

PFH™ Condensing Unit: R-407C Parts Manual



While every precaution has been taken to ensure accuracy and completeness in this manual, Vertiv Co. assumes no responsibility, and disclaims all liability for damages resulting from use of this information or for any errors or omissions.

© 2007 Vertiv Co. All rights reserved throughout the world. Specifications subject to change without notice.

® Vertiv and the Vertiv logo are the registered trademarks of the Vertiv Co.

Table of Contents

1. Product Description	1
2. Model Definition.....	2
3. Fan Section	3
3.1. Dual Coil	3
3.2. Standard	4
4. Compressor Section	5
4.1.1. ITEM 7, 9 – Valve Relief, Kit Comp Mtg	5
4.1.2. ITEM 8 – Coil	5
4.1.3. ITEM 10 – Receiver.....	7
4.1.4. ITEM 13 - Compressor	8
5. Piping Section.....	10
5.1. 1-2T	10
5.2. 2-3.5T	11
5.3. 3-5T	12
5.4. 5T	13
5.5. 8T	14
5.6. Piping Assembly	15
5.6.1. Discharge Assembly.....	15
5.6.2. HGBP/LIV Assembly	16
5.6.3. Suction Assembly	16
5.6.4. Liquid Assembly	17
5.6.5. HPCV Bypass	17
6. Electrical Section	18
6.1. 95° Ambient (1-5T)	18
6.2. 95° Ambient (8T)	19
6.3. 105° Ambient (2-5T)	20
6.4. Quiet Line	21
7. Exterior Section	22
7.1. 1.5 – 5T.....	22
7.2. 5-8T	22
8. Crankcase Heater.....	24
8.1. 1-1.5T	24
8.2. 5-8 Ton.....	25
9. Parts Gallery	26
10. Revision Page	29

1. Product Description

Prop Fan Condensing Units

These units are designed to be used in conjunction with Minimate2, Datamate and Challenger 3000 evaporator units. There are several different configurations available depending on the specific application requirements (see the following descriptions)

Base System 95° (35°C) Ambient Models

These models are designated to provide catalog capacity of the appropriate evaporator section up to 95°F (35°C) outside ambient temperature. These include a high efficiency scroll compressor, condenser coil, prop fan, high head pressure switch, Lee-Temp head pressure control, filter drier and sight glass.

95°F (35°C) Ambient Models with HGBP

These models contain all of the base model components plus a HGBP valve to maintain system operation at low load conditions.

105°F (40°C) Ambient Models

These models contain similar components to the base models except the coils and the fans are sized to provide catalog capacity of the appropriate evaporator section up to 105°F (40°C) outside ambient temperature.

105°F (40°C) Ambient Models with HGBP

These models contain all of the to 105°F (40°C) Ambient Model components plus a HGBP valve and liquid quenching valve to maintain system operation at low load conditions.

Quiet Line Models

These models contain similar components to the base models except the coils and fans are sized to provide catalog capacity of the appropriate evaporator section up to 95°F (35°C) outside ambient temperature with a noise level of less than 58 dba.

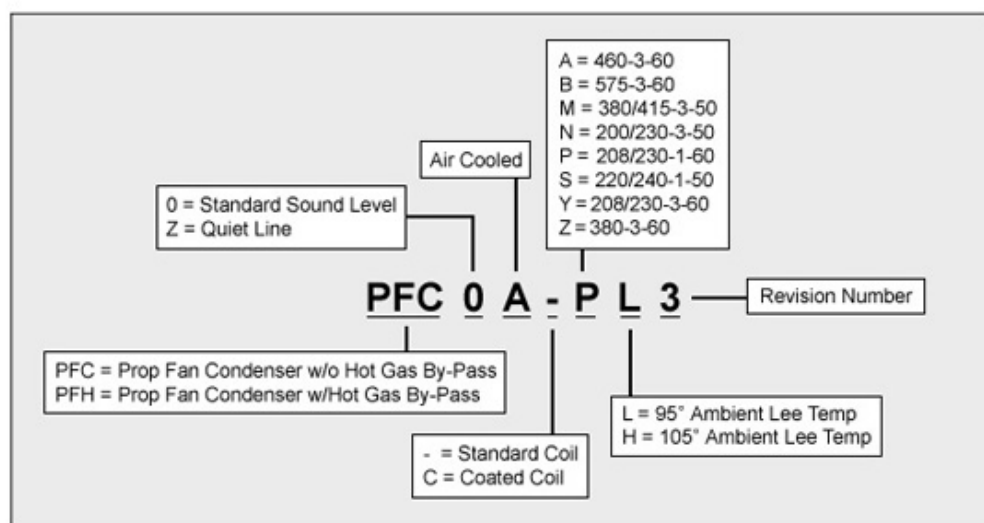
Optional Equipment

Coated Coil

This option provides a phenolic coating for the condenser coil (extended lead time is required for this option, consult factory).

