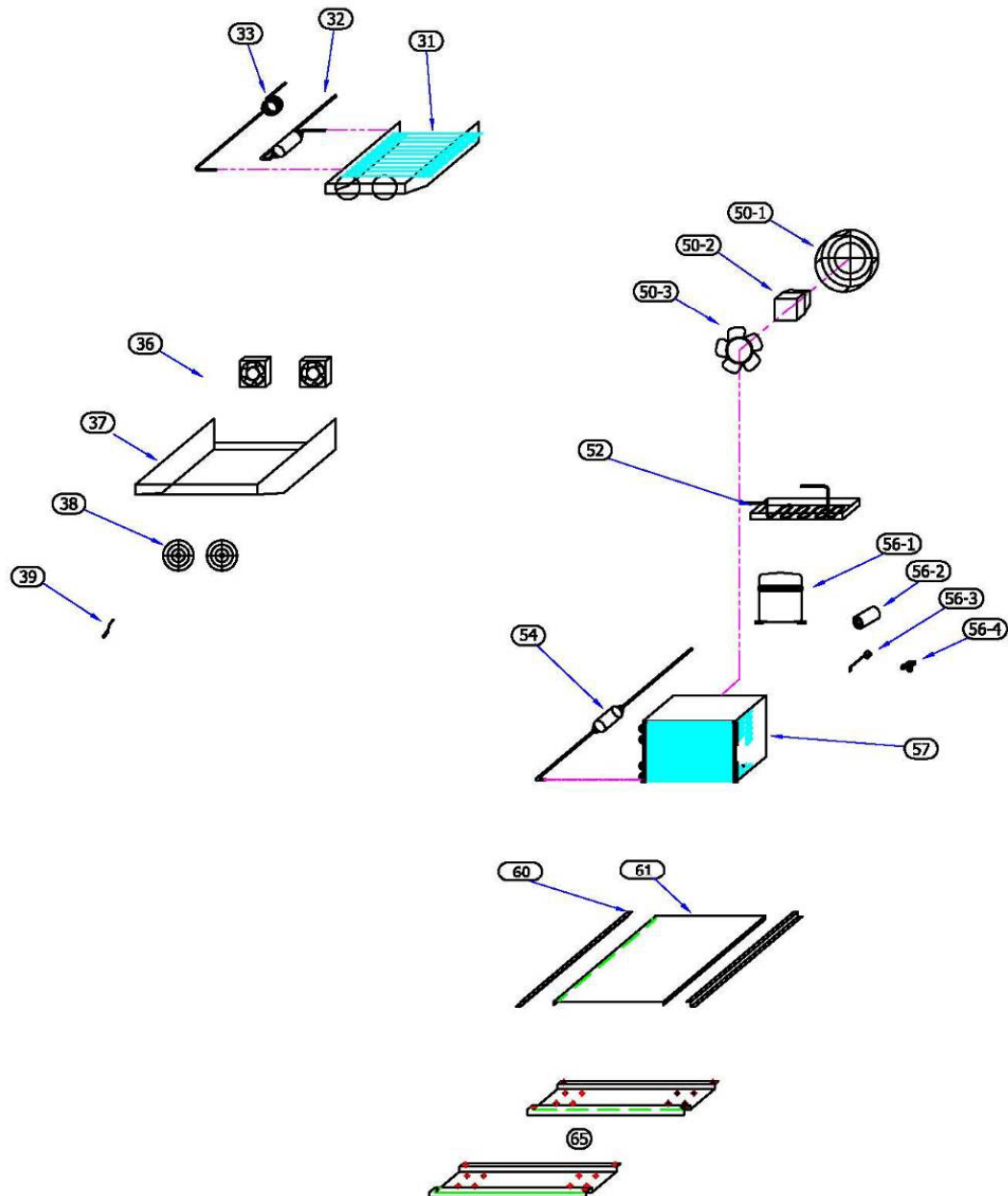
CABINET ASSEMBLY

MODEL: JFD-23R



EVAP & CONDENSING ASSEMBLY

MODEL: JFD-23R



CABINET ASSEMBLY LIST

MODEL: JFD-23R

07/08

No.	Q'ty	Part No. (Use when ordering)	Description	List Price
1	1	255 4502	Front top panel, 1 section, JFD units	\$90.00
2	2	255 4307	Hinge, top panel, JFD units	\$5.00
3	1	255 4014	Logo, emblem, "ASCEND"	\$20.00
4	1	255 6603	Light switch, door, 5A, 125/250 VAC	\$16.00
6	1	255 7102	Micro temp control, UL	\$140.00
7	1	255 4517	U-Channel, access, top	\$20.00
8	1	255 4518	U-Channel, access, back	\$40.00
9-1	1	255 6500	Light socket, interior, JFD 115 V	\$9.00
9-2	1	255 5501	Light cover, JFD units	\$10.00
9-4	1	255 6101	Light Bulb, JFD units, 115V	\$12.00
10	1	255 6301	Power supply terminal block, 600V, 30A, 6 circuit	\$30.00
11	1	255 6804	Relay, comp power, 12VDC, 30A, 2HP, 250VAC	\$30.00
12	1	255 6901	Transformer, for SF104 or SF102, 120V	\$45.00
14	2	255 4308	Bracket, holds top panel, JFD units	\$5.00
16	2	255 4801	Caster, 5", stem, no lock, JFD	\$20.00
16	2	255 4802	Caster, 5", stem, with lock, JFD	\$25.00
17	2	255 4309	System bracket, "L" shape	\$5.00
18	1	255 6302	Power supply terminal block, 600V, 30A, 4 circuit	\$30.00
19-1	1	255 4505	Bottom grill, front, JFD-1 units	\$200.00
19-2	1	255 4514	Bottom back mesh cover, JFD-1 units	\$100.00
20-1	1	255 4301	Hinge, JFD units, top right	\$20.00
20-2	1	255 4303	Hinge, JFD units, bottom right	\$20.00
21-1	1	255 4403	Tensioner, top of door, JFD units	\$40.00
21-2	1	255 4313	Bracket, door insert, bottom, left or right, JFD units	\$10.00
22	1	255 4200	Door gasket, JFD models	\$80.00
23	1	n a	Lock, barrel type, inside of door, not replaceable	
24	1	255 4125	Door, solid, JFD-1 units, right hinge	\$300.00
25	1	255 5702	Panel, JFD units, product stop, mesh, stainless	\$100.00
27-1	6	255 5402	Shelf bracket, left or right side - JFD Units	\$20.00
28	3	255 5200	Epoxy coated wire shelf, JFD units, 20.75" x 25"	\$60.00
29-1	4	255 5107	Pilaster, thin, side mount	\$75.00
31	1	255 1101	Evaporator coil, SD, 1 sec, 10d x 12w (12/3)	\$250.00
32	1	255 1701	Accumulator, copper, evap coil	\$25.00
33	1	255 3525	Cap tube, 0.040 ID, 60 in. long	\$18.00
36	2	255 1204	Evaporator fan motor w/blade, 115V	\$142.00
36	0	255 1210	Evaporator fan motor w/ blade, NMB 120V/1PH/14W	\$142.00
37	1	255 1503	Evaporator coil cover, stainless, JFD-1	\$100.00
38	2	255 1300	Evap fan motor guard	\$15.00
39	1	255 7301	Thermo sensor, for SF104, box sensor	\$40.00
50-1	1	255 2302	Condenser fan blade cover / guard	\$20.00
50-2	1	255 2208	Condenser fan motor, 9W, 115V	\$90.00
50-3	1	255 2402	Condenser fan blade, 4B, 9" diameter	\$20.00
52	1	255 4913	Condensate pan, with hot gas loop, JFD-1	\$40.00
54	1	255 3601	Filter drier, copper spun	\$20.00
56-1	1	905 3103	Compressor Tecumseh, 1/3 HP R-134a	\$300.00

Updated 08/13/08

- Page 7 of 46-

CABINET ASSEMBLY LIST

MODEL: JFD-23R

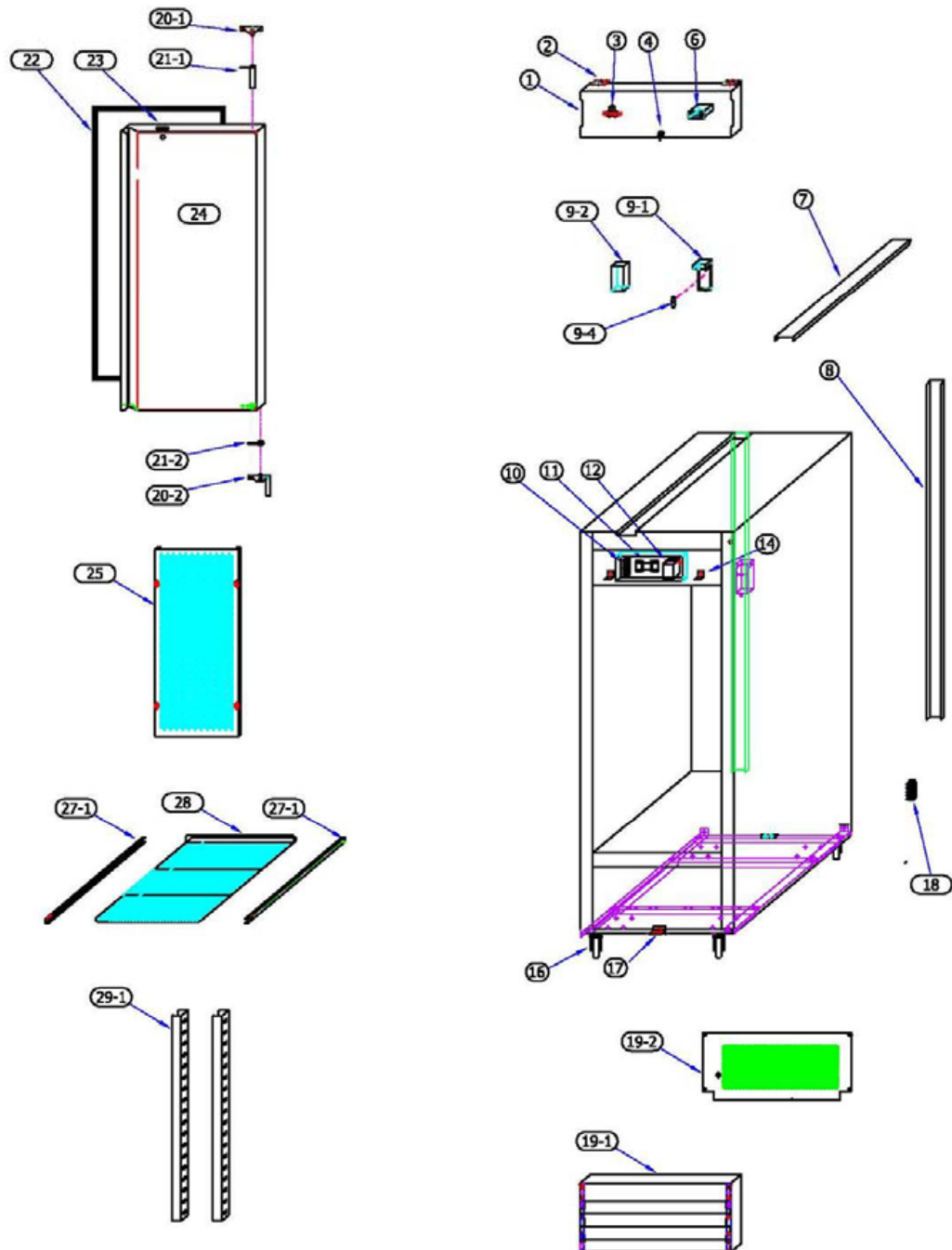
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No.	Q'ty	Part No. (Use when ordering)		Description	List Price
56-2	1	905	3303	Capacitor for AEA4440YXA (start)	\$40.00
56-3	1	905	3403	Overload for AEA-4440YXA, 1/3 HP	\$40.00
56-4	1	905	3203	Relay for AEA4440YXA, 1/3 HP	\$30.00
57	1	255	2106	Condenser coil, JFD-23R, 12x5x8 (8/3)	\$200.00
60	1	255	4320	System deck rail, left or right, JFD units	\$15.00
61	1	255	4322	System deck, single wide condenser	\$50.00
65	2	255	4316	Caster support, JFD-1 units	\$60.00

