



Container Refrigeration



PARTS LIST MANUAL

For

OptimaLINE

69NT40-701-001 to 099

Container Refrigeration Units



PARTS LIST MANUAL

OptimaLINE

69NT40-701-001 to 099

Container Refrigeration Units

TABLE OF CONTENTS

PARAGRAPH NUMBER		PAGE
1.1	Introduction	1
1.2	Configuration Identification	1
1.3	Ordering Instructions	1
1.4	Letter Designations	1
1.5	Quick Parts Reference	2
1.6	Refrigeration Unit Component Sections	4
2	Panel Assembly, Upper Air Exchange Panel	6
3	Panel Assembly, Standard Evaporator Panel	8
4	Controlled Atmosphere, EverFRESH	10
5	Controlled Atmosphere, Nitrogen Feed	12
6	Compressor Assembly	14
7	Compressor Tubing, Standard Units	16
8	Condenser Fan and Motor	18
9	Condenser Assembly	20
10	Evaporator Fan and Motor	23
11	Evaporator Tubing and Coil	24
12	Heaters	26
13	Humidity Sensor	27
14	Frame Kit	28
15	Frame Assembly	30
16	Controller Module, Electronics, Tools	34
17	Controller Kit	36
18	Control Box Door Kit	40
19	Control Box Prep Kit	42
20	Control Box Assembly	43
21	Panel Kit for Start/Stop (ST) Switch	44
22	Remote Monitoring Unit (RMU) Kit	46
23	USDA	48
24	Interrogator Connector Front	49
25	Controller Battery Kit	50
26	Wiring Kit	52
27	Wire Harness, Low Voltage	54
28	High Voltage Harness	56
29	Cable Assembly - Power Cable and Plug	58
30	Cable Kit	59
31	Handle Kit	60
32	Labels and Decals	62
33	Back Panel Assembly	64
34	Vacuum Relief Valve	66
35	Plate Assembly	67
36	R-513A Conversion Kit	68

Section 1

Introduction

1.1 Introduction

The Carrier Transicold OptimaLINE units are of lightweight aluminum frame construction, designed to be bolted onto the container front to serve as the container's front wall. Forklift pockets are provided for installation and removal.

OptimaLINE units are self-contained, all electric units, which include cooling and heating systems to provide precise temperature control. The units are supplied with a complete charge of refrigerant and compressor lubricating oil, and are ready for operation upon installation.

The base unit operates on nominal 380/460 volt, 3-phase, 50/60 hertz (Hz) power. Control system power is provided by a transformer which steps the supply power down to 18 and 24 volts, single phase.

1.2 Configuration Identification

Unit identification information is provided on a nameplate located on the side wall under the variable frequency drive. The plate provides the unit model number, the unit serial number and the unit parts identification number (PID). The model number identifies the overall unit configuration, while the PID number provides information on specific optional equipment, factory provisioned to allow for field installation of optional equipment and differences in detailed parts.

1.3 Ordering Instructions

All orders and inquiries for parts must include: Parts Identification Number (PID), Model Number, Unit Serial Number, Part Number, Description of part as shown on list and quantity required.

For parts ordering and inquiries, go to the Contact Us page on the Carrier Container website:

<https://www.carrier.com/container-refrigeration/en/worldwide/locator/contact-us/>

1.4 Letter Designations

The following letter designations are used to classify parts throughout this list:

A/R = As Required

N/A = Not Available

NS = Not Shown in illustration

NSS = Not Sold Separately - order next higher assembly or kit

PID = Parts Identification Number - essential to identify unit configuration.

PL = Purchase Locally

SST = Stainless Steel - 300 Series unless otherwise specified.

SV = Suffix SV - added to part number designates service replacement part.

1.5 Quick Parts Reference

Part Number	Description	Symbol
12-00495-02SV	Ambient Temperature Sensor	AMBS
66-U---1--7842-12	Circuit Breaker	CB1
18-10201-20	Compressor, Variable Speed Scroll	
22-04546-10	Power Cable, Compressor (included with 18-10201-20)	
12-00726-20	Compressor Discharge Temperature Sensor	CPDS
46-00025-09	Compressor Oil	
81-04237-20	Condenser Coil Assembly	MCHE
54-00739-20	Condenser Fan Motor, Dual Speed	
38-00620-01	Condenser Fan Assembly	
12-55016	Controller, ML5	
79-66081-21	Controller Battery, Battery Pack and Bracket Standard	
07-00614-00	Controller Battery, Smart Battery Charger	
12-00495-02SV	Defrost Temperature Sensor	DTS
40-00583-18	Discharge / High Side Service Valve	
12-00352-11	Discharge Pressure Transducer	DPT
12-00433-09RP	Display Module	
79-04451-00	Economizer Heat Exchanger Assembly	
14-00393-03	Economizer Expansion Valve Body	ECV
14-00393-10	Economizer Expansion Valve Coil	ECV
12-00352-11	Economizer Pressure Transducer	ECP
12-00726-20	Economizer Temperature Sensor	ECT
14-00393-02SV	Electronic Expansion Valve Body	EEV
14-00393-10	Electronic Expansion Valve Coil	EEV
81-04350-20	Evaporator Coil	
24-00006-20	Evaporator Coil Heater, 750W	
38-00626-00	Evaporator Fan	
54-00648-20	Evaporator Fan Motor	EM1 / EM2
76-66683-00	Evaporator Stator and Stator Ring	
12-00500-01SV	Evaporator Temperature Sensor	ETS1 / ETS2
76-00816-00	Evaporator Pressure Transducer	EPT
14-00464-20	Filter Drier	
07-00294-00	Gauge Set, Manifold - Fahrenheit / PSI	
07-00294-05	Gauge Set, Manifold - Centigrade / KPa	
76-66705-00	Heat Termination Thermostat	HTT
12-00309-08	High Pressure Switch	HPS
76-00675-04	Humidity Sensor Assembly Kit, Includes 76-66694-00	HS
76-66694-00	Humidity Sensor Kit, Sensor and Bracket only	HS

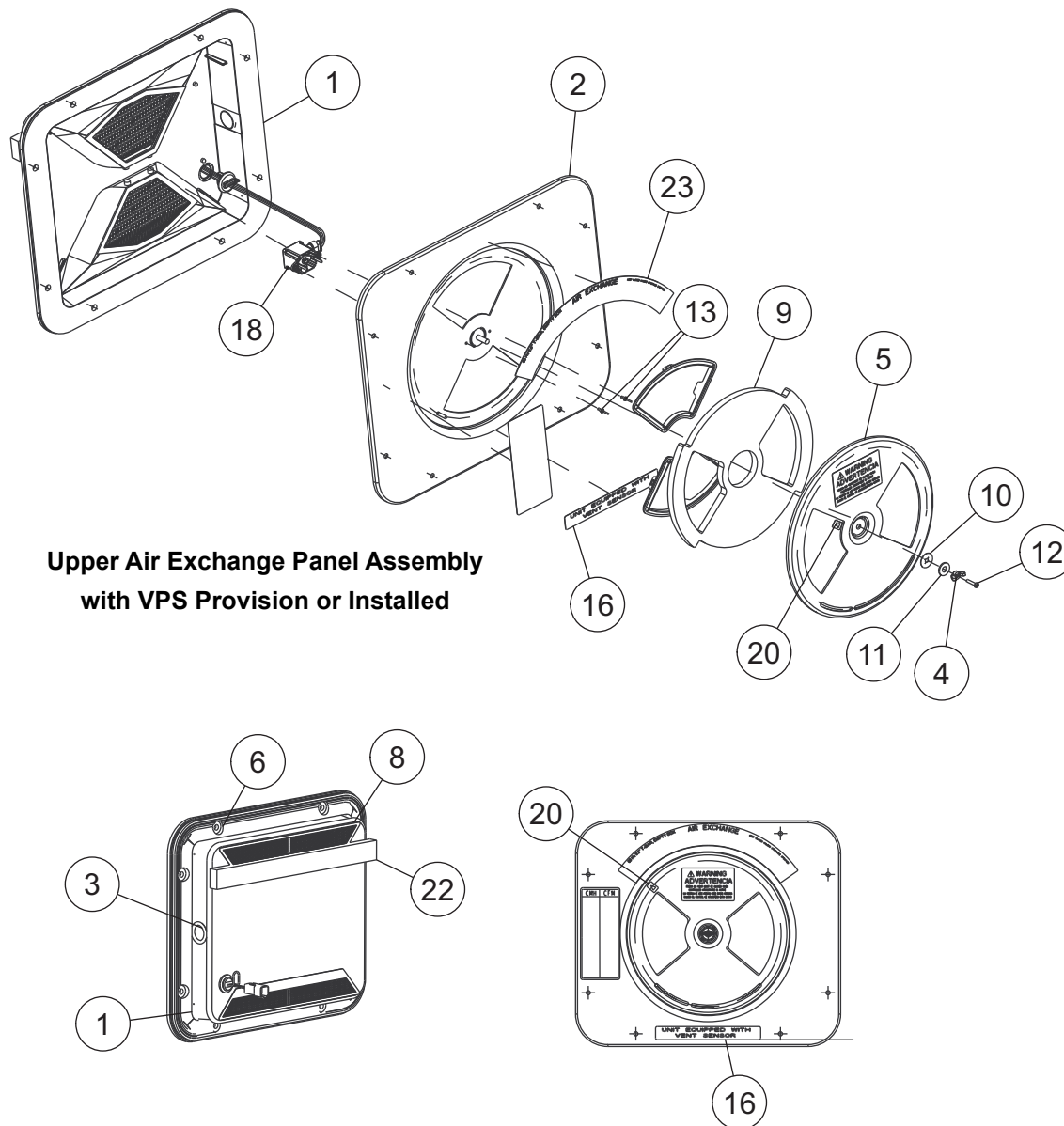
Part Number	Description	Symbol
79-66669-05	Key Pad Assembly	
14-00222-05	King Valve / Liquid Line Service Valve	
79-01697-06SV	Panel Assembly, Standard Evaporator Panel	
79-66780-01	Panel Assembly, Upper Air Exchange, VPS Installed	
22-50401-00	Power Cable Assembly 460V, 11 Gauge with Power Plug	
22-66651-00	Power Cable 460V, 11 Gauge, 4x4	
22-66654-00	Power Cable 460V, 10 Gauge, 5x5	
22-02378-00PK10	Power Plug, 10 Pack	
22-66795-20PK10	Power Plug, Rotating, 10 Pack	
65-00232-00	Receiver Assembly, with Fusible Plug, for unit models 701-001 to 099	
14-00467-22	Fusible Plug	
14-00468-22	Sightglass	
14-00469-22	Indicator, Sightglass	
76-66719-00	Refrigerant Conversion Kit, R-513A	
12-00500-01SV	Return Temperature Sensor / Return Recorder Sensor	RTS / RRS
40-00665-09	Suction / Low Side Service Valve	
76-00816-00	Suction Pressure Transducer	SPT
12-00395-01SV	Supply Temperature Sensor / Supply Recorder Sensor	STS / SRS
10-01129-07SV	Toggle Switch Start / Stop	ST
10-00332-21SV	Transformer, Control	
10-00439-03	Transformer, Current Sensing	
12-50089-02PK4	USDA Sensor, 4 Pack	USDA
07-00176-11	Vacuum Pump, Dual Voltage / Dual Frequency	
10-00560-01	Variable Frequency Drive	VFD
76-00932-00	Variable Frequency Drive Fan	VFD
76-66665-00	Vent Position Sensor	VPS
22-04544-00	Wire Harness, Low Voltage, Sensor	
22-04545-00	Wire Harness, Low Voltage Switch	
91-00519-00	Wire Harness, High Voltage	

1.6 Refrigeration Unit Component Sections

Section	Description
Air Exchange and Atmosphere	
Section 2	Panel Assembly, Upper Air Exchange Panel, Left Side
Section 3	Panel Assembly, Standard Evaporator Panel, Right Side
Section 4	Controlled Atmosphere, EverFRESH®
Section 5	Controlled Atmosphere, Nitrogen Feed
Compressor Section	
Section 6	Compressor Assembly
Section 7	Compressor Tubing
Condenser Section	
Section 8	Condenser Fan and Motor
Section 9	Condenser Assembly
Evaporator Section	
Section 10	Evaporator Fan and Motor
Section 11	Evaporator Tubing and Coil
Section 12	Heaters
Section 13	Dehumidification
Frame	
Section 14	Frame Kit
Section 15	Frame Assembly
Controls and Electronics	
Section 16	Controller Module, Related Electronics, Tools
Section 17	Controller Kit
Section 18	Control Box Door Kit
Section 19	Control Box Prep Kit
Section 20	Control Box Assembly
Section 21	Panel Kit for Start/Stop (ST) Switch
Section 22	Remote Monitoring Unit (RMU)
Section 23	USDA Section
Section 24	Interrogator Connector Front (Option)
Electrical and Cables	
Section 25	Controller Battery
Section 26	Wiring Kit
Section 27	Wire Harness, Low Voltage
Section 28	Wire Harness, High Voltage
Section 29	Cable Assembly - Power Cable and Plug
Section 30	Cable Kit

Section	Description
Convenience Features	
Section 31	Handle Kit
Section 32	Labels and Decals
Section 33	Back Panel
Section 34	Vacuum Relief Valve
Section 35	Plate Assembly
Section 36	R-513A Conversion Kit

2 Panel Assembly, Upper Air Exchange Panel

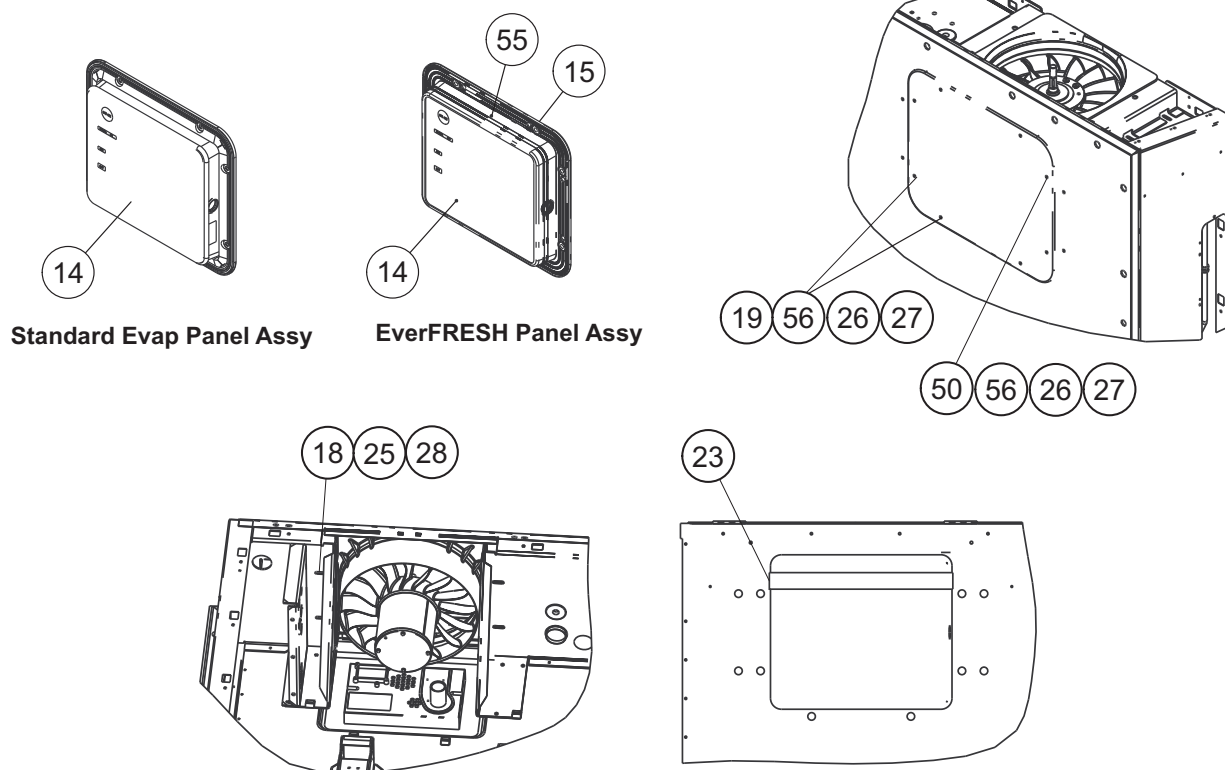


Item	Part Number	Description	Qty
	79-66780-01	Panel Assembly, Upper Air Exchange - Includes:	1
NS	66CH---1--1172-2	Trim, Flexible	1
NS	58-00969-00	Wire Tie	1
NS	22-01613-10	Plug	1
NS	22-01613-11	Lock	1
NS	22-01613-13	Contact	3
NS	22-01614-06	Plug	1
1	79-66771-01	Access Panel Assembly	NSS
2	68-12940-05	Cover	1
3	66-U---1--5562-2	Plug, Button	1

2 Panel Assembly, Upper Air Exchange Panel

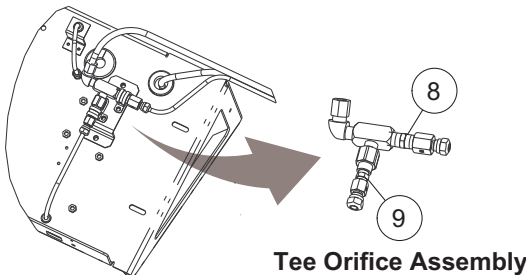
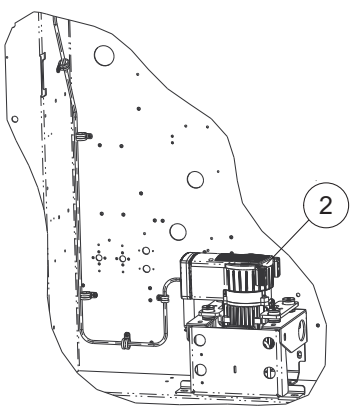
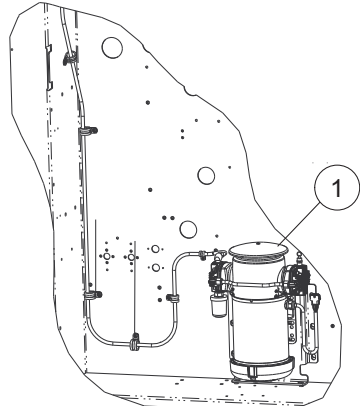
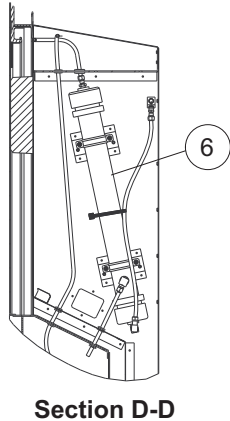
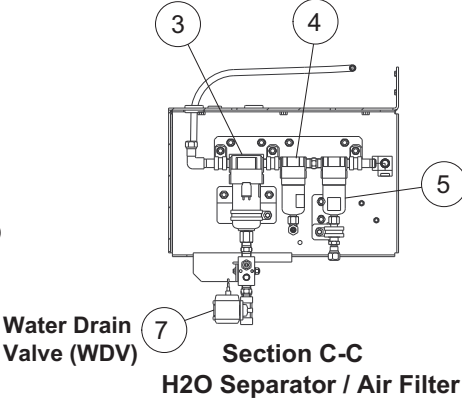
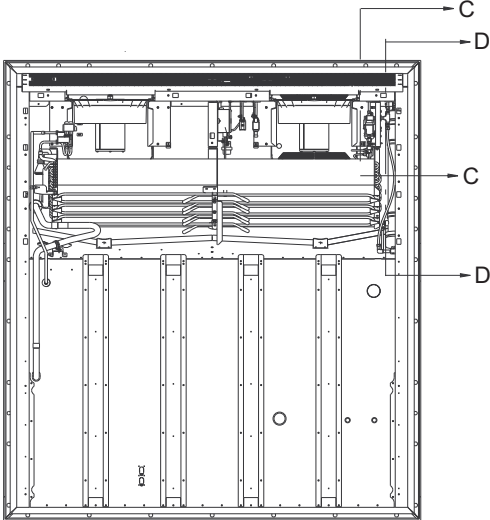
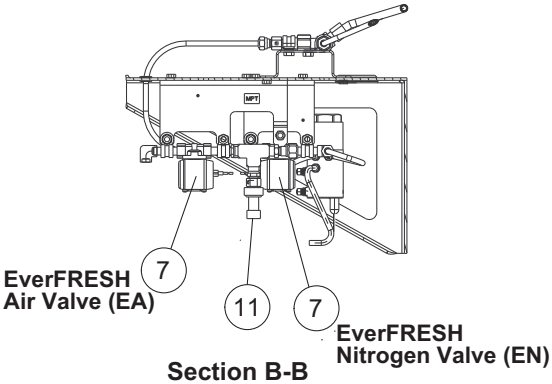
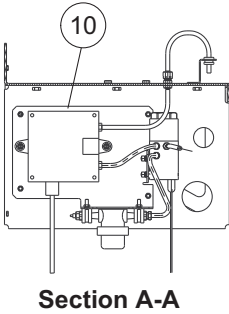
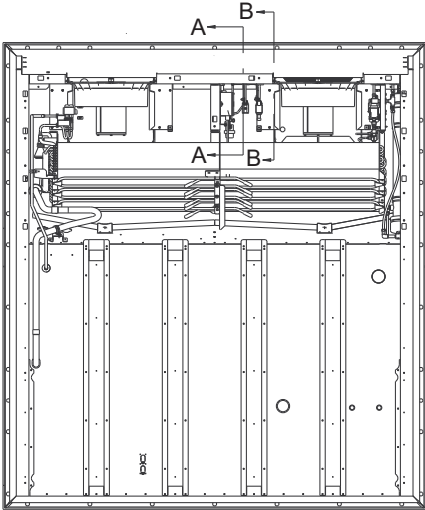
4	66-U---1--5362-2	Nut, Wing	1
5	68-12933-07	Disc	1
6	42-00296-01	Gasket, Panel	1
8	42-00327-00	Gasket, Half Round	1
9	42-00407-00	Gasket, Fresh Air Disc	1
10	34-06053-19	Washer, Retaining	1
11	66-U---1--5321-13	Washer, Plain	1
12	34-06185-01	Screw, Mach Pnhd	1
13	34-00928-20	Rivet, Blind	2
16	62-10930-00	Label, VPS	1
18	76-66665-00	Vent Position Sensor (VPS) Kit	1
20	66CH---1--1002-33	Label, > Arrow	1
22	66-U---1--2552-185	Gasket	1
23	62-02723-15	Label, Upper Fresh Air	1

3 Panel Assembly, Standard Evaporator Panel



Item	Part Number	Description	Qty
Standard Evaporator Panel, no EverFRESH			
14	79-01697-06SV	Panel Assembly, Standard Evaporator Panel	1
19	34-66627-00	Screw, Cap Hxhd	2
26	34-06053-18	Washer, Retaining	8
27	34-06212-17	Washer, Plain	8
50	34-66644-00	Screw, Cap Hxhd	6
Standard Evaporator Assembly, EverFRESH			
14	79-01697-06SV	Standard Evaporator Panel Assembly	1
15	68-11989-00	Cover, Top	1
18	34-00655-08	Screw, Cap Hxhd	4
19	34-66627-00	Screw, Cap Hxhd	2
23	66-U---1--2552-185	Gasket	1
25	34-00663-11	Washer, Lock	4
28	69NT--35--2692-1	Washer, Fender	4
50	34-66644-00	Screw, Cap Hxhd	6
55	42-00838-00	Gasket	1
56	34-66682-00	Washer	8

4 Controlled Atmosphere, EverFRESH



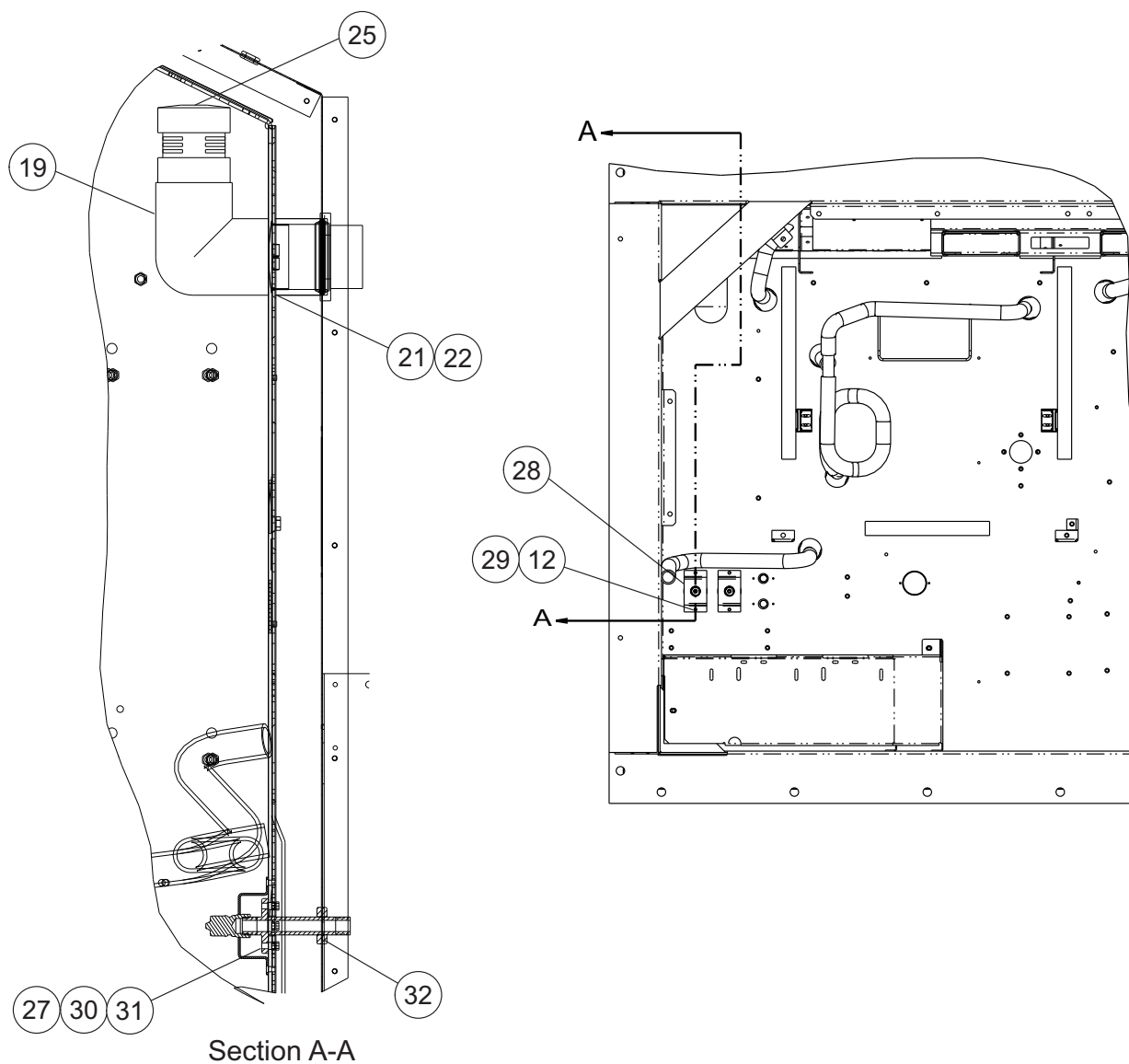
4 Controlled Atmosphere, EverFRESH

The major components of the EverFRESH controlled atmosphere option are listed below.

For a complete list of EverFRESH parts, refer to the T-374 EverFRESH manual which is available on the ContainerLINK app or the Container Refrigeration Literature website.