277 Volt Step Down Transformer (37.5 amps) 277 Volt Step Down Transformer (37.5 amps) for condensing modules on 277 volt power. The transformer is epoxy encapsulated and is suitable for indoor/outdoor installation.

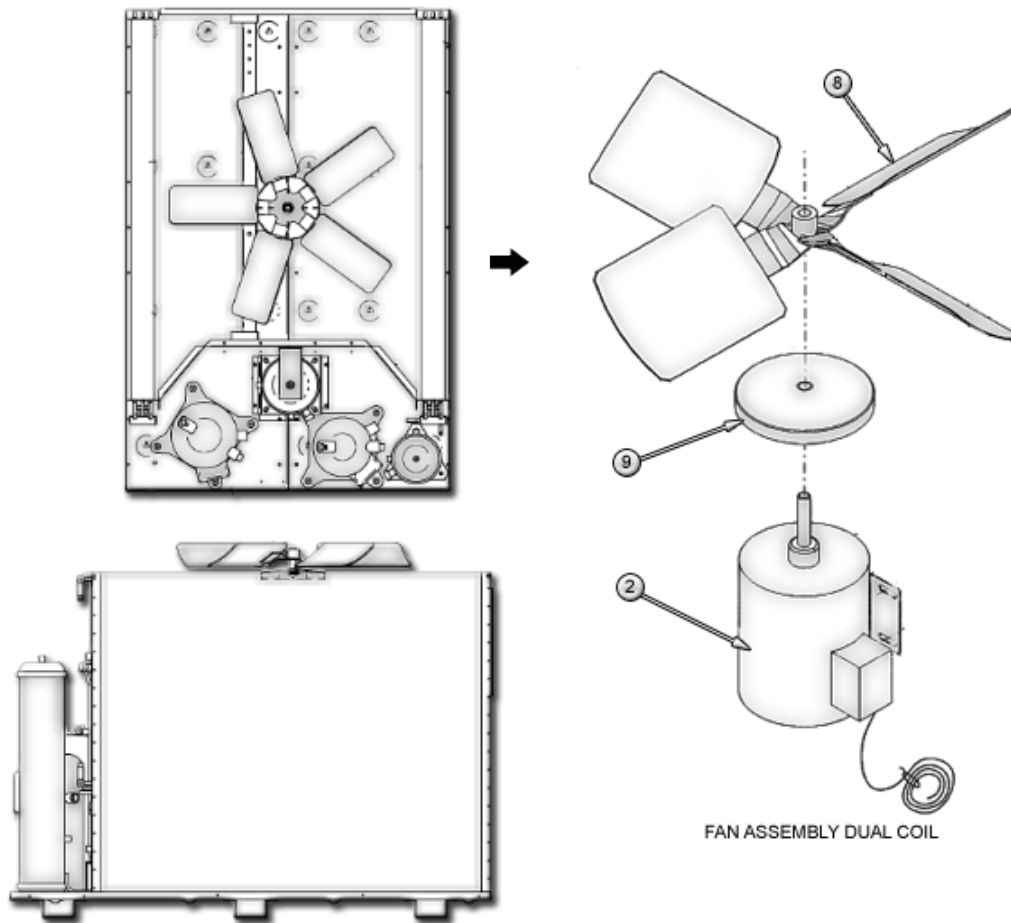
2. Model Definition



13A = 1 Ton 50Hz	26A = 2 Ton 50Hz	41A = 3.5 Ton 50Hz	66A = 5 Ton 50Hz
14A = 1 Ton 60Hz	27A = 2 Ton 60Hz	42A = 3.5 Ton 60Hz	67A = 5 Ton 60Hz
19A = 1.5 Ton 50Hz	36A = 3 Ton 50Hz	53A = 4.5 Ton 50Hz	95A = 8 Ton 50Hz
20A = 1.5 Ton 60Hz	37A = 3 Ton 60Hz	54A = 4.5 Ton 60Hz	96A = 8 Ton 60Hz