1-2. JFD-23F, Exploded View, Parts and Price List

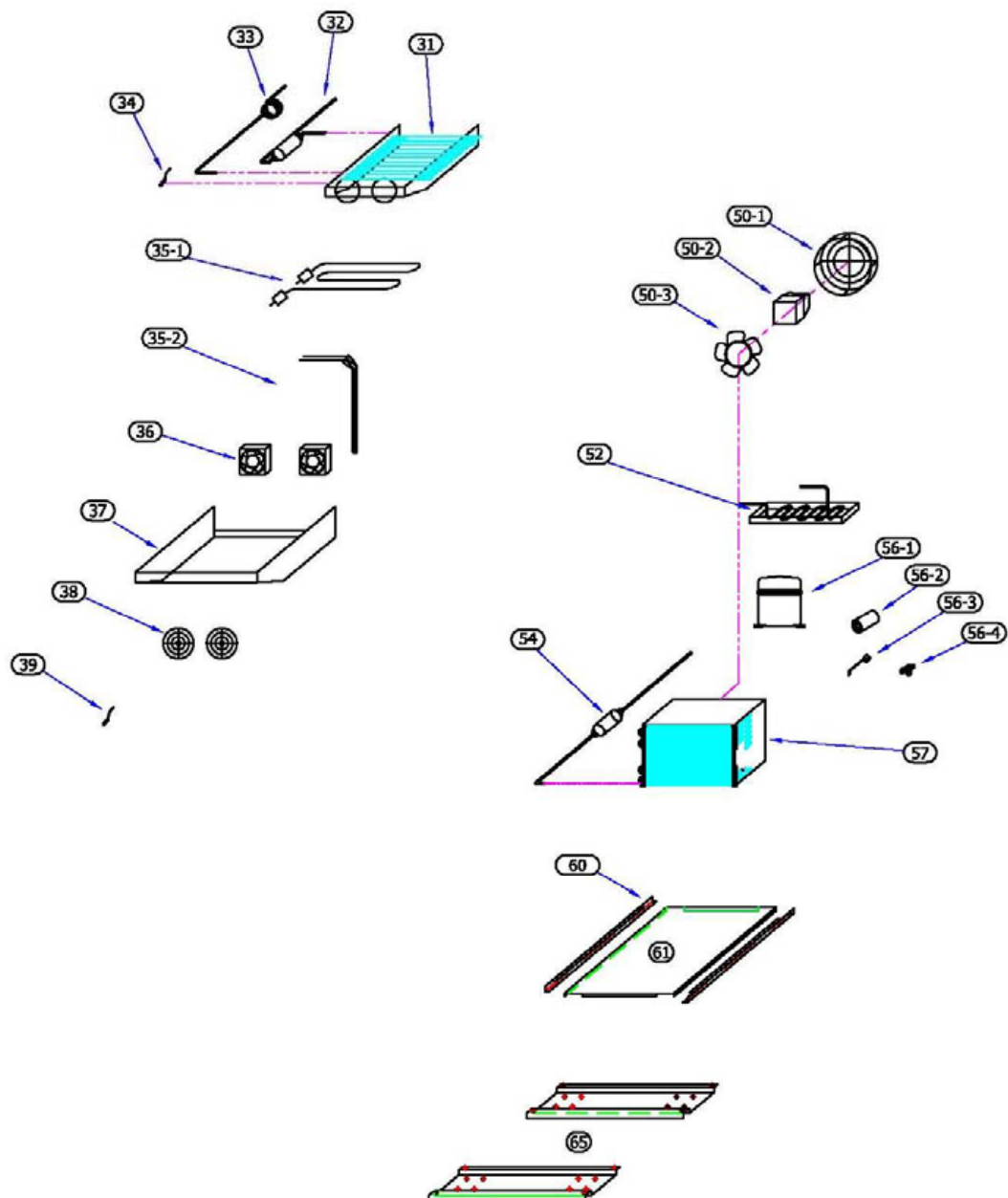
CABINET ASSEMBLY

MODEL: JFD-23F



EVAP & CONDENSING ASSEMBLY

MODEL: JFD-23F



CABINET ASSEMBLY LIST

MODEL: JFD-23F

08/08

No.	Q'ty	Part No. (Use when ordering)	Description	List Price
1	1	254 4502	Front top panel, 1 section, JFD units	\$90.00
2	2	254 4307	Hinge, top panel, JFD units	\$5.00
3	1	254 4014	Logo, emblem, "ASCEND"	\$20.00
4	1	254 6603	Light switch, door, 5A, 125/250 VAC	\$16.00
6	1	254 7104	Micro temp control, UL	\$140.00
7	1	254 4517	U-Channel, access, top	\$20.00
8	1	254 4518	U-Channel, access, back	\$40.00
9-1	1	254 6500	Light socket, interior, JFD 115 V	\$9.00
9-2	1	254 5501	Light cover, JFD units	\$10.00
9-4	1	254 6101	Light bulb, JFD units, 115V	\$12.00
10	1	254 6301	Power supply terminal block, 600V, 30A, 6 circuit	\$30.00
11	2	254 6803	Relay, evap fan & defrost, 12VDC, 30A, 240VAC	\$30.00
11	1	254 6804	Relay, comp power, 12VDC, 30A, 2HP, 250VAC	\$30.00
12	1	254 6901	Transformer, for SF104 or SF102, 120V	\$45.00
14	2	254 4308	Bracket, holds top panel, JFD units	\$5.00
16	2	254 4801	Caster, 5", stem, no lock, JFD	\$20.00
16	2	254 4802	Caster, 5", stem, with lock, JFD	\$25.00
17	2	254 4309	System bracket, "L" shape	\$5.00
18	1	254 6302	Power supply terminal block, 600V, 30A, 4 circuit	\$30.00
19-1	1	254 4505	Bottom grill, front, JFD-1 units	\$200.00
19-2	1	254 4514	Bottom back mesh cover, JFD-1 units	\$100.00
20-1	1	254 4301	Hinge, JFD units, top right	\$10.00
20-2	1	254 4303	Hinge, JFD units, bottom right	\$20.00
21-1	1	254 4403	Tensioner, top of door, JFD units	\$40.00
21-2	1	254 4313	Bracket, door insert, bottom, left or right, JFD units	\$10.00
22	1	254 4200	Door gasket, JFD-1 models	\$80.00
23	1	n a	Lock, barrel type, inside of door, not replaceable	
24	1	254 4125	Door, solid, JFD-1 units, right hinge	\$300.00
25	1	254 5702	Panel, JFD units, product stop, mesh, stainless	\$100.00
27-1	6	254 5402	Shelf Bracket, left or right side - JFD Units	\$20.00
28	3	254 5200	Epoxy coated wire shelf, JFD units, 20.75" x 25"	\$60.00
29-1	4	254 5107	Pilaster, thin, side mount	\$75.00
31	1	254 1108	Evaporator coil, SD, 1 sec, 12d x 12w (12/3)	\$250.00
32	1	254 1701	Accumulator, copper, evap coil	\$25.00
33	1	254 3524	Cap tube, 0.040 ID, 50 in. long	\$18.00
34	1	254 7302	Thermo sensor, for SF104, evap def. sensor	\$40.00
35-1	1	254 6203	Defrost heater coil, 500 W * 115 V	\$80.00
35-2	1	254 6212	Drain heater, 115V	\$34.00
36	2	254 1204	Evaporator fan motor w/blade, 115V	\$142.00
36	0	254 1210	Evaporator fan motor w/blade, NMB 120V/1PH/14W	\$142.00
37	1	254 1503	Evaporator coil cover, stainless, JFD-1	\$100.00
38	2	254 1300	Evap fan motor guard	\$15.00
39	1	254 7301	Thermo sensor, for SF104, box sensor	\$40.00
50-1	1	254 2302	Condenser fan blade cover / guard	\$20.00
50-2	1	254 2208	Condenser fan motor, 9W, 115V	\$90.00

Updated 08/13/08

- Page 11 of 46-

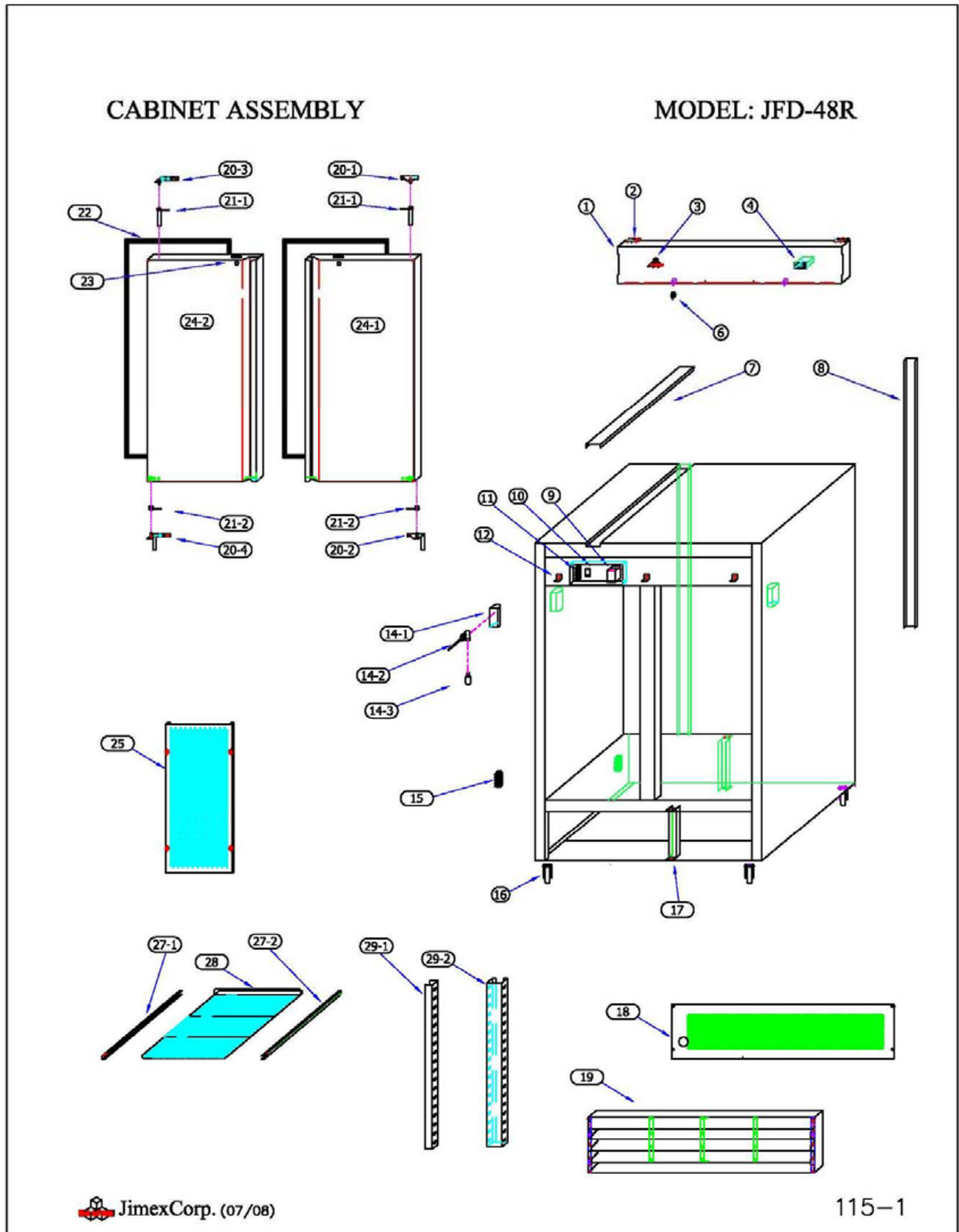
CABINET ASSEMBLY LIST
MODEL: JFD-23F
08/08

No.	Q'ty	Part No. (Use when ordering)		Description	List Price
50-3	1	254	2402	Condenser fan blade, 4B, 9" diameter	\$20.00
52	1	254	4913	Condensate pan, with hot gas loop, JFD-1	\$40.00
54	1	254	3601	Filter drier, copper spun	\$20.00
56-1	1	911	3109	Compressor Aspera, 1/2 HP R-404a 115V	\$400.00
56-2	1	911	3309	Capacitor for 2155, (start), 250VAC, 50/60 Hz	\$40.00
56-3	1	911	3408	Overload for T2155, 1/2 HP	\$40.00
56-4	1	911	3206	Relay for 2155, 1/2 HP	\$30.00
57	1	254	2100	Condenser coil, J1GF-20S, 11x5.5x10 (10/4)	\$200.00
60	1	254	4320	System deck rail, left or right, JFD units	\$15.00
61	1	254	4322	System deck, single wide condenser	\$50.00
65	2	254	4316	Caster support, JFD-1 units	\$60.00