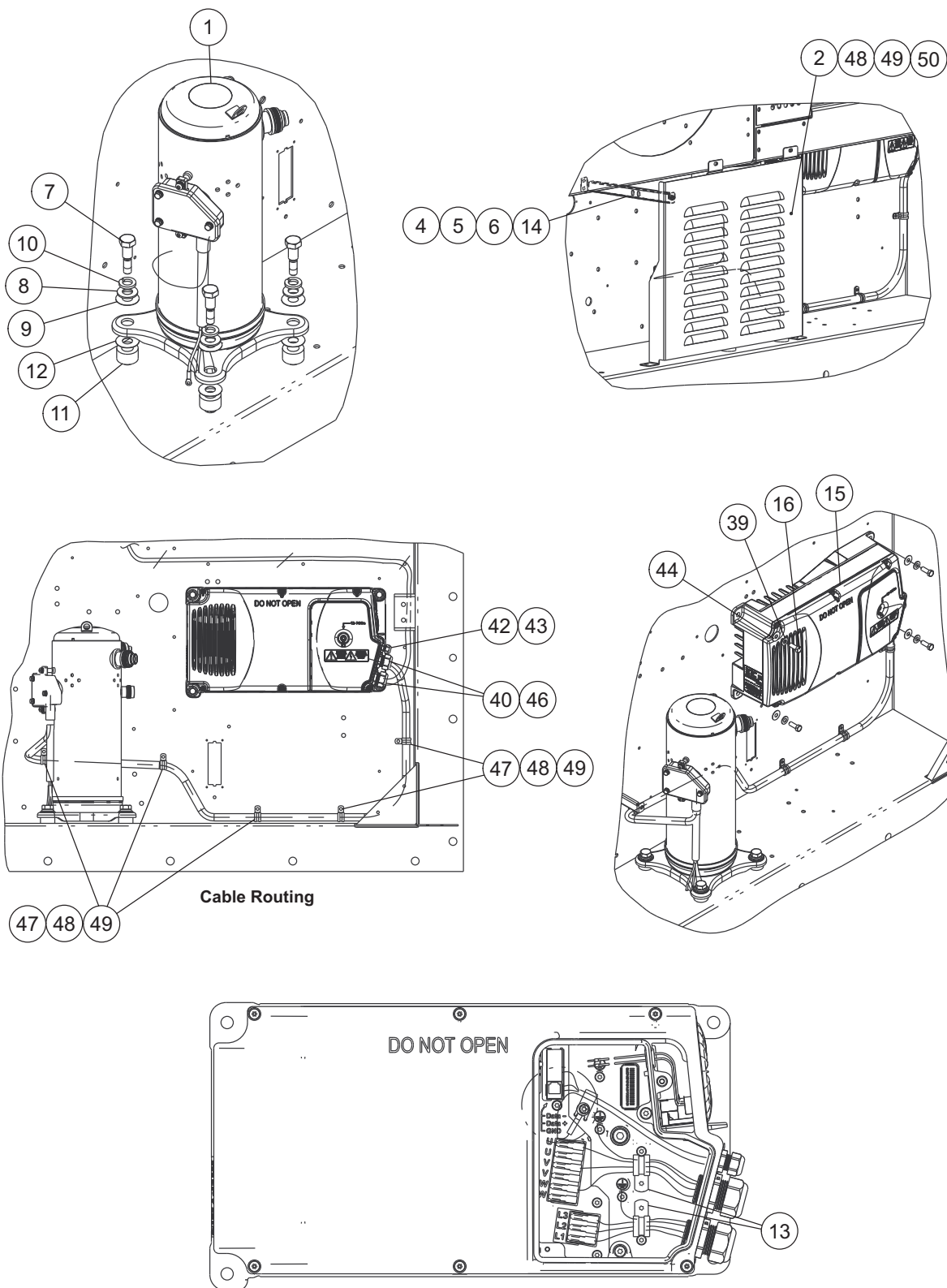
Item	Part Number	Description	Qty
1	74-66697-00	Conversion Kit, EverFRESH Air Compressor (EAC) HP 0.75 to HP1.1	1
2	18-10198-25	EverFRESH Air Compressor (EAC), HP 1.1 - Includes:	1
	NSS	Compressor	1
	18-10198-01	Damper Assembly	4
	18-10198-02	Filter Assembly	1
3	30-00554-00	Water Separator - Includes:	1
	30-00554-20	O-Ring	1
4	30-00558-00	Filter Assembly, 5 Micron - Includes:	1
	30-00558-20pk10	O-Ring	1
	30-00558-21	Filter, 5 Micron	1
5	30-00558-01	Filter Assembly, 0.01 Micron - Includes:	1
	30-00558-20pk10	O-Ring	1
	30-00558-22	Filter, 0.01 Micron	1
6	76-66678-01	Nitrogen (N2) Separator Assembly	1
7	40-00792-00	EverFRESH Air Valve (EA), Solenoid EverFRESH Nitrogen Valve (EN), Solenoid Water Drain Valve (WDV), Solenoid	1 1 1
8	40-00790-00	Orifice N2 Supply	1
9	40-00790-01	Orifice N2 Sampling at Sensor	1
10	79-66787-01	Sensor Assembly	1
11	12-00352-18	Membrane Pressure Transducer (MPT)	1

5 Controlled Atmosphere, Nitrogen Feed



Item	Part Number	Description	Qty
12	58-04026-115	Protector	4
19	58-66684-00	Elbow Assembly	1
21	58-66684-01	Nut, Vacuum Relief Valve	1
22	42-66617-00	Seal, MCI Valve	1
25	58-04127-03	Valve, Pressure Relief	1
27	58-04170-01	Tube Assembly	2
28	69NT--35--8012	Bracket	2
29	34-00928-13	Rivet, Blind	4
30	66-U---1--5321-8	Washer, Plain	8
31	66-U---1--5371-10	Screw, Mach Hxhd	8
32	58-00065-71	Grommet	2

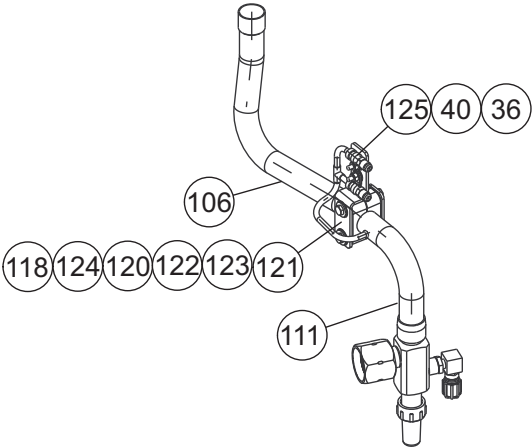
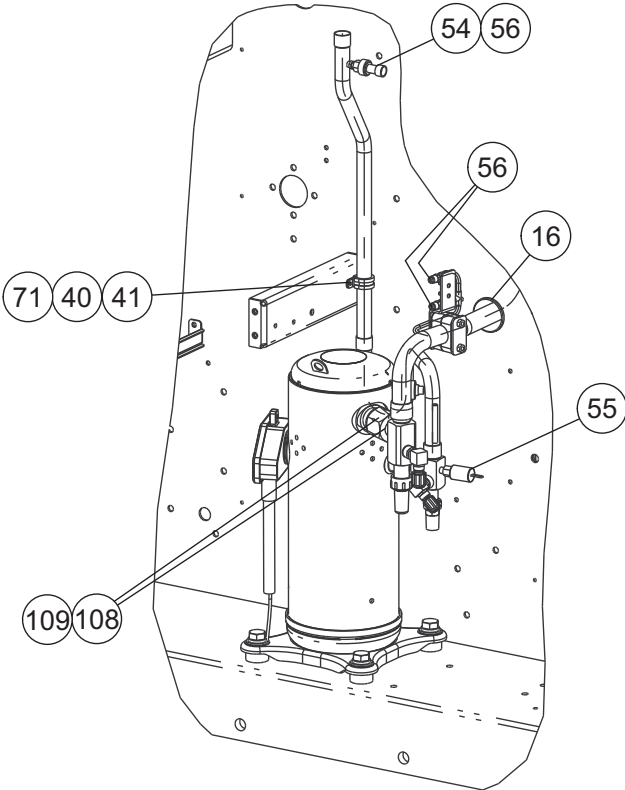
6 Compressor Assembly



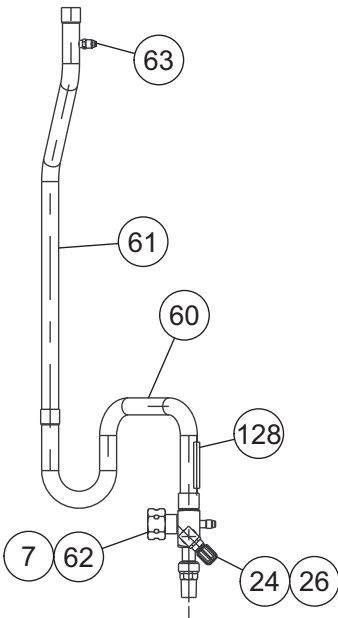
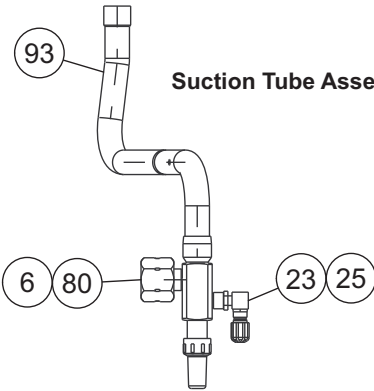
6 Compressor Assembly

Item	Part Number	Description	Qty
1	18-10201-20	Compressor, Variable Speed Scroll	1
	22-04546-10	Power Cable, Compressor (included with 18-10201-20)	1
2	68-19528-00	Grille	1
4	68-19530-00	Brace, Support	1
5	34-06053-05	Washer	2
6	66-U---1--5371-6	Screw, Mach Hxhd	2
7	34-06277-07	Bolt, Shoulder	4
8	66-U---1--5321-9	Washer, Plain	4
9	34-06053-20	Washer	4
10	34-00663-17	Washer, Lock	4
11	34-06407-00	Bushing	4
12	34-06053-29	Washer	4
13	44-00370-03	Clamp, Cushioned	2
14	66-U---1--5321-8	Washer, Plain	2
15	10-00560-01	Variable Frequency Drive	1
	76-00932-00	Fan for Variable Frequency Drive	1
16	66-U---1--5361-8	Screw, Cap Hxhd	4
39	66-U---1--5321-5	Washer, Plain	4
40	22-66793-03	Gland	2
42	22-66793-02	Gland	1
43	22-66794-02	Nut	1
44	34-06053-02	Washer	4
46	22-66794-03	Nut	2
47	44-00370-04	Clamp, Cushioned	5
48	34-06053-00	Washer	10
49	66-U---1--5361-25	Screw, Cap Hxhd	10
50	66-U---1--5321-7	Washer, Plain	10

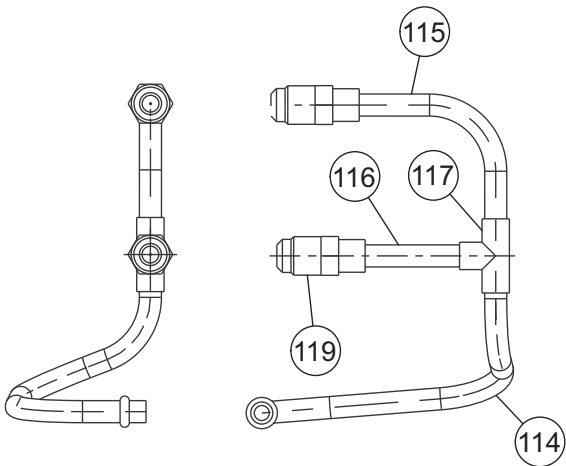
7 Compressor Tubing, Standard Units



Suction Tube Assembly



Discharge Tube Assembly

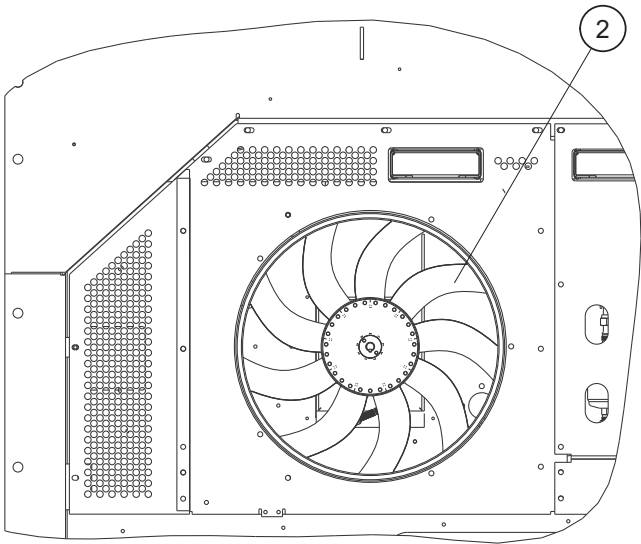
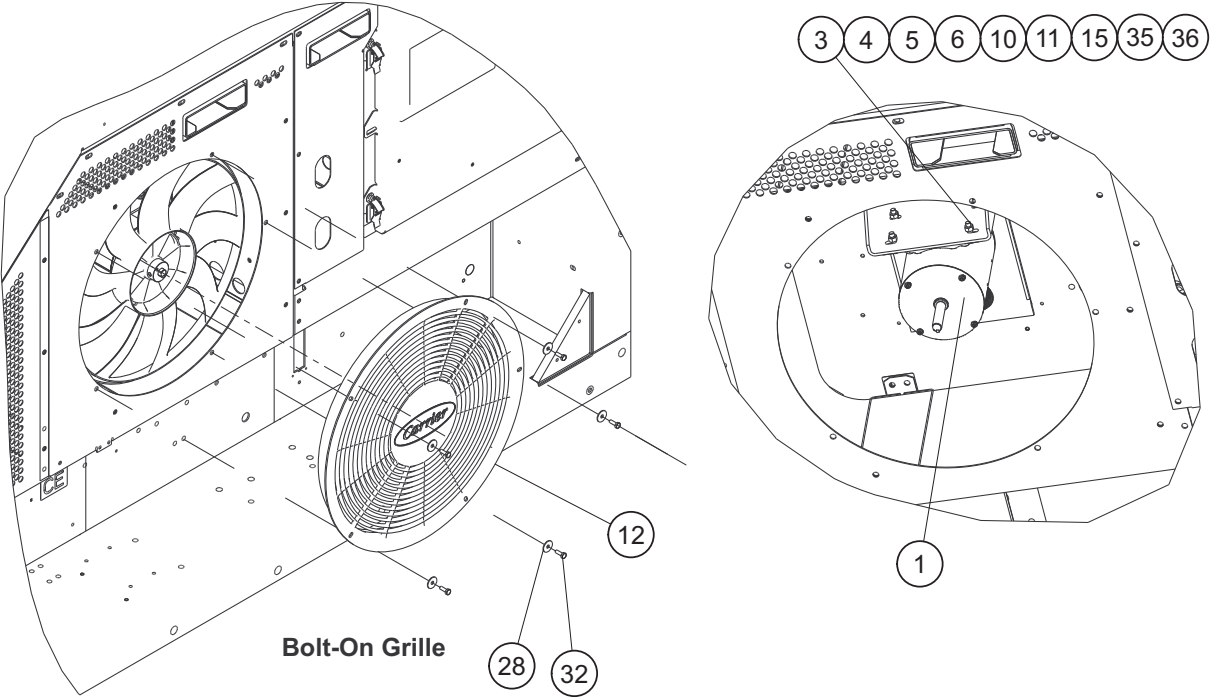


EPT / SPT Tube Brazed Assembly

7 Compressor Tubing, Standard Units

Item	Part Number	Description	Qty
6	42-00384-04	Compressor Seal, Suction, Rotalock	1
7	42-00384-02	Compressor Seal, Discharge, Rotalock	1
16	58-00065-95	Grommet	1
23	40-00542-00	Elbow, Low Pressure	1
24	40-00542-01	Elbow, High Pressure	1
25	40-00520-02	Cap	1
26	40-00520-03	Cap	1
36	34-00795-09	Nut, Self Lock	2
40	34-06053-05	Washer	3
41	66-U---1--3632-27	Clamp, Tube	1
NS	46-00025-09	Oil, Compressor	
54	12-00352-11	Discharge Pressure Transducer (DPT)	1
55	12-00309-08	High Pressure Switch (HPS)	1
56	--EC--39DM-070	Core, Check Valve	3
60	56-09869-00	Discharge Tube	1
61	56-09870-00	Discharge Tube	1
62	40-00583-18	Discharge Service Valve, 7/8 ID Rotalock	1
63	40-01124-00	Valve Body for DPT	1
71	66-U---1--5371-10	Screw, Mach Hxhd	1
80	40-00665-09	Suction Service Valve, 1 1/8 ID Rotalock	1
93	56-09865-00	Suction Tube	1
106	42-00425-169	Insulation, Tube	1
108	42-00425-112	Insulation, Tube	1
109	66-U---1--3882-8	Wire Tie	2
111	42-00425-176	Insulation, Tube	1
114	56-09866-00	Tube	1
115	56-08784-00	Tube	1
116	99TS0440CK001500	Tube, Straight	1
117	40-00168-02	Tee	1
118	68-18809-00	Bracket	1
119	40-00662-00	Valve Body for SPT	2
120	44-00285-54	Clamp, Tube	1
121	34-00655-18	Screw, Cap Hxhd	2
122	34-06053-00	Washer	2
123	66-U---1--5321-7	Washer, Plain	2
124	68-15998-00	Nut Plate	1
125	34-00373-51	Clamp, Tube	2
128	56-08645-00	Tube	1

8 Condenser Fan and Motor

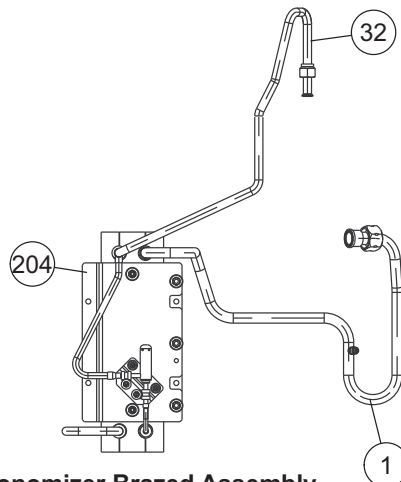
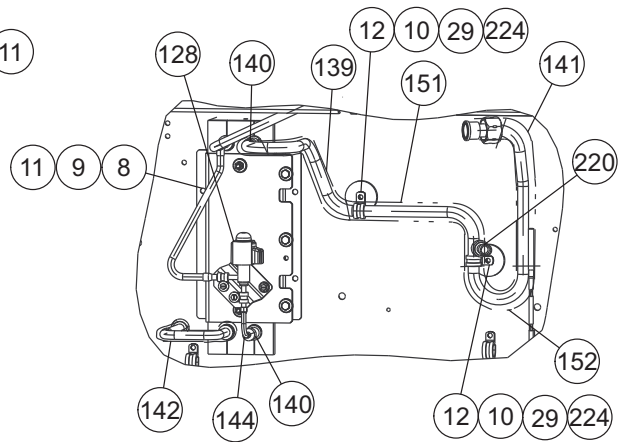
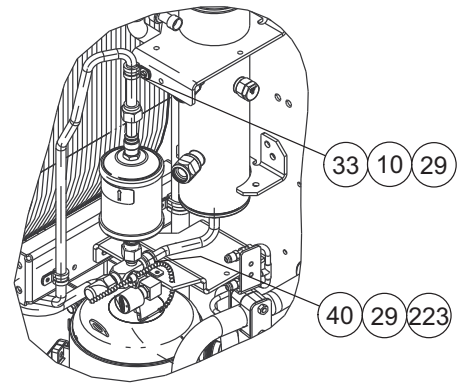
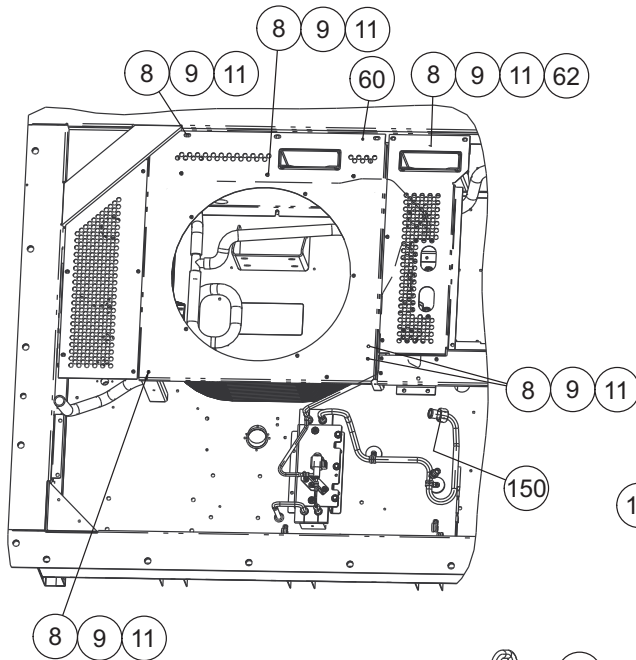
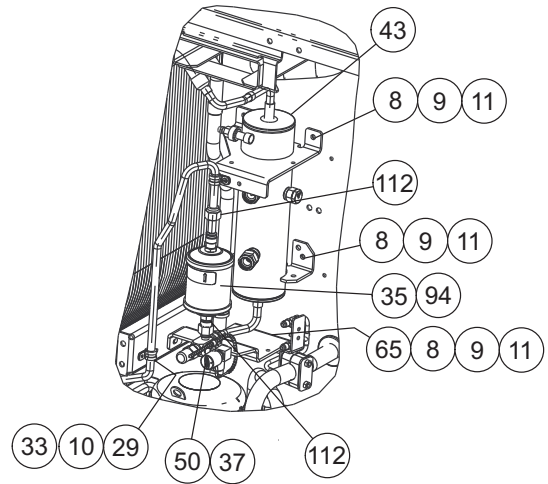
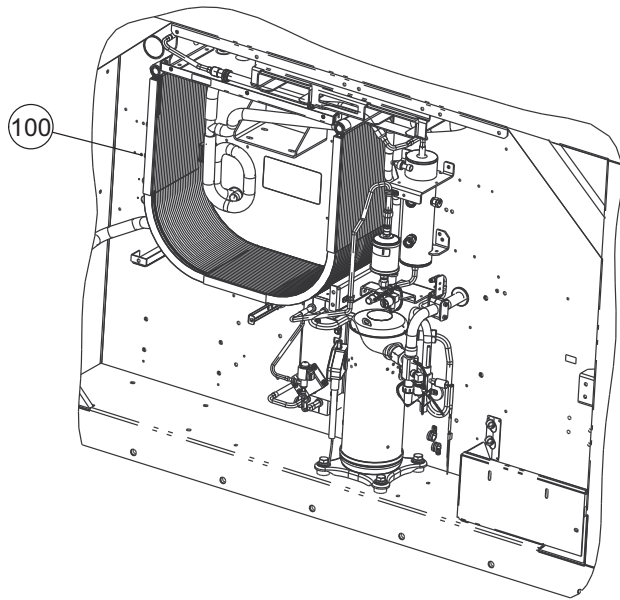


Shown with Fan Grille Removed

8 Condenser Fan and Motor

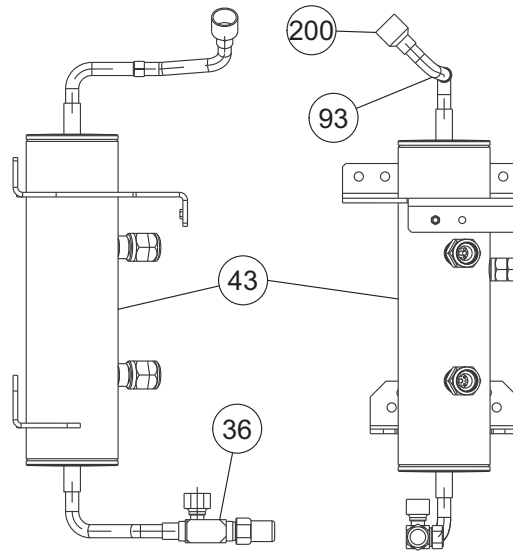
Item	Part Number	Description	Qty
1	54-00739-20	Condenser Fan Motor, dual speed	1
2	38-00620-01	Condenser Fan Assembly	1
3	69NT--35--3452	Shim	1
4	34-01181-01	Washer, Flat	8
5	34-00667-12	Nut, Self Lock	4
6	66-U---1--5361	Screw, Cap Hex Head 5/16-18 X 1.25	4
10	69NT--35--3452-1	Shim	1
11	58-04026-113	Protector	2
12	58-04980-00SV	Condenser Fan Grille	1
15	34-06053-02	Washer	4
28	69NT--35--2692-1	Washer, Fender	5
32	66-U---1--5361-25	Screw, Cap Hex Head 1/4-20 X 0.75	5
35	69NT--35--3452-2	Shim	1
36	69NT--35--3452-3	Shim	1

9 Condenser Assembly



Economizer Brazed Assembly

9 Condenser Assembly



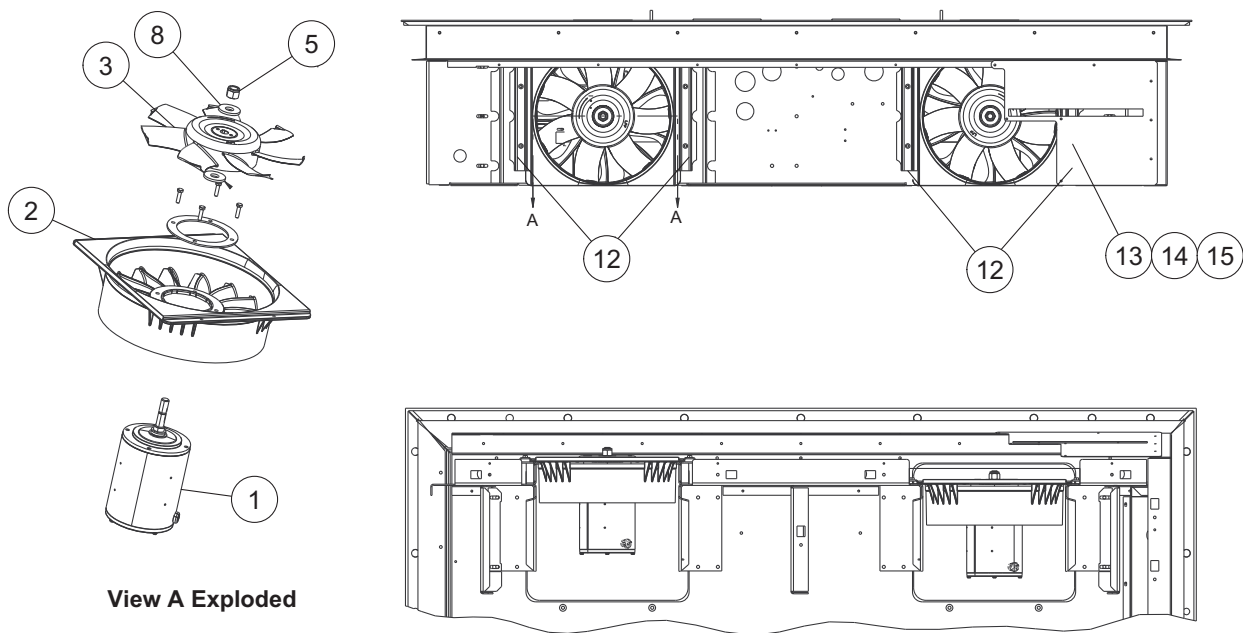
**Receiver Brazed Assembly
with Fusible Plug**