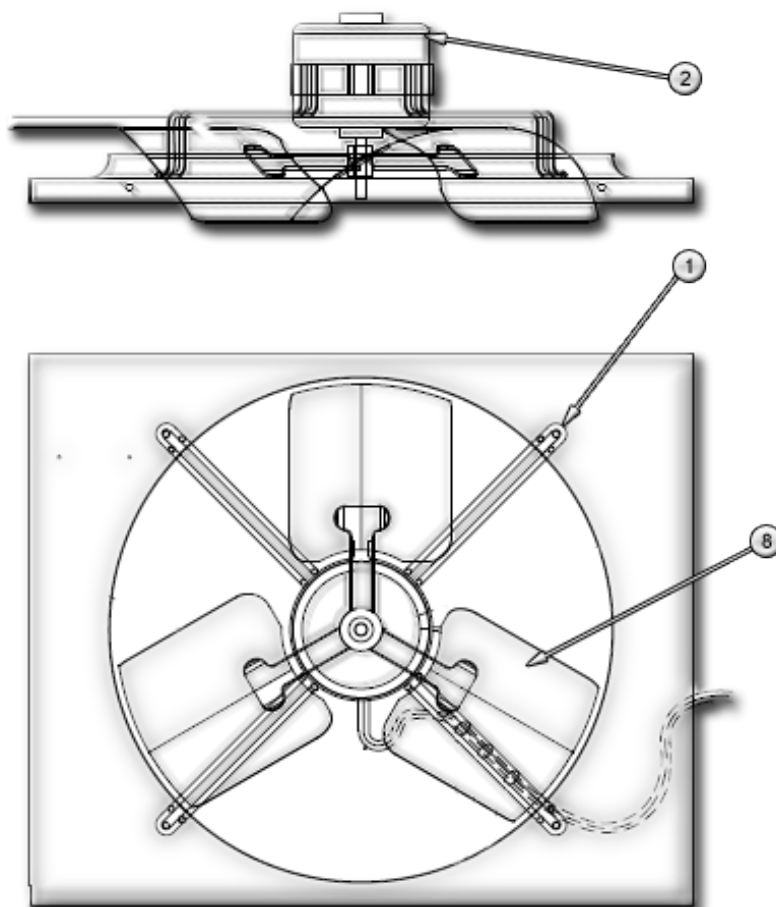
3. Fan Section

3.1. Dual Coil



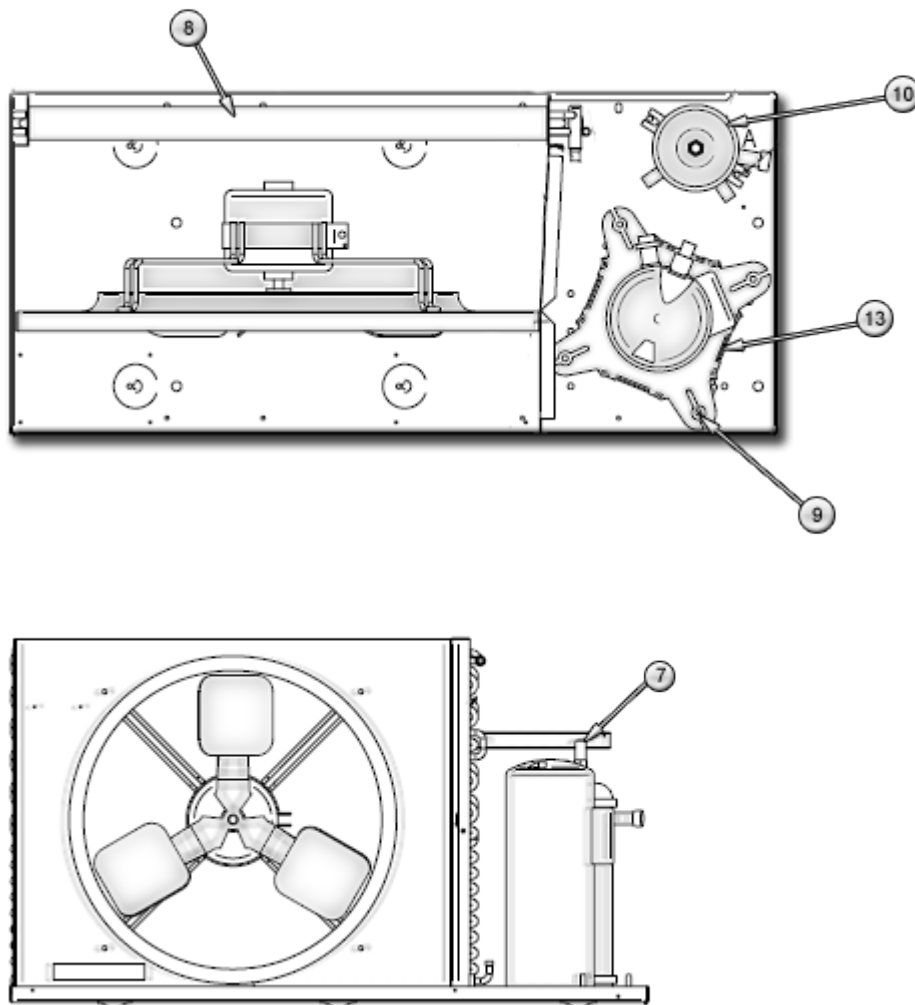
Item	Part #	Description	Voltage	5 Ton	8 Ton
2	1C24870P1	MOTOR .25HP 230/460-3-50/60	208/230/60	1	
			460/60/3	1	
	1C24870P2	MOTOR .25HP 575-3-60	575/60/3	1	
	B67-0010	MOTOR .75HP 208/230/460-3-5/6	208/230/60/3	1	1
			380/415/50/3	1	1
			380/60/3	1	
			460/60/3	1	1
			466	1	
	1C16992P1	MOTOR .75HP 575-3-60	600/60/3	1	
			575/60/3		1
8	155364P1	FANBLADE 5/8 BORE 26 D 24 P(5)		1	1
	D67-003A	FANBLADE 5/8 BORE 26 D 26 P		1	
9	D-1830	SLINGER RING CONDENSER 5/8		1	1