Updated 08/13/08

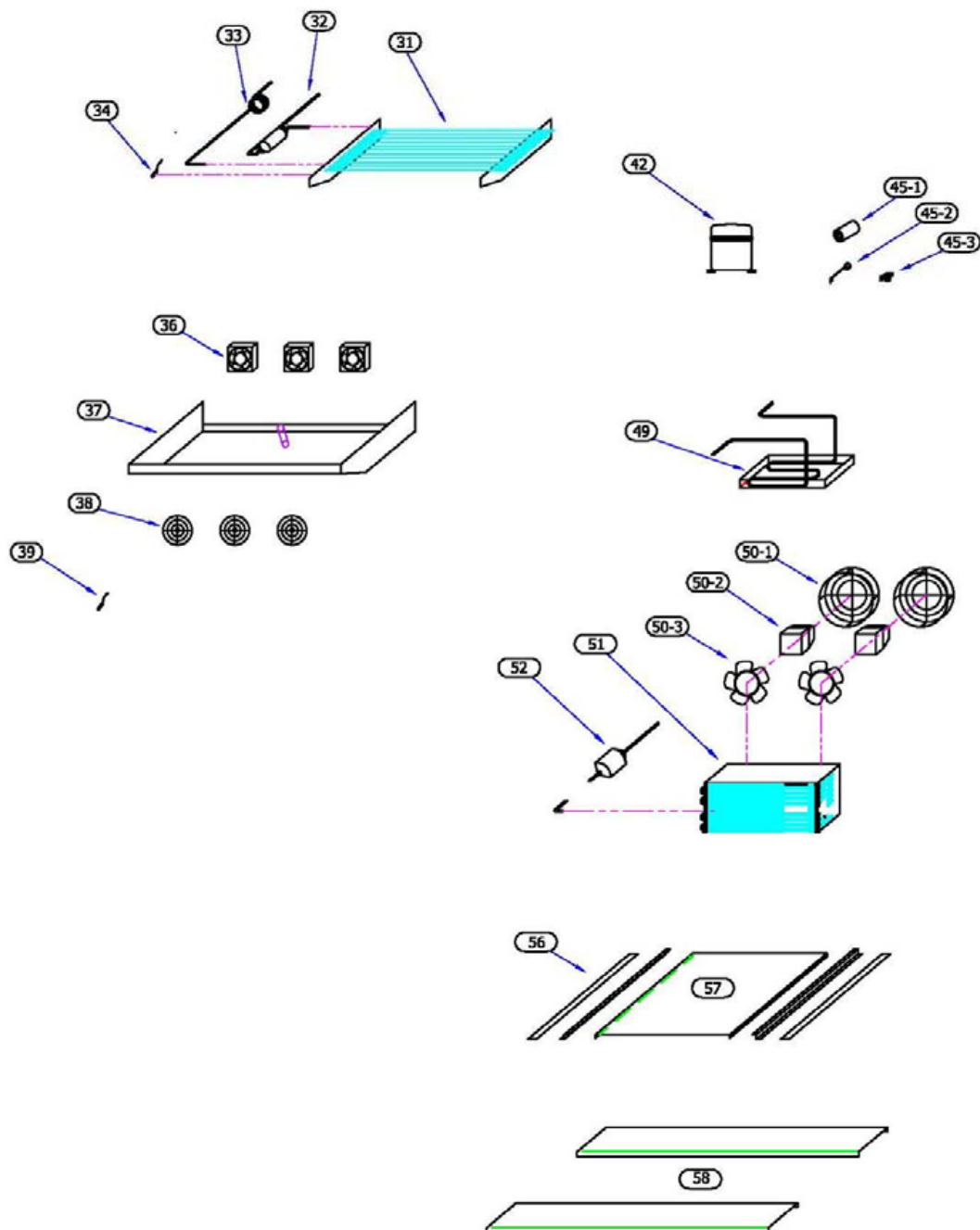
- Page 12 of 46-

1-3. JFD-48R, Exploded View, Parts and Price List



EVAP & CONDENSING ASSEMBLY

MODEL: JFD-48R



CABINET ASSEMBLY LIST

MODEL: JFD-48R

08/08

No.	Q'ty	Part No. (Use when ordering)	Description	List Price
1	1	257 4502	Front top panel, 2 sections, JFD units	\$120.00
2	2	257 4307	Hinge, top panel, JFD units	\$5.00
3	1	257 4014	Logo, emblem, "ASCEND"	\$20.00
4	1	257 7102	Micro temp control, UL	\$140.00
6	2	257 6603	Light switch, door, 5A, 125/250 VAC	\$16.00
7	1	257 4517	U-Channel, access, top	\$20.00
8	1	257 4518	U-Channel, access, back	\$40.00
9	1	257 6901	Transformer, for SF104 or SF102, 120V	\$45.00
10	1	257 6804	Relay, comp power, 12VDC, 30A, 2HP, 250VAC	\$30.00
11	1	257 6301	Power supply terminal block, 600V, 30A, 6 circuit	\$30.00
12	2	257 4308	Bracket, holds top panel, JFD units	\$5.00
14-1	2	257 5501	Light cover, JFD units	\$10.00
14-2	2	257 6500	Light socket, interior, JFD 115 V	\$9.00
14-3	2	257 6101	Light bulb, JFD units, 115V	\$12.00
15	1	257 6302	Power supply terminal block, 600V, 30A, 4 circuit	\$30.00
16	2	257 4801	Caster, 5", stem, no lock, JFD	\$20.00
16	2	257 4802	Caster, 5", stem, with lock, JFD	\$25.00
17	2	257 4310	Cabinet support, bottom mount reach-ins, JFD Units	\$40.00
18	1	257 4514	Bottom back mesh cover, JFD-2 units	\$125.00
19	1	257 4505	Bottom grill, front, JFD-2 units	\$250.00
20-1	1	257 4304	Hinge, JFD units, top left	\$10.00
20-2	1	257 4306	Hinge, JFD units, bottom left	\$20.00
20-3	1	257 4301	Hinge, JFD units, top right	\$10.00
20-4	1	257 4303	Hinge, JFD units, bottom right	\$20.00
21-1	2	257 4403	Tensioner, top of door, JFD units	\$40.00
21-2	2	257 4313	Bracket, door insert, bottom, left or right, JFD units	\$10.00
22	2	257 4200	Door gasket, JFD-2 or 3 models	\$80.00
23	2	n a	Lock, barrel type, inside of door, not replaceable	
24-1	1	257 4126	Door, solid, JFD-2 or 3 units, left	\$300.00
24-2	1	257 4127	Door, solid, JFD-2 or 3 units, right	\$300.00
25	1	257 5702	Panel, JFD units, product stop, mesh, stainless	\$100.00
27-1	12	257 5402	Shelf bracket, left or right side - JFD Units	\$20.00
28	6	257 5200	Epoxy coated wire shelf, JFD units, 20.75" x 25"	\$60.00
29-1	4	257 5107	Pilaster, thin, side mount	\$75.00
29-2	2	257 5103	Pilaster, mounts middle, JFD-2 units	\$100.00
31	1	257 1103	Evaporator coil, SD, 12d x 23.5w (12/3)	\$250.00
32	1	257 1701	Accumulator, copper, evap coil	\$25.00
33	1	257 3527	Cap tube, 0.052 ID, 120 in. long	\$25.00
36	3	257 1204	Evaporator fan motor w/blade, 115V	\$142.00
36	0	257 1210	Evaporator fan motor w/blade, NMB 120V/1PH/14W	\$142.00
37	1	257 1504	Evaporator coil cover, stainless, JFD-2	\$150.00
38	3	257 1300	Evap fan motor guard	\$15.00
39	1	257 7301	Thermo sensor, for SF104, box sensor	\$40.00
42	1	906 3105	Compressor Aspera, 1/2 HP R-134a 115V	\$400.00
45-1	1	906 3305	Capacitor for T6213Z (start) 165V	\$40.00

Updated 08/13/08

- Page 15 of 46-

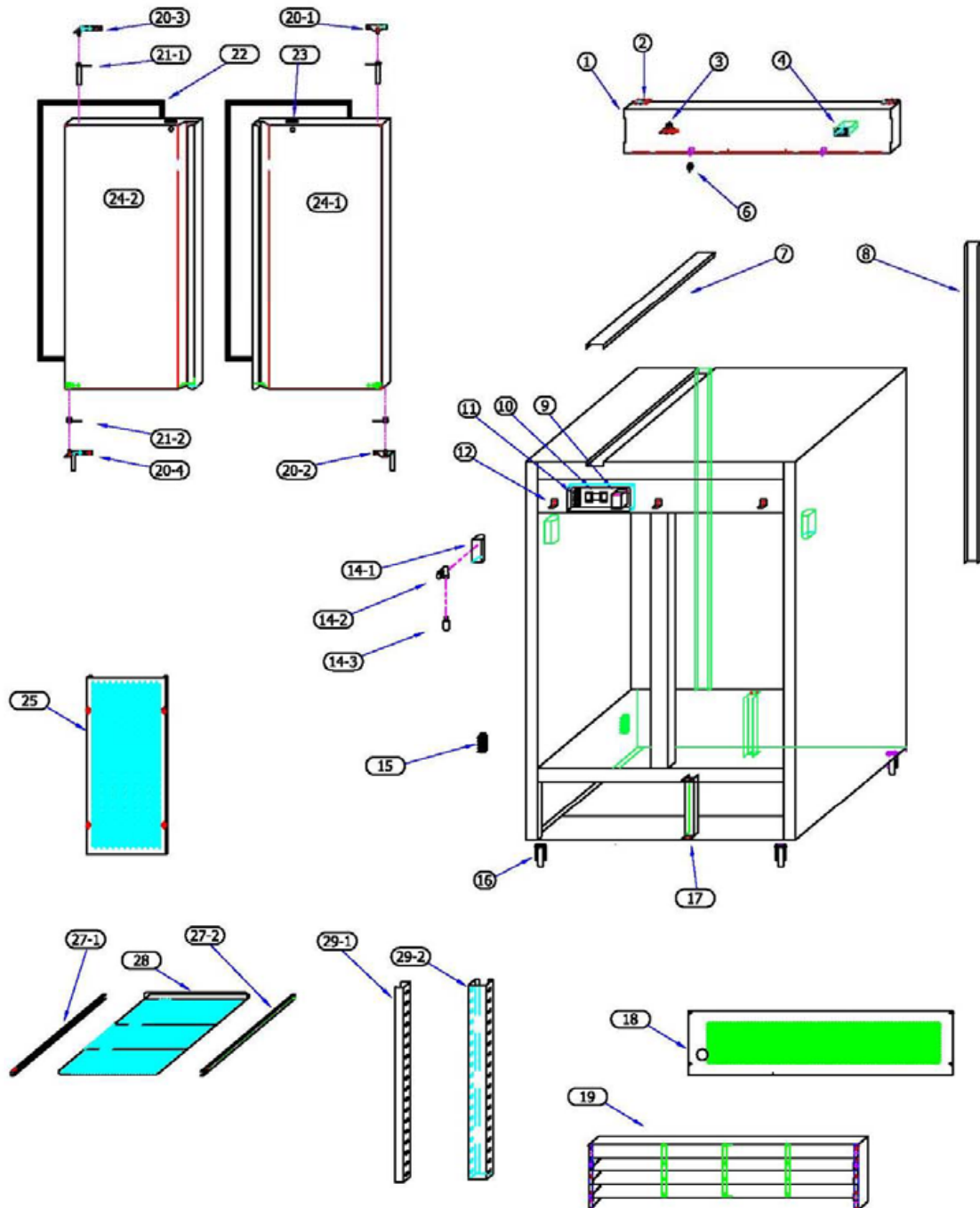
CABINET ASSEMBLY LIST
MODEL: JFD-48R
08/08

No.	Q'ty	Part No. (Use when ordering)		Description	List Price
45-2	1	906	3405	Overload for T6213Z, 1/2 HP	\$40.00
45-3	1	906	3205	Relay for Aspera T6213Z	\$30.00
49	1	257	4913	Condensate pan, with hot gas loop, JFD-2	\$40.00
50-1	1	257	2302	Condenser fan blade cover / guard	\$20.00
50-2	1	257	2207	Condenser fan motor, 9W, 115V	\$90.00
50-3	1	257	2402	Condenser fan blade, 4B, 9" diameter	\$20.00
51	1	257	2100	Condenser coil, 11x5.5x10 (10/4)	\$200.00
52	1	257	3602	Filter drier, 052S	\$30.00
56	1	257	4320	System deck rail, left or right, JFD units	\$15.00
57	1	257	4322	System deck, single wide condenser	\$50.00
58	2	257	4317	Caster support, JFD-2 units	\$90.00