Item	Part Number	Description	Qty
1	81-04410-00	Economizer Tube Assembly	1
8	66-U---1--5361-25	Screw, Cap Hxhd	A/R
9	66-U---1--5321-7	Washer, Plain	A/R
10	34-06053-05	Washer	A/R
11	34-06053-00	Washer	A/R
12	44-00370-04	Clamp, Cushioned	2
29	66-U---1--5371-6	Screw, Mach Hxhd	A/R
32	56-09872-00	Tube	1
33	44-00370-03	Clamp, Cushioned	1
35	14-00464-20	Filter Drier	1
36	14-00222-05	King Valve / Liquid Line Valve	1
37	40-00542-01	Elbow, High Pressure	1
40	34-66698-00	Clamp, Tube	1
43	65-00232-00	Receiver Assembly, with Fusible Plug,	1
	14-00467-22	Fusible Plug	1
	14-00468-22	Sightglass	1
	14-00469-22	Indicator, Sightglass	1
50	40-00520-03	Cap	1
60	79-04318-00	Cover Assembly, Condenser	1
62	68-18808-00	Cover, Receiver	1
65	68-19189-00	Bracket	1
93	56-09824-00	Tube, Liquid	1
94	14-00464-40	O-Ring for Filter Drier	2

9 Condenser Assembly

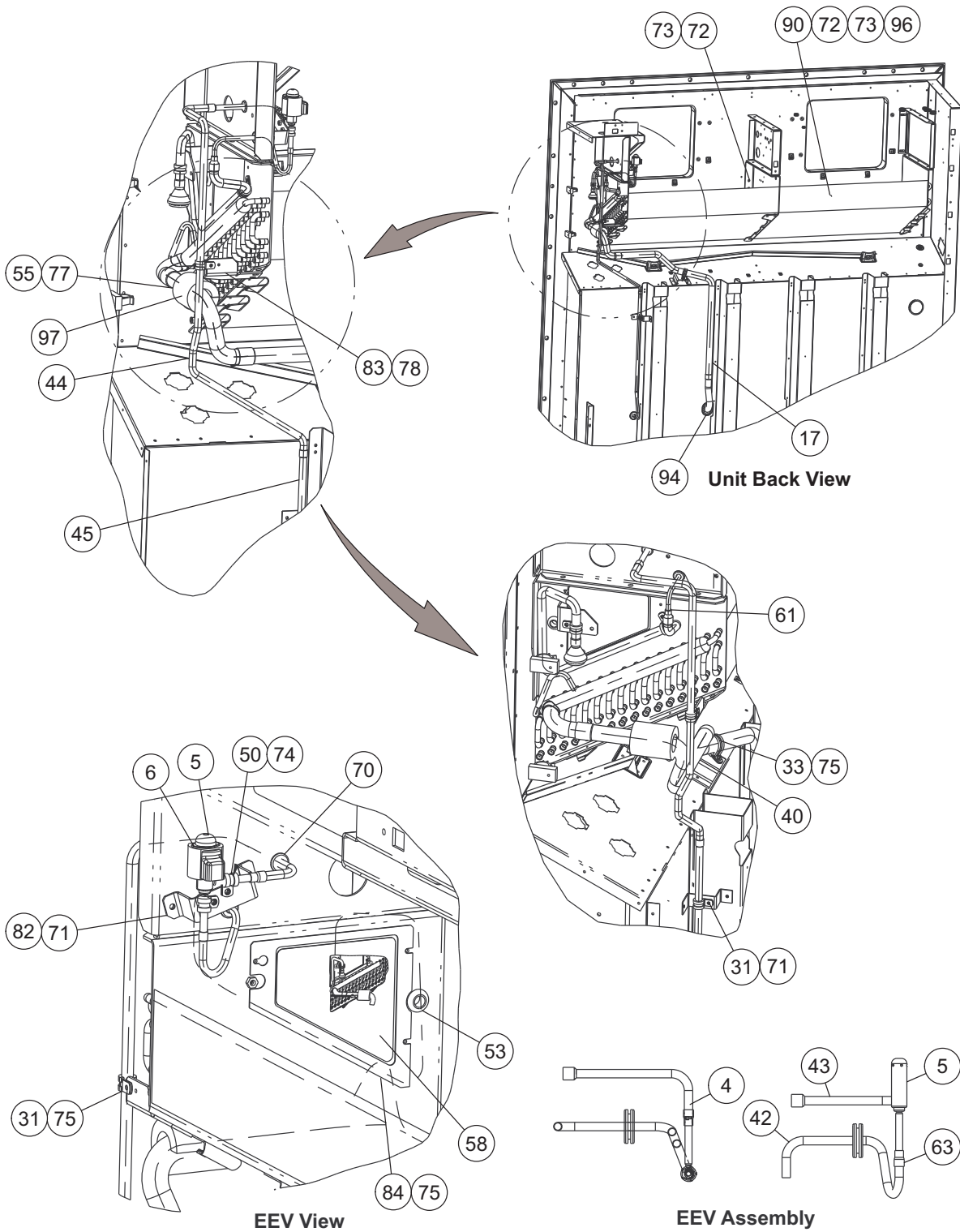
100	81-04237-20	Condenser Coil	1
112	42-00032-13	Insulation	2
128	14-00393-10	Economizer Expansion Valve (ECV) Coil, 12 VDC	1
139	42-00667-33	Insulation, Tube	1
140	42-00667-37	Insulation, Tube	2
141	42-00667-36	Insulation, Tube	1
142	42-00667-28	Insulation, Tube	1
144	42-00667-39	Insulation, Tube	1
150	42-00384-02	Seal, 1 1/4-12 Rotalock	1
151	42-00667-34	Insulation, Tube	1
152	42-00667-35	Insulation, Tube	1
200	40-66628-15	Coupling	1
204	79-04451-00	Economizer Brazed Plate Assembly	1
	14-00393-03	Economizer Expansion Valve (ECV) Body	
220	12-00352-11	Economizer Pressure Transducer (ECP)	1
223	42-66662-00	Gasket	1
224	34-06295-04	Washer, Fender	2
233	42-00805-06	O-Ring, for PRV	1
234	46-00058-00	Lubricant, for PRV	1

10 Evaporator Fan and Motor



Item	Part Number	Description	Qty
1	54-00648-20	Evaporator Fan Motor	2
2	76-66683-00	Service Kit for Polymer Evaporator Stator	2
3	38-00626-00	Evaporator Fan	2
5	34-00795-17	Nut, Self Lock	2
8	34-00616-06	Washer, Special 5/8, 18-8	4
12	69NT--43---295	Bracket Assembly	4
13	34-00655-08	Screw, Cap Hex Head 1/4-20 X 1.00	4
14	34-00663-11	Washer, Lock 1/4 Spring	4
15	69NT--35--2692-1	Washer, Fender 1/4	4

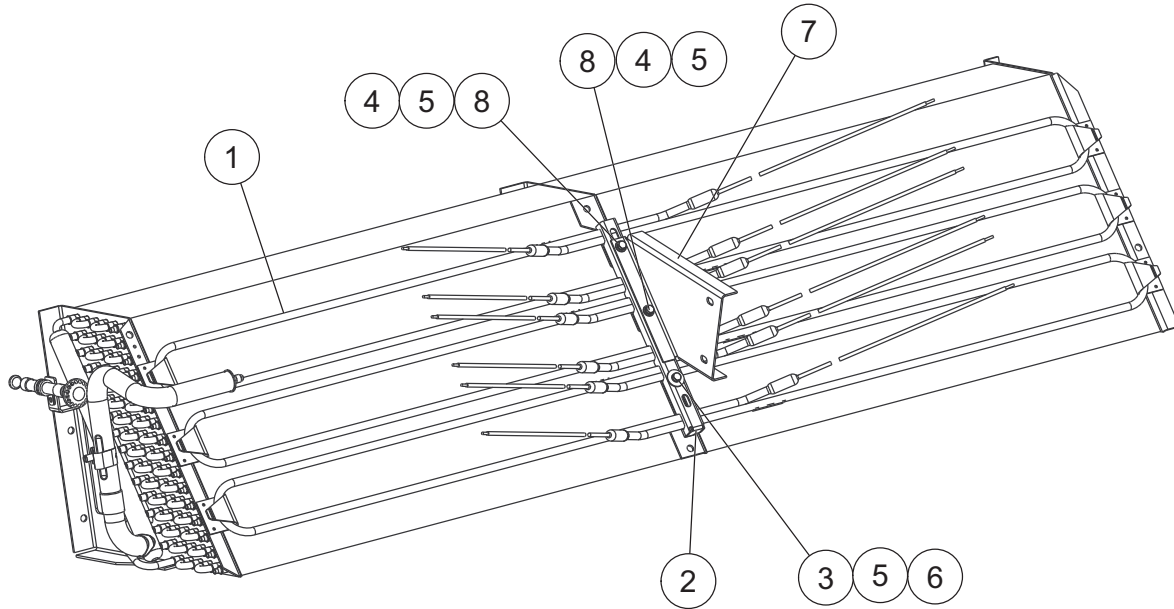
11 Evaporator Tubing and Coil



11 Evaporator Tubing and Coil

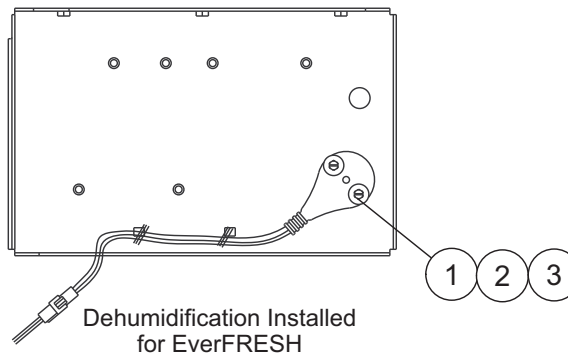
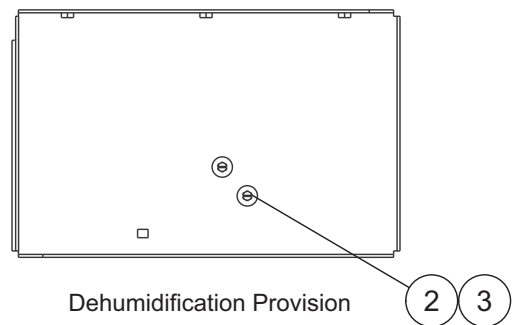
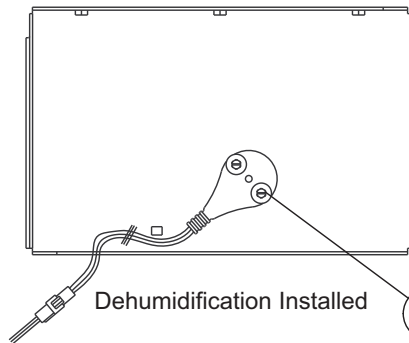
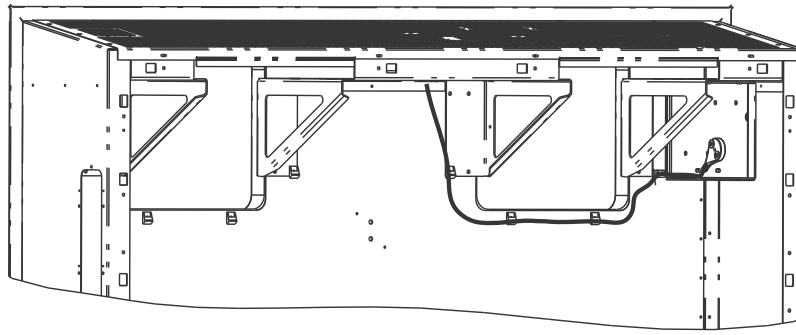
Item	Part Number	Description	Qty
4	14-00176-01	Strainer 100 Mesh	1
5	14-00393-02SV	Electronic Expansion Valve (EEV), Body	1
6	14-00393-10	Electronic Expansion Valve (EEV), Coil	1
31	44-00370-03	Clamp, Cushioned	2
33	44-00370-08	Clamp, Cushioned	1
40	56-09868-00	Tube, Suction	1
42	56-09141-00	Tube	1
43	56-09087-00	Tube, Liquid	1
44	56-09726-00	Tube, Liquid	1
45	56-09725-00	Tube, Liquid	1
50	34-00373-52	Clamp, Tube	2
53	66-U---1--1571-3	Grommet	1
55	42-00425-109	Insulation, Tube Pre-Taped	1
58	62-11750-00	Label Sensor Replacement	1
61	40-66629-00	Bushing	1
63	40-66628-03	Coupling	2
70	58-00065-14	Grommet	2
71	66-U---1--5371-6	Screw, Machine Hex Head	3
72	66-U---1--5321-3	Washer, Plain 1/4 N Type A	15
73	66-U---1--5361-25	Screw, Cap Hex Head 1	13
74	66-U---1--5371-7	Screw, Machine Hex Head	2
75	66-U---1--5381-1	Screw, Hex Head	5
78	66-U---1--5381-4	Screw, Hex Head Sltd	2
82	68-16892-00	Bracket	1
83	68-17578-00	Bracket	1
84	68-17089-00	Plate, Cover	1
90	81-04350-20	Evaporator Coil	1
94	58-66796-00	Grommet	1
96	34-00663-11	Washer, Lock 1/4 Spring	11
97	12-00500-01SV	Evaporator Temperature Sensor (ETS1 / ETS2)	1

12 Heaters



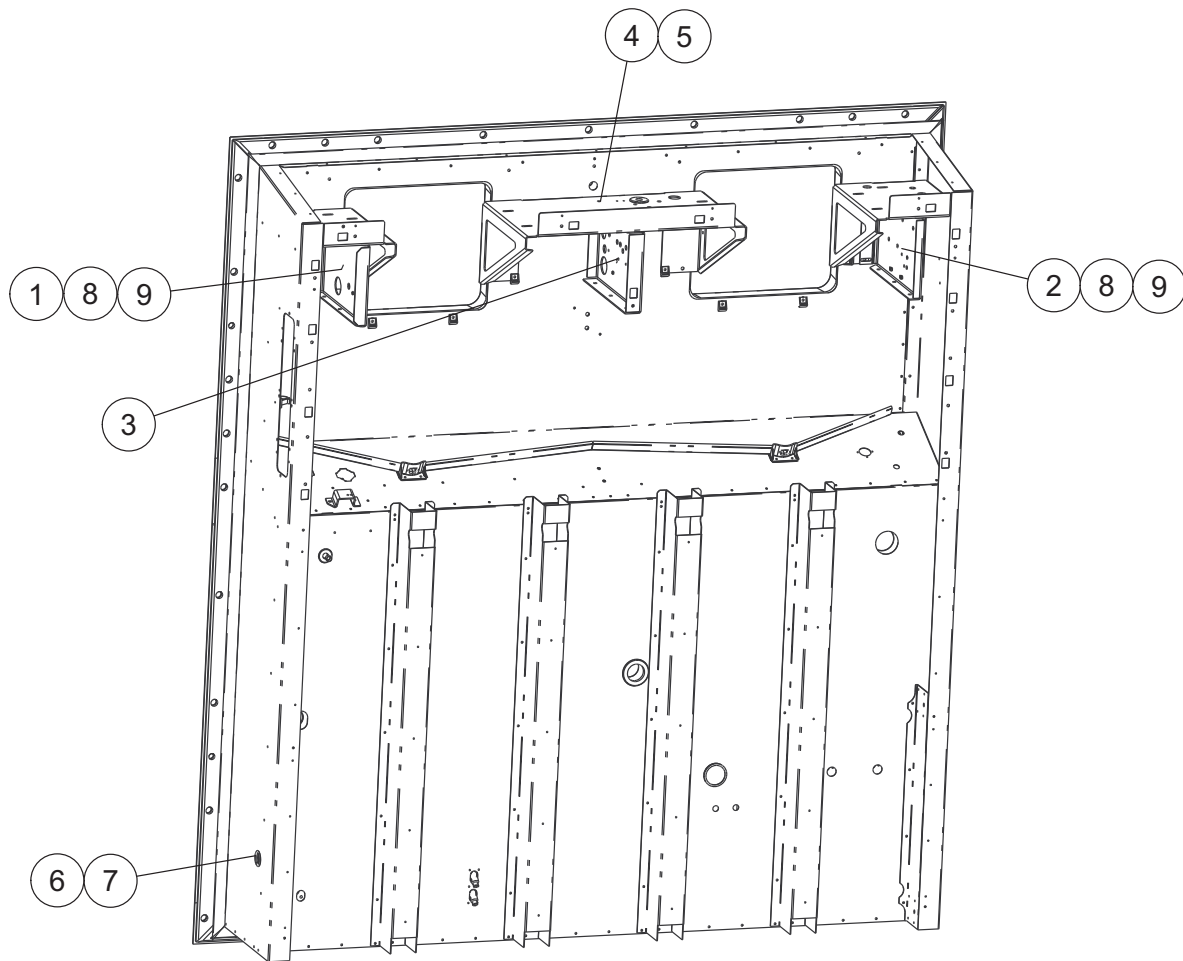
Item	Part Number	Description	Qty
1	24-00006-20	Heater, 750W	6
2	86-04956-00	Retainer Assembly	1
3	69NT--35--2692-1	Washer, Fender	1
4	66-U---1-5361-11	Screw, Cap Hex Head	A/R
5	34-00663-11	Washer, Lock	A/R
6	34-00655-10	Screw, Cap Hex Head	1
7	68-18032-00	Bracket	1
8	66-U---1--5321-3	Washer, Plain	A/R

13 Humidity Sensor



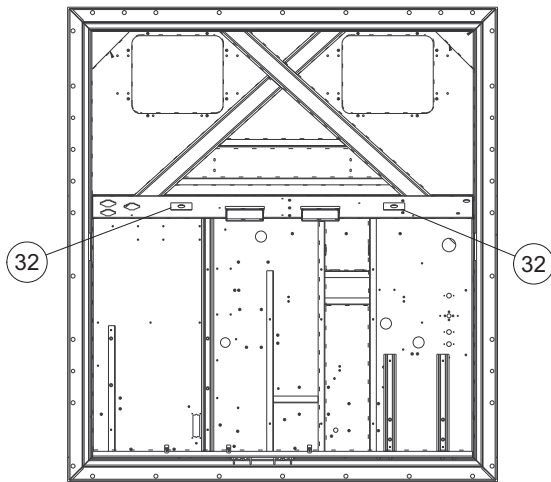
Item	Part Number	Description	Qty
1	76-00675-04	Humidity Sensor (HS) Assembly Kit; Includes 76-66694-00 below	1
	76-66694-00	Humidity Sensor (HS) Kit, Sensor and Bracket only	1
2	66-U---1--5371-10	Screw, Machine Hex Head #10-24 X 1.00	2
3	66-U---1--5321-8	Washer, Plain #10 Type A	2

14 Frame Kit

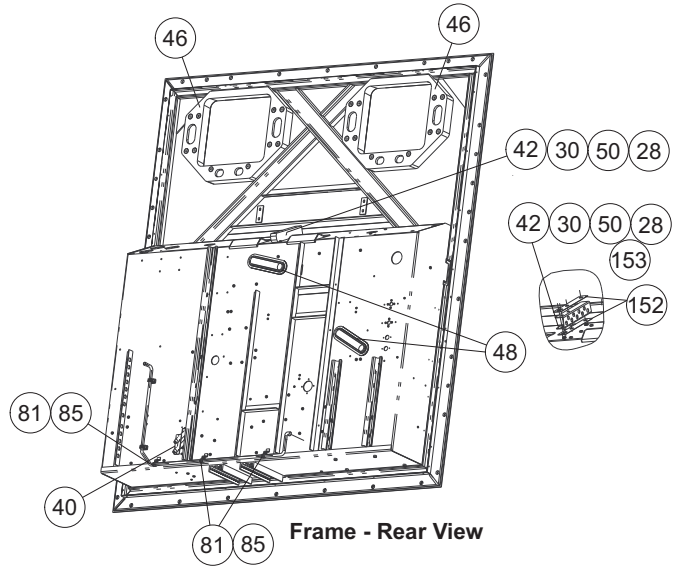


Item	Part Number	Description	Qty
1	68-17845-03	Panel	1
2	79-66747-00	Panel Assembly	1
3	68-17145-05	Panel Assembly (PID NT4002)	1
	68-17145-08	Panel Assembly, units R1234yf-ready (PIDs NT4006, NT4012)	1
	68-17145-13	Panel Assembly, units R1234yf-ready, for EverFRESH (PID NT4009)	1
4	66-U---1--5321-3	Washer, Plain	9
5	66-U---1--5361-25	Screw, Cap HXHD	9
7	66-U---1--5562-2	Plug, Button	1
8	69NT--35--2692-1	Washer, Fender	4
9	34-00655-10	Screw, Cap HXHD	4

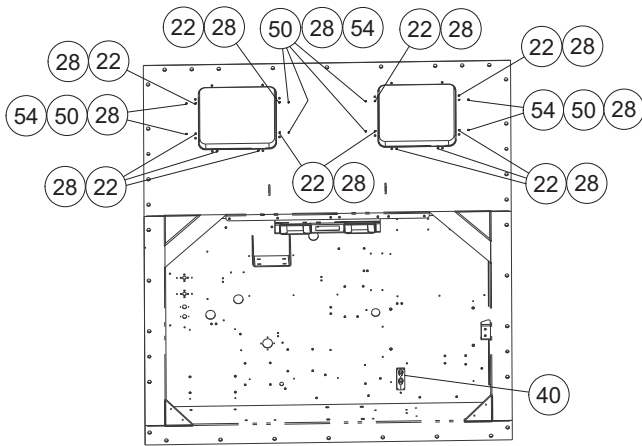
15 Frame Assembly



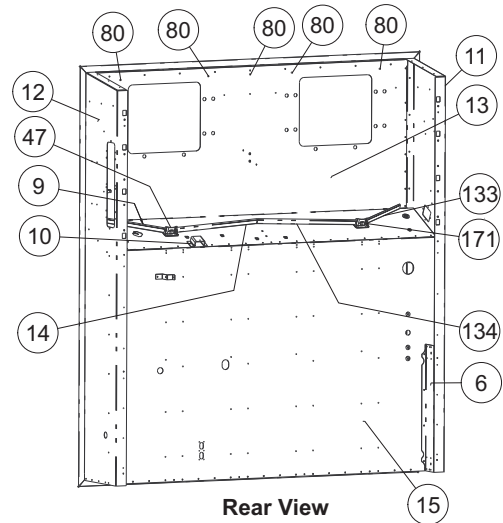
Frame - Rear View



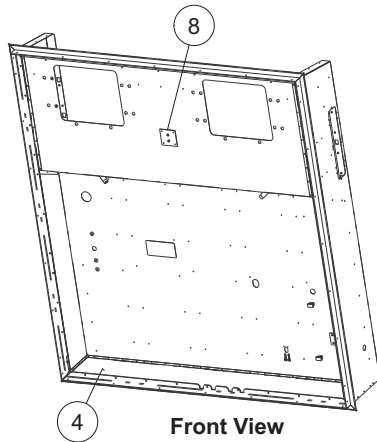
Frame - Rear View



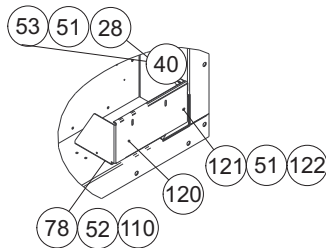
Frame - Front View



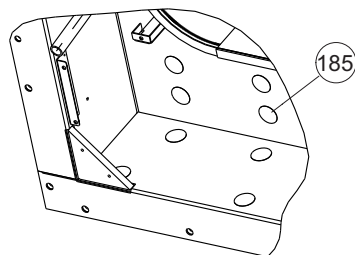
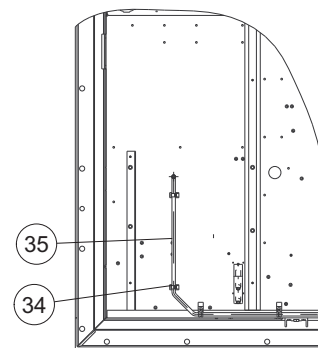
Rear View



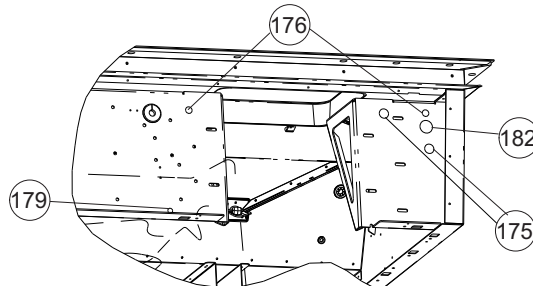
Front View



Standard Cable Box
Installed

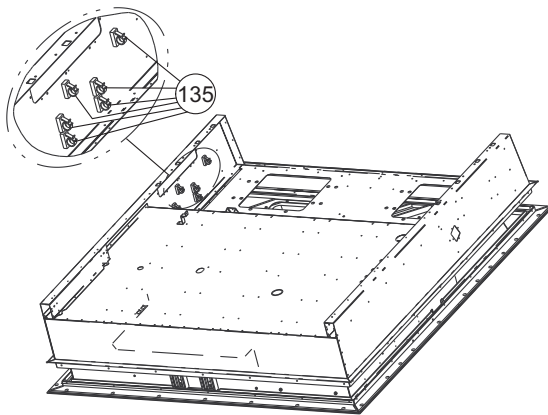


EverFRESH Provision

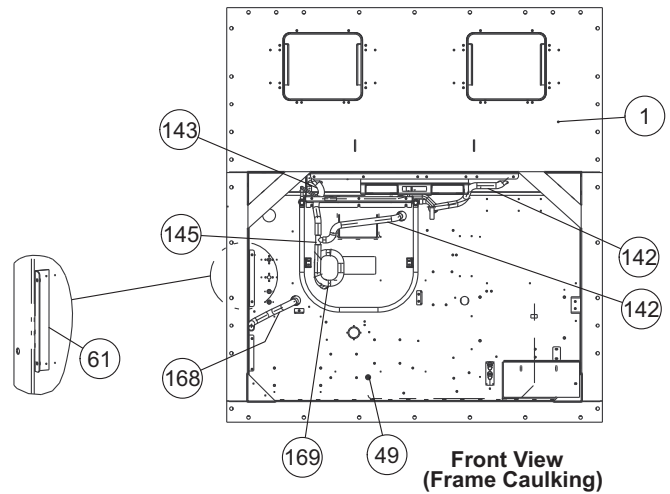


EverFRESH Provision

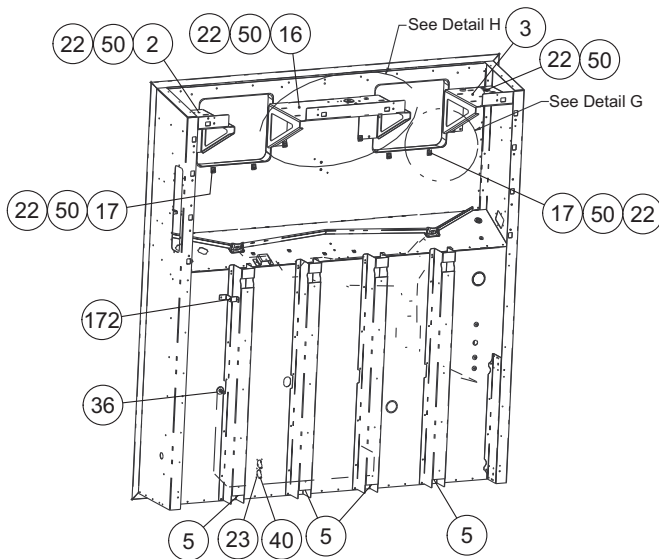
15 Frame Assembly



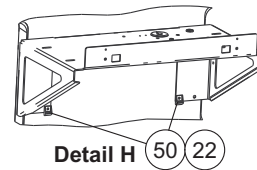
**Rear View
(Skin to Frame Assembly)**



**Front View
(Frame Caulking)**



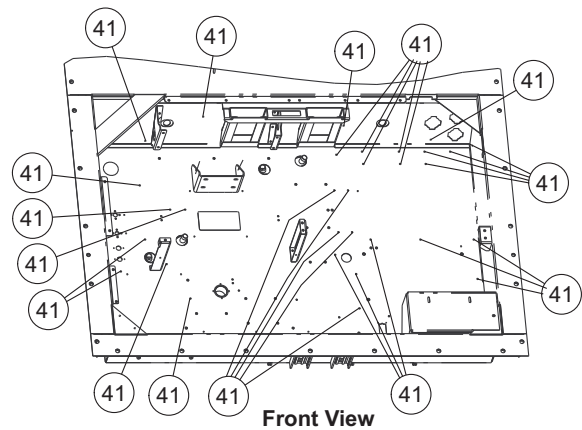
**Rear View
(Standoff & Fan Deck Assembly)**