3.2. Standard



Item	Part #	Description	1-1.5T	2T	3-5T	5T
1	1C21123P1	PLATE MTG MOTOR DATAMATE	1	1	1	1
	127906P1	PLATE MTG MTR			1	1
2	1D21122P1	MOTOR .20HP 205//236-1-50/60	1	1	1	
	1D21122P2	MOTOR .20HP 385/415/466-1		1	1	
	148219P1	MOTOR .20HP8P2S 200/46050/60		1	1	
	127902P1	MOTOR .50HP 205//236-1-50/60		1	1	1
	127902P2	MOTOR .50HP 385//466-1-50/60		1	1	1
	127902P3	MOTOR .50HP 575-1-60			1	1
8	148229P1	FANBLADE 1/2 BORE 18D 26P	1	1		
	148230P1	FANBLADE 1/2 BORE 20D 24P		1	1	
	148231P1	FANBLADE 1/2 BORE 24D 24P			1	1

4. Compressor Section



4.1.1. ITEM 7, 9 – Valve Relief, Kit Comp Mtg

Item	Part #	Description	1-1.5T	2T	3-5T	5T	8T
7	168197P1	VALVE RELIEF 440 # 1/4NPT	1	1	1	1	
9	1A17649P1	KIT COMP MTG SPRING	1	1	1	1	2

4.1.2. ITEM 8 – Coil

1 Ton

Part #	Description	Voltage	13A	14A
148205G1	COIL COND PFC A 1/1.5/2TPHENIC	208/230/60/1		1
148205P1	COIL COND PFC A 3CY1002D-22X27	208/230/60/1		1
		220/240/50/1	1	

1.5 Ton

Part #	Description	Voltage	19A	20A
148205G1	COIL COND PFC A 1/1.5/2TPHENIC	208/230/60/1		1
148205P1	COIL COND PFC A 3CY1002D-22X27	208/230/60/1		1
		220/240/50/1	1	

2 Ton

Part #	Description	Voltage	26A	27A
148205G1	COIL COND PFC A 1/1.5/2TPHENIC	208/230/60/1		1
148205P1	COIL COND PFC A 3CY1002D-22X27	208/230/60/1		1
		220/240/50/1	1	
		380/415/50/3	1	
148206G1	COIL COND PFC A PHENOLIC	208/230/60/1		1
148206P1	COIL COND PFC A 3CY1002D-30X37	208/230/60/1		1
		380/415/60/3	1	

3 Ton

Part #	Description	Voltage	36A	37A
148206G1	COIL COND PFC A PHENOLIC	208/230/60/1		1
		208/230/60/3		1
		460/60/3		1
		600/60/3		1
148206P1	COIL COND PFC A 3CY1002D-30X37	208/230/60/1		1
		220/50/1	1	
		380/50/3	1	
		460/60/3		1
		600/60/3		1
148207G1	COIL COND PFC A 36X42PHENOLIC	208/230/60/3		1
		208/230/60/1		1
		380/3/50	1	
		460/60/3		1
148207P1	COIL COND PFC A 3CY1203D-36X42	208/230/60/1		1
		220/50/1	1	
		380/50/3	1	
		460/60/3		1
		600/60/3		1

3.5 Ton

Part #	Description	Voltage	41A	42A
148206G1	COIL COND PFC A PHENOLIC	208/230/60/3		1
		460/60/3		1
148206P1	COIL COND PFC A 3CY1002D-30X37	208/230/60/3		1
		380/415/50/3	1	
		460/60/3		1
		600/60/3		1
148207G1	COIL COND PFC A 36X42PHENOLIC	208/230/60/3		1
		460/60/3		1
148207P1	COIL COND PFC A 3CY1203D-36X42	208/230/60/3		1
		460/60/3		1