1-4. JFD-48F, Exploded View, Parts and Price List

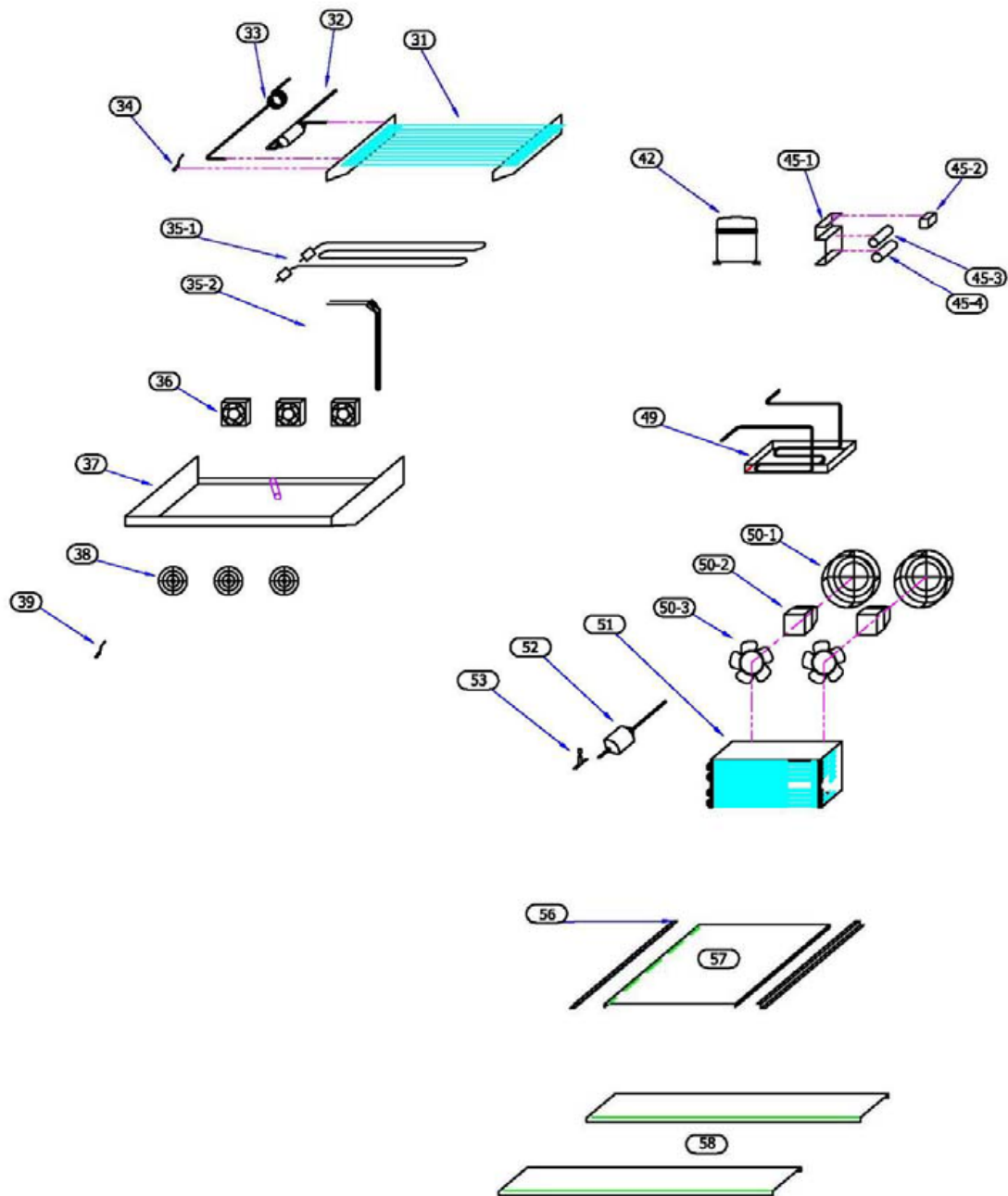
CABINET ASSEMBLY

MODEL: JFD-48F



EVAP & CONDENSING ASSEMBLY

MODEL: JFD-48F



CABINET ASSEMBLY LIST

MODEL: JFD-48F

08/08

No.	Q'ty	Part No. (Use when ordering)	Description	List Price
1	1	256 4502	Front top panel, 2 sections, JFD units	\$120.00
2	2	256 4307	Hinge, top panel, JFD units	\$5.00
3	1	256 4014	Logo, emblem, "ASCEND"	\$20.00
4	1	256 7104	Micro temp control, UL	\$140.00
6	2	256 6603	Light switch, door, 5A, 125/250 VAC	\$16.00
7	1	256 4517	U-Channel, access, top	\$20.00
8	1	256 4518	U-Channel, access, back	\$40.00
9	1	256 6901	Transformer, for SF104 or SF102, 120V	\$45.00
10	2	256 6803	Relay, evap fan & defrost, 12VDC, 30A, 240VAC	\$30.00
10	1	256 6804	Relay, comp power, 12VDC, 30A, 2HP, 250VAC	\$30.00
11	1	256 6301	Power supply terminal block, 600V, 30A, 6 circuit	\$30.00
12	2	256 4308	Bracket, holds top panel, JFD units	\$5.00
14-1	2	256 5501	Light cover, JFD units	\$10.00
14-2	2	256 6500	Light socket, interior, JFD 115 V	\$9.00
14-3	2	256 6101	Light bulb, JFD units, 115V	\$12.00
15	1	256 6302	Power supply terminal block, 600V, 30A, 4 circuit	\$30.00
16	2	256 4801	Caster, 5", stem, no lock, JFD	\$20.00
16	2	256 4802	Caster, 5", stem, with lock, JFD	\$25.00
17	2	256 4310	Cabinet support, bottom mount reach-ins, JFD Units	\$40.00
18	1	256 4514	Bottom back mesh cover, JFD-2 units	\$125.00
19	1	256 4505	Bottom grill, front, JFD-2 units	\$250.00
20-1	1	256 4304	Hinge, JFD units, top left	\$10.00
20-2	1	256 4306	Hinge, JFD units, bottom left	\$20.00
20-3	1	256 4301	Hinge, JFD units, top right	\$10.00
20-4	1	256 4303	Hinge, JFD units, bottom right	\$20.00
21-1	2	256 4403	Tensioner, top of door, JFD units	\$40.00
21-2	2	256 4313	Bracket, door insert, bottom, left or right, JFD units	\$10.00
22	2	256 4200	Door gasket, JFD-2 or 3 models	\$80.00
23	2	n a	Lock, barrel type, inside of door, not replaceable	
24-1	1	256 4126	Door, solid, JFD-2 or 3 units, left	\$300.00
24-2	1	256 4127	Door, solid, JFD-2 or 3 units, right	\$300.00
25	1	256 5702	Panel, JFD units, product stop, mesh, stainless	\$100.00
27-1	12	256 5402	Shelf bracket, left or right side - JFD Units	\$20.00
28	6	256 5200	Epoxy coated wire shelf, JFD units, 20.75" x 25"	\$60.00
29-1	4	256 5107	Pilaster, thin, side mount	\$75.00
29-2	2	256 5103	Pilaster, middle mount, front or back, JFD-2 units	\$100.00
31	1	256 1100	Evaporator coil, JFD-48F, 10d x 24w (11/4)	\$250.00
32	1	256 1701	Accumulator, copper, evap coil	\$25.00
33	1	256 3526	Cap tube, 0.052 ID, 60 in. long	\$20.00
34	1	256 7302	Thermo sensor, for SF104, evap def. sensor	\$40.00
35-1	1	256 6208	Defrost heater coil, 800 W * 115V, long	\$80.00
35-2	1	256 6212	Drain heater, 115V	\$34.00
36	3	256 1204	Evaporator fan motor w/blade, 115V	\$142.00
36	0	256 1210	Evaporator fan motor w/blade, NMB 120V/1PH/14W	\$142.00
37	1	256 1504	Evaporator coil cover, stainless, JFD-2	\$150.00

Updated 08/13/08

- Page 19 of 46-

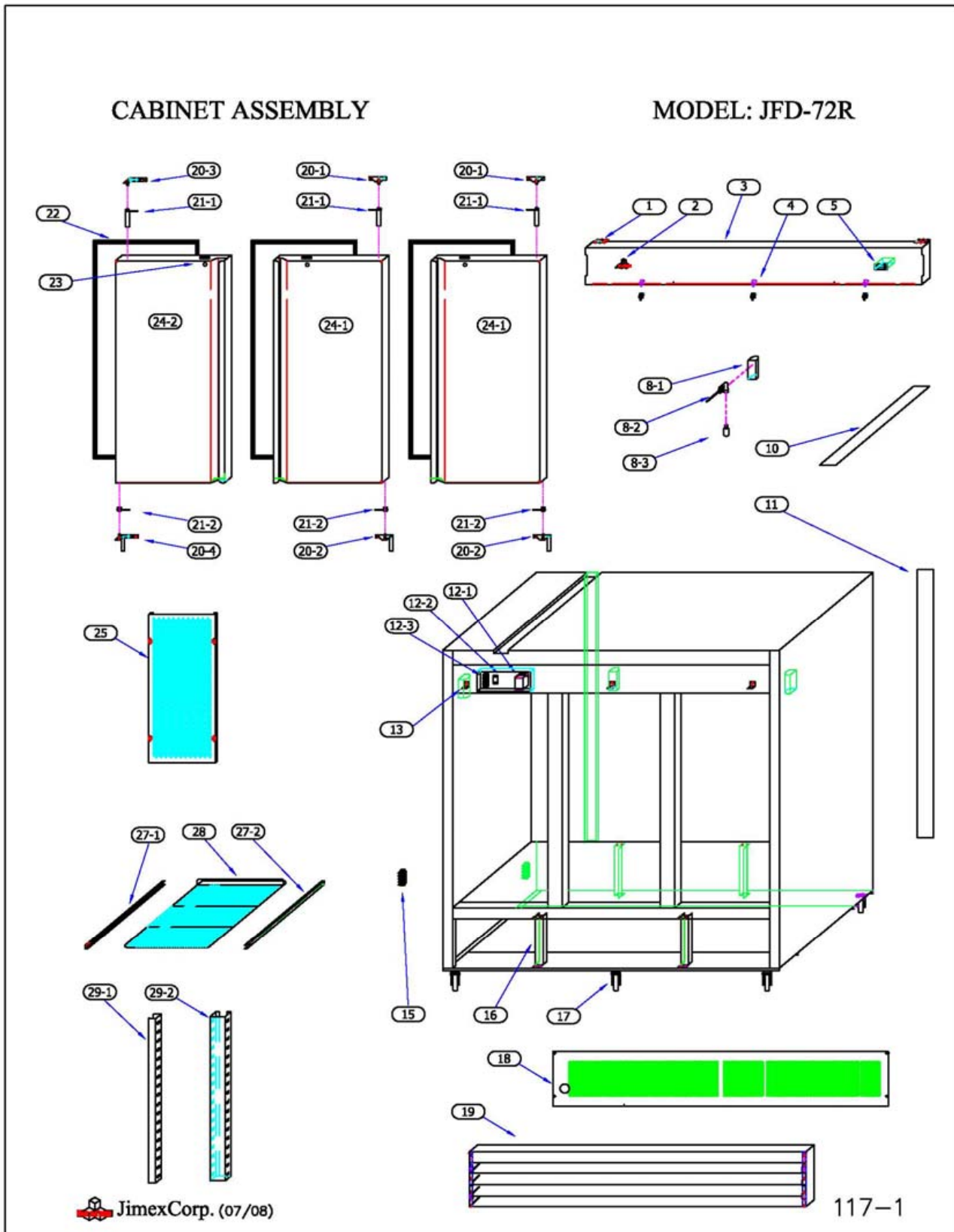
CABINET ASSEMBLY LIST

MODEL: JFD-48F

08/08

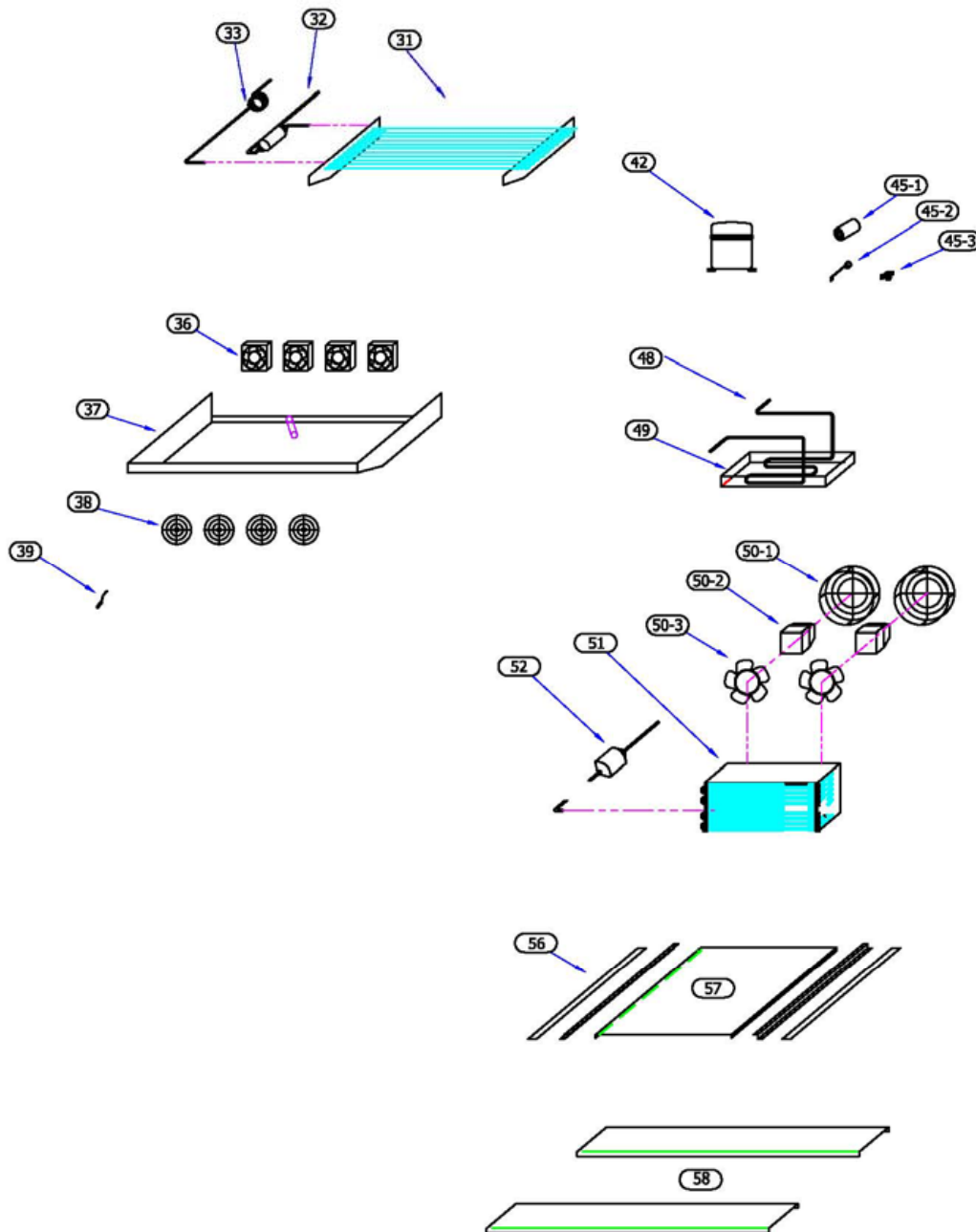
No.	Q'ty	Part No. (Use when ordering)		Description	List Price
38	3	256	1300	Evap fan motor guard	\$15.00
39	1	256	7301	Thermo sensor, for SF104, box sensor	\$40.00
42	1	910	3111	Compressor Aspera, 3/4 HP R-404a 115V	\$440.00
45-1	1	n	a	Start component box, order with start components	
45-2	1	910	3211	Relay, compressor, 2180-115V	\$30.00
45-3	1	910	3312	Capacitor, start, 2180-115V, 25 uf	\$40.00
45-4	1	910	3311	Capacitor, run, 2180-115V, 189-227 uf	\$40.00
49	1	256	4913	Condensate pan, with hot gas loop, JFD-2	\$40.00
50-1	2	256	2301	Condenser fan blade cover / guard	\$20.00
50-2	2	256	2207	Condenser fan motor, 115V	\$90.00
50-3	2	256	2401	Condenser fan blade, 5B, 7.75" diameter	\$20.00
51	1	256	2104	Condenser coil, JFD-48F, dual fan, 21x5.5x9 (9/3)	\$300.00
52	1	256	3602	Filter Drier, 052S	\$30.00
56	1	256	4320	System deck rail, left or right, JFD units	\$15.00
57	1	256	4322	System deck, double wide condenser	\$75.00
58	2	256	4317	Caster support, JFD-2 units	\$90.00