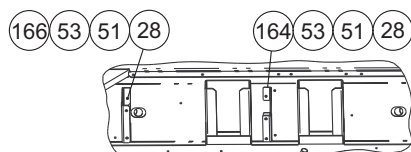
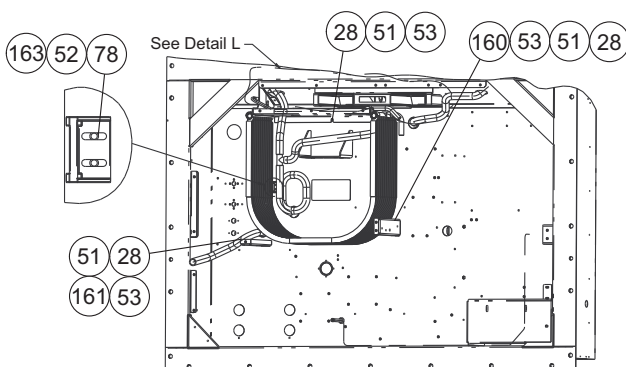
Detail H 50 22



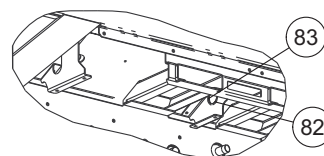
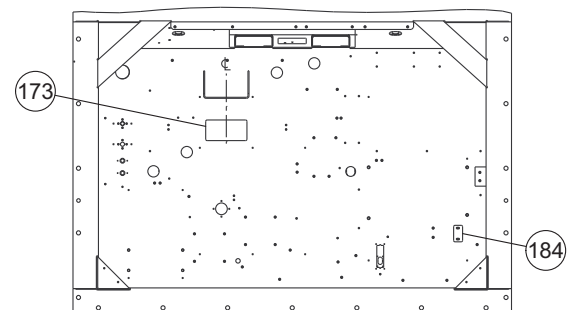
Detail G 50 22



Front View



Detail L



Detail L

15 Frame Assembly

Item	Part Number	Description	Qty
1	86-05571-00	Frame Assembly, Vacuum Relief Valve (PIDs NT4002, NT4006)	1
	86-05571-04	Frame Assembly, Vacuum Relief Valve & EverFRESH (PID NT4009)	1
	86-05571-05	Frame Assembly, Single Port Nitrogen Feed (PID NT4012)	1
2	68-16696-00	Fan Deck Assembly, Left	1
3	68-86542-04	Fan Deck Assembly, Right (PIDs NT4002, NT4006, NT4012)	1
	68-86542-07	Fan Deck Assembly, Right, EverFRESH Provision (PID NT4009)	1
4	68-86552-02	Panel, Bottom	1
5	68-17947-04	Standoff, Air Duct	4
6	68-18042-00	Zee	2
8	68-17154-00	Nut Plate Assembly	1
9	68-17188-00	Gutter	1
10	68-19369-00	Bracket	1
11	68-86554-00	Channel, Evaporator Skin (PIDs NT4002, NT4006, NT4012)	1
	68-86554-03	Channel, Evaporator Skin, EverFRESH Provision (PID NT4009)	1
12	68-86553-02	Channel, Evaporator Skin	1
13	68-18804-00	Panel, Evaporator Skin, Wood Spacer (PIDs NT4002, NT4006, NT4009)	1
	68-18804-02	Panel, Evaporator Skin, SST Spacer (PID NT4012)	1
14	68-17345-00	Gutter	1
15	68-19506-00	Panel, Air Duct, Vacuum Relief Valve (PIDs NT4002, NT4006, NT4009)	1
	68-19506-02	Panel, Air Duct, Nitrogen Feed Lower (PID NT4012)	1
16	68-17419-05	Fan Deck Assembly, (PIDs NT4002, NT4006, NT4012)	1
	68-17419-09	Fan Deck Assembly, EverFRESH Provision (PID NT4009)	1
17	69NT--35--2692-1	Washer, Fender	4
22	34-00655-10	Screw, Cap Hxhd	A/R
28	34-06053-00	Washer	A/R
30	34-06269-12	Screw, Lag (PIDs NT4002, NT4006, NT4009)	2
	--AA--06JA-170	Screw, Cap HxHd (PID NT4012)	2
32	42-00570-00	Gasket	2
34	44-66608-01	Clip, Retaining	2
35	56-09065-00	Tube, Liquid	1
36	58-00065-56	Grommet	1
40	58-04276-00	Holder, Supply Probe	1
41	58-04316-00	Base, Mounting	A/R
42	58-04508-10	Spacer, Wood (PIDs NT4002, NT4006, NT4009)	1
	68-86425-00	Spacer, SST (PID NT4012)	1
46	58-04935-00	Spacer	2
47	58-04968-00	Fitting, Drain Tube	1
48	58-04990-00	Fitting, Drain	2
49	66-U---1--1571-3	Grommet	1
50	66-U---1--5321-3	Washer, Plain	A/R

15 Frame Assembly

51	66-U---1--5321-7	Washer, Plain	A/R
52	66-U---1--5321-8	Washer, Plain	A/R
53	66-U---1--5361-25	Screw, Cap Hxhd	A/R
54	66-U---1--5361-47	Bolt, Mach Hxhd	A/R
61	68-17118-00	Bracket	1
78	66-U---1--5371-6	Screw, Mach Hxhd	7
80	58-04315-00	Base, Mounting	5
81	44-00370-03	Clamp, Cushioned	3
82	66CH---1--1172-2	Trim, Flexible	1
83	66CH---1--1172-43	Trim, Flexible	1
85	66-U---1--5371-7	Screw, Mach Hxhd	3
110	34-06053-05	Washer	2
120	68-17939-00	Guard	1
121	34-00792-07	Screw, Cap Hxhd	1
122	34-06053-15	Washer	1
133	68-17958-00	Gutter	1
134	68-17959-00	Gutter	1
135	44-00361-01	Clip, Retaining	6
142	58-04539-16	Tube, Flexible	2
143	58-04539-25	Tube, Flexible	1
145	58-04202-02	Tee	1
152	58-66782-00	Protector, Spacer (PID NT4012)	2
153	34-00663-11	Washer, Lock (PID NT4012)	2
160	86-05387-01	Bracket, Weld	1
161	68-17196-00	Bracket	1
163	58-05064-00	Guide	2
164	68-18285-00	Bracket	1
166	68-18286-02	Bracket	1
168	58-04539-26	Tube, Flexible	1
169	58-04539-24	Tube, Flexible	1
171	58-04968-03	Fitting, Drain Tube	1
172	68-18031-00	Bracket	1
173	58-04026-38	Protector	1
175	58-00616-13	Plug, Hole, for EverFRESH Provision (PID NT4009)	2
176	58-00616-05	Plug, Hole, for EverFRESH Provision (PID NT4009)	2
179	58-00616-19	Plug, Hole, for EverFRESH Provision (PID NT4009)	1
182	58-00616-20	Plug, Hole, for EverFRESH Provision (PID NT4009)	1
184	58-04026-07	Protector	1
185	58-04026-153	Protector, for EverFRESH Provision (PID NT4009)	8

16 Controller Module, Electronics, Tools

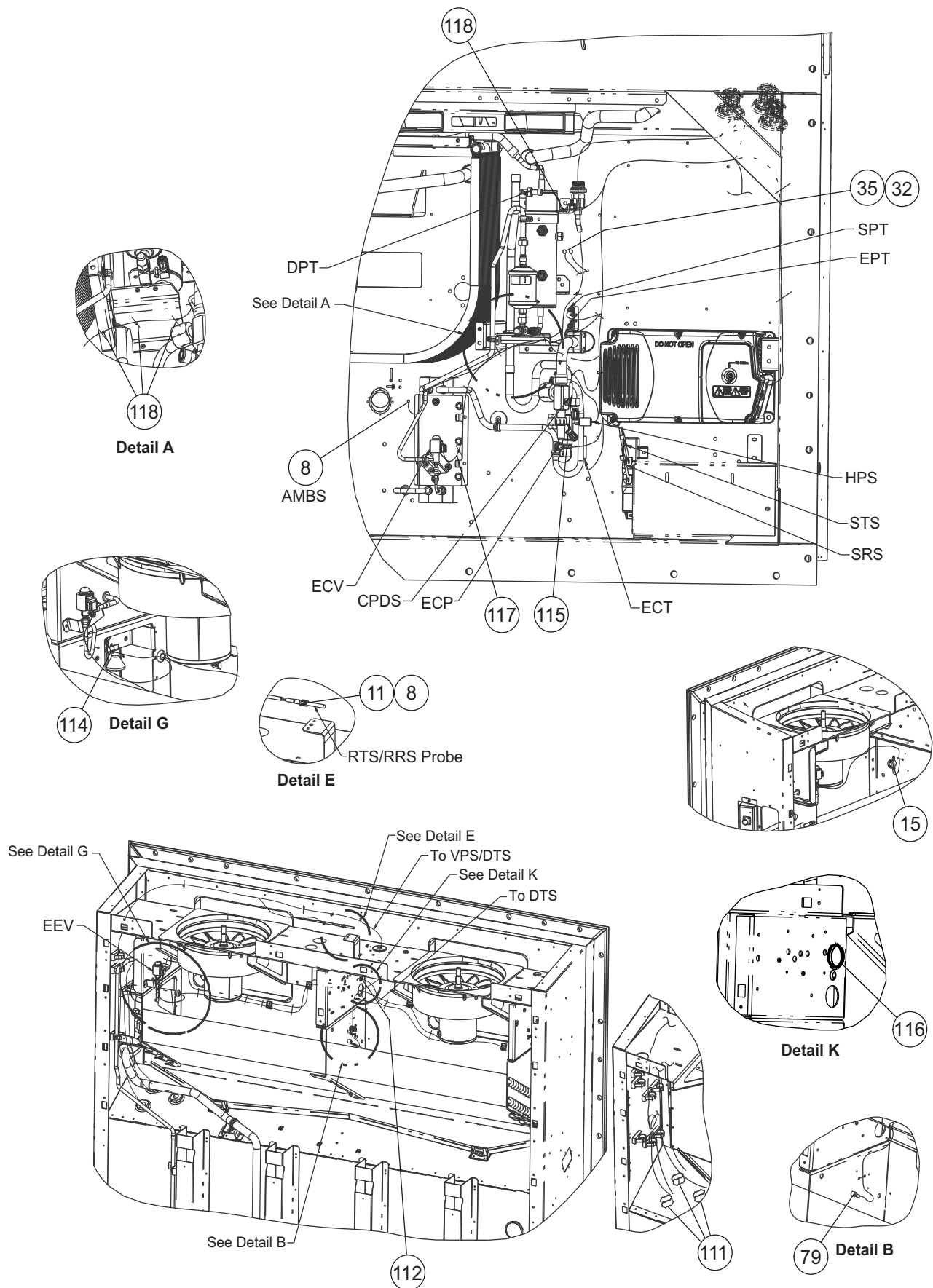


Item	Part Number	Description	Qty
Controller			
1	12-55016	Controller Module, ML5	1
2	22-02336-08	Fuse, 7.5 Amp (F1, F2, F3, F4)	4
NS	09-00375-00	Battery, Real Time Clock, (Within the Controller)	1
3	76-50256-00	Controller System Test Harness	1
	22-50485-00	Test Harness CA	1
	22-50486-00	Test Harness CC	1
	22-50487-00	Test Harness ME	1
Software Uploading and Downloading			
4	12-50173-00	Micro Flash Drive, USB-A to Micro USB-B Flash Drive	1
5	12-00822-00	USB Flash Drive, USB-A Flash Drive (requires adapter cable)	1
6	22-50482-00	Adapter Cable 6", USB-A to Micro USB-B (requires US-A flash drive)	1
NS	22-50481-00	USB Cable 15', PC to ML5, A Female to 5 Pin B Micro Male	1
NS	22-50480-00	USB Cable 6', PC to ML5, A Male to 5 Pin B Micro Male	1

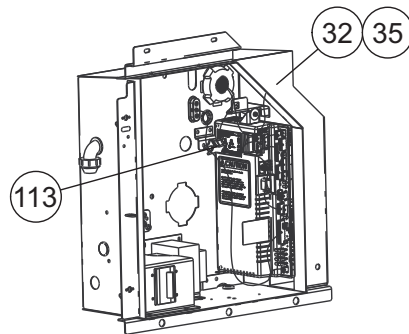
16 Controller Module, Electronics, Tools

Display, Keypad, ST Switch			
7	12-00433-09RP	Display Module	1
8	79-66669-05	Key Pad Assembly	1
NS	10-01129-07SV	Toggle Switch Start / Stop (ST)	1
Other Tools			
NS	07-00176-11	Vacuum Pump, Dual Voltage/Dual Frequency	1
NS	07-00477-00	Inspection Mirror	1
NS	07-00228-00	Multimeter, Digital	1
NS	07-00229-00	Amprobe Clamp (Used with 07-00228-00)	1
NS	07-00238-00	Wrench, Service Valve	1
NS	07-00243-10	Multimeter, Digital (Fluke)	1
NS	07-00569-00	Kit, Static Dissipative (Used for Working on Electronic Components)	1
NS	07-00304-00	Ground Strap, Wrist (Used for Working on Electronic Components)	1
NS	07-00294-00	Gauge Set, Manifold - Fahrenheit / PSI	1
NS	07-00294-05	Gauge Set, Manifold - Centigrade / KPa	1
NS	07-00295-00	Detector, Leak	1
Note: For a complete list of tools in Carrier's performance parts catalog, refer to document 62-03213 located on the Carrier Container website in the literature section.			

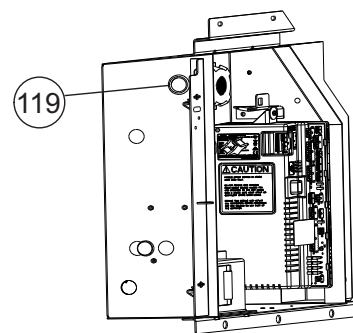
17 Controller Kit



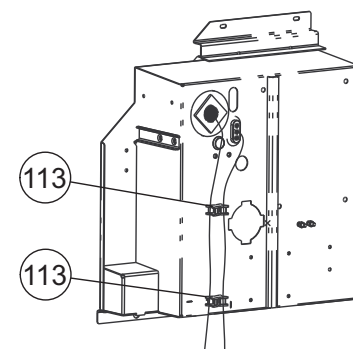
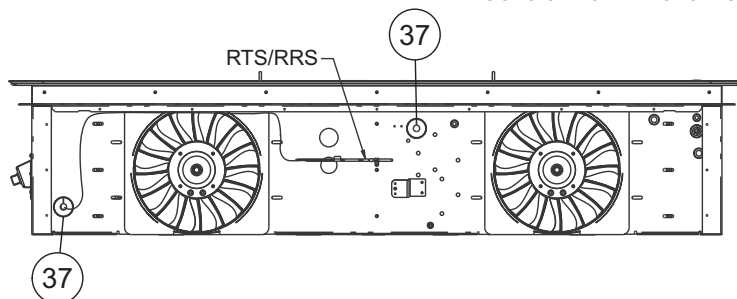
17 Controller Kit



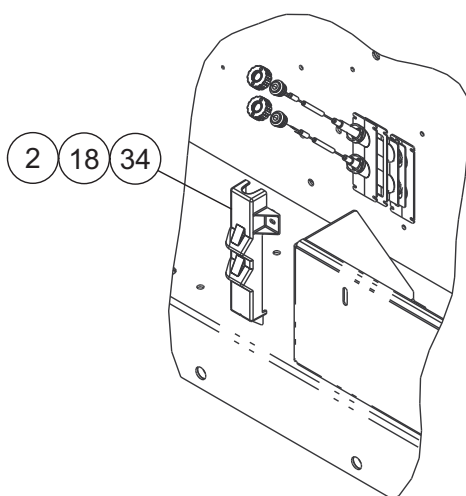
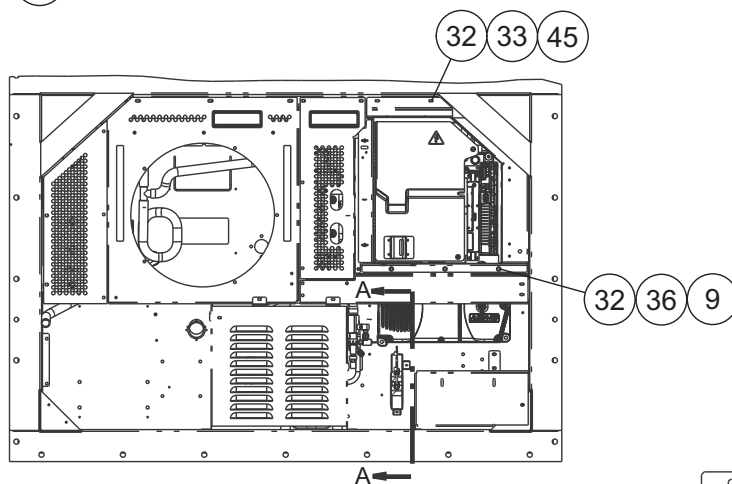
Control Box - Front View



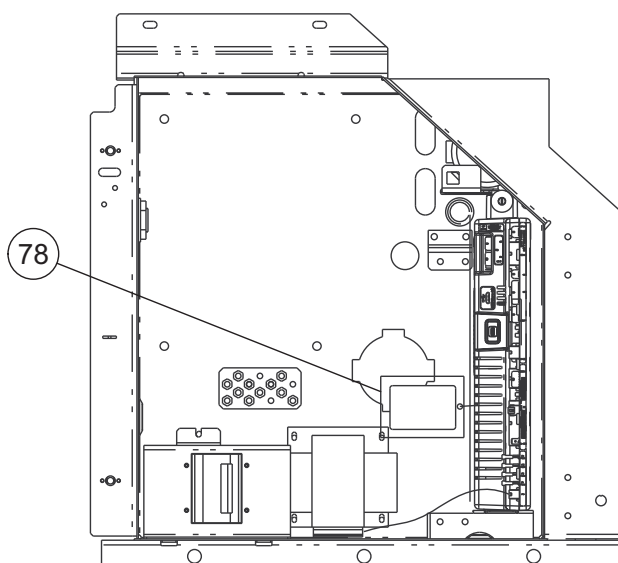
Control Box - Front View



Control Box - Rear View



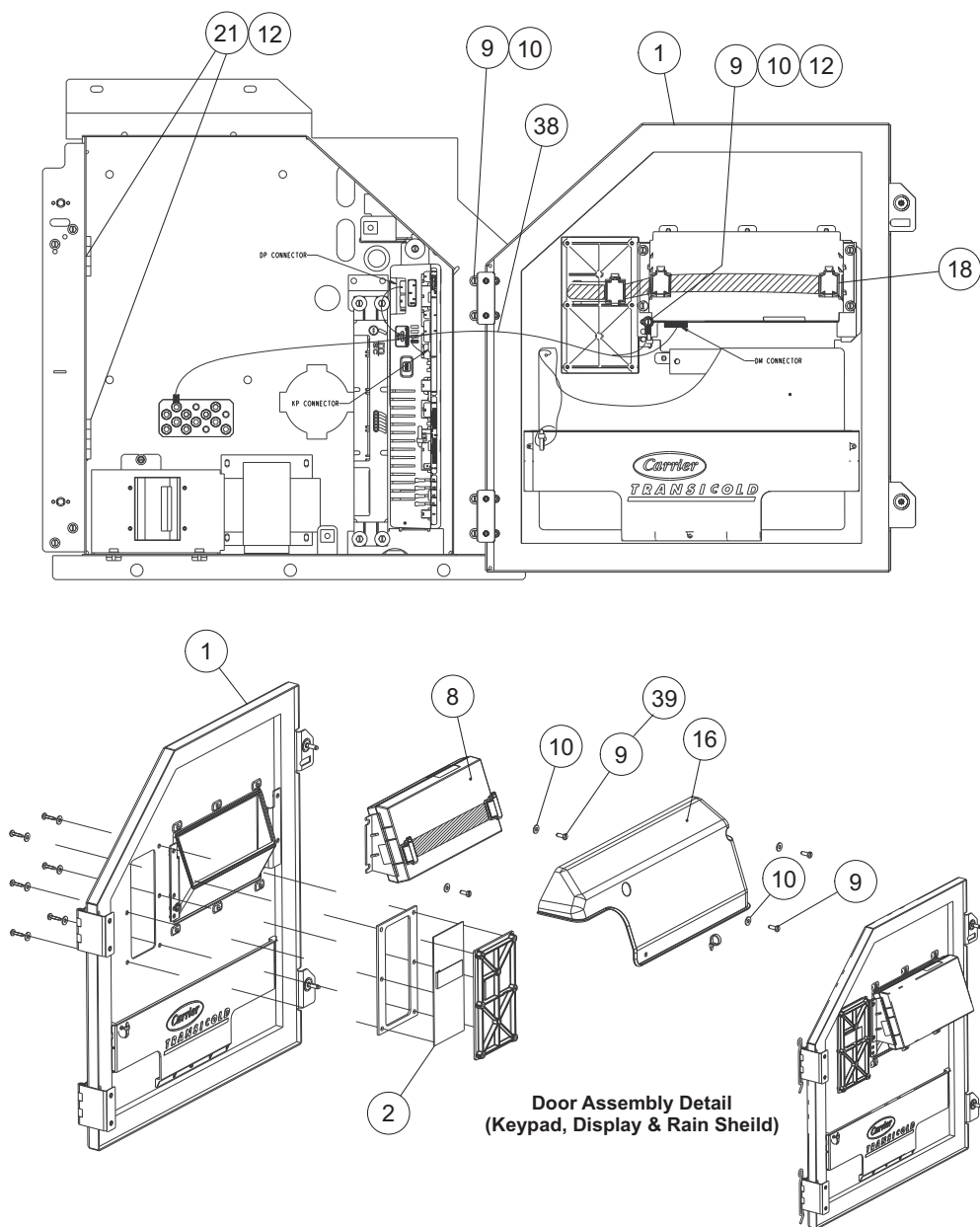
Section A-A



17 Controller Kit

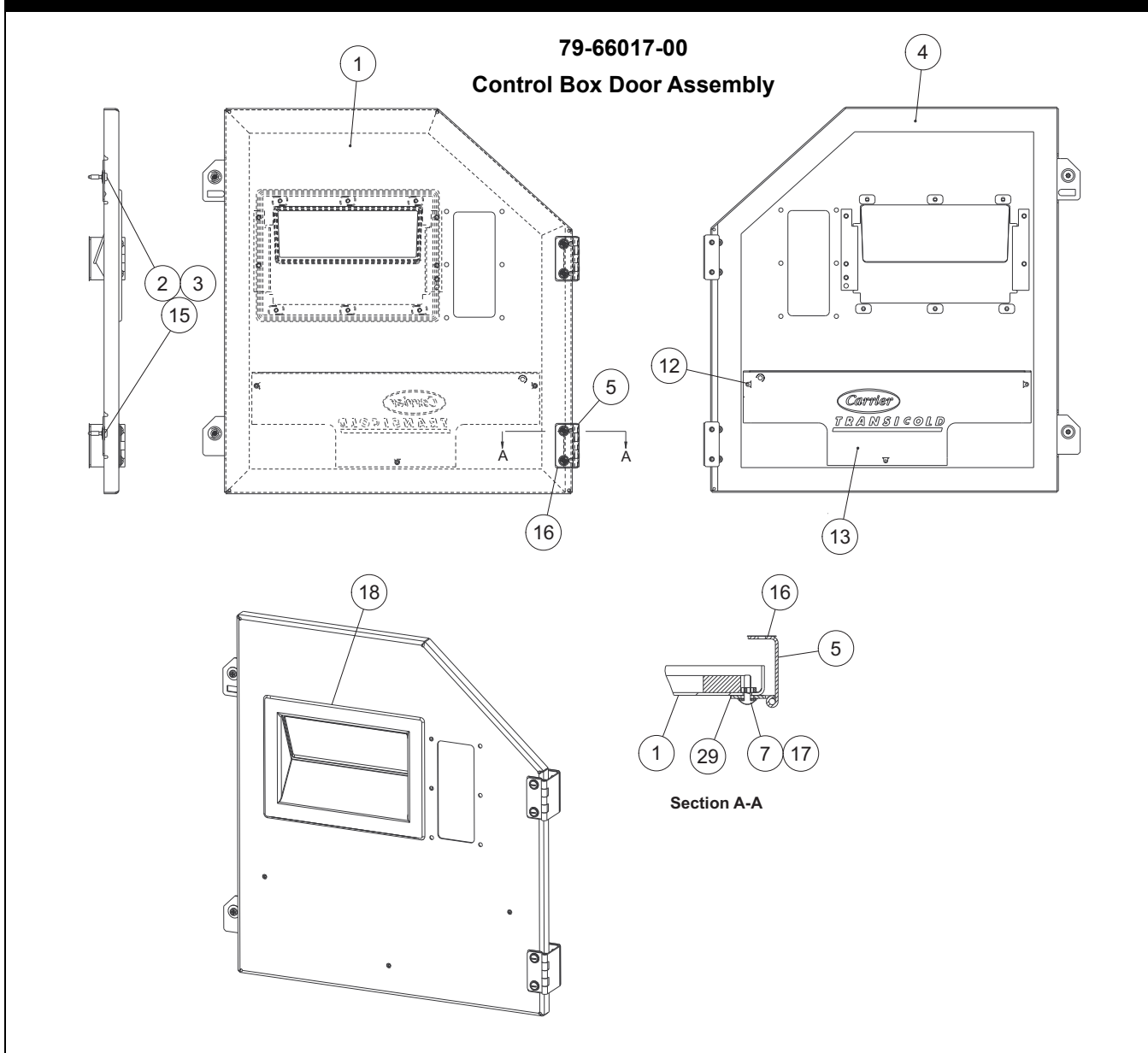
Item	Part Number	Description	Qty
2	58-04279-00	Cover, Probe	1
8	66-U---1--5371-6	Screw, Machine Hex Head	2
9	34-06053-03	Washer	3
11	44-01041-04	Clamp, Cushioned	1
15	34-01178-22	Screw, Hex Head	2
18	66-U---1--5371-7	Screw, Machine Hex Head	2
32	66-U---1--5361-25	Screw, Cap Hex Head	8
33	66-U---1--5321-7	Washer, Plain	2
34	66-U---1--5321-8	Washer, Plain	2
35	AU27JR171	Washer, Lock	3
36	69NT--35--2692-1	Washer, Fender	3
37	58-04273-00	Grommet	2
45	34-06053-00	Washer	2
78	62-11270-26	Label, Warning	1
79	34-01178-23	Screw, Tc Hex Head	1
111	42-66008-01	Foam Strip	3
112	66-U---1--1571-33	Grommet	1
113	58-05169-00	Spacer	3
114	66CH---1--1172-26	Trim, Flexible	1
115	42-00032-16	Insulation	2
116	66-U---1--5562-19	Plug Button, for units R1234yf-ready (models 701-100 to 149)	1
117	58-04321-31	Tube, Slit	1
118	58-04316-00	Base, Mounting	4
119	58-00701-14	Button, Plug, for units R1234yf-ready (models 701-100 to 149)	1