5 Ton

Part #	Description	Voltage	66A	67A
148207G1	COIL COND PFC A 36X42PHENOLIC	208/230/60/3		1
		460/60/3		1
		600/60/3		1
		385/415	1	
148207P1	COIL COND PFC A 3CY1203D-36X42	200/230/50/3	1	
		208/230/60/3		1
		380/415/50/3	1	
		380/60/3		1
		460/60/3		1
		600/60/3		1
148208G1	COIL PFC A 3CY2403D-36X42 PHEN	208/230/60/3	2	2
		460/60/3		2
		466		2
		600/60/3		2
148208P1	COIL COND PFC A 3CY1403D-36X42	208/230/60		2
		208/230/60/3	2	2
		380/415/50/3	2	
		380/60/3		2
		460/60/3		2
		575/60/3		2
		600/60/3		2

8 Ton

Part #	Description	Voltage	95A	96A
--------	-------------	---------	-----	-----

Part #	Description	Voltage	95A	96A
148208G1	COIL PFC A 3CY2403D-36X42 PHEN	208/230/60/3		1
		380-415/50/3	1	
		460/60/3		1
		575/60/3		1
148208G2	COIL PFC 3R14F 36X42 SPLT PHEN	208/230/60/3		1
		380-415/50/3	1	
		460/60/3		1
		575/60/3		1
148208P1	COIL COND PFC A 3CY1403D-36X42	208/230/60/3		1
		380-415/50/3	1	
		460/60/3		1
		575/60/3		1
148208P2	COIL COND PFC 3R14F 36X42 SPLT	208/230/60/3		1
		380-415/50/3	1	
		460/60/3		1
		575/60/3		1

4.1.3. ITEM 10 – Receiver

1 Ton

Part #	Description	Voltage	13A	14A
148213P3	RECVR V 4X13 .38IN/OUT 450 # SG	208/230/60/1		1
		220/240/50/1	1	

1.5 Ton

Part #	Description	Voltage	19A	20A
148213P3	RECVR V 4X13 .38IN/OUT 450 # SG	220/240/50/1	1	
		208/230/60/1		1

2 Ton

Part #	Description	Voltage	26A	27A
148213P1	RECVR V 5X14 .50IN/OUT 450 # SG	208/230/60/1		1
		380/415/60/3	1	
148213P3	RECVR V 4X13 .38IN/OUT 450 # SG	208/230/60/1		1
		220/240/50/1	1	
		380/415/50/3	1	

3 Ton

Part #	Description	Voltage	36A	37A
148213P1	RECVR V 5X14 .50IN/OUT 450 # SG	208/230/60/1		1
		220/50/1	1	
		380/50/3	1	
		460/60/3		1
148213P2	RECVR V 5X26 .50IN/OUT 450 # SG	600/60/3		1
		208/230/60/3		1
		220/50/1	1	
		380/3/50	1	
		460/60/3		1
		600/60/3		1

3.5 Ton

Part #	Description	Voltage	41A	42A
148213P1	RECVR V 5X14 .50IN/OUT 450 # SG	208/230/60/3		1
		380/415/50/3	1	
		460/60/3		1
		600/60/3		1
148213P2	RECVR V 5X26 .50IN/OUT 450 # SG	208/230/60/3		1
		460/60/3		1

5 Ton

Part #	Description	Type	A. Temp	Voltage	66A	67A
148213P2	RECVR V 5X26 .50IN/OUT 450# SG	Standard	95°	200/230/50/3	1	
				208/230/60/3		1
				380/415/50/3	1	
				380/60/3		1
				385/415	1	
				460/60/3		1
			105°	600/60/3		1
				208/230/60/3		2
				380/415/50/3	2	
				380/60/3		2
				460/60/3		2
				466		2
				600/60/3		2
		QL		208/230/60/3	2	
460/60/3			2			
575/60/3			2			

8 Ton

Part #	Description	A. Temp	Voltage	95A	96A
148213P2	RECVR V 5X26 .50IN/OUT 450# SG	95°	380-415/50/3	1	
			208/230/60/3		1
			460/60/3		1
			575/60/3		1
148213P6	RECVR V 6X24 .50IN/OUT 450# SG	95°	208/230/60/3		1
			380-415/50/3	1	
			460/60/3		1
			575/60/3		1