1-5. JFD-72R, Exploded View, Parts and Price List



EVAP & CONDENSING ASSEMBLY

MODEL: JFD-72R



CABINET ASSEMBLY LIST

MODEL: JFD-72R

08/08

No.	Q'ty	Part No. (Use when ordering)	Description	List Price
1	2	259 4307	Hinge, top panel, JFD units	\$5.00
2	1	259 4014	Logo, emblem, "ASCEND"	\$20.00
3	1	259 4502	Front top panel, 3 sections, JFD units	\$150.00
4	3	259 6603	Light switch, door, 5A, 125/250 VAC	\$16.00
5	1	259 7102	Micro temp control, UL	\$140.00
8-1	2	259 5501	Light cover, JFD units	\$10.00
8-2	2	259 6500	Light socket, interior, JFD 115 V	\$9.00
8-3	2	259 6101	Light bulb, JFD units, 115V	\$12.00
10	1	259 4517	U-Channel, access, top	\$20.00
11	1	259 4518	U-Channel, access, back	\$40.00
12-1	1	259 6901	Transformer, for SF104 or SF102, 120V	\$45.00
12-2	1	259 6804	Relay, comp power, 12VDC, 30A, 2HP, 250VAC	\$30.00
12-3	1	259 6301	Power supply terminal block, 600V, 30A, 6 circuit	\$30.00
13	2	259 4308	Bracket, holds top panel, JFD units	\$5.00
15	1	259 6302	Power supply terminal block, 600V, 30A, 4 circuit	\$30.00
16	4	259 4310	Cabinet support, bottom mount reach-ins, JFD Units	\$40.00
17	3	259 4801	Caster, 5", stem, no lock, JFD	\$20.00
17	3	259 4802	Caster, 5", stem, with lock, JFD	\$25.00
18	1	259 4514	Bottom back mesh cover, JFD-3 units	\$150.00
19	1	259 4505	Bottom grill, front, JFD-3 units	\$300.00
20-1	2	259 4301	Hinge, JFD units, top right	\$10.00
20-2	2	259 4303	Hinge, JFD units, bottom right	\$20.00
20-3	1	259 4304	Hinge, JFD units, top left	\$10.00
20-4	1	259 4306	Hinge, JFD units, bottom left	\$20.00
21-1	3	259 4403	Tensioner, top of door, JFD units	\$40.00
21-2	3	259 4313	Bracket, door insert, bottom, left or right, JFD units	\$10.00
22	3	259 4200	Door gasket, JFD-2 or 3 models	\$80.00
23	3	n a	Lock, barrel type, inside of door, not replaceable	
24-2	1	259 4126	Door, solid, JFD-2 or 3 units, left	\$300.00
24-1	2	259 4127	Door, solid, JFD-2 or 3 units, right	\$300.00
25	3	259 5702	Panel, JFD units, product stop, mesh, stainless	\$100.00
27-1	9	259 5402	Shelf bracket, left or right side - JFD Units	\$20.00
28	3	259 5200	Epoxy coated wire shelf, JFD units, 20.75" x 25"	\$60.00
29-1	4	259 5107	Pilaster, thin, side mount	\$75.00
29-2	4	259 5109	Pilaster, middle mount, front or back, JFD-3 units (wide)	\$125.00
31	1	259 1100	Evaporator coil, JFD-72R	\$250.00
32	1	259 1701	Accumulator, copper, evap coil	\$25.00
33	1	259 3528	Cap tube, 0.052 ID, 78 in. long	\$20.00
36	3	259 1204	Evaporator fan motor w/blade, 115V	\$142.00
36	0	259 1210	Evaporator fan motor w/blade, NMB 120V/1PH/14W	\$142.00
37	1	259 1505	Evaporator coil cover, stainless, JFD-3	\$200.00
38	3	259 1300	Evap fan motor guard	\$15.00
39	1	259 7301	Thermo sensor, for SF104, box sensor	\$40.00
42	1	907 3106	Compressor Aspera, 1/2 HP R-134a 115V	\$400.00
45-1	1	907 3306	Capacitor for NE2134GK, T6215 -115V (start) 165V	\$40.00

Updated 08/13/08

- Page 23 of 46-

CABINET ASSEMBLY LIST

MODEL: JFD-72R

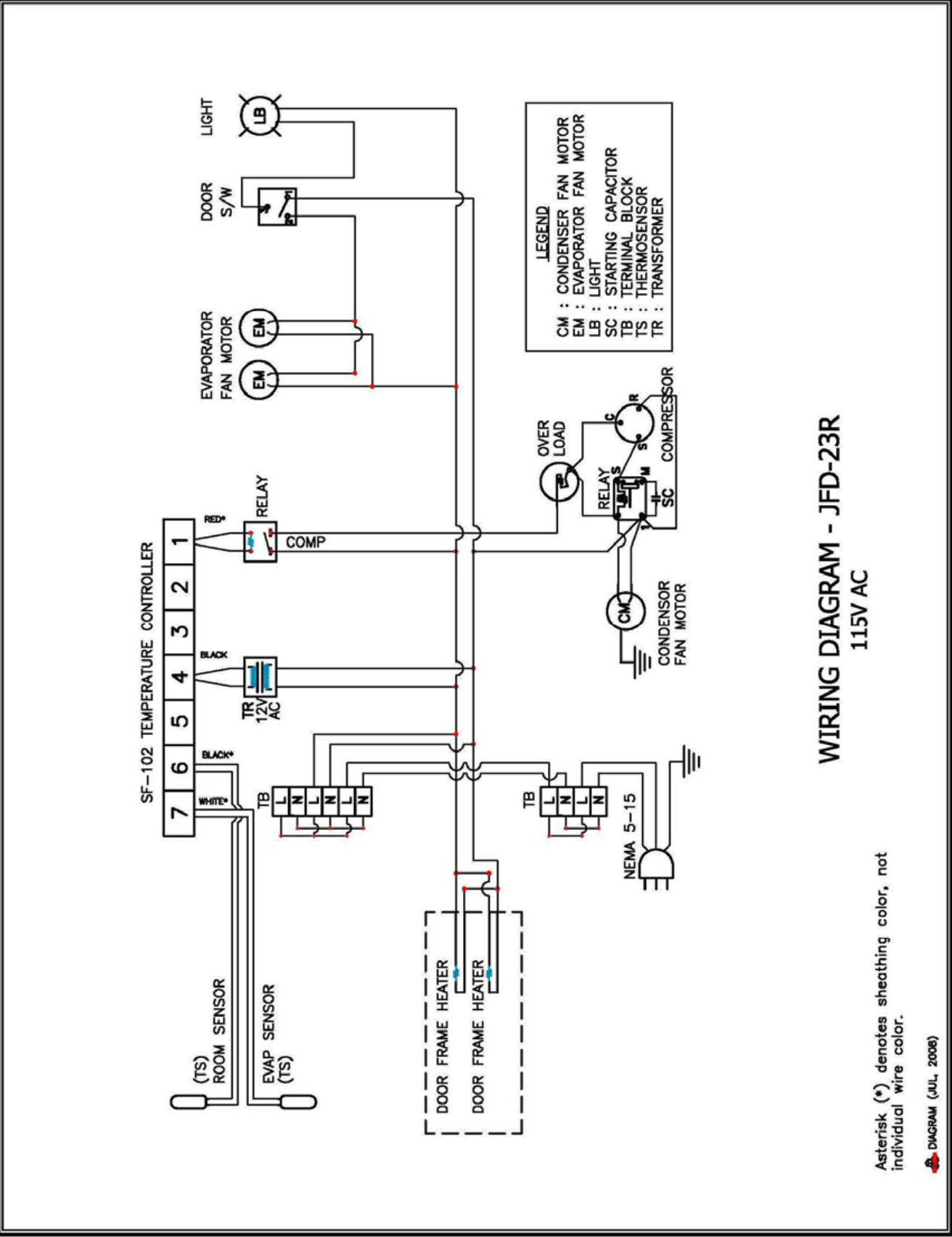
08/08

No.	Q'ty	Part No. (Use when ordering)		Description	List Price
45-2	1	907	3406	Overload for T6215Z, 1/2 HP	\$40.00
45-3	1	907	3206	Relay for T6215, 1/2 HP	\$30.00
49	1	259	4913	Condensate pan, with hot gas loop, JFD-3	\$40.00
50-1	2	259	2301	Condenser fan blade cover / guard	\$20.00
50-2	2	259	2207	Condenser fan motor, 115V	\$90.00
50-3	2	259	2401	Condenser fan blade, 5B, 7.75" diameter	\$20.00
51	1	259	2104	Condenser coil, JFD-48F, dual fan, 21x5.5x9 (9/3)	\$300.00
52	1	259	3602	Filter drier, 052S	\$30.00
56	1	259	4320	System deck rail, left or right, JFD units	\$15.00
57	1	259	4322	System deck, double wide condenser	\$75.00
58	2	259	4318	Caster support, JFD-3 units	\$120.00