18 Control Box Door Kit



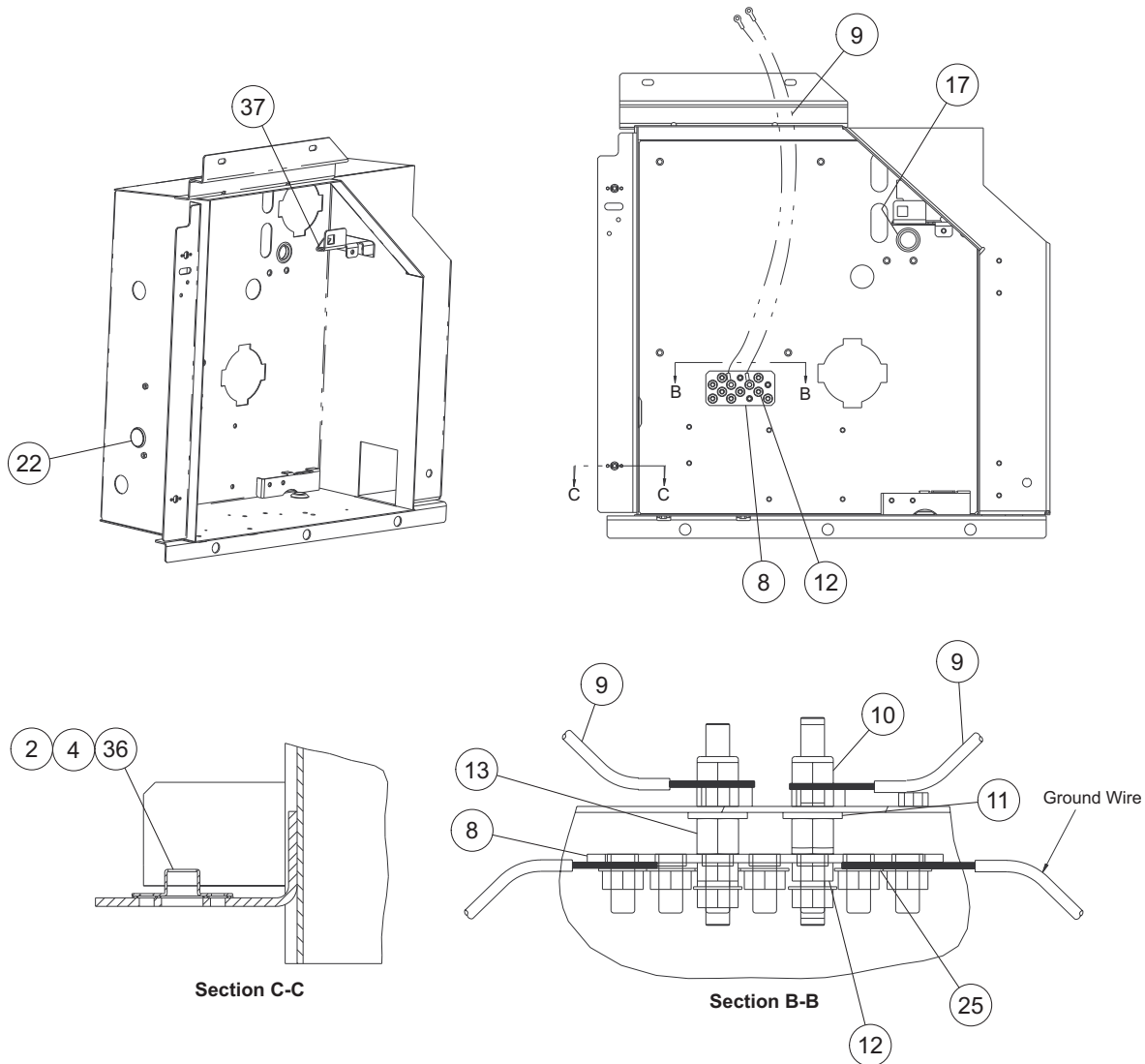
Item	Part Number	Description	Qty
1	79-66017-00	Control Box Door Assembly (See assembly next page)	1
2	79-66669-05	Key Pad Assembly	1
8	12-00433-09RP	Display Module	1
9	66-U---1--5371-7	Screw, Machine Hex Head #10-24 X 0.500	11
10	66-U---1--5321-8	Washer, Plain #10 Type A	11
12	AU27JR131	Washer, Lock #10 Ext Tooth	3
16	58-05145-00	Rain Shield	1
18	44-00391-00	Clamp	2
21	66-U---1--2403	Screw, Machine #10-24 X 0.500	2
38	22-01713-56	Display Harness	1
	22-04419-02	Connector to Controller (DP), 2x4 Circuits	1
	22-04419-03	Connector to Controller (KP), 2x5 Circuits	1
39	66-U---1--5371-6	Screw, Mach Hxhd. <u>Note:</u> For units with telematics only	4

18 Control Box Door Kit



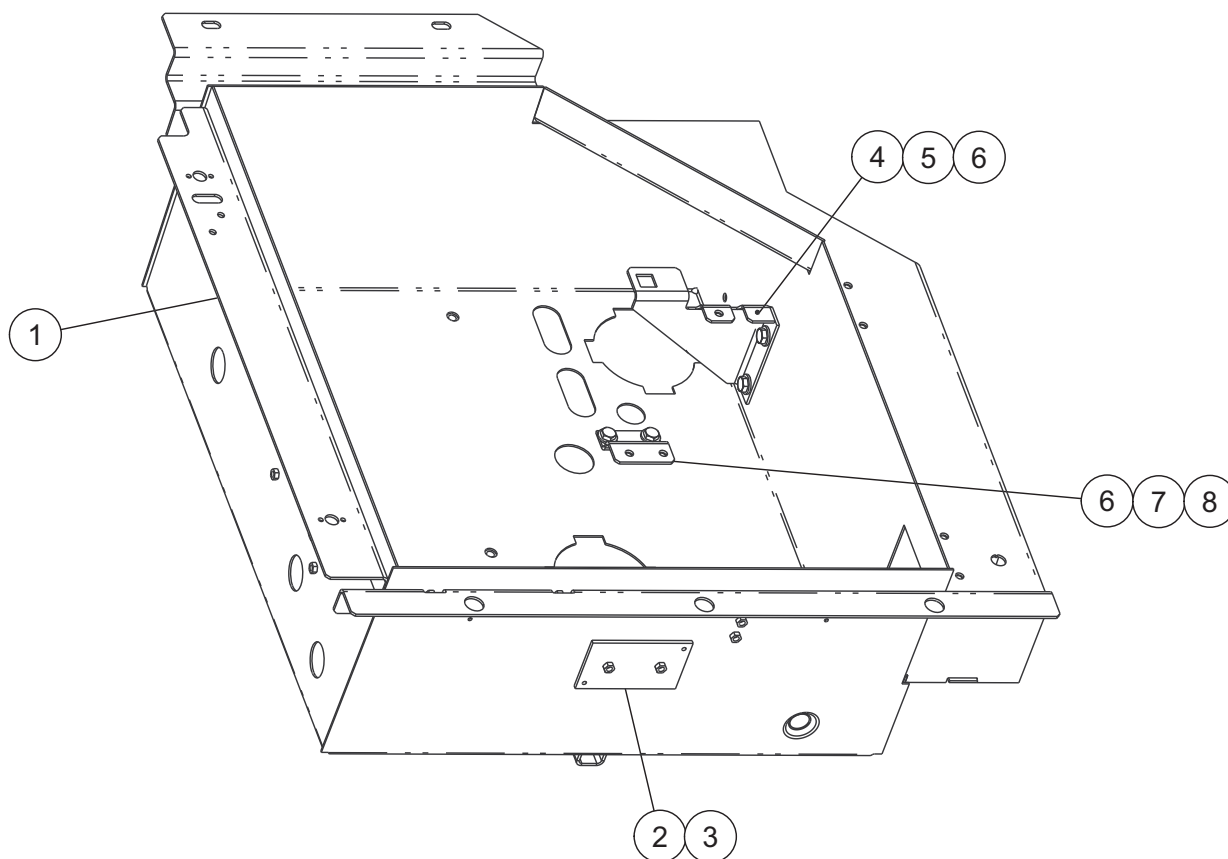
Item	Part Number	Description	Qty
	79-66017-00	Control Box Door Assembly:	1
1	86-66756-00	Door, Control Box	NSS
2	34-66687-11	Screw, Retaining	2
3	34-06169-00	Washer, Retaining	2
4	42-00741-00	Gasket	1
5	44-00477-00	Hinge	2
7	66-U---1--2403-1	Screw, Mach Trhd	4
12	34-06107-00	Rivet, Blind	3
13	58-04954-00	Pocket	1
15	34-06053-00	Washer	4
16	58-04101-02	Protector	2
12	34-06053-05	Washer	4
13	58-04366-00	Window	1
14	58-04101-00	Protector	2

19 Control Box Prep Kit



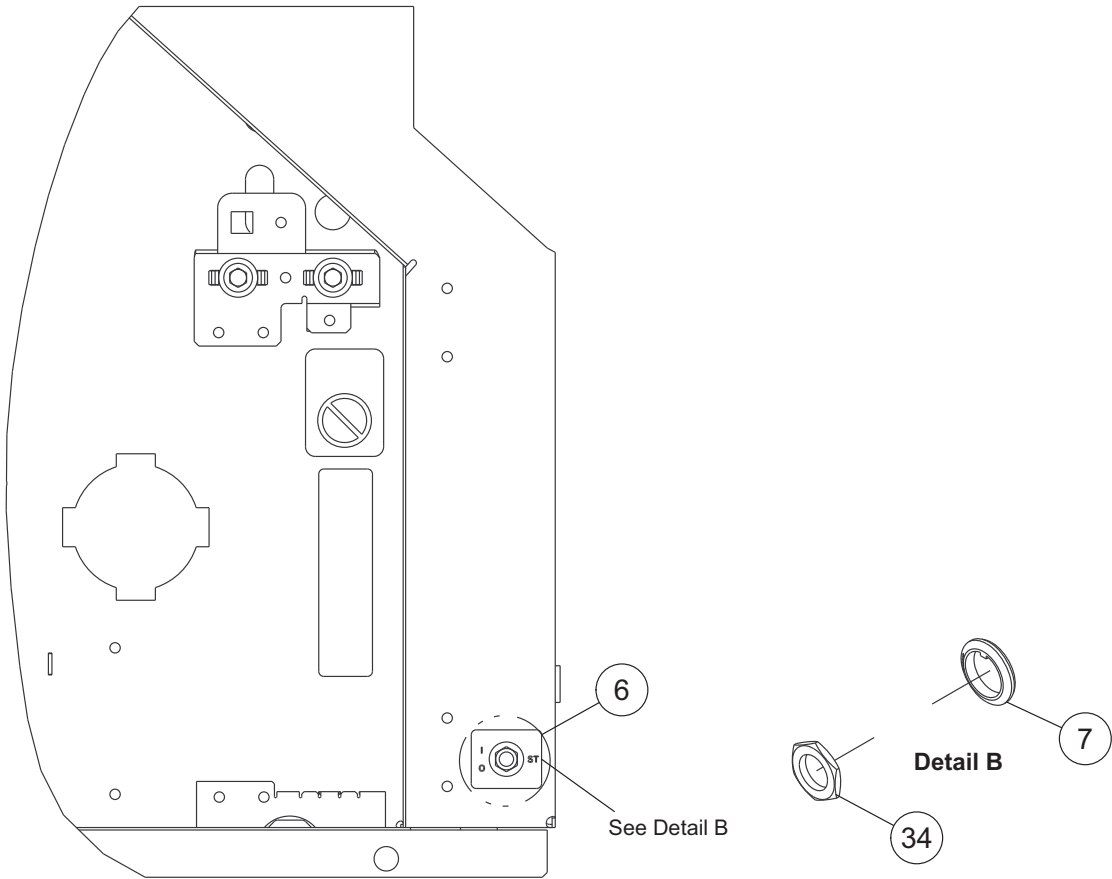
Item	Part Number	Description	Qty
2	34-01142-01	Receptacle	2
4	34-00928-01	Rivet, Blind	4
8	68-86230-00	Strap Assembly	1
9	22-66697-115	Wire Assembly	1
10	34-00667-11	Nut, Self Lock 1/4-20	2
11	66-U---1--5321-3	Washer, Plain	2
12	--AT--39JA-171	Nut, Hex 1/4-20	11
13	66-U---1--9592-13	Standoff	2
17	58-00701-03	Plug, Button	1
22	66-U---1--5562-7	Plug, Button	1
25	--AU--27JR-171	Washer, Lock	11
36	58-04026-32	Protector	2
37	66CH---1--1172-87	Trim, Flexible	1

20 Control Box Assembly



Item	Part Number	Description	Qty
	79-04244-06	Box Assembly, No HV Shield - Includes:	1
1	86-05315-04	Box Assembly, Weld	1
2	68-16498-00	Nut Plate Assembly	1
3	34-00928-20	Rivet, Blind	2
4	86-05299-01	Bracket	1
5	66-U---1--5361-25	Screw, Cap Hxhd	2
6	66-U---1--5321-3	Washer, Plain	4
7	68-18355-00	Channel	1
8	34-00655-04	Screw, Cap Hxhd	2

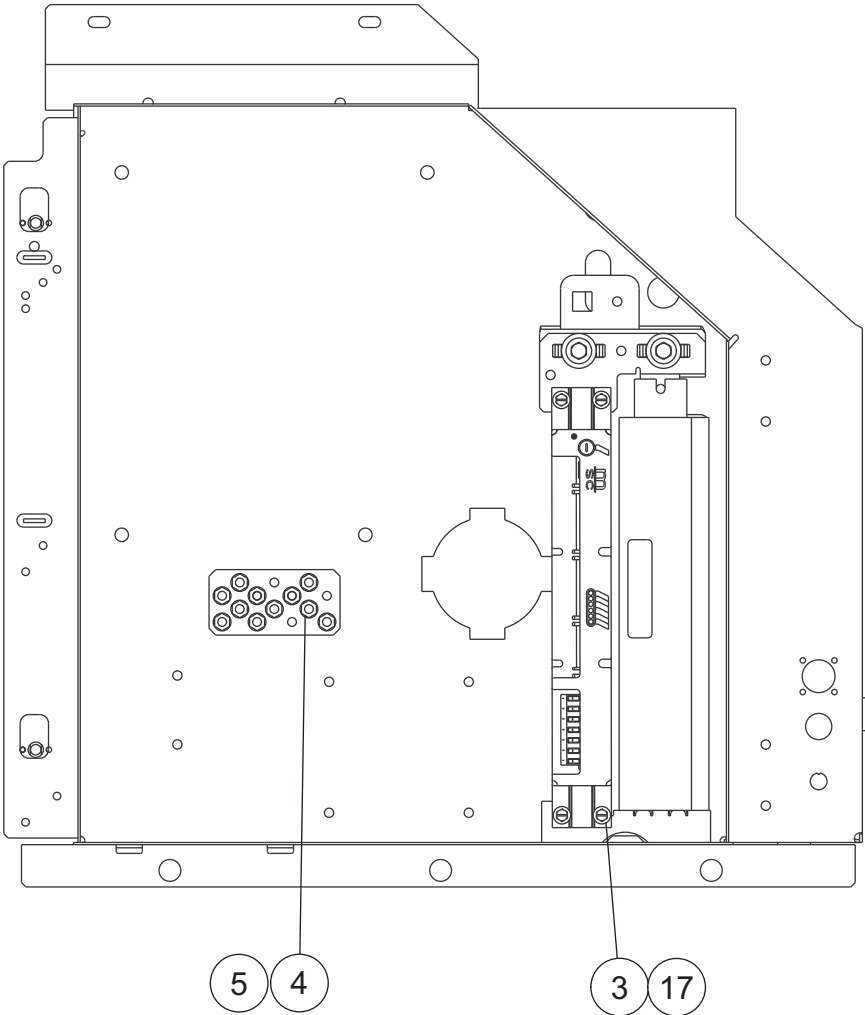
21 Panel Kit for Start/Stop (ST) Switch



Panel Kit for Start/Stop Switch

Item	Part Number	Description	Qty
6	62-11731-00	Label, ST / Switch	1
7	66-U---1--9752	Seal	1
34	10-01129-20	Nut, Hex 15/32-32	1

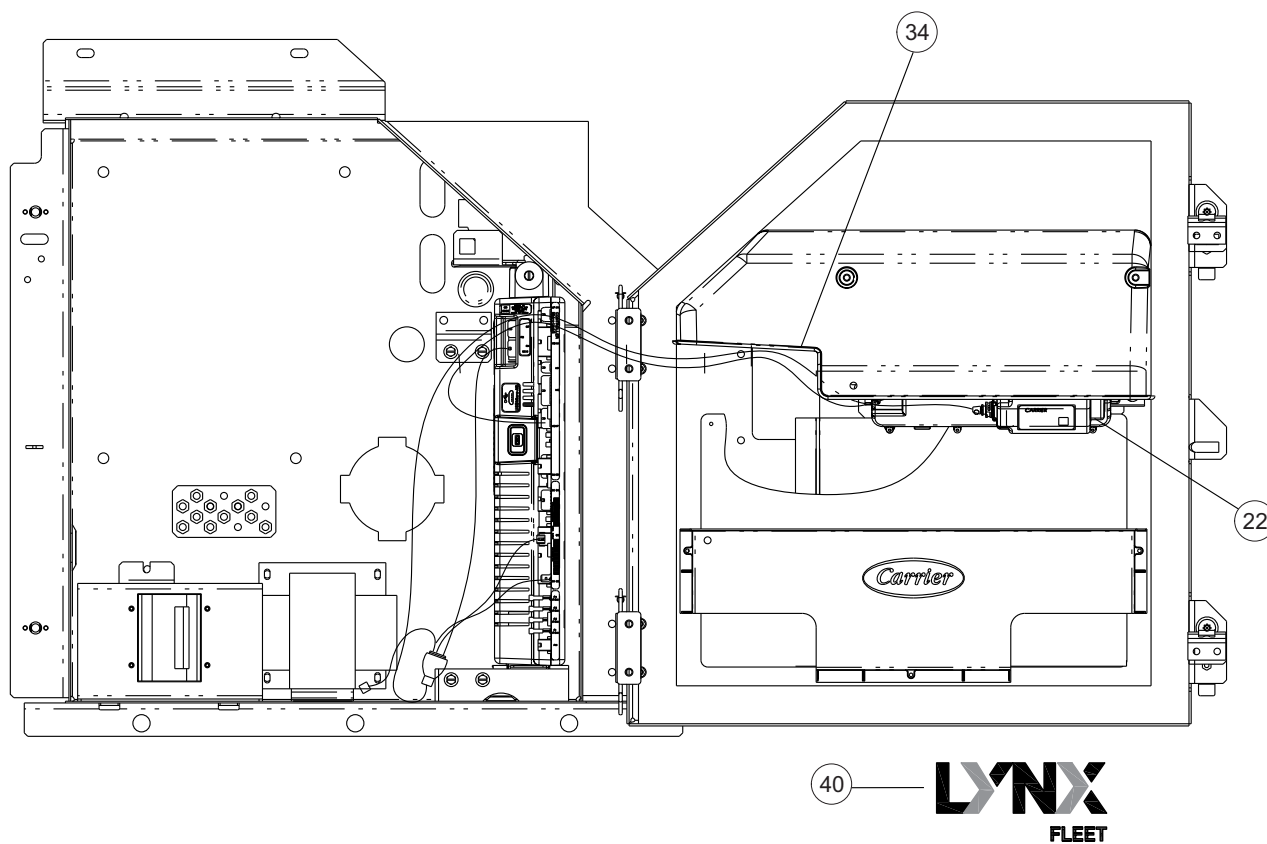
22 Remote Monitoring Unit (RMU) Kit



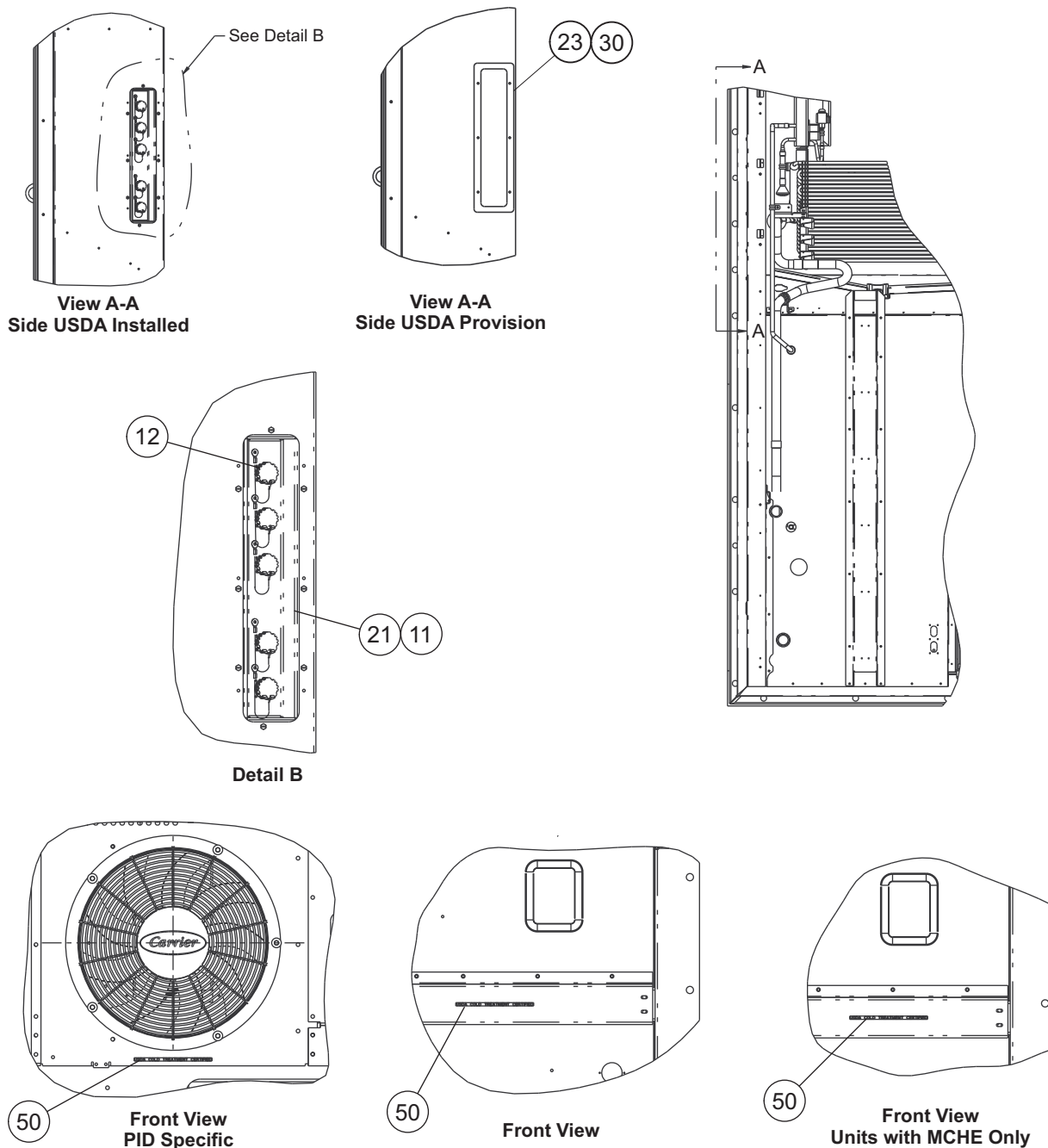
No RMU

Item	Part Number	Description	Qty
3	66-U---1--5371-7	Screw, Mach Hxhd	4
4	--AT--39JA-171	Nut, Hex	1
5	--AU--27JR-171	Washer, Lock	1
17	66-U---1--5321-8	Washer, Plain	4

22 Remote Monitoring Unit (RMU) Kit

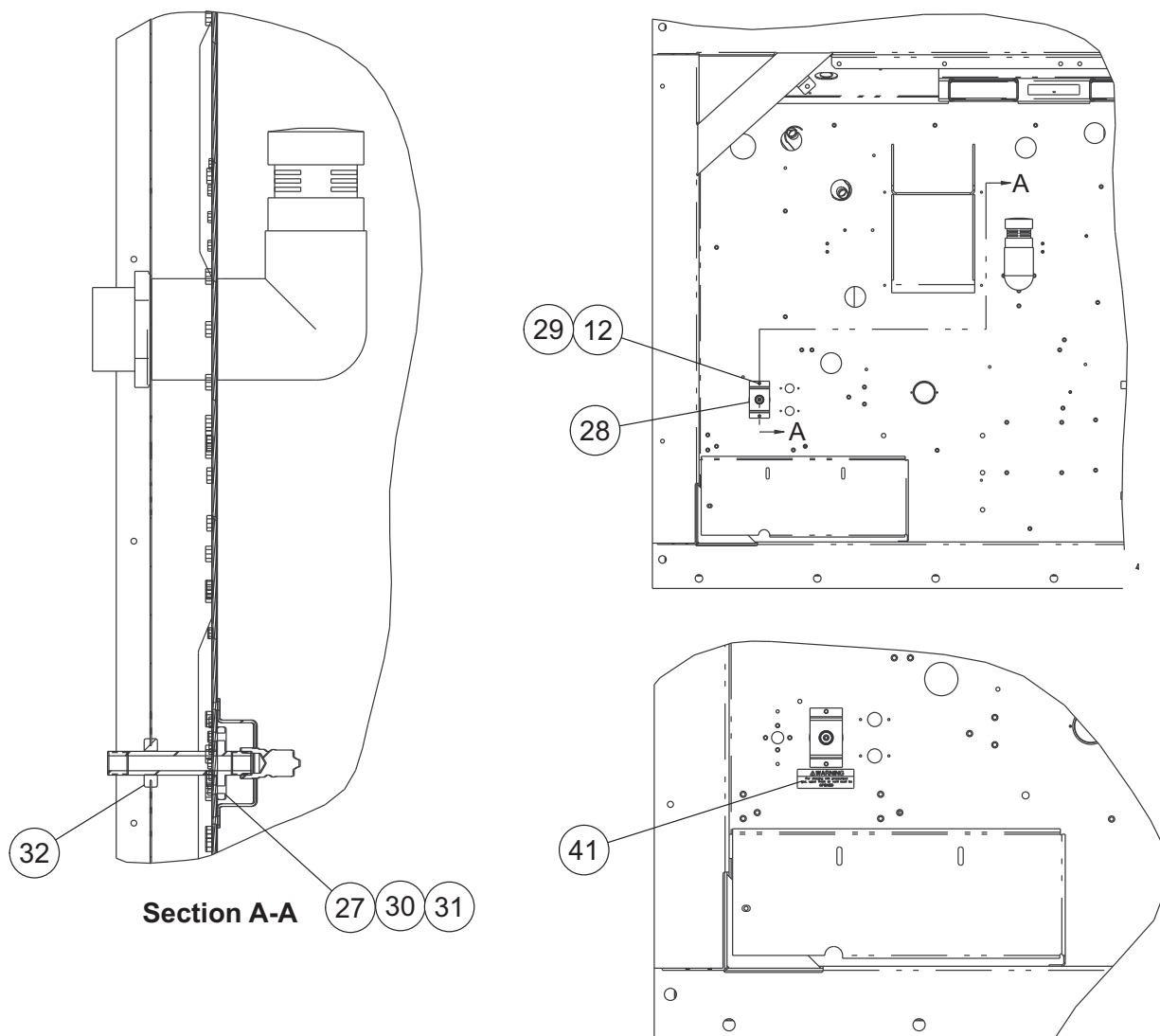


RMU - TripLINK			
Item	Part Number	Description	Qty
NS	66-U---1--3882	Wire Tie	10
22	12-00842-08	Module, Telematics	1
34	12-00842-04	Cable, Telematics	1
40	62-12310-01	Label, Lynxfleet	1