4.1.4. ITEM 13 - Compressor

1 Ton

Part #	Description	Voltage	013A	014A
187320P1	COMP HERM 208/230 1T	208/230/60/1		1
182968P1	COMP HERM RS70C1E-PFV R407C	208/230/60/1		1
187319P1	COMP HERM 220/240 1T	220/240/50/1	1	
183989P1	COMP SCRL ZR18K4E-PFJ W/O ROTO	220/240/50/1	1	

1.5 Ton

Part #	Description	Voltage	19A	20A
159146P1	COMP SCRL ZR18K*-PFV W/O ROTO	208/230/60/1		1
177311P1	COMP SCRL ZR18K4E-PFV W/O ROTO	208/230/60/1		1
156204P1	COMP SCRL ZR22K4-PFJ-230	220/240/50/1	1	
181470P1	COMP SCRL ZR22K4E-PFJ-230	220/240/50/1	1	

2 Ton

Part #	Description	Voltage	26A	27A
159145P1	COMP SCRL ZR22K*-PFV W/O ROTO	208/230/60/1		1
166317P1	COMP SCRL ZR22K4E-PFV W/O ROTO	208/230/60/1		1
182805P2	COMP SCRL ZR26K3E-PFJ W/O ROTO	220/240/50/1		1
138493P2	COMP SCRL ZR26K3-PFJ W/O ROTO	220/240/50/1		1
148324P2	COMP SCRL ZR26K3-TFD W/O ROTO	380/415/50/3	1	1
180048P2	COMP SCRL ZR26K3E-TFD W/O ROTO	380/415/50/3	1	1

3 Ton

Part #	Description	Voltage	36A	37A
138430P2	COMP SCRL ZR40K3-TFD W/O ROTA	380/3/50	1	
148325P1	COMP SCRL ZR34K3-TF5 W/O ROTO	208/230/60/3		1
148325P2	COMP SCRL ZR34K*-PFV W/O ROTO	460/60/3		1
148325P3	COMP SCRL ZR34K3-TFE W/O ROTO	600/60/3		1
148326P2	COMP SCRL ZR40K3-PFJ W/O ROTO	220/50/1	1	
159149P1	COMP SCRL ZR34K3-TFD W/O ROTO	208/230/60/3		1
168919P2	COMP SCRL ZR40K3E-TFD W/O ROTA	380/3/50	1	
169388P1	COMP SCRL ZR34K3E-TF5 W/O ROTO	208/230/60/3		1
169388P2	COMP SCRL ZR34K3E-TFD W/O ROTO	460/60/3		1
169388P3	COMP SCRL ZR34K3E-TFE W/O ROTO	600/60/3		1

Part #	Description	Voltage	36A	37A
169697P1	COMP SCRL ZR34K3E-PFV W/O ROTO	208/230/60/1		1
182081P2	COMP SCRL ZR40K3E-PFJ W/O ROTO	220/50/1	1	

3.5 Ton

Part #	Description	Voltage	41A	42A
138430P1	COMP SCRL ZR40K3-TF5 W/O ROTA	208/230/60/3		1
138430P2	COMP SCRL ZR40K3-TFD W/O ROTA	460/60/3		1
138430P3	COMP SCRL ZR40K3-TFE W/O ROTA	600/60/3		1
148228P2	COMP SCRL ZR48KC-TFD W/O ROTA	380/415/50/3		1
168919P1	COMP SCRL ZR40K3E-TF5 R407C	208/230/60/3		1
168919P2	COMP SCRL ZR40K3E-TFD W/O ROTA	460/60/3		1
168919P3	COMP SCRL ZR40K3E-TFE W/O ROTA	600/60/3		1
190105P2	COMP SCRL ZR48KCE-TFD W/O ROTA	380/415/50/3	1	1