Updated 08/13/08

- Page 24 of 46-

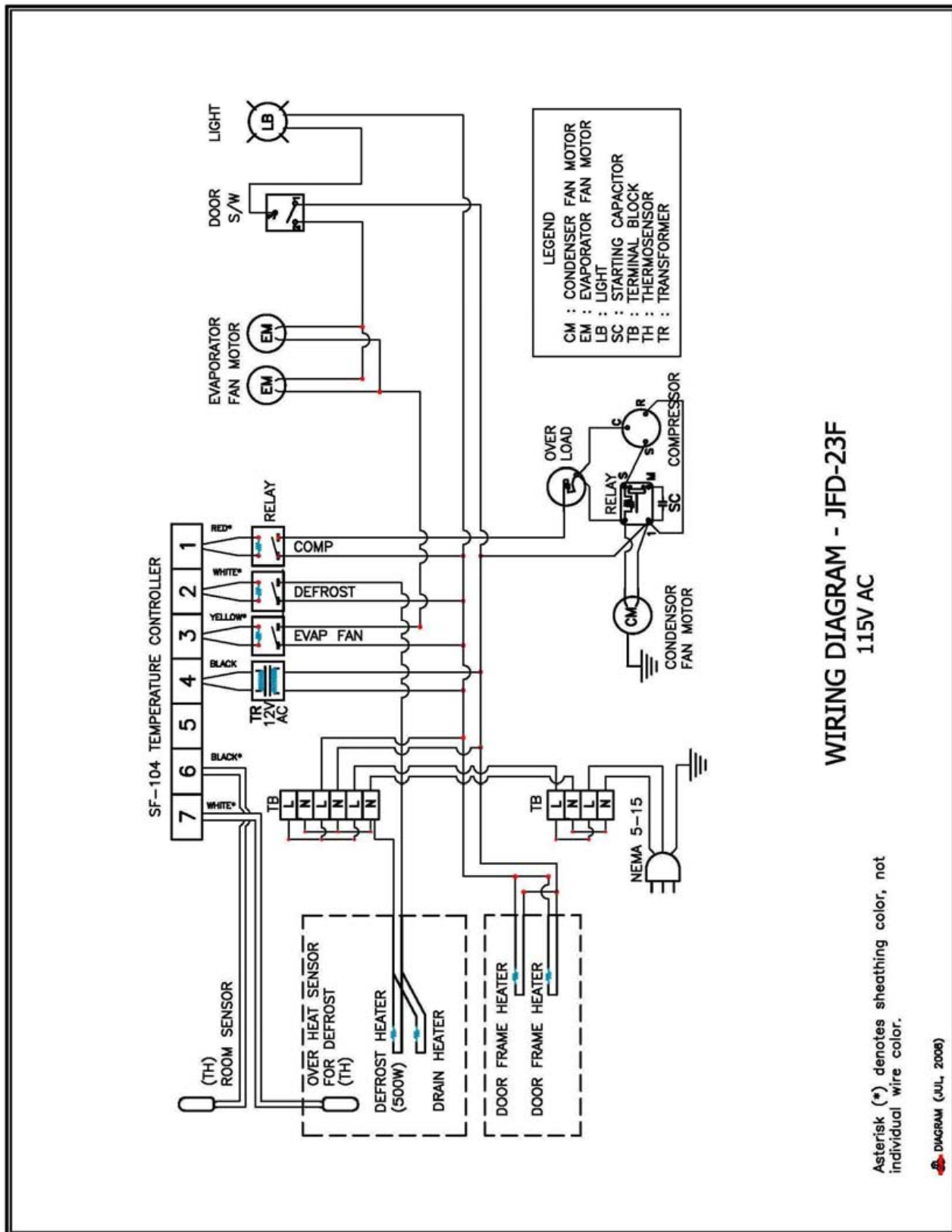
2-1. JFD-23R Wiring Diagram



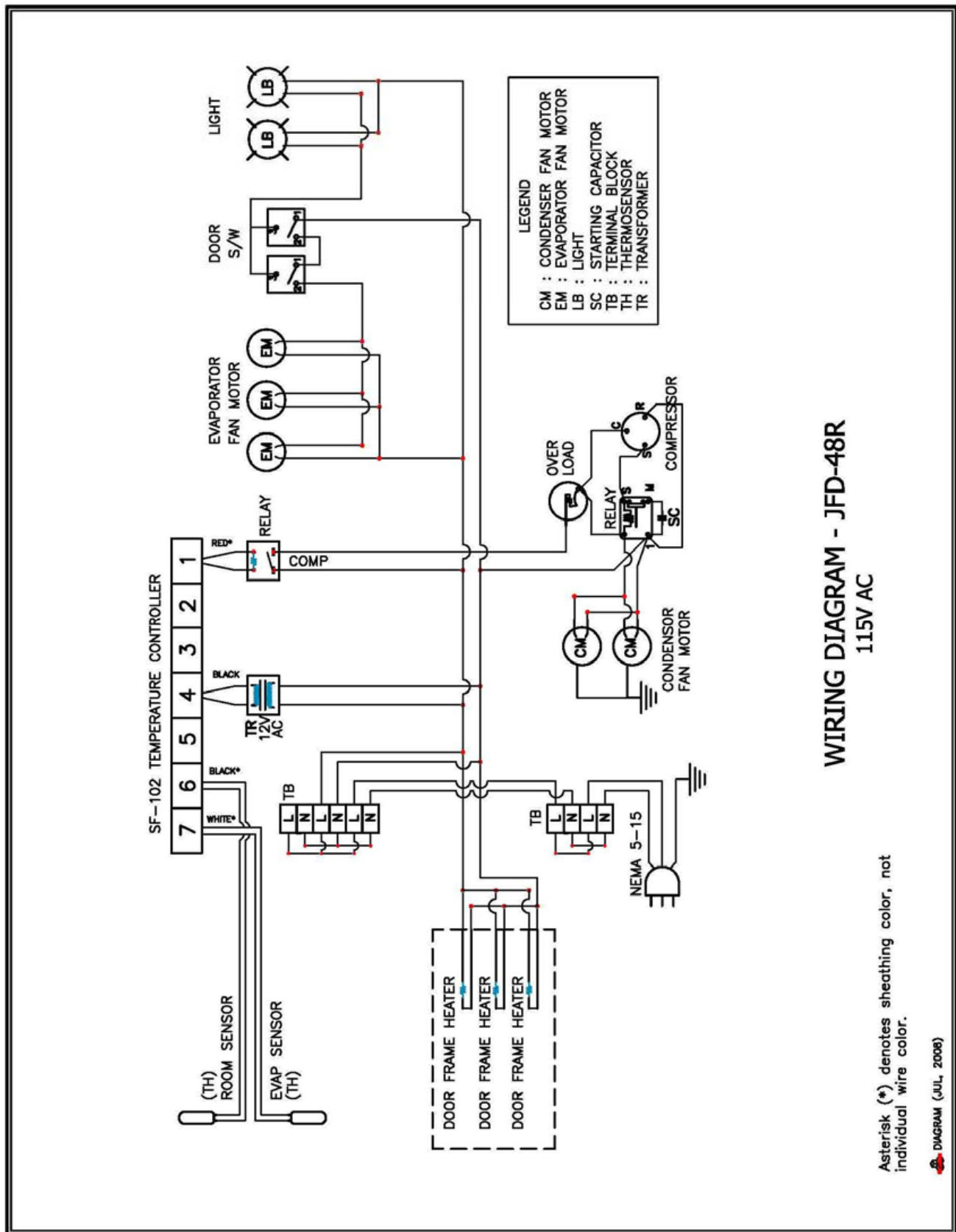
Asterisk (*) denotes sheathing color, not individual wire color.

DIAGRAM (JUL, 2008)

2-2. JFD-23F Wiring Diagram



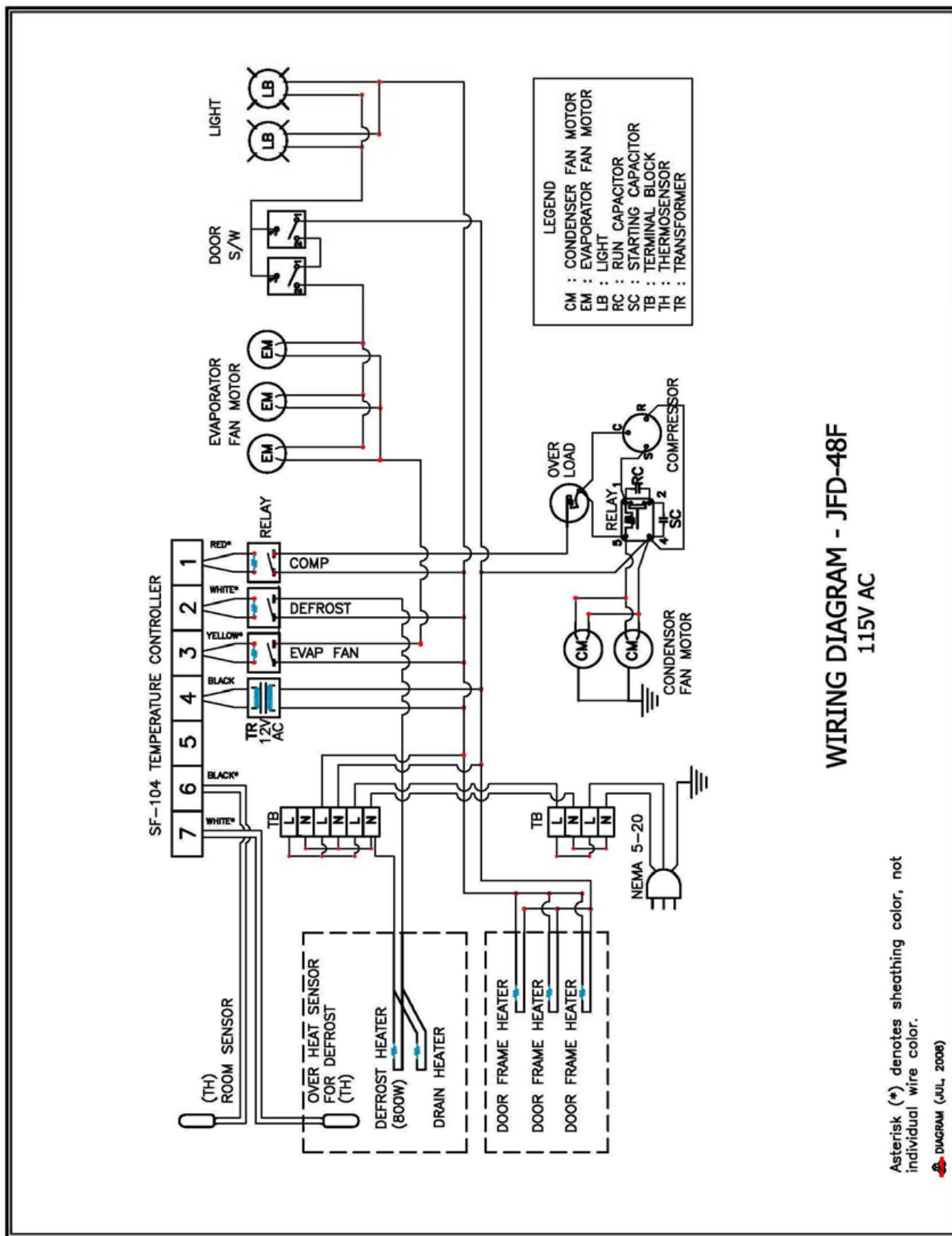
2-3. JFD-48R Wiring Diagram



Asterisk (*) denotes sheathing color, not individual wire color.

DIAGRAM (JUL 2008)

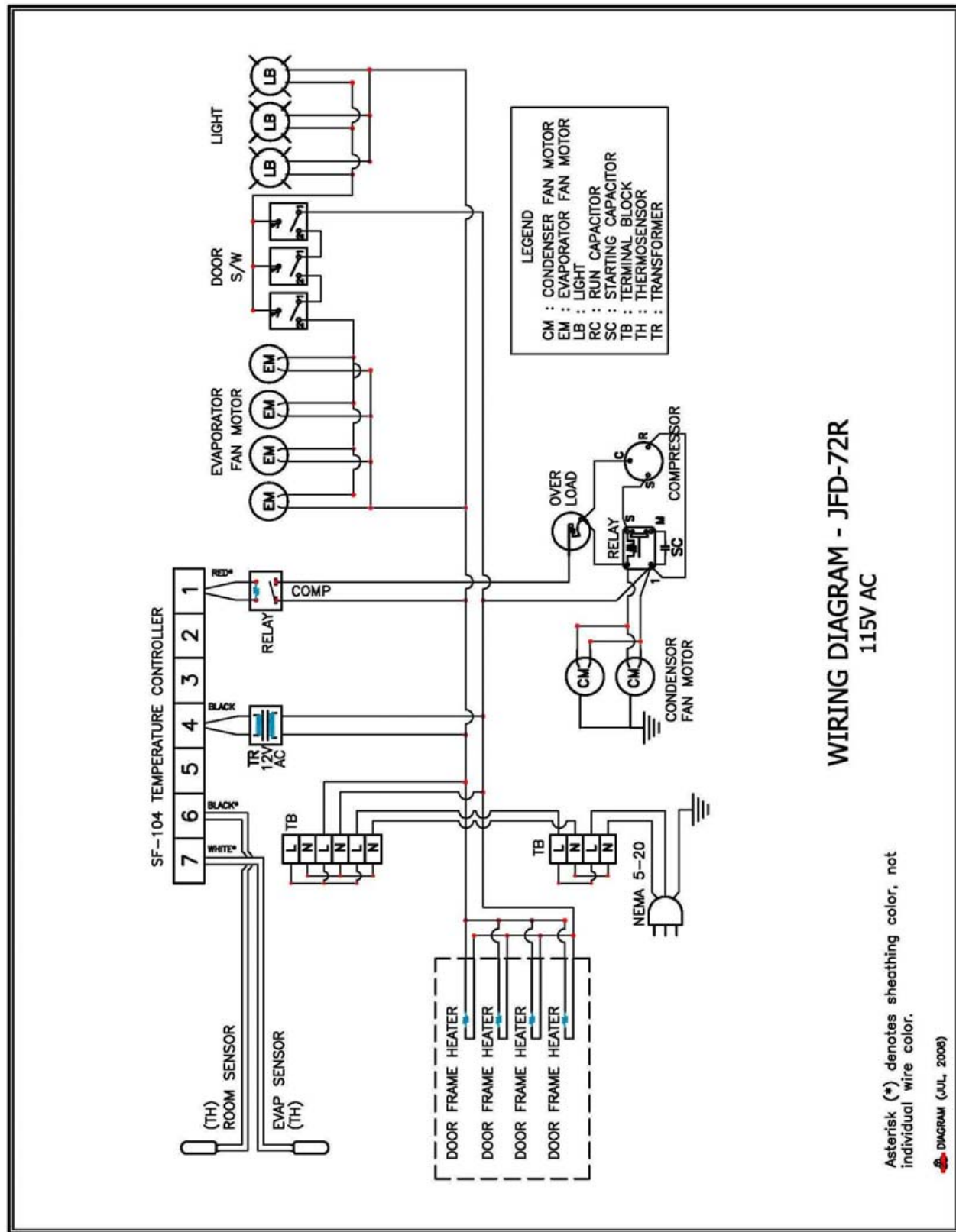
2-4. JFD-48F Wiring Diagram



Asterisk (*) denotes sheathing color, not individual wire color.

DIAGRAM (JUL, 2008)

2-5. JFD-72R Wiring Diagram



3. Electronic Control, SF-102 - Coolers

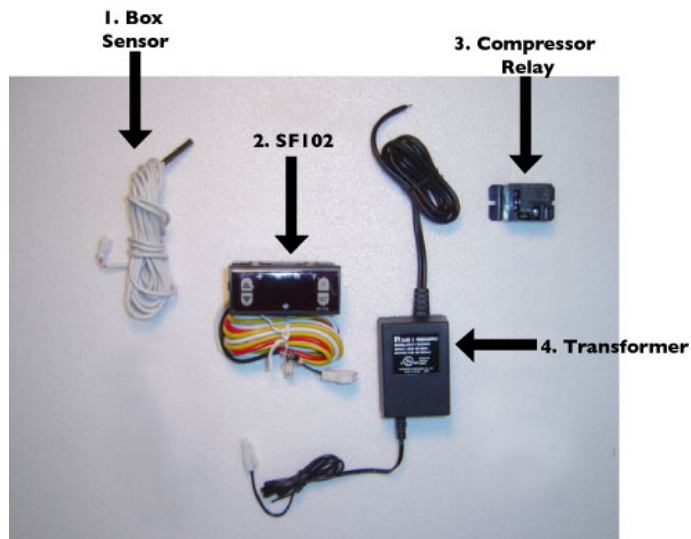
- 3-1. Components
- 3-2. Electrical Set Up
- 3-2. Basic Operation
- 3-3. Changing Settings
- 3-4. Factory Settings
- 3-5. Troubleshooting



3-1. Components

The components of the electronic control for Ascend coolers consist of:

- (1) Box Sensor
- (2) SF-102, micro temp control
- (3) Compressor Relay
- (4) Transformer



3-2. Electrical Set up

- The electronic control runs off of 12 volts AC, and sends out 12 volts DC.
- 120 V AC is converted to 12 V AC by the transformer before entering the control. The output for the compressor (terminal 1 out the back of the control) is 12 V DC. At the compressor relay it is changed to 120 V AC, which powers the compressor.

3-3. Basic Operation

The electronic control in Ascend coolers is preset for optimal performance from the factory. In most cases the only adjustment that may be desired is changing the set point.