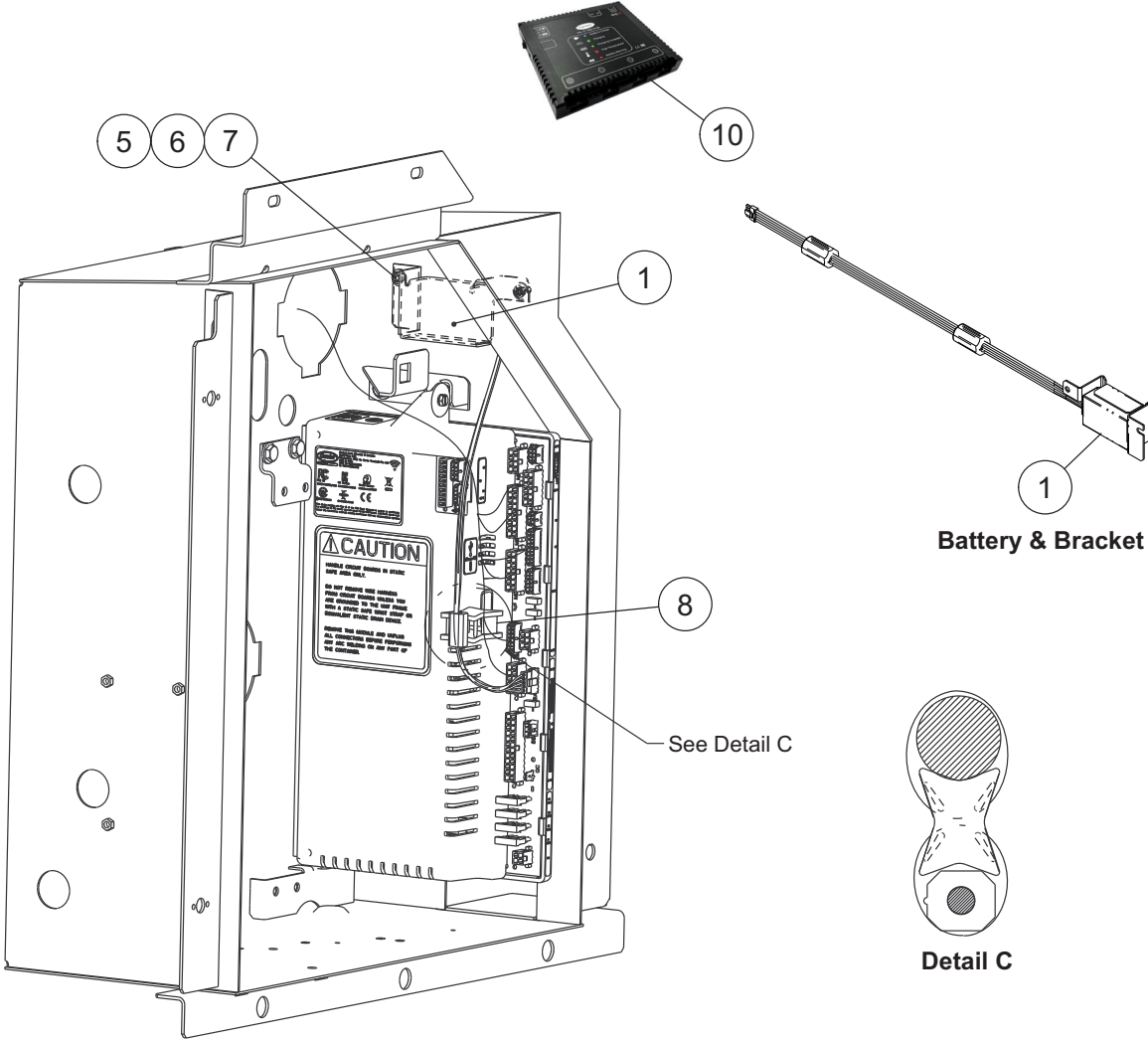
Item	Part Number	Description	Qty
USDA Installed			
NS	12-50089-02PK4	USDA Sensor, 4 Pack	1
11	66-U---1--5371-7	Screw, Machine Hex Head, #10-24 X 0.500 Slotted	8
12	34-06142-00	Rivet, 0.110 Diameter	20
21	79-66775-00	Panel Assembly - Includes:	1
	79-66743-00	Cord Assembly, 3 pin, USDA probes	4
	79-66743-01	Cord Assembly, 5 pin, cargo probe	1
50	62-11275-00	Label, USDA Cold Treatment Certified (Optional)	1

24 Interrogator Connector Front



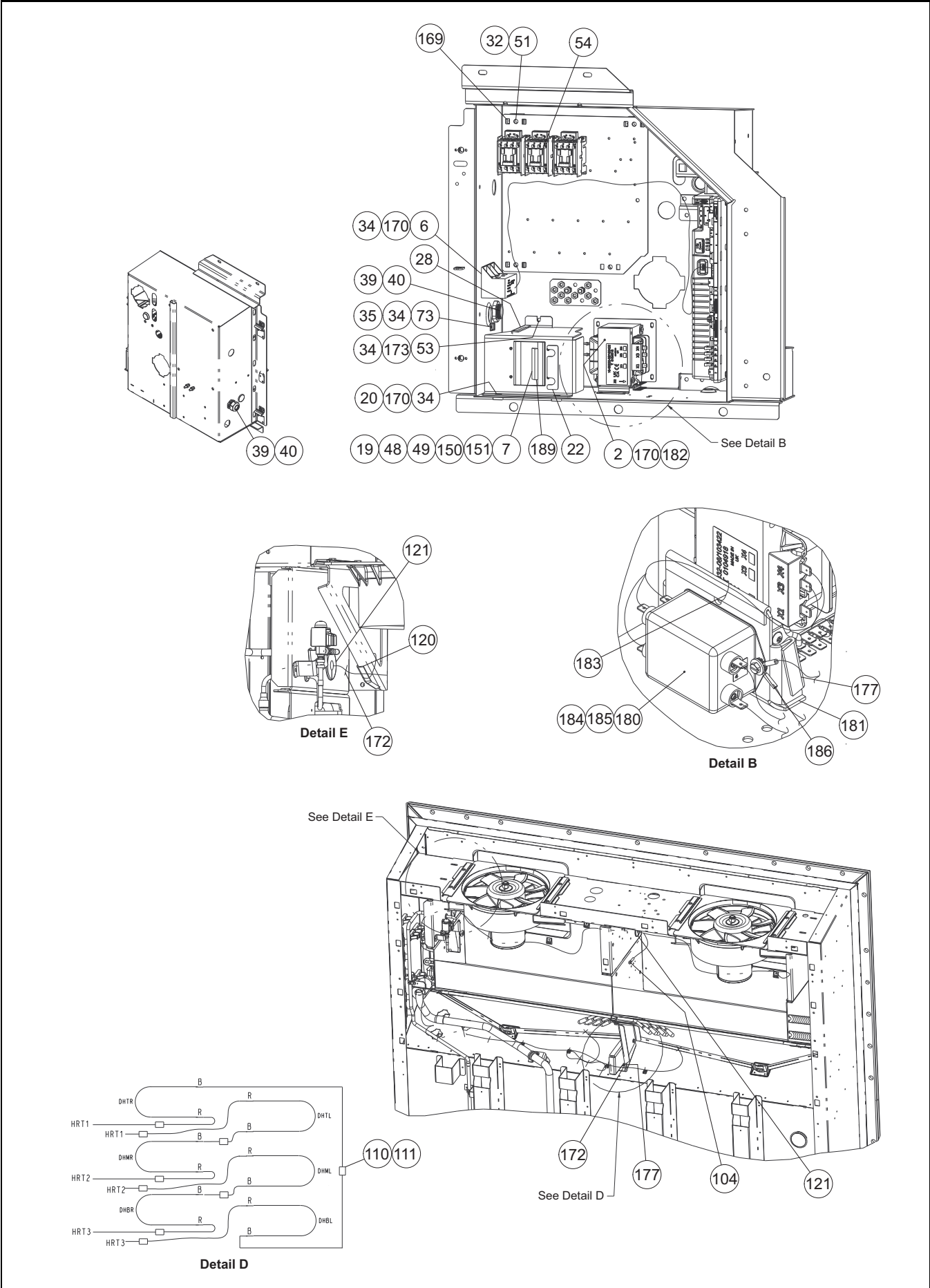
Item	Part Number	Description	Qty
2	66-U---1--5321-8	Washer, Plain #10 Type A	2
3	68-17021-00	Bracket	1
4	66-U---1--5371-7	Screw, Machine Hex Head #10-24 X 0.500	2
7	79-66743-02	Cord Assembly	1
11	34-06053-05	Washer 0.205 ID X 0.600 OD	2
12	34-06142-00	Rivet	4
14	22-66798-00	Connector	1

25 Controller Battery Kit



Item	Part Number	Description	Qty
1	79-66081-21	Battery Rechargeable Pack and Bracket (Standard)	1
5	34-06251-01	Screw, Button HD	2
6	34-00663-09	Washer, Lock	2
7	66-U-1---1--5321-8	Washer, Plain	2
8	58-05169-00	Spacer	1
10	07-00614-00	Smart Battery Charger	1

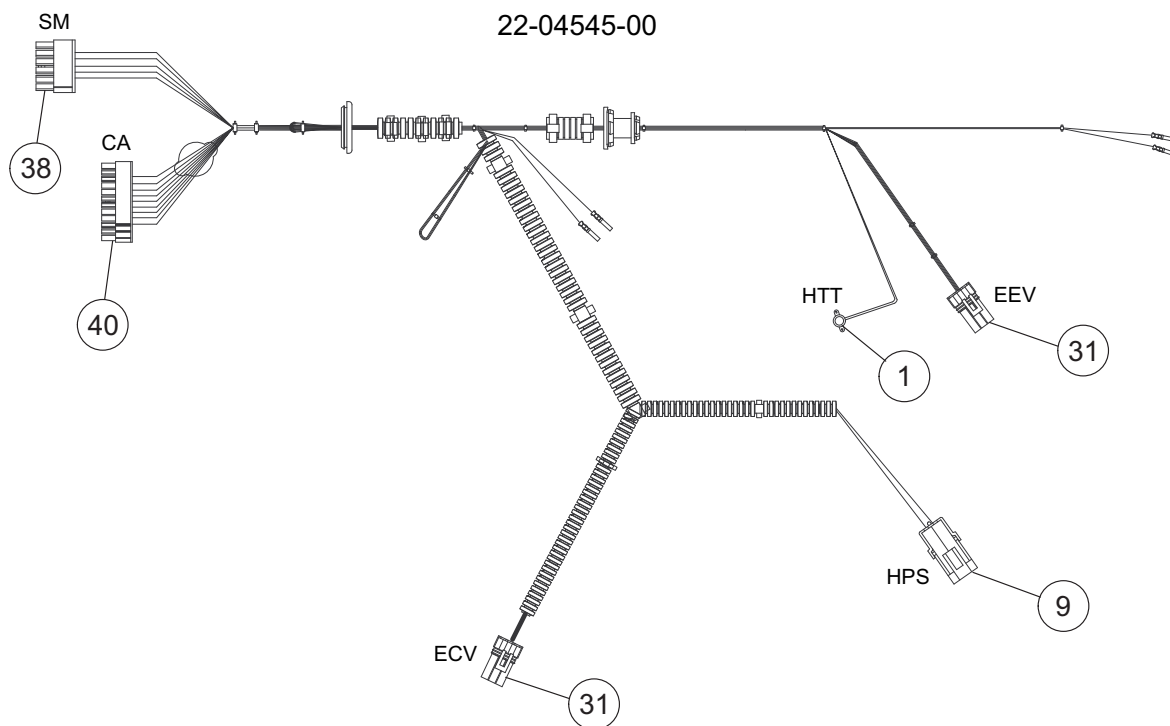
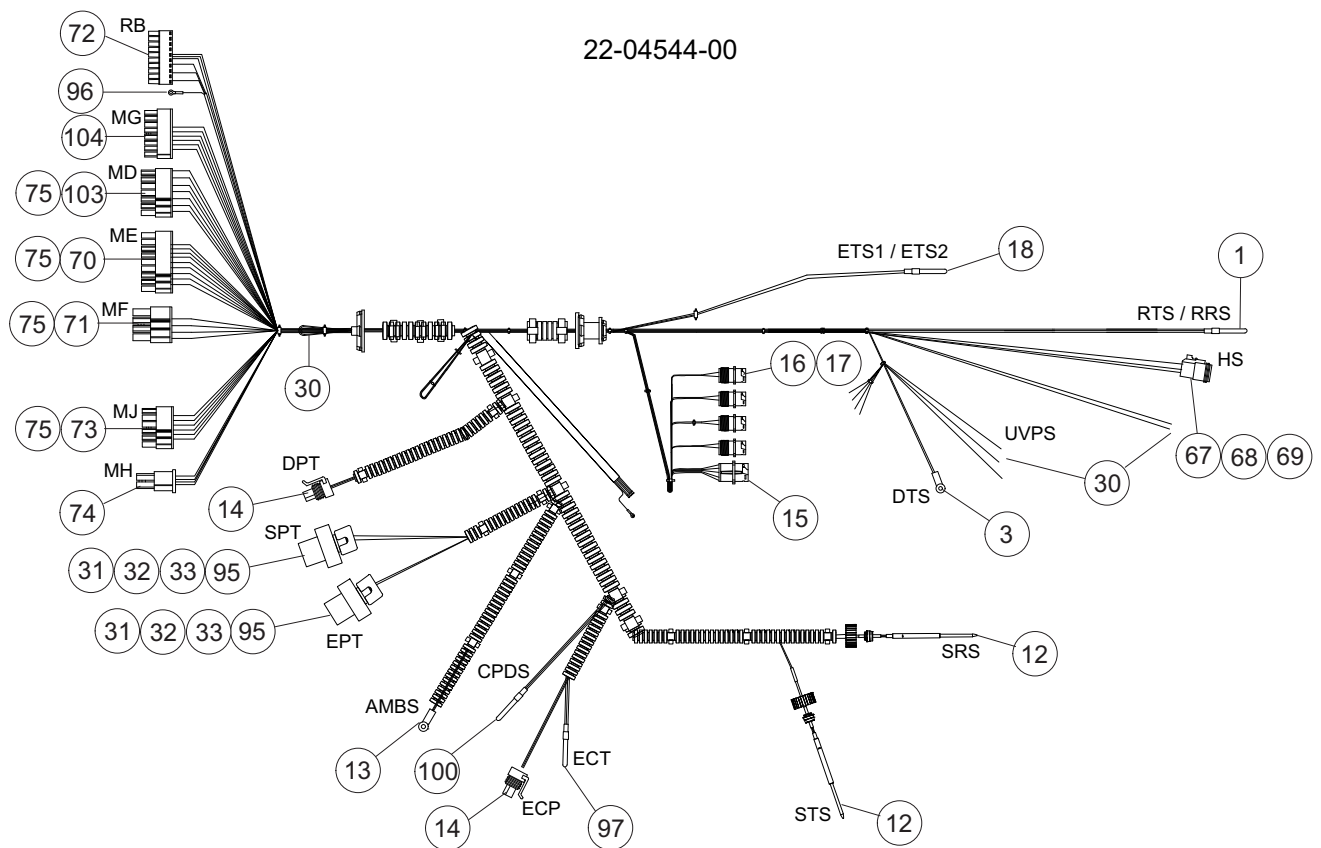
26 Wiring Kit



26 Wiring Kit

Item	Part Number	Description	Qty
2	10-00332-21SV	Transformer, Control	1
6	10-00439-03	Transformer, Current Sensing	1
7	22-66697-25	Wire Assembly	1
19	66-U---1--7842-12	Circuit Breaker (CB1)	1
20	68-17405-00	Bracket	1
22	69NT--35--9073-1	Label, CB1	1
28	66CH---1--1172-28	Trim, Flexible	1
32	34-00655-08	Screw, Cap Hex Head 1/4-20	4
34	66-U---1--5371-7	Screw, Machine Hex Head #10-24	6
35	34-00663-09	Washer, Lock #10 Spring	1
39	22-66793-00	Gland	1
40	22-66794-00	Nut	1
48	66-U---1--6651-19	Screw, Machine Pan Head #6-32	4
49	34-00663-07	Washer, Lock #6 Spring	4
51	66-U---1--5321-7	Washer, Plain 1/4 W Type A	4
53	34-06053-13	Washer	1
54	10-00431-11	Cover, Contactor	2
73	58-04246-00	Ty-Rap Base	1
104	34-01178-22	Screw, TC Hex Head	1
110	66-U---1--3803	Tube, Heat Shrink	9
111	22-01292-02	Butt Splice	9
120	66CH---1--1172-43	Trim, Flexible	1
121	58-04273-00	Grommet	2
150	66-U---1--7842-6	Nut, Hex	6
151	66-U---1--7842-7	Washer, Flat	12
169	58-66689-00	Spacer	4
170	66-U---1--5321-8	Washer, Plain	10
172	58-66700-00	Sleeve	2
173	69NT--35--2692-4	Washer, Fender	1
177	66CH---1--1172-34	Trim, Flexible	2
180	10-00526-00	Power Filter	1
181	86-05343-00	Bracket	1
182	66-U---1--5371-6	Screw, Machine Hex Head	6
183	66CH---1--1172-24	Trim, Flexible	1
184	66-U---1--5371	Screw, Machine Hex Head	2
185	66-U---1--5321-2	Washer, Plain	2
186	34-06354-00	Washer, Lock	2
187	62-10530-47	Label, Filter Pos 1,3,5	1
188	62-10530-48	Label, Filter Pos 2,4,6	1
189	22-04573-00	Cable, VFD	1

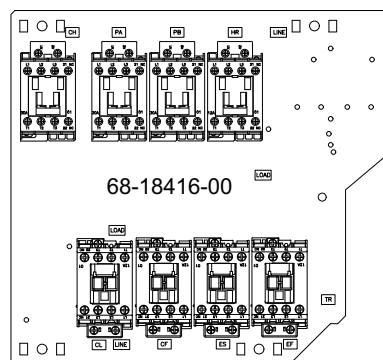
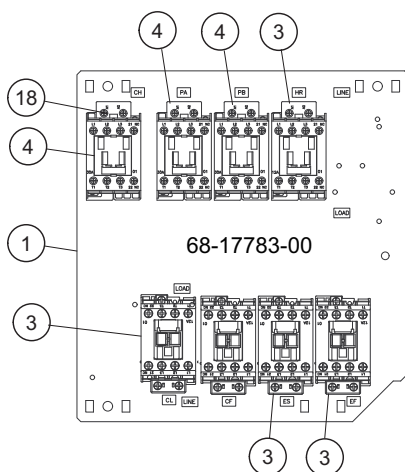
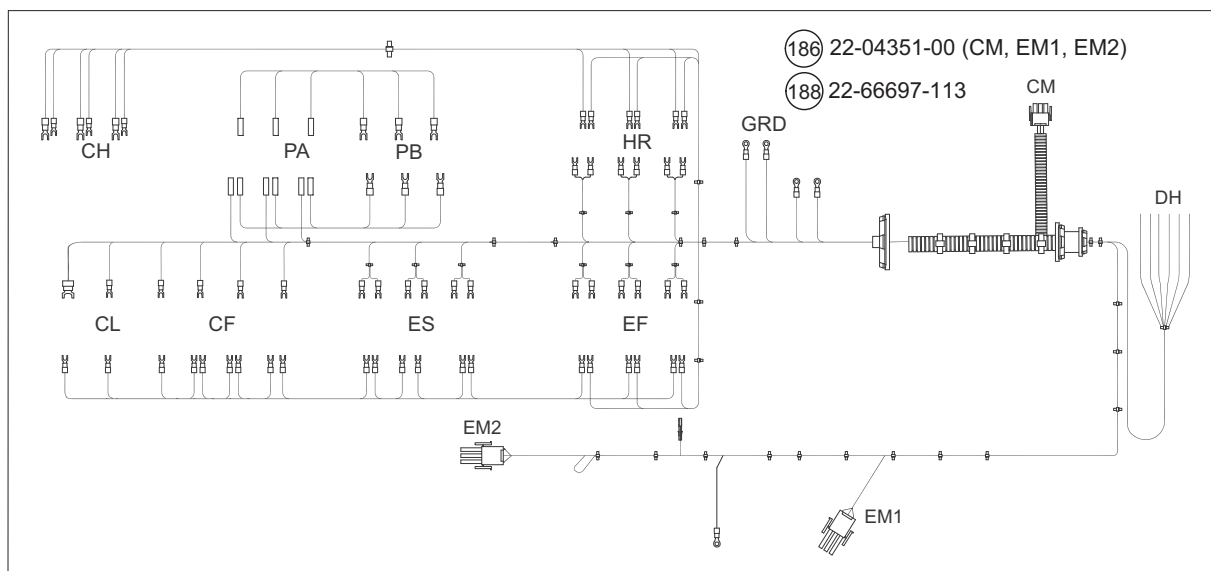
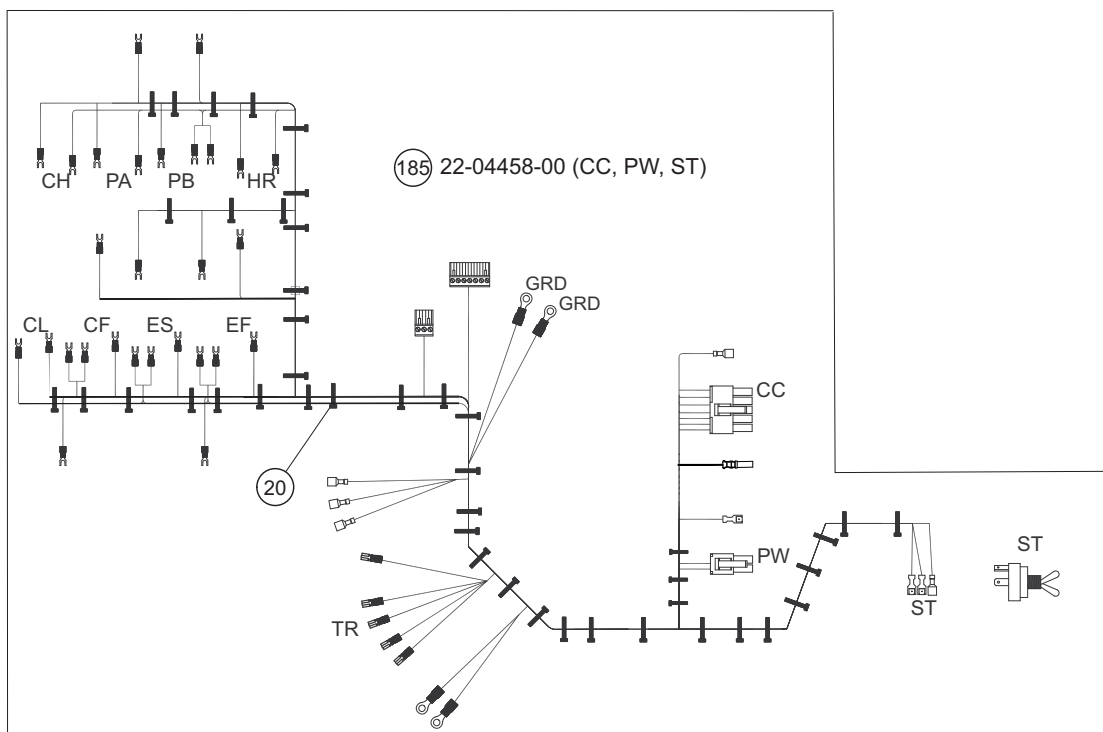
27 Wire Harness, Low Voltage



27 Wire Harness, Low Voltage

Item	Part Number	Description	Qty
	22-04544-00	Wire Harness, Low Voltage, Sensor:	1
1	12-00500-01SV	Thermistor, Return Air Sensors (RTS / RRS)	1
3	12-00495-02SV	Thermistor, Defrost Temperature Sensor (DTS)	1
9	58-04277-00	Cap	2
12	12-00395-01SV	Thermistor, Supply Air Sensors (STS / SRS)	2
13	12-00495-02SV	Thermistor, Ambient Temperature Sensor (AMBS)	1
14	22-02448-02	Connector, Fem, Discharge Pressure Transducer (DPT)	1
		Connector, Fem, Economizer Pressure Transducer (ECP)	1
15	22-01660-14	Receptacle	A/R
16	22-01660-12	Receptacle	4
17	22-01614-06	Plug	A/R
18	12-00500-01SV	Thermistor, Evaporator Temperature Sensor (ETS1 / ETS2)	1
30	66-U---1--8292-1	Cap, Insulating	A/R
31	22-01944-00	Receptacle	2
32	22-01944-05	Cap	2
33	22-01944-10	Gasket	2
67	22-01613-06	Plug	1
68	22-01613-07	Lock, Secondary	1
69	22-01613-13	Contact	A/R
70	22-04418-06	Connector to Controller (ME), 2x9 Circuits	1
71	22-04418-02	Connector to Controller (MF), 2x4 Circuits	1
72	22-04477-00	Connector to Controller (RB), 1x10 Circuits	1
73	22-04418-04	Connector to Controller (MJ), 2x6 Circuits	1
74	22-04419-00	Connector to Controller (MH), 2x2 Circuits	1
75	22-04418-12	Terminal	A/R
95	76-00816-00	Suction Pressure Transducer (SPT) Kit	1
		Evaporator Pressure Transducer (EPT) Kit	1
96	22-04281-01	Cable Assembly, VFD Communication	1
97	12-00726-20	Thermistor, Economizer Temperature Sensor (ECT)	1
100	12-00726-20	Thermistor, Discharge Temperature Sensor (CPDS)	1
103	22-04418-05	Connector to Controller (MD), 2x7 Circuits	1
104	22-04419-06	Connector to Controller (MG), 2x8 Circuits	1
	22-04545-00	Wire Harness, Low Voltage, Switch:	1
1	76-66705-00	Thermostat, Heat Termination Thermostat (HTT) Service Kit	1
9	22-02392-00	Connector, Male, High Pressure Switch (HPS)	1
31	22-01835-00	Connector, Electronic Expansion Valve (EEV)	1
		Connector, Evaporator Expansion Valve (ECV)	1
38	22-04419-04	Connector to Controller (SM), 2x6 Circuits	1
	22-04419-18	Terminal, for Connector	A/R
40	22-04418-09	Connector to Controller (CA), 2x12 Circuits	1
	22-04418-12	Terminal, for Connector	A/R