5 Ton

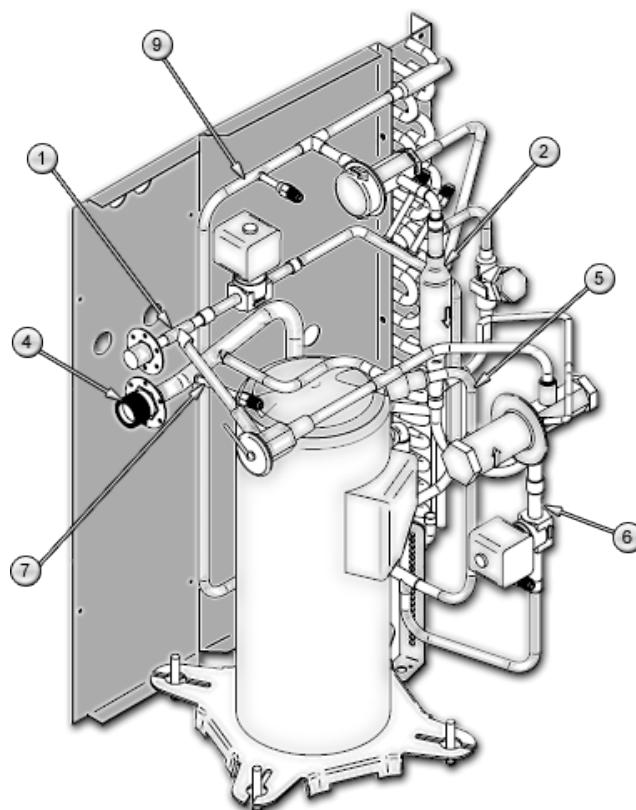
Part #	Description	Voltage	66A	67A
132082P5	COMP SCRL ZR61KC-TF7 W/O ROTA	380/60/3		1
132101P2	COMP SCRL ZR61KC-TF5 W/O ROTA	208/230/60		1
		600/60/3		1
132101P3	COMP SCRL ZR61KC-TFD W/O ROTA	460/60/3		1
		466		1
132101P4	COMP SCRL ZR61KC-TFE W/O ROTA	575/60/3		1
		600/60/3		1
138400P1	COMP SCRL ZR72KC-TF5 W/O ROTA	200/230/50/3	1	
138400P2	COMP SCRL ZR72KC-TFD W/O ROTA	208/230/60/3	1	
		380/415/50/3	1	
166317P3	COMP SCRL ZR61KCE-TFD W/O ROTO	460/60/3		1
		466		1
169237P3	COMP SCRL ZR61KCE 575V-3 SWEAT	575/60/3		1
		600/60/3		1
169317P2	COMP SCRL ZR72KCE-TFD W/O ROTA	208/230/60/3	1	
		380/415/50/3	1	
176774P2	COMP SCRL ZR61KCE-TF5 W/O ROTO	208/230/60/3		1
		600/60/3		1
184956P5	COMP SCRL ZR61KCE-TF7 W/O ROTO	380/60/3		1

8 Ton

Part #	Description	Voltage	95A	96A
132101P2	COMP SCRL ZR61KC-TF5 W/O ROTA	208/230/60/3		1
132101P3	COMP SCRL ZR61KC-TFD W/O ROTA	460/60/3		1
132101P4	COMP SCRL ZR61KC-TFE W/O ROTA	575/60/3		1
138400P2	COMP SCRL ZR72KC-TFD W/O ROTA	380-415/50/3	1	
138430P2	COMP SCRL ZR40K3-TFD W/O ROTA	380-415/50/3	1	
148325P1	COMP SCRL ZR34K3-TF5 W/O ROTO	208/230/60/3		1
148325P2	COMP SCRL ZR34K3-TFD W/O ROTO	460/60/3		1
148325P3	COMP SCRL ZR34K3-TFE W/O ROTO	575/60/3		1
166317P3	COMP SCRL ZR61KCE-TFD W/O ROTO	460/60/3		1
168919P2	COMP SCRL ZR40K3E-TFD W/O ROTA	380-415/50/3	1	
169237P3	COMP SCRL ZR61KCE 575V-3 SWEAT	575/60/3		1
169317P2	COMP SCRL ZR72KCE-TFD W/O ROTA	380-415/50/3	1	
169388P1	COMP SCRL ZR34K3E-TF5 W/O ROTO	208/230/60/3		1
169388P2	COMP SCRL ZR34K3E-TFD W/O ROTO	460/60/3		1
169388P3	COMP SCRL ZR34K3E-TFE W/O ROTO	575/60/3		1
176774P2	COMP SCRL ZR61KCE-TF5 W/O ROTO	208/230/60/3		1