Changing the set point:

- To change the set point, press and release the “SET” button. A number will now be flashing on the screen; this number is the set point.
- To change the desired set point, simply press the up or the down arrow until the flashing number reads the desired set point.
- When the desired set point is flashing on the screen there is no need to do anything further. In a few seconds the flashing set point will be replaced with the solid readout of the current box temperature, and the new set point will be stored in the controller’s memory.
- The box will now cycle on and off between the value of the set point and the value of the set point plus the differential. See Section 3-4 for more information.
- Allow up to two hours, depending on product loading and ambient temperatures for the unit to reach the new set point.

Initiating a manual defrost:

- The default settings for the cooler will automatically initiate an off cycle defrost every 12 hours. However, if at any time a one-time manual defrost is desired, simply press and hold the manual defrost button for six seconds. There will be an audible beep and the LED indicator for “defrost” will activate.
- At default settings the defrost will last for 30 minutes. At this point the defrost LED indicator will change from solid to indicate “in defrost” to a blinking indicator to indicate that the unit has just come out of defrost. This blinking will continue for 15 minutes.

3-4. Changing Settings

*The electronic control in Ascend coolers is preset for optimal performance from the factory, however **if you are installing a replacement control, or wish to change defrost settings** the default settings will need to be adjusted.*

- Press and hold the “SET” button for five seconds, until the control emits an audible beep - release the “SET” button. The display will now show a blinking “E1.” This is the first of the adjustable settings.
- To make a change to any setting, press and release either the up or the down arrow until the desired setting is reached.
- To move to the next setting press and release the “SET” button. If more than ten seconds go by without any buttons being pressed, the control will save all settings, exit the parameter set-up mode, and go back to reading the box temperature.
- To either lock or unlock the parameter set-up mode, press and hold the down arrow while the display is reading box temperature. After ten seconds the control will emit an audible beep and

the display will read "ON," indicating that settings E1 through C1 can be changed, or "OFF," indicating that E1 through C1 cannot be modified.

3-5. Factory Settings

- E1** The lowest value the end user can choose as the set point.
- E2** The highest value the end user can choose as the set point.
- E3** The differential. With a set point of 36° and a differential of 7°, the unit will cool until it reaches 36°. At this point, the compressor will then shut off and not come back on until the unit reaches 43° (36 + 7). The unit will cycle on and off between these two temperatures, maintaining an average box temperature half way between.
- E4** The compressor start delay is the shortest amount of time between the compressor cycling off and coming back on. It also will delay the compressor from starting when the unit is plugged in.
- E5** and **E6** will offset the temperatures read by the box and evaporator sensors. This setting is rarely used.
- F1** The maximum amount of time that a defrost *can* last. A defrost will last for the value set in **F1** or until the evaporator sensor reads the value set in **F3**.
- F2** The defrost interval controls how often the unit goes into defrost. A setting of six corresponds to every six hours, or four times a day. In addition, the first defrost will start an **F2** number of hours after the unit is first plugged in.
- F3** The defrost termination temperature value will bring the unit out of defrost before the full amount of time set in **F1** has been reached if the evaporator sensor ever reaches the value set in **F3**.
- F4** The display during defrost. A setting of "00" will show the current box temperature as it rises during a defrost, while a setting of "01" will lock in the last temperature value before the defrost began.
- F5, F6, F7, F8 and F9** are advanced settings and are advised not to be changed.
- C1** The temperature display units. "00" for Celsius, "01" for Fahrenheit.

SF-102 Solid Door Cooler Factory Settings

	Description	Setting
E1	Low set limit, °	36
E2	High set limit, °	45
E3	Differential, °	7
E4	Comp. start delay, minutes	3
E5	Box temp. offset, °	0
E6	Evap temp. offset, °	0
F1	Max. defrost duration, minutes	30
F2	Defrost interval, hours	12
F3	Defrost termination, °	68
F4	Display during defrost	1
F5	Fan operation function	1
F6	Draining time	4
F7	Fan restart after defrost	0
F8	When F7=00	6
F9	When F7=01	0
C1	Temperature units	1

3-6. Troubleshooting the SF-102

If the unit is not cooling:

Is the compressor LED indicator on?

- If the set point is higher than the box temperature, the compressor will not come on.

If the compressor LED indicator is on, but the compressor is not:

- If the box was just plugged in, there will be a compressor start delay (setting **E4**).
- Check for voltage out of terminal one on the back of the control. The voltage should be 12V DC.
- Check for voltage at the compressor relay. There should be 120V AC to the compressor.

If the compressor LED indicator is on, and there is 120V AC out of the compressor relay:

- Check operation of compressor.

Is the temperature the box sensor reading the true box temperature?

- Ohm out the sensor. The sensor should read 28,000Ω at 32°F and 10,000Ω at 77°F.

If the unit is too cold:

Is the compressor LED indicator on?

- If the set point is lower than the current box temperature, the compressor will stay on until it reaches the set point.

If the compressor LED indicator is not on:

- Check for voltage out of terminal one on the back of the control. There should not be voltage if the compressor LED indicator is not lit.
- Check for voltage out of the compressor relay. There should not be voltage out of the relay when the compressor LED is not lit.

Is the temperature the box sensor reading the true box temperature?

- Ohm out the sensor. The sensor should read 28,000Ω at 32°F and 10,000Ω at 77°F.

If the unit is building up ice:

Are the defrost settings (F1-F9) set to factory settings?

- Check the settings (see **3-3** and **3-4**) and reset to factory values if needed.

If defrost settings are at factory recommendations:

- Verify gasket seals, and product moisture levels.
- If needed, change the frequency or duration of the defrost cycle. Settings **F1 - F3** can be changed, call factory for recommendations.

4. Electronic Control, SF-104 - Freezers

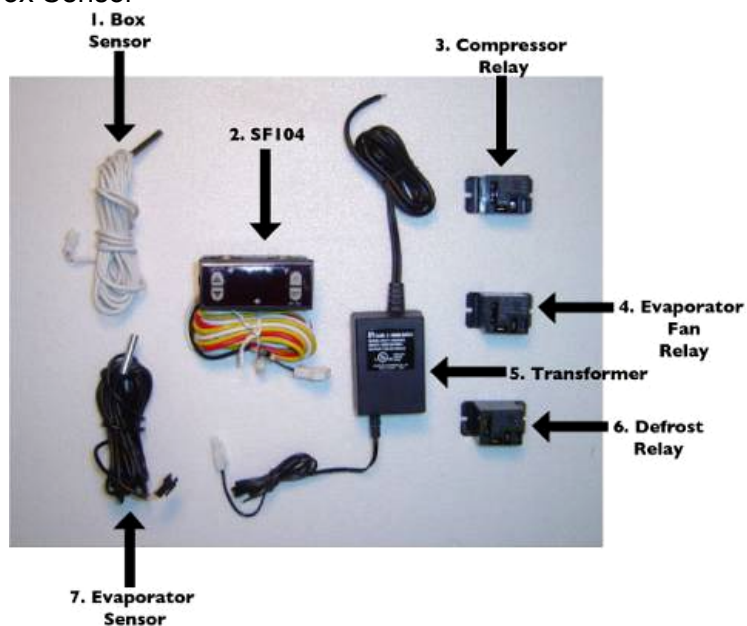
- 4-1. Components
- 4-2. Electrical Set up
- 4-3. Basic Operation
- 4-4. Changing Settings
- 4-5. Factory Settings
- 4-6. Troubleshooting



4-1. Components

The components of the electronic control for Ascend freezers consist of:

- (1) Box Sensor
- (2) SF-104 micro temp control
- (3) Compressor Relay
- (4) Evaporator Fan Relay
- (5) Transformer
- (6) Defrost Relay
- (7) Evaporator Sensor / Box Sensor



4-2. Electrical Set up

- The electronic control runs off of 12 volts AC, and sends out 12 volts DC.
- 120 V AC is converted to 12 V AC by the transformer before entering the control. The output for each of the electrical loads (compressor, defrost heaters and fans) is 12 V DC. At the respective relay it is changed to 120 V AC to power the load.

The electronic control in Ascend freezers is preset for optimal performance from the factory. In most cases the only adjustment that will be desired is changing the set point.

4-3. Basic Operation

Changing the set point:

- To change the set point, press and release the “SET” button. A number will now be flashing on the screen; this number is the set point.
- To change the desired set point, simply press the up or the down arrow until the flashing number reads the desired set point.
- When the desired set point is flashing on the screen there is no need to do anything further. In a few seconds the flashing set point will be replaced with the solid readout of the current box temperature and the new set point will be stored in the controller’s memory.
- The box will now cycle on and off between the value of the set point and the value of the set point plus the differential (see **4-4** for more information).
- Allow up to four hours, depending on product loading and ambient temperatures for the unit to reach the new set point.

Initiating a manual defrost:

- The default settings for the freezer will automatically initiate a heated defrost every six hours. However if at any time a one-time manual defrost is desired, simply press and hold the manual defrost button for six seconds. There will be an audible beep and the LED indicator for “defrost” will activate.
- At default settings, the defrost will last for 30 minutes, or until the defrost termination temperature is reached (see **4-4**). At this point the defrost LED indicator will change from a solid light to indicate “in defrost,” to a blinking indicator to indicate that the unit has just come out of defrost. This blinking will continue for 15 minutes.

4-4. Changing Settings

*The electronic control in Ascend freezers is preset for optimal performance from the factory, however **if you are installing a replacement control, or wish to change defrost settings** the default settings will need to be adjusted.*

- Press and hold the “SET” button for five seconds, until the control emits an audible beep - release the “SET” button. The display will now show a blinking “E1.” This is the first of the adjustable settings.
- To make a change to any setting, press and release either the up or the down arrow until the desired setting is reached.
- To move to the next setting, press and release the “SET” button.
- If more than 10 seconds go by without any buttons being pressed, the control will save all settings, exit the parameter changing mode, and go back to reading box temperature.
- To either lock or unlock the parameter-changing mode, press and hold the down arrow when the display is reading the box temperature. After 10 seconds the control will emit an audible beep

and the display will read "ON," indicating that settings E1 through C1 can be changed, or "OFF," indicating that E1 through C1 can not be modified.

4-5. Factory Settings

E1 The lowest value the end user can choose as the set point.

E2 The highest value the end user can choose as the set point.

E3 The differential. With a set point of 0° and a differential of 10°, the unit will cool until it reaches 0°, at this point the compressor will then shut off and not come back on until the unit reaches 10° (0 + 10). The unit will cycle on and off between these two temperatures, maintaining an average box temperature half way between.

E4 The compressor start delay is the shortest amount of time between the compressor cycling off and coming back on. It also will delay the compressor from starting when the unit is plugged in.

E5 and **E6** will offset the temperature's read by the box and evaporator sensors. This setting is rarely used.

F1 The maximum amount of time a defrost can last. A defrost will last for the value set in **F1** or until the evaporator sensor reads the value set in **F3**.

F2 The defrost interval controls how often the unit goes into defrost. A setting of six corresponds to every six hours, or four times a day. The first defrost will start an **F2** number of hours after the unit is plugged in.

F3 The defrost termination temperature value will bring the unit out of defrost before the full amount of time set in **F1** has been reached if the evaporator sensor ever reaches the value set in **F3**.

F4 The display during defrost. A setting of "00" will show the current box temperature as it rises during a defrost while a setting of "01" will lock in the last temperature value before the defrost began.

F5, F6, F7, F8 and F9 are advanced settings and are advised not to be changed.

C1 The temperature display units "00" for Celsius, "01" for Fahrenheit.

SF-104 Solid Door Cooler Factory Settings

	Description	Setting
E1	Low set limit, °	-10
E2	High set limit, °	20
E3	Differential, °	10
E4	Comp. start delay, minutes	3
E5	Box temp. offset, °	0
E6	Evap temp. offset, °	0
F1	Max. defrost duration, minutes	30
F2	Defrost interval, hours	6
F3	Defrost termination, °	68
F4	Display during defrost	1
F5	Fan operation function	1
F6	Draining time	4
F7	Fan restart after defrost	0
F8	When F7=00	6
F9	When F7=01	0
C1	Temperature units	1

4-6. Troubleshooting the SF-104

If the unit is not cooling:

Is the compressor LED indicator on?

- If the set point is higher than the box temperature, the compressor will not come on.

If the compressor LED indicator is on, but the compressor is not on:

- If the box was just plugged in, there is a compressor start delay (setting E4).
- Check for voltage out of terminal one on the back of the control. The voltage should be 12V DC.
- Check for voltage at the compressor relay. There should be 120V AC to the compressor.

If the compressor LED indicator is on, and there is 120V AC out of the compressor relay:

- Check operation of compressor.

Is the temperature the box sensor is reading the true box temperature?

- Ohm out the sensor. The sensor should read 28,000Ω at 32°F and 10,000Ω at 77°F.

If the unit is too cold:

Is the compressor LED indicator on?

- If the set point is lower than the current box temperature, the compressor will stay on until it reaches the set point.

If the compressor LED indicator is not on:

- Check for voltage out of terminal one on the back of the control. There should not be voltage if the compressor LED indicator is not lit.
- Check for voltage out of the compressor relay. There should not be voltage out of the relay when the compressor LED is not lit.

Is the temperature the box sensor reading the true box temperature?

- Ohm out the sensor. The sensor should read 28,000Ω at 32°F and 10,000Ω at 77°F.

If the unit is building up ice:

Are the defrost settings (F1-F9) set to factory settings?

- Check the settings (see 4-3 and 4-4), and reset to factory values if needed.

How long does the unit stay in defrost?

- Initiate a manual defrost (see 4.1) and time how long unit stays in defrost.
- If the unit comes out of defrost right away (less than a few minutes), it is possible that the evaporator/defrost termination sensor is giving bad values to the SF-104, and terminating the defrost prematurely. Ohm out the evaporator sensor.