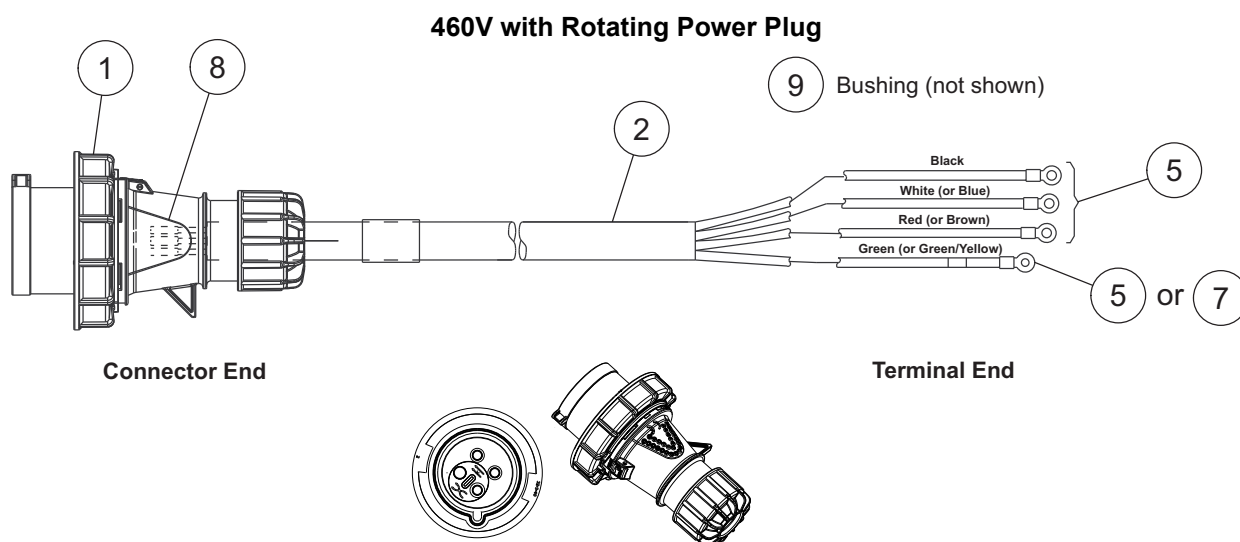
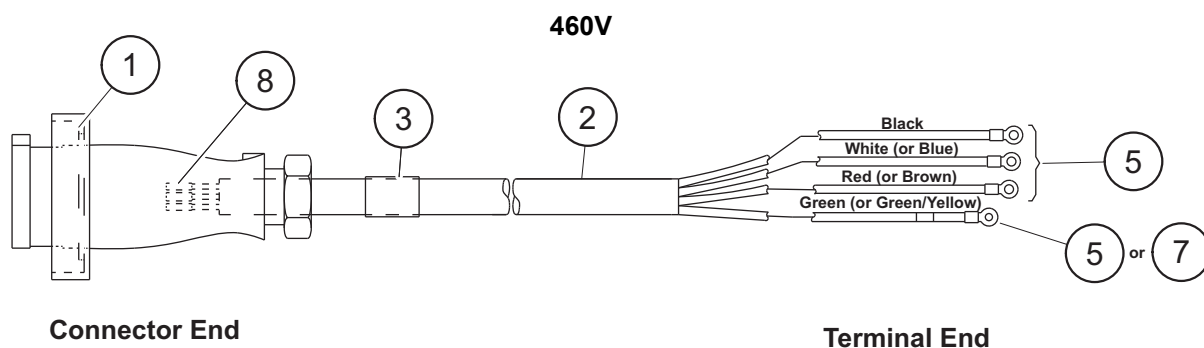
28 High Voltage Harness



28 High Voltage Harness

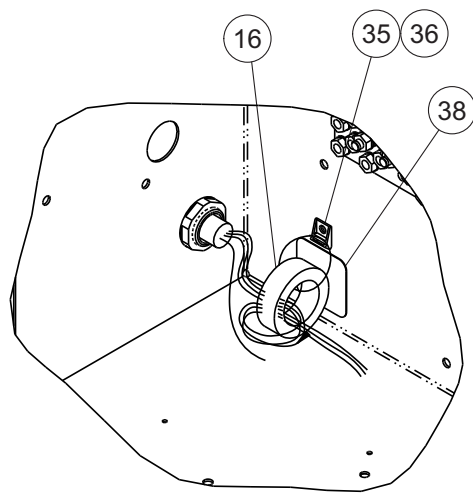
Item	Part Number	Description	Qty
	91-00519-00	Wire Harness, High Voltage	1
1	68-17783-00	Panel, Control Box	1
	68-18416-00	Panel, Control Box	
3	10-00431-00	Contactor, 12 Amp (CL, CF, ES, EF, HR)	5
4	10-00431-10	Contactor, 30 Amp (CH, PA, PB)	3
18	34-06243-00	Screw	A/R
20	58-04316-00	Base, Mounting	1
185	22-04548-00	Wire Assembly, White (CC, PW, ST)	1
	22-04418-00	Connector to Controller (PW), 2x2 Circuits	1
	22-04418-03	Connector to Controller (CC), 2x5 Circuits	1
186	22-04547-00	Wire Assembly, Red (CM, EM1, EM2)	1
188	22-66697-113	Wire Assembly, Loose ML5 Filter	1

29 Cable Assembly - Power Cable and Plug

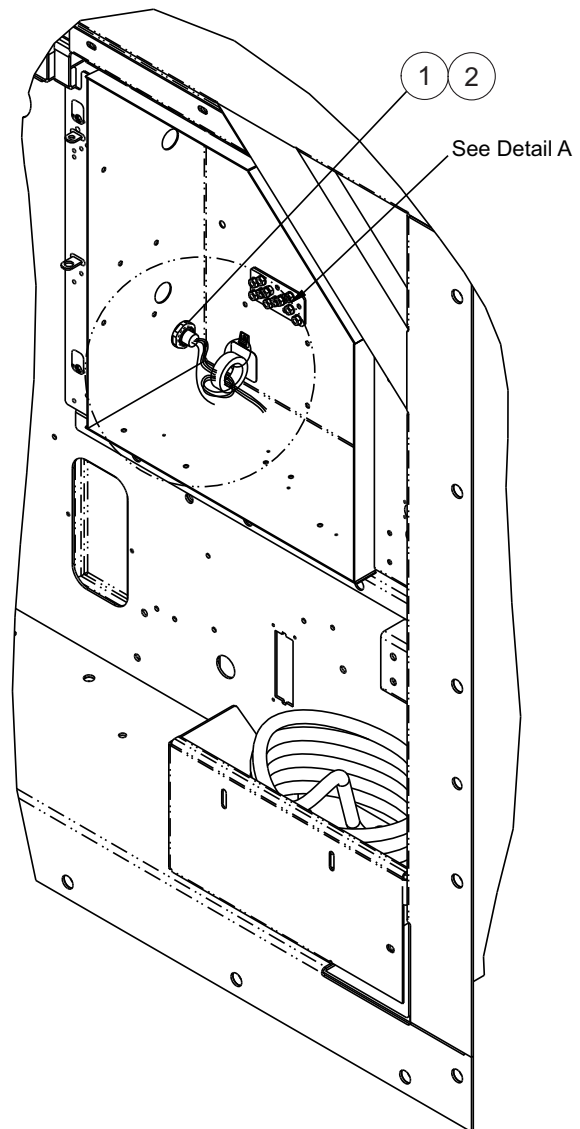
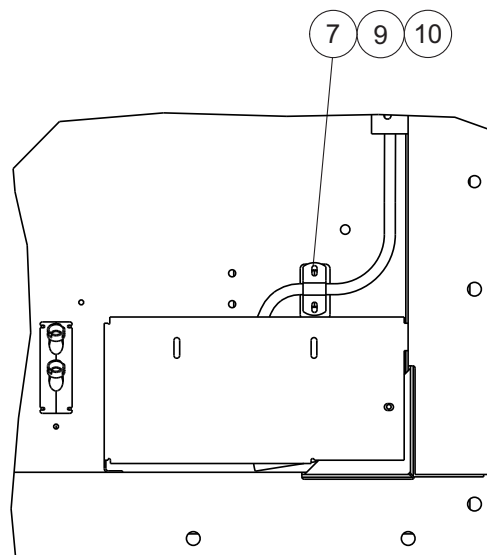


Item	Part Number	Description	Qty
460V			
	22-50401-00	Power Cable Assembly with 11 Gauge Cable and Plug	1
1	22-02378-00PK10	Power Plug	10pk
2	22-66651-00	Power Cable 460V, 11 Gauge, 4x4	1
	22-66654-00	Power Cable 460V, 10 Gauge, 5x5	
3	66-U---1--2583	Tube, Heat Shrink	1
5	22-00119-03	Terminal	3
7	22-00119-04	Terminal, Ring	1
8	22-02324-01	Bushing	4
460V with Rotating Power Plug			
1	22-66795-20PK10	Power Plug, Rotating	1
2	22-66651-00	Power Cable 460V, 11 Gauge, 4x4	1
	22-66654-00	Power Cable 460V, 10 Gauge, 5x5	1
5	22-00119-03	Terminal	3
7	22-00119-04	Terminal, Ring	1
8	22-02324-01	Bushing	3
9	22-02324-11	Bushing	1

30 Cable Kit

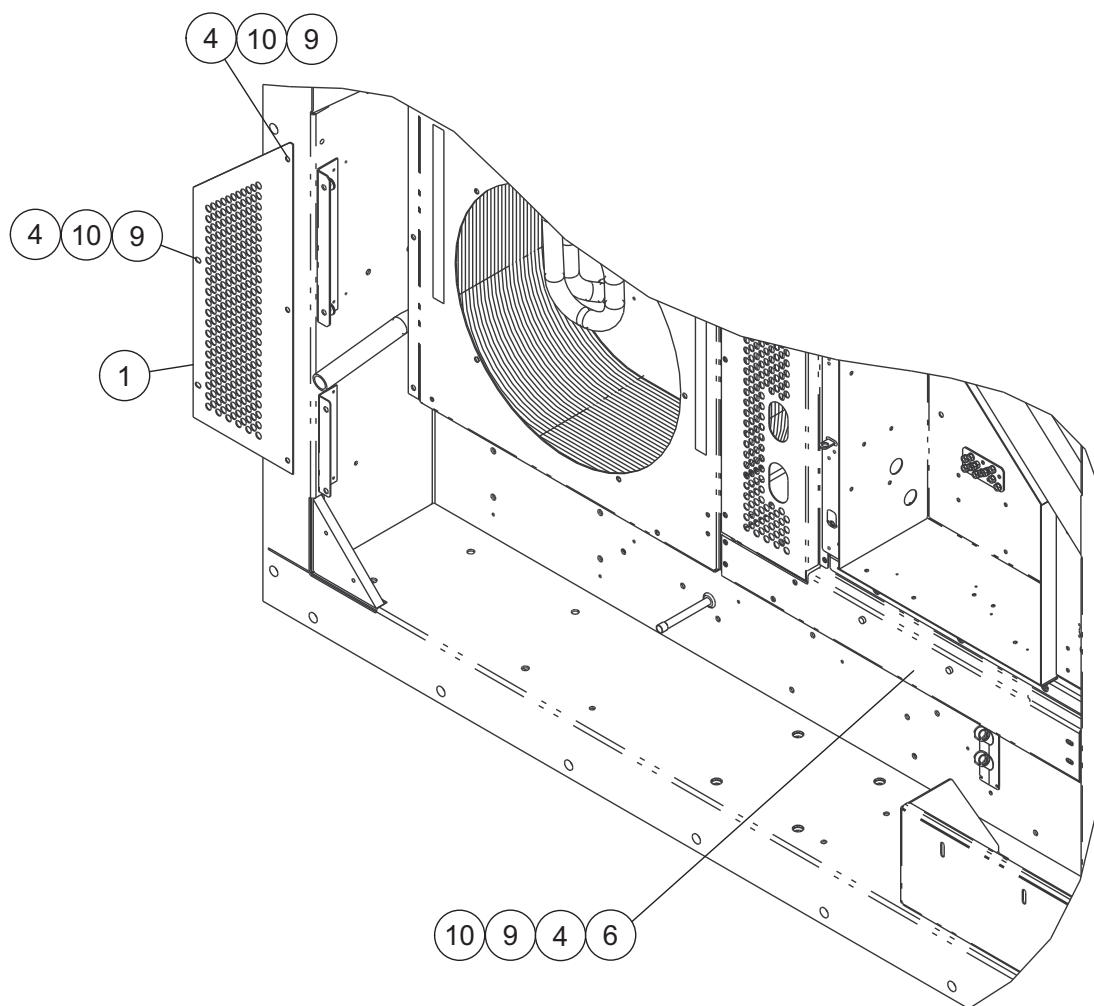


Detail A



Item	Part Number	Description	Qty
1	22-66793-00	Gland	1
2	22-66794-00	Nut	1
7	68-14456-01	Cable Clamp	1
9	66-U---1--5361-25	Screw, Cap Hxhd	2
10	66-U---1--5321-7	Washer, Plain	2
16	22-04412-00	Ferrite	1
35	66-U---1--5371-7	Screw, Mach Hxhd	1
36	34-00663-09	Washer, Lock	1
38	58-04026-107	Protector	1

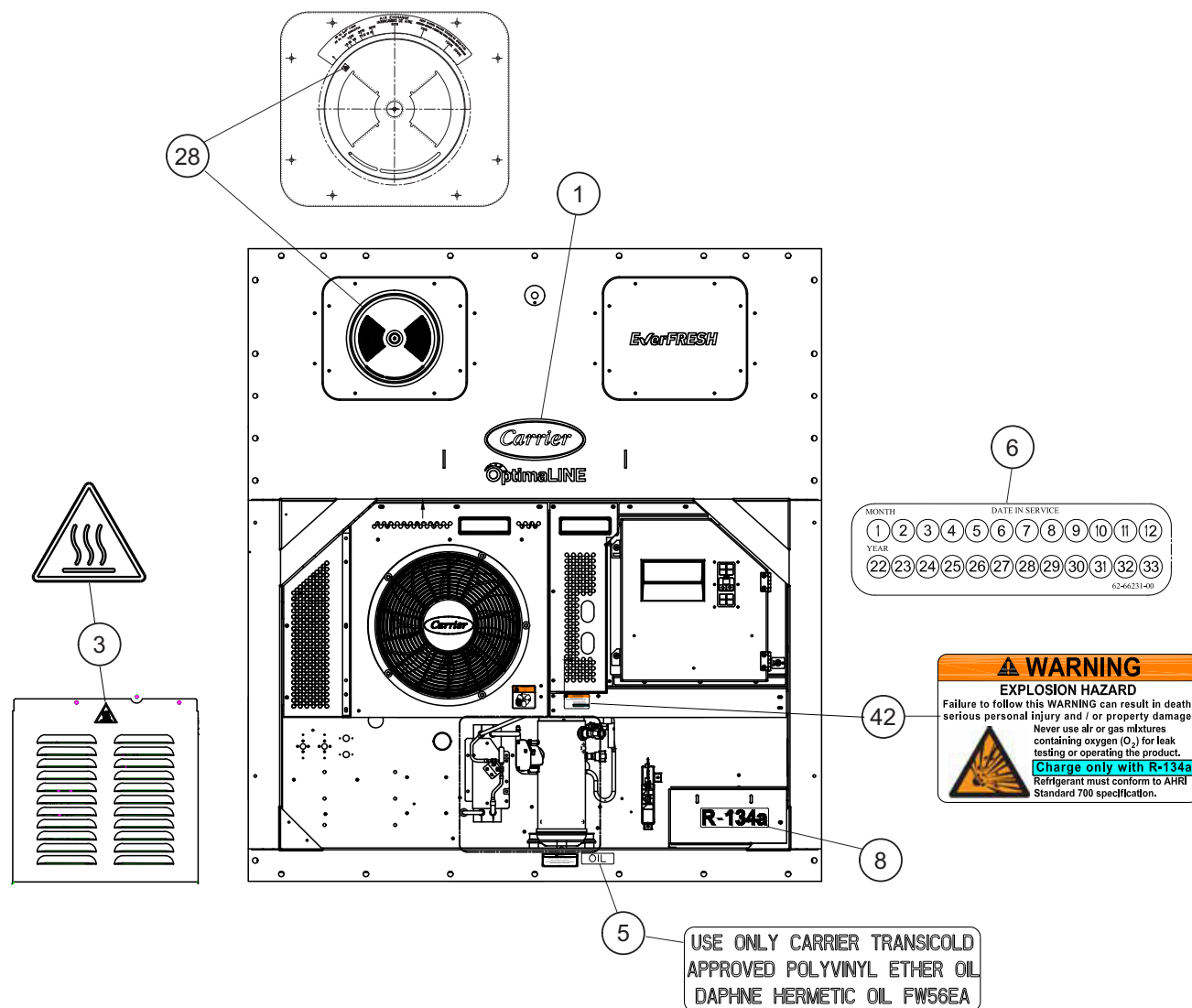
31 Handle Kit



Units without Handles

Item	Part Number	Description	Qty
1	68-18915-00	Panel	1
4	66-U---1--5361-25	Screw, Cap Hex Head	A/R
6	68-18916-00	Cover, Screw Panel	1
	68-18916-01	Cover, Hinged Panel	1
9	66-U---1--5321-7	Washer, Plain	A/R
10	34-06053-00	Washer	A/R

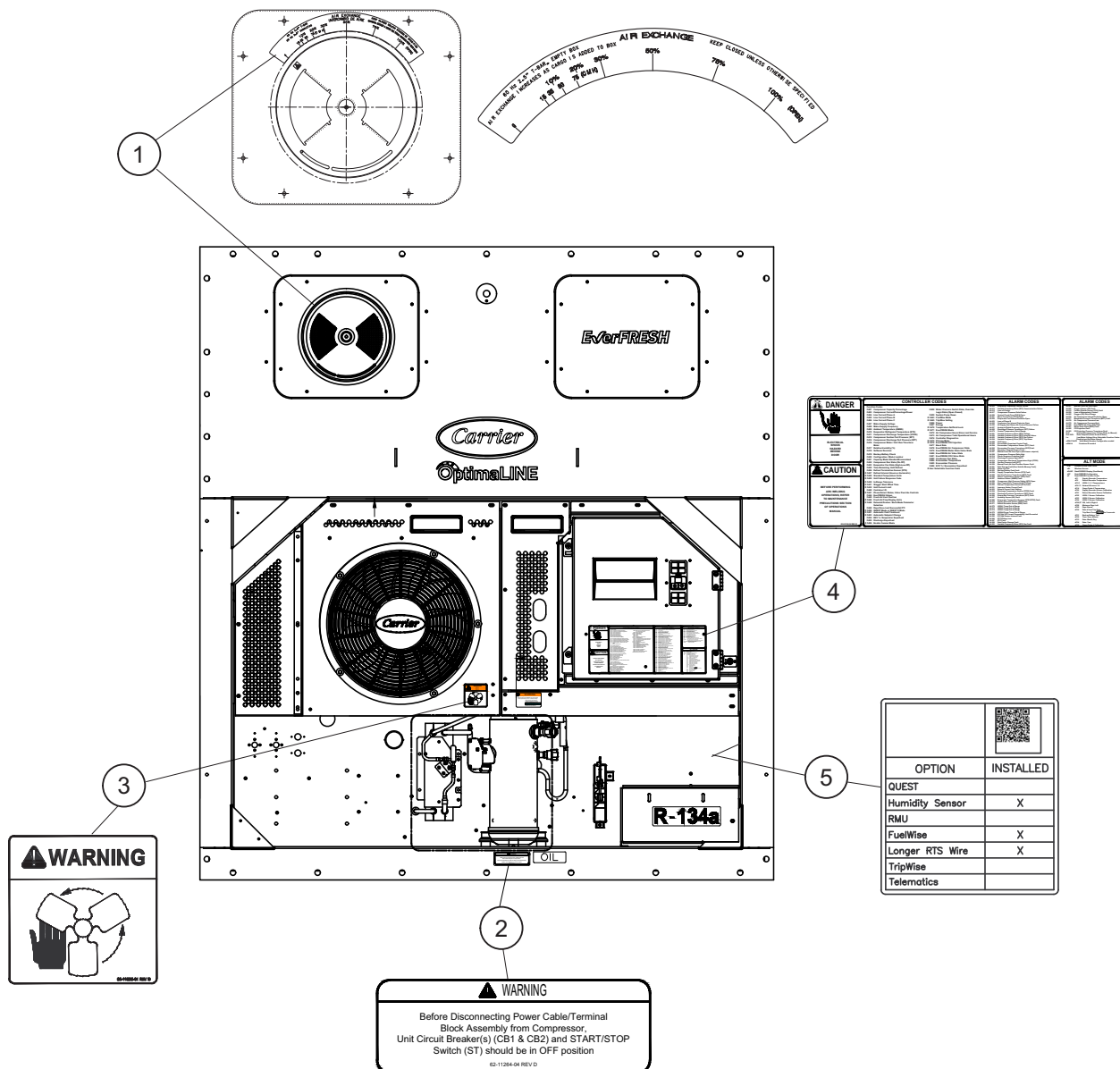
32 Labels and Decals



Common Labels

Item	Part Number	Description	Qty
1	62-12311-00	Label, Carrier OptimaLINE	1
3	62-12307-00	Label, Warning Hot Surface	1
5	62-11263-05	Label, PVE Compressor Oil	1
6	62-66231-00	Label, Date	1
8	62-11933-00	Label, R-134A	1
28	66CH---1--1002-33	Label, ">" Arrow	1
42	62-66081-00	Label, Warning Refrigerant (R-134A)	21

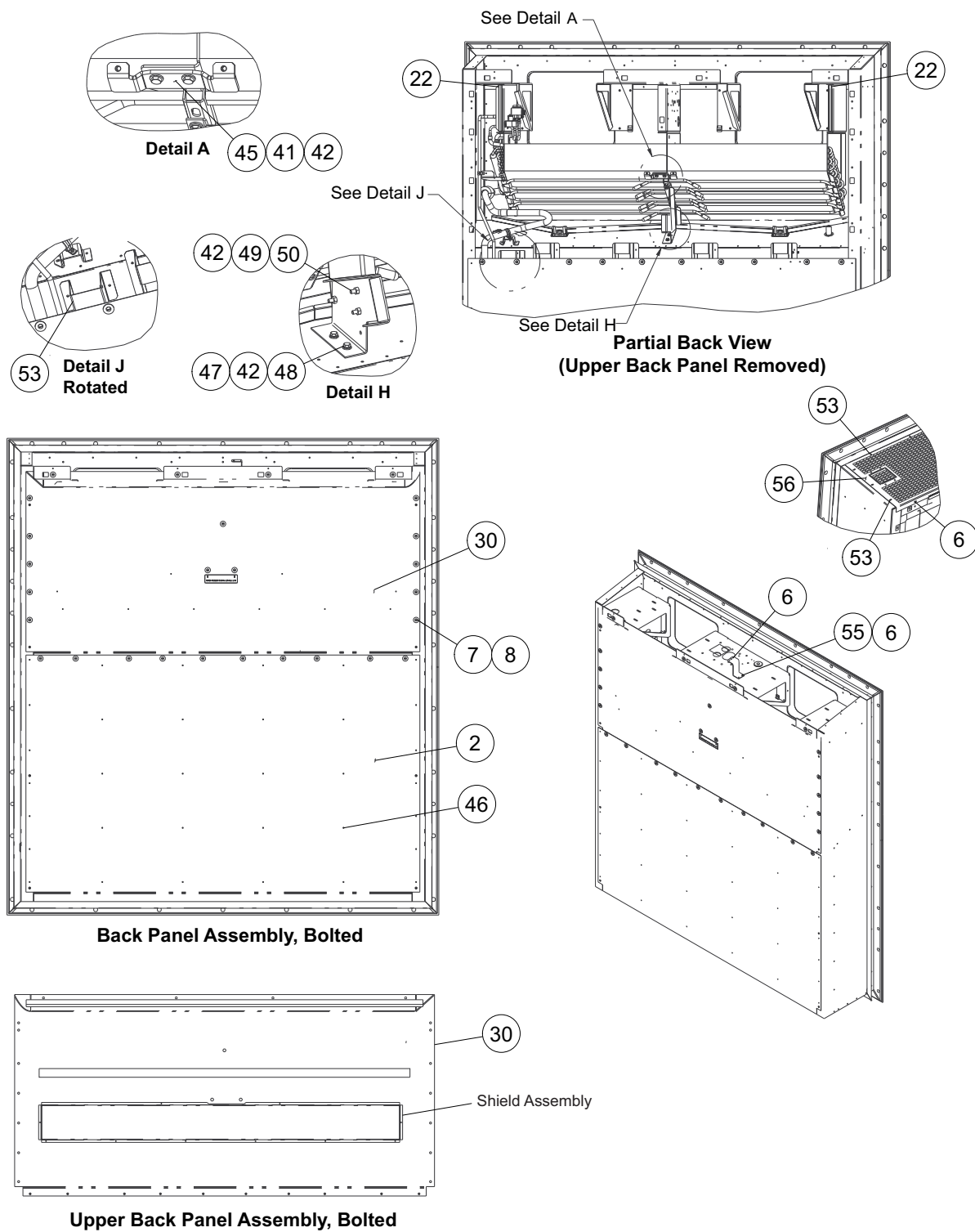
32 Labels and Decals



PID Specific Labels

Item	Part Number	Description	Qty
1	62-02723-00	Label, Upper Fresh Air, English	1
2	62-11264-04	Label, Warning	1
3	62-11936-01	Label, Fan Warning, English	1
4	62-66190-08	Label, Function Codes, English	1
5	62-66205-xx	Label, Options (Part number is PID specific)	1

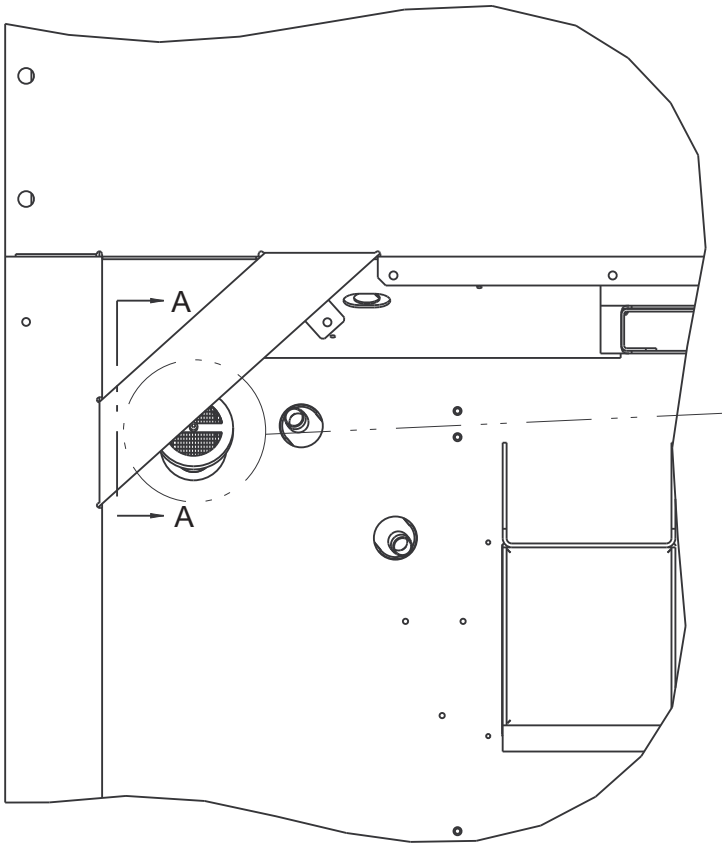
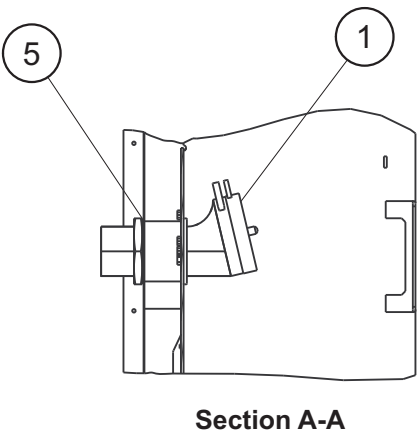
33 Back Panel Assembly