Are the defrost heater coil and drain line heater operating correctly?

- Initiate a manual defrost and check amp draw on the defrost heater coil circuit (see section 6-2 for correct values). Alternatively, drop the evaporator coil cover (see 5-5,) and ohm out the heater coil (see section 6-2 for correct values).
- Drop the evaporator coil cover (see 5-5), and check amp draw, and/or ohm value of drain line heater (see section 6-2 for correct values).

If defrost settings are at factory recommendations, and heater coil is operational:

- Verify gasket seals, and product moisture levels.
- If needed, change the frequency or duration of the defrost cycle. Settings F1 - F3 can be changed. Call factory for suggestions.

5. Installing and Replacing Parts

5-1. Opening the top panel



- Remove three Phillips head screws (two from JFD-23 units).
- The top panel will now pivot up and out on the hinges connecting it to the of the unit.



two
top

5-2. Removing the top panel



To remove:

- Remove the four bolts that attach the two hinges on the top of the unit to the top panel.
- After the two top hinges are disengaged, support the top panel while removing the screws as directed in **5-1**.

To install:

- Reverse the above installation steps.

5-3. Electronic control



- To gain access the electronic control, simply follow instructions for opening the top panel as directed in **5-1**.



to

5-4. Door switches



To remove:

- Open top panel, see **5-1** above.
- Remove three wires from old door switch.
- Remove door switch.

To install:

- Reverse above directions.

5-5. Evaporator coil cover

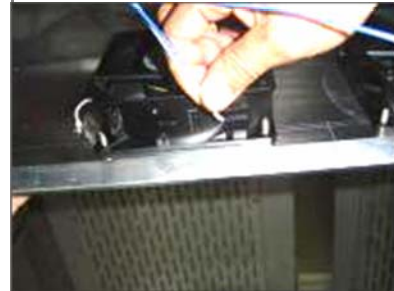


To remove:

- Remove the screws along the perimeter of the evaporator drain pan.
- The evaporator drain pan can now be lifted forward and pulled down.



- The drain pan will still be attached by the evaporator fan motor wiring.
- Cut the zip ties attaching the motor wiring to the motors.
- Unplug both leads from each evaporator fan motor.



- Pull the drain line heater out from the drain line.
- The evaporator coil cover is now freely removable.



To install:

- Reverse the above installation steps.

NOTE: Be sure the drain line heater does not become bunched up at the start of the drain.

5-6. Evaporator fan motor



To remove:

- Follow steps **5-5** above to remove the evaporator coil cover.
- Remove four screws to free evaporator fan motor from evaporator coil cover and evaporator fan guard.

To install:

- Reverse the above directions.

5-7. Defrost heater coil and drain line heater (freezer only)

To remove:

- Drop the evaporator coil cover, see **5-5** above.
- Remove and replace either the defrost heater coil or the drain line heater.
- Cut the two wire leads for the replaced component inside the box, at the heater element.

To install:

- Remove both the back and top wiring access U-channels.
- Push or snake the leads for the replacement heater through the elliptical hole in the back wall of the unit.
- Pull the leads tight from the outside back of the box.
- Make the replacement connection on the top of the box, discarding the wire leads to the old element.



5-8. Doors



To remove:

- Open the top panel, see **5-1**.
- Remove the screw and washer that attaches the bracket to the tensioner (white arrow).
- While supporting the door, remove the three screws that attach the top bracket to the unit (black arrows), removing the middle screw last.
- The door will now lift up and off the bottom hinge.



To install:

- **NOTE:** The tensioner works by means of an interior cam. If the door and tensioner are installed incorrectly, the tensioner will act as a spring, trying to open the door, not assist in shutting it. Anytime a door is removed or a tensioner is replaced, care must be taken to reinstall the door and tensioner in the correct orientation.

- Place the door on the bottom hinge.
- **With the door in the closed position**, attach the top hinge to the tensioner/door assembly with one Phillips head screw (black arrow at right). Be sure to attach the hinge in the orientation that is as at a **45° angle to with face of the unit**. (See picture at right.)
- Attach the tensioner/door/upper hinge assembly to the unit with three Phillips head screw (black arrows above), attaching the middle screw first.
- Open the door. There should be a tension force which works to close the door.



NOTE: Picture is of left-hinged door.

NOTE - If the newly-installed tensioner is acting to assist in the opening of the door, it is because either the door or the hinge was installed in the wrong orientation. Remove all screws from the

upper hinge and tensioner assembly and re-install. making sure to install with the door closed and the hinge as pictured above.

5-9. Tensioner



To remove:

- Remove the door as directed in **5-8**.
- Remove the two screws attaching the tensioner to the door.
- With use of leverage, carefully pry the tensioner out of the door cavity.



To install:

- Push the new tensioner down into the cavity in the door.
- Replace the two screws that were taken out of the old tensioner.

*NOTE: The tensioner works by means of an interior cam. If the door and tensioner are installed incorrectly the interior cam of the tensioner will act as a spring, trying to open the door, not assist in shutting it. Any time a door is removed, or a tensioner is replaced, care must be taken to reinstall the door and tensioner in the correct orientation. See above **5-8. "To install:"** for the correct procedure to insure correct operation.*

5-10. Gaskets



To remove:

- Begin at one corner, grab gasket and pull away from door, follow gasket along perimeter of door.

To install:

- Begin at one corner by pushing the protruding "dart" into the channel in the door, move away from corner, and around the door perimeter, pushing the dart into the channel.



5-11. Bottom front grill



To remove: Remove four Phillips head screws. Lift up and pull forward.

To install: Reverse the above directions



5-12. Condensing assembly



- Remove all screws around the perimeter of the bottom back grill, to remove the bottom back grill.
- Remove the bottom front grill, see 5-8 above.
- Remove the two screws that attach the system deck to the system rails.
- The system deck will now slide forward to allow access.
- Care must be taken to not stress the refrigerant lines

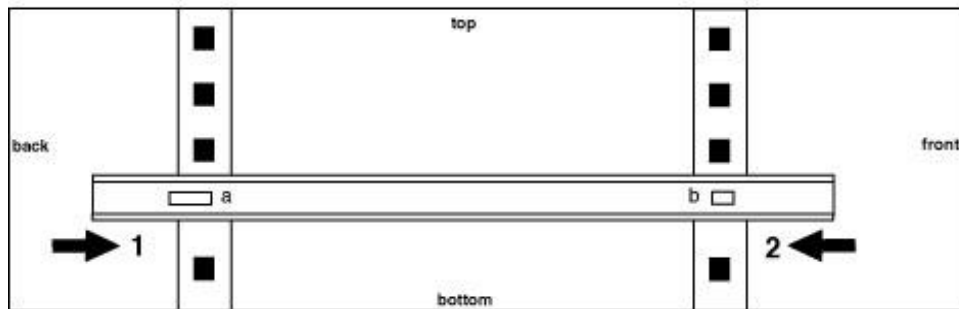


when sliding the system deck.

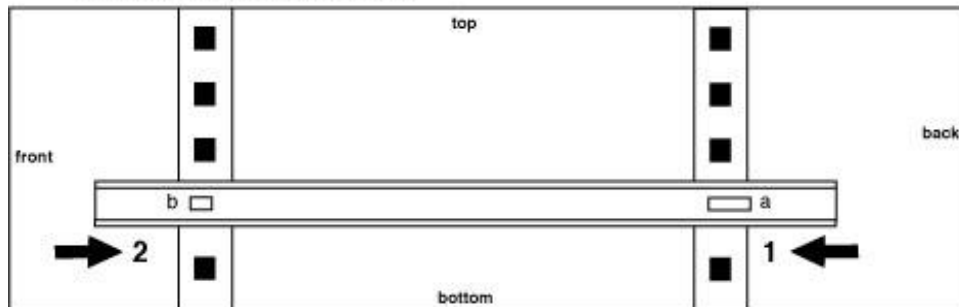
5-13. Shelving

SHELF BRACKET INSTALLATION Follow diagrams to properly install shelf brackets!!!

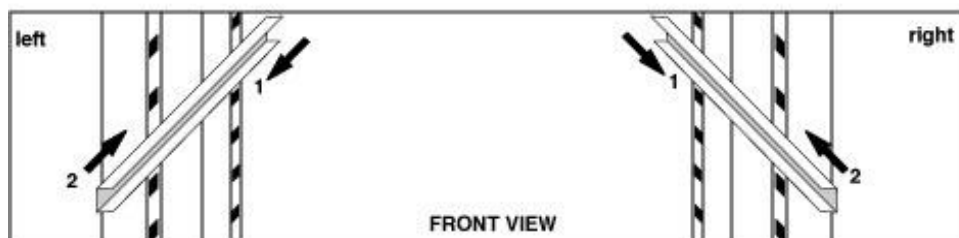
(picture of interior pilasters, right side)



(picture of interior pilasters, left side)



- 1) Attach the back of the bracket first by sliding the opening "a" (longer tab) into the back pilaster and pull forward, far enough to fit opening "b" into the front pilaster
- 2) Attach the front of the bracket by inserting the opening "b" (shorter tab) into the front pilaster and push back to secure (**IMPORTANT!!!**)



6. Troubleshooting, FAQs and Tech information

6-1. Frequently asked questions

What does it mean when "LL" or "HH" is displayed on the electronic control?

- LL and HH are error codes that the control displays when it is reading a temperature that is out of the range it can read: either too low (LL) or too high (HH). In most cases the temperature in the box is in fact not out of range. Instead the sensor is giving the controller bad values. Ohm out the sensor and compare the values to the known values. When LL or HH are displayed on the screen the controller will go into a "fail safe mode" which will run the compressor for 45 minutes on, 15 minutes off.
- If both sensors ohm out correctly and there are no loose connections, then there is an internal fault with the controller.

Can I run an Ascend cooler as a freezer, or freezer as a cooler?

- No, this is not recommended. This will shorten the life of the compressor by running it outside of the parameters that it was designed for.

The unit does not go into defrost / does not come out of defrost.

- If the digital control defrost LED indicator is reading as expected, check the operation of the defrost relay.

The unit is building up ice on evaporator coil.

- Check defrost settings, see section **4-3**, **4-4** and **4-5**. If needed, change defrost settings from factory defaults.
- Check gasket seals and product moisture level.
- Check operation of defrost heater coil and drain line heater.

Water is leaking inside the unit. / There is ice on the back wall or floor.

- During defrost, water is dripping from the evaporator coil cover, usually down the back wall and onto the floor of the unit.
- Drop the evaporator coil cover, see section **5-5** and verify that the drain line is clear and unobstructed.
- Check operation of drain line heater.
- Pour water into the front area of the evaporator coil cover and verify that there are no leaks, and that the evaporator coil cover drain tube extends into the back wall.

Unit is leaking water outside the unit.

- Make sure unit is level.
- Remove back cover and verify that drain tube is in place in condensate drain pan.

The doors will not shut by themselves.

- Ascend full door coolers and freezers have a "hold open" feature. The doors will not auto close if they are open more than 90°.
- If the door is actively springing open the tensioner is installed incorrectly. See **5-8**.
- If the door is neither actively springing open, nor closing by itself, the tensioner needs to be replaced. See **5-8** and **5-9**.

The unit makes loud shaking noises on compressor start up (JFD-72F only).

- The CPR valve needs to be adjusted. See **5-14** above.

6-2. Ohm and amp values per component

Box and Defrost Sensor

Known Temperature	Ω value
-4 °F	67,400
32 °F	28,400
77 °F	10,000
80 °F	9,600
90 °F	7,600

Drain Line Heater

Unit	Voltage	k Ω	W	Amp draw
JFD-23F JFD-48F	120 V	1.98	7.3	0.06
JFD-72F	Coming Soon			

Defrost Heater Coil

Unit	Heater Name	Ω	W	Amp draw
JFD-23F	500 W @ 120 V	24 -28	550	4 - 5
JFD-48F	800 W @ 120V	14 - 18.0	800	6 -7
JFD-72F	Coming Soon			

6-3. Compressor tech data and running pressures

Unit	Compressor	Cap tube (length / BC#)	Amount of charge (oz)	Comp - BTU/hr*	Unit Start amps	Unit Run amps
JFD-23R	1/3 HP 134a, Tecumseh AEA-4440YXA	60"/BC2	10.25	1829	9.4	8.1
JFD-23F	1/2 HP 404A, Aspera T2155	50"/BC2	14	1407	10.6	8.5
JFD-48R	1/2 HP 134a, Aspera T6213	120"/BC3	23.25	3340	11.6	8.9
JFD-48F	3/4 HP 404A, Aspera T2180GK	60"/BC2	18.3	2837	13.8	9.9
JFD-72R	1/2 HP 134a, Aspera T6215	78"/BC3	27.5	4016	12.6	9.1
JFD-72F	Coming Soon					

*Compressor BTU/hr values for coolers are taken at a 20°F evaporator coil and 130°F condenser coil. Freezer: at a -20°F evaporator coil, and 130°F condenser coil.

Unit	Low Side psi @ 75° ambient**	High Side psi @ 75° ambient**	Low Side psi @ 85° ambient**	High Side psi @ 85° ambient**
JFD-23R	6	105	8	145
JFD-23F	7	175	10	210
JFD-48R	4	115	6	135
JFD-48F	10	200	12	235
JFD-72R	7	110	8	125
JFD-72F	Coming	Soon		

**High and low side pressures are taken at 0°F for freezers (empty box, cycling between -5° and 5°), and 38°F for coolers (empty box, cycling between 35° and 41°), and are taken just before compressor cycles off.

6-4. Revision and changes history

8/13/2008 - Initial version