33 Back Panel Assembly

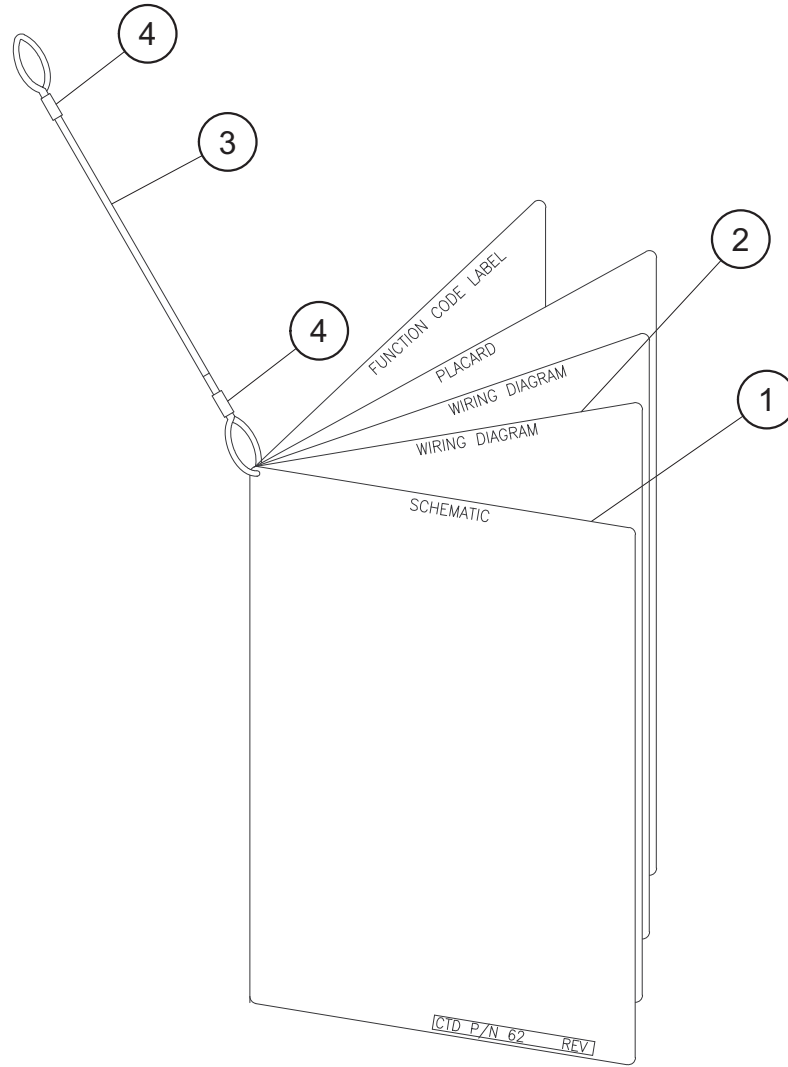
Back Panel - Bolted Aluminum			
Item	Part Number	Description	Qty
2	68-86319-00	Panel, Back	1
6	34-00928-09	Rivet, Blind	A/R
7	69NT--35--2692	Washer, Fender	A/R
8	66-U---1--2403	Screw, Mach TRHD	A/R
22	66-U---1--2593-4	Gasket	A/R
30	79-66060-00	Panel Assembly	1
41	34-00655-04	Screw, Cap HXHD	2
42	66-U---1--5321-3	Washer, Plain	A/R
45	68-17175-00	Bracket	1
46	34-00928-01	Rivet, Blind	A/R
47	68-18023-00	Bracket	1
48	34-06269-12	Screw, Lag	2
	--AA--06JA-170	Screw, Cap Hxhd (PID NT4012 only)	2
49	34-00663-11	Washer, Lock	A/R
50	66-U---1--5361-25	Screw, Cap HXHD	3
53	34-00928-07	Rivet, Blind	A/R
55	68-16521-00	Bracket	1
56	68-86304-00	Grille	1

34 Vacuum Relief Valve



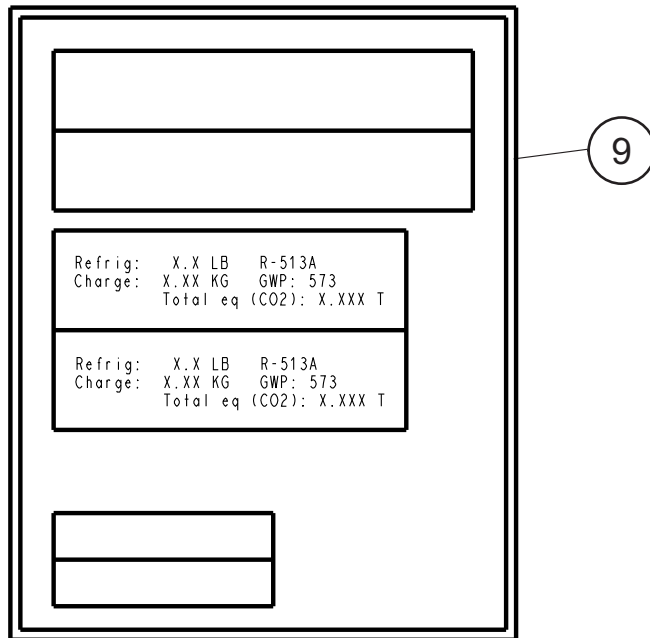
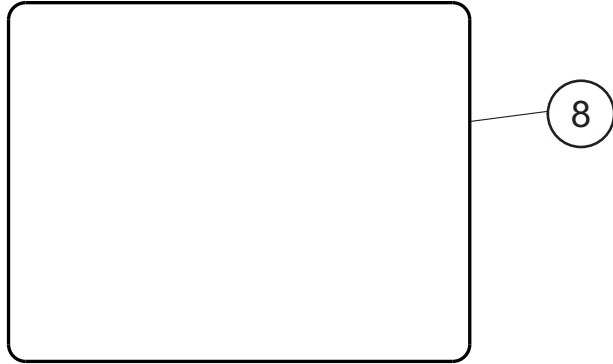
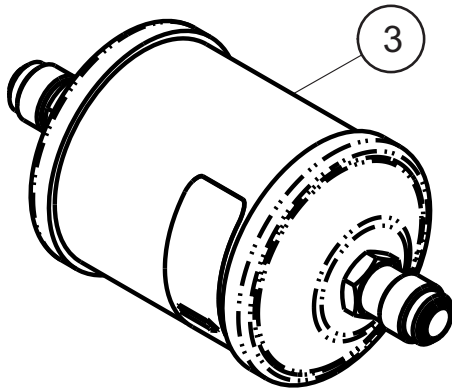
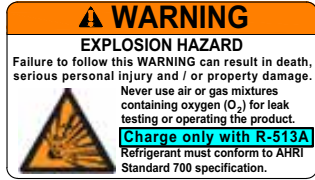
Item	Part Number	Description	Qty
1	40-66616-00	Valve, Vacuum Relief	1
5	42-66617-00	Seal	1

35 Plate Assembly



Item	Part Number	Description	Qty
	79-04317-01	Plate Assembly	1
1	62-12416-00	Plate, Schematic & Diagram	1
2	62-12416-01	Plate, Diagram & Legend	1
3	58-01097-00	Cord, Nylon	1
4	22-66798-00	Connector	2

36 R-513A Conversion Kit



The parts listed below are required for the conversion of a unit to R513A refrigerant.

Item	Part Number	Description	Qty
	76-66719-00	R-513A Conversion Kit - Includes:	1
1	62-66161-20	Label, R-513A	2
2	62-66081-04	Label, Warning, R-513A	2
3	14-00464-20	Filter Drier (includes O-rings)	1
4	46-00058-00	Lubricant	1
NS	42-00032-13	Insulation	2
NS	66-U---1--3882	Wire Tie	4
8	62-10391-00	Label, Nameplate Protector	1
9	62-66261-03	Label, Nameplate, R-513A Service	1

INDEX

Numerics

07-00176-11	1-3, 16-35	22-00119-03	29-58
07-00228-00	16-35	22-00119-04	29-58
07-00229-00	16-35	22-01292-02	26-53
07-00238-00	16-35	22-01613-06	27-55
07-00243-10	16-35	22-01613-07	27-55
07-00294-00	1-2, 16-35	22-01613-13	27-55
07-00294-05	1-2, 16-35	22-01614-06	27-55
07-00295-00	16-35	22-01660-12	27-55
07-00304-00	16-35	22-01660-14	27-55
07-00477-00	16-35	22-01713-56	18-40
07-00569-00	16-35	22-01944-00	27-55
07-00614-00	1-2, 25-50	22-01944-05	27-55
09-00375-00	16-34	22-01944-10	27-55
10-00332-21SV	1-3, 26-53	22-02324-01	29-58
10-00431-00	28-57	22-02336-08	16-34
10-00431-10	28-57	22-02378-00PK10	1-3, 29-58
10-00431-11	26-53	22-02448-02	27-55
10-00439-03	1-3, 26-53	22-04412-00	30-59
10-00526-00	26-53	22-04418-00	28-57
10-00560-01	1-3, 6-15	22-04418-02	27-55
10-01129-07SV	1-3, 16-35	22-04418-03	28-57
10-01129-20	21-44	22-04418-04	27-55
12-00309-08	1-2, 7-17	22-04418-05	27-55
12-00352-11	1-2, 7-17, 9-22	22-04418-06	27-55
12-00352-18	4-11	22-04418-12	27-55
12-00395-01SV	1-3, 27-55	22-04419-00	27-55
12-00433-06RP	18-40	22-04419-02	18-40
12-00433-09RP	1-2, 16-35	22-04419-03	18-40
12-00495-02SV	1-2, 27-55	22-04419-06	27-55
12-00500-01SV	1-2, 1-3, 11-25, 27-55	22-04419-18	27-55
12-00726-20	1-2, 27-55	22-04477-00	27-55
12-00822-00	16-34	22-04544-00	1-3, 27-55
12-00842-04	22-47	22-04545-00	1-3, 27-55
12-00842-08	22-47	22-04546-10	1-2, 6-15
12-50089-02PK4	1-3, 23-48	22-04547-00	28-57
12-50173-00	16-34	22-04548-00	28-57
12-55016	1-2, 16-34	22-50401-00	1-3, 29-58
14-00176-01	11-25	22-50480-00	16-34
14-00222-05	1-3, 9-21	22-50481-00	16-34
14-00393-02SV	1-2, 11-25	22-50482-00	16-34
14-00393-03	1-2, 9-22	22-50485-00	16-34
14-00393-10	1-2, 11-25	22-50486-00	16-34
14-00464-20	1-2, 9-21	22-50487-00	16-34
14-00464-40	9-21	22-66651-00	1-3, 29-58
14-00468-22	1-3, 9-21	22-66654-00	1-3
14-00469-22	1-3, 9-21	22-66697-113	28-57
18-10198-01	4-11	22-66697-115	19-42
18-10198-02	4-11	22-66697-25	26-53
18-10198-25	4-11	22-66793-00	26-53, 30-59
18-10201-20	1-2, 6-15	22-66793-02	6-15
		22-66793-03	6-15

22-66794-00	26-53, 30-59	34-06212-17	3-8
22-66794-02	6-15	34-06243-00	28-57
22-66794-03	6-15	34-06251-01	25-50
22-66795-20PK10	1-3, 29-58	34-06269-12	15-32, 33-65
22-66798-00	24-49, 35-67	34-06277-07	6-15
24-00006-20	1-2, 12-26	34-06354-00	26-53
30-00554-00	4-11	34-06407-00	6-15
30-00554-20	4-11	34-66627-00	3-8
30-00558-00	4-11	34-66644-00	3-8
30-00558-01	4-11	34-66682-00	3-8
30-00558-20pk10	4-11	34-66687-11	18-41
30-00558-21	4-11	34-66698-00	9-21
30-00558-22	4-11	38-00620-01	1-2, 8-19
34-00373-51	7-17	38-00626-00	1-2, 10-23
34-00373-52	11-25	40-00168-02	7-17
34-00616-06	10-23	40-00520-02	7-17
34-00655-04	20-43, 33-65	40-00520-03	7-17, 9-21
34-00655-08	3-8, 10-23, 26-53	40-00542-00	7-17
34-00655-10	12-26, 14-28, 15-32	40-00542-01	7-17, 9-21
34-00655-18	7-17	40-00583-18	1-2, 7-17
34-00663-07	26-53	40-00662-00	7-17
34-00663-09	25-50, 26-53, 30-59	40-00665-09	1-3, 7-17
34-00663-11	3-8, 10-23, 11-25, 12-26, 33-65	40-00790-00	4-11
34-00663-17	6-15	40-00790-01	4-11
34-00667-11	19-42	40-00792-00	4-11
34-00667-12	8-19	40-01124-00	7-17
34-00792-07	15-33	40-66615-00	34-66
34-00795-09	7-17	40-66628-03	11-25
34-00795-17	10-23	40-66629-00	11-25
34-00928-01	19-42, 33-65	42-00032-13	9-22
34-00928-07	33-65	42-00032-16	17-38
34-00928-09	33-65	42-00296-01	2-7
34-00928-13	5-12	42-00327-00	2-7
34-00928-20	2-7, 20-43	42-00384-02	7-17
34-01142-01	19-42	42-00384-04	7-17
34-01178-22	17-38, 26-53	42-00407-00	2-7
34-01178-23	17-38	42-00425-109	11-25
34-01181-01	8-19	42-00425-112	7-17
34-06053-00	6-15, 7-17, 9-21, 15-32, 17-38, 18-41, 31-60	42-00425-169	7-17
34-06053-02	6-15, 8-19	42-00425-176	7-17
34-06053-03	17-38	42-00570-00	15-32
34-06053-05	6-15, 7-17, 9-21, 15-33, 18-41, 24-49	42-00741-00	18-41
34-06053-13	26-53	42-00805-06	9-22
34-06053-15	15-33	42-00838-00	3-8
34-06053-18	3-8	42-66008-01	17-38
34-06053-19	2-7	42-66617-00	5-12, 34-66
34-06053-20	6-15	44-00285-54	7-17
34-06053-29	6-15	44-00361-01	15-33
34-06107-00	18-41	44-00370-03	6-15, 9-21, 11-25, 15-33
34-06142-00	23-48, 24-49	44-00370-04	6-15, 9-21
34-06169-00	18-41	44-00370-08	11-25
34-06185-01	2-7	44-00391-00	18-40
		44-00477-00	18-41

44-01041-04	17-38	58-04539-16	15-33
44-66608-01	15-32	58-04539-24	15-33
46-00025-09	1-2, 7-17	58-04539-25	15-33
46-00058-00	9-22	58-04539-26	15-33
54-00648-20	1-2, 10-23	58-04935-00	15-32
54-00739-20	1-2, 8-19	58-04954-00	18-41
56-08645-00	7-17	58-04968-00	15-32
56-08784-00	7-17	58-04968-03	15-33
56-09065-00	15-32	58-04980-00SV	8-19
56-09087-00	11-25	58-04990-00	15-32
56-09141-00	11-25	58-05064-00	15-33
56-09725-00	11-25	58-05145-00	18-40
56-09726-00	11-25	58-05169-00	17-38, 25-50
56-09824-00	9-21	58-66684-00	5-12
56-09865-00	7-17	58-66684-01	5-12
56-09866-00	7-17	58-66689-00	26-53
56-09868-00	11-25	58-66700-00	26-53
56-09869-00	7-17	58-66796-00	11-25
56-09870-00	7-17	62-02723-00	32-63
56-09872-00	9-21	62-02723-15	2-7
58-00065-14	11-25	62-10530-47	26-53
58-00065-56	15-32	62-10530-48	26-53
58-00065-71	5-12	62-10930-00	2-7
58-00065-95	7-17	62-11263-05	32-62
58-00616-05	15-33	62-11264-04	32-63
58-00616-13	15-33	62-11270-26	17-38
58-00616-19	15-33	62-11275-00	23-48
58-00616-20	15-33	62-11731-00	21-44
58-00701-03	19-42	62-11750-00	11-25
58-00701-14	17-38	62-11933-00	32-62
58-01097-00	35-67	62-11936-01	32-63
58-04026-07	15-33	62-12307-00	32-62
58-04026-107	30-59	62-12310-01	22-47
58-04026-113	8-19	62-12311-00	32-62
58-04026-115	5-12	62-12416-00	35-67
58-04026-153	15-33	62-12416-01	35-67
58-04026-32	19-42	62-66081-00	32-62
58-04026-38	15-33	62-66190-00	32-63
58-04101-00	18-41	62-66205-41	32-63
58-04101-02	18-41	62-66231-00	32-62
58-04127-03	5-12	65-00232-00	1-3, 9-21
58-04170-01	5-12	66CH---1--1002-33	2-7, 32-62
58-04202-02	15-33	66CH---1--1172-2	15-33
58-04246-00	26-53	66CH---1--1172-24	26-53
58-04273-00	17-38	66CH---1--1172-26	17-38
58-04276-00	15-32	66CH---1--1172-34	26-53
58-04277-00	27-55	66CH---1--1172-43	15-33, 26-53
58-04279-00	17-38	66CH---1--1172-87	19-42
58-04315-00	15-33	66-U-1---1--5321-8	25-50
58-04316-00	15-32, 17-38, 28-57	66-U---1--1571-3	11-25, 15-32
58-04321-31	17-38	66-U---1--1571-33	17-38
58-04366-00	18-41	66-U---1--2403	18-40, 33-65
58-04508-10	15-32	66-U---1--2403-1	18-41

66-U---1--2552-185	2-7, 3-8	68-17145-05	14-28
66-U---1--2583	29-58	68-17145-08	14-28
66-U---1--2593-4	33-65	68-17145-13	14-28
66-U---1--3632-27	7-17	68-17154-00	15-32
66-U---1--3803	26-53	68-17175-00	33-65
66-U---1--3882	22-47	68-17188-00	15-32
66-U---1--3882-8	7-17	68-17196-00	15-33
66-U---1--5321-13	2-7	68-17345-00	15-32
66-U---1--5321-2	26-53	68-17405-00	26-53
66-U---1--5321-3	11-25, 12-26, 14-28, 15-32, 19-42, 20-43, 33-65	68-17419-05	15-32
66-U---1--5321-5	6-15	68-17419-09	15-32
66-U---1--5321-7	6-15, 7-17, 9-21, 15-33, 17-38, 26-53, 30-59, 31-60	68-17578-00	11-25
66-U---1--5321-8	5-12, 6-15, 13-27, 15-33, 17-38, 18-40, 22-46, 24-49, 26-53	68-17783-00	28-57
66-U---1--5321-9	6-15	68-17939-00	15-33
66-U---1--5361	8-19	68-17947-04	15-32
66-U---1-5361-11	12-26	68-17958-00	15-33
66-U---1--5361-25	6-15, 8-19, 9-21, 11-25, 14-28, 15-33, 17-38, 20-43, 30-59, 31-60, 33-65	68-17959-00	15-33
66-U---1--5361-47	15-33	68-18023-00	33-65
66-U---1--5361-8	6-15	68-18031-00	15-33
66-U---1--5362-2	2-7	68-18032-00	12-26
66-U---1--5371	26-53	68-18042-00	15-32
66-U---1--5371-10	5-12, 7-17, 13-27	68-18285-00	15-33
66-U---1--5371-6	6-15, 9-21, 11-25, 15-33, 17-38, 18-40, 26-53	68-18286-02	15-33
66-U---1--5371-7	11-25, 15-33, 17-38, 18-40, 22-46, 23-48, 24-49, 26-53, 30-59	68-18355-00	20-43
66-U---1--5381-1	11-25	68-18804-00	15-32
66-U---1--5381-4	11-25	68-18804-02	15-32
66-U---1--5562-19	17-38	68-18808-00	9-21
66-U---1--5562-2	2-6, 14-28	68-18809-00	7-17
66-U---1--5562-7	19-42	68-18915-00	31-60
66-U---1--6651-19	26-53	68-18916-00	31-60
66-U---1--7842-12	1-2, 26-53	68-18916-01	31-60
66-U---1--7842-6	26-53	68-19189-00	9-21
66-U---1--7842-7	26-53	68-19369-00	15-32
66-U---1--8292-1	27-55	68-19506-00	15-32
66-U---1--9592-13	19-42	68-19506-02	15-32
66-U---1--9752	21-44	68-19528-00	6-15
68-11989-00	3-8	68-19530-00	6-15
68-12933-07	2-7	68-86230-00	19-42
68-12940-05	2-6	68-86304-00	33-65
68-14456-01	30-59	68-86319-00	33-65
68-15998-00	7-17	68-86542-04	15-32
68-16498-00	20-43	68-86552-02	15-32
68-16521-00	33-65	68-86553-02	15-32
68-16696-00	15-32	68-86554-00	15-32
68-16892-00	11-25	68-86554-03	15-32
68-17021-00	24-49	69NT--35--2692	33-65
68-17089-00	11-25	69NT--35--2692-1	3-8, 8-19, 10-23, 12-26, 14-28, 15-32, 17-38
68-17118-00	15-33	69NT--35--2692-4	26-53
		69NT--35--3452	8-19
		69NT--35--3452-1	8-19
		69NT--35--3452-2	8-19
		69NT--35--3452-3	8-19
		69NT--35--8012	5-12

69NT--35--9073-1 26-53
 69NT--43---295 10-23
 74-66697-00 4-11
 76-00675-04 1-2, 13-27
 76-00816-00 1-2, 1-3, 27-55
 76-00932-00 1-3, 6-15
 76-66665-00 1-3, 2-7
 76-66678-01 4-11
 76-66683-00 1-2, 10-23
 76-66694-00 1-2, 13-27
 76-66705-00 1-2, 27-55
 76-66719-00 1-3
 79-01697-06SV 1-3, 3-8
 79-04244-02, 79-04244-03, 79-04244-04 20-43
 79-04317-01 35-67
 79-04318-00 9-21
 79-04451-00 1-2
 79-66017-00 18-40, 18-41
 79-66060-00 33-65
 79-66081-21 1-2, 25-50
 79-66669-05 1-3, 16-35, 18-40
 79-666743-01 23-48
 79-66743-00 23-48
 79-66743-02 24-49
 79-66747-00 14-28
 79-66771-01 2-6
 79-66775-00 23-48
 79-66780-01 1-3, 2-6
 79-66787-01 4-11
 81-04237-20 1-2, 9-22
 81-04350-20 1-2, 11-25
 81-04410-00 9-21
 86-04956-00 12-26
 86-05299-01 20-43
 86-05315-00 20-43
 86-05315-01 20-43
 86-05315-02 20-43
 86-05343-00 26-53
 86-05387-01 15-33
 86-05571-00 15-32
 86-05571-04 15-32
 86-05571-05 15-32
 86-66756-00 18-41
 99TS0440CK001500 7-17

A

--AA--06JA-170 33-65
 Adapter Cable 16-34
 Ambient Temperature Sensor (AMBS) 1-2, 27-55
 --AT--39JA-171 19-42, 22-46
 AU27JR131 18-40
 --AU--27JR-171 19-42, 22-46
 AU27JR171 17-38

B

Battery, Real Time Clock 16-34

C

Circuit Breaker (CB1) 1-2, 26-53
 Compressor 1-2
 Compressor Discharge Temperature Sensor (CPDS) 1-2
 Condenser Coil, MCHE 1-2
 Condenser Fan 1-2, 8-19
 Condenser Fan Motor, Dual Speed 8-19
 Condenser Fan Motor, Single Speed 1-2
 Controller Battery, Battery Pack 1-2, 25-50
 Controller Battery, Smart Battery Charger 1-2, 25-50
 Controller Harness Test Tool 16-34
 Controller Module, ML5 1-2, 16-34

D

Defrost Temperature Sensor (DTS) 1-2, 27-55
 Discharge / High Side Service Valve 1-2
 Discharge Pressure Transducer (DPT) 1-2
 Display Module 1-2, 16-35, 18-40

E

--EC--39DM-070 7-17
 Economizer Expansion Valve (EXV) 1-2
 Economizer Heat Exchanger Assembly 1-2
 Economizer Pressure Transducer (ECP) 1-2
 Economizer Solenoid Valve (ESV), Coil 1-2
 Economizer Temperature Sensor (ECT) 1-2
 Electronic Expansion Valve (EEV), Body 1-2, 11-25
 Electronic Expansion Valve (EEV), Coil 1-2, 11-25
 Evaporator Coil 1-2, 11-25
 Evaporator Coil Heater 1-2, 12-26
 Evaporator Fan 1-2, 10-23
 Evaporator Fan Motor 10-23
 Evaporator Fan Motor (EM1, EM2) 1-2
 Evaporator Pressure Transducer (EPT) 1-2, 27-55
 Evaporator Stator and Stator Ring 1-2
 Evaporator Temperature Sensor (ETS1/ETS2) 1-2, 11-25, 27-55
 EverFRESH Air Compressor (EAC) 4-11

F

Filter Drier 1-2

G

Gauge Set, Manifold - English 1-2, 16-35
 Gauge Set, Manifold - Metric 1-2, 16-35

H

Heat Termination Thermostat (HTT) 1-2, 27-55
 Heater 1-2, 12-26
 High Pressure Switch (HPS) 1-2

Humidity Sensor (HS) 1–2, 13–27

I

Indicator, Sightglass 1–3, 9–21

K

Key Pad Assembly 1–3, 16–35, 18–40

King Valve 1–3

L

Liquid Line Service Valve 1–3

M

Micro Flash Drive 16–34

P

Panel Assembly, Standard Evaporator Panel 1–3, 3–8

Panel Assembly, Upper Air Exchange 1–3

Power Cable 460V, 10 Gauge 1–3, 29–58

Power Cable 460V, 11 Gauge 1–3, 29–58

Power Cable Assembly 1–3

Power Plug 1–3, 29–58

Power Plug, Rotating 1–3

R

Return Recorder Sensor (RRS) 1–3, 27–55

Return Temperature Sensor (RTS) 1–3, 27–55

S

Sightglass 1–3, 9–21

Suction / Low Side Service Valve 1–3

Suction Pressure Transducer (SPT) 1–3, 27–55

Supply Recorder Sensor (SRS) 1–3, 27–55

Supply Temperature Sensor (STS) 1–3, 27–55

T

Toggle Switch Start / Stop (ST) 1–3, 16–35

Transformer, Control 1–3, 26–53

Transformer, Current Sensing 1–3, 26–53

U

USB Flash Drive 16–34

USDA Sensor, 4 Pack 1–3, 23–48

V

Vacuum Pump 1–3, 16–35

Variable Frequency Drive (VFD) 1–3

Variable Frequency Drive (VFD) Fan 1–3

Vent Position Sensor (VPS) 1–3, 2–7

W

Wire Harness, Low Voltage Switch 1–3



Carrier Transicold Division,
Carrier Corporation
P.O. Box 4805
Syracuse, NY 13221 USA

www.carrier.com/container-refrigeration/