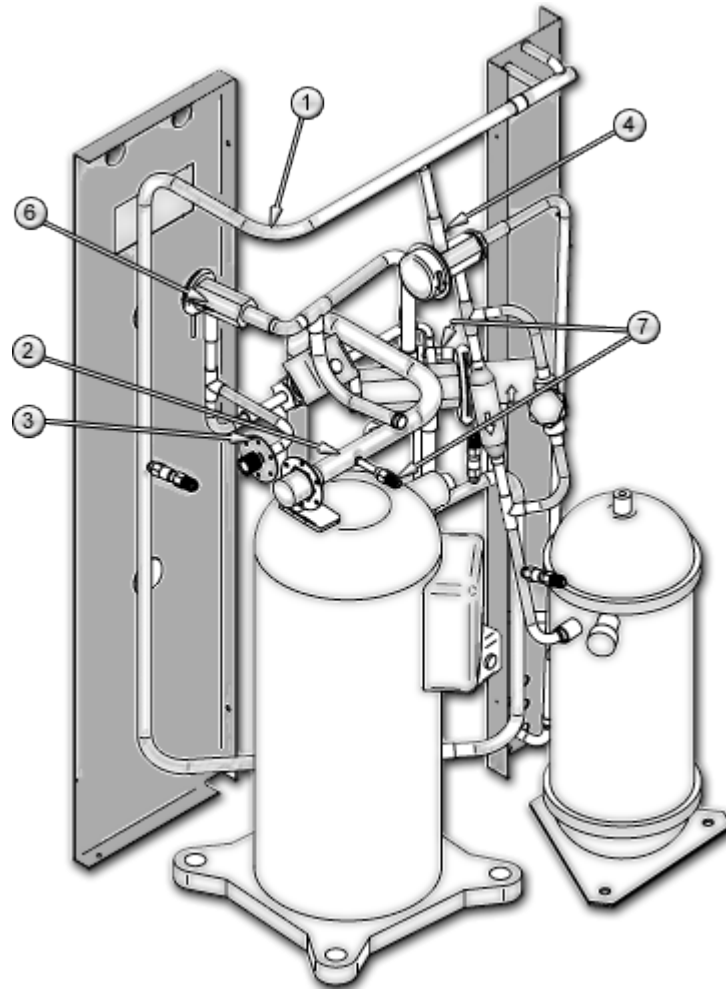
5. Piping Section

5.1. 1-2T



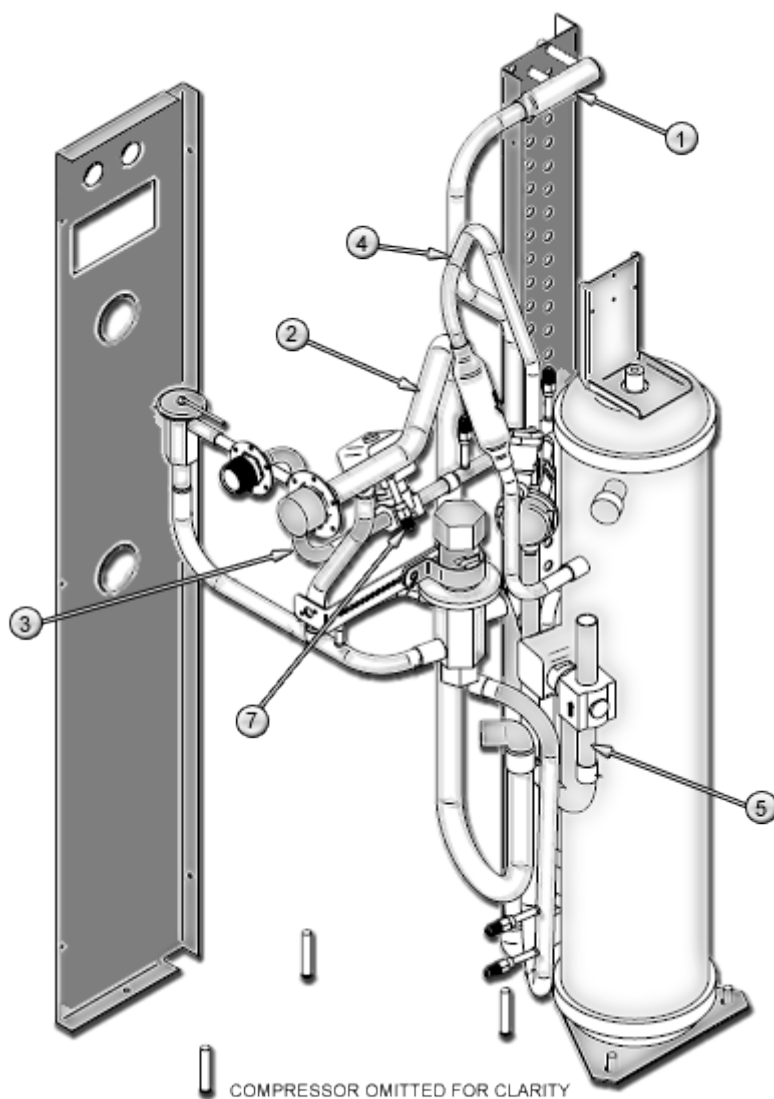
Item	Part #	Description	1T	2T
1		LIQUID ASSEMBLY 2T on Page 15		
2		HPCV BYPASS ASSEMBLY on Page 17		
4		SUCTION ASSEMBLY 2T on Page 1		
5		DISCHARGE ASSEMBLY 2T on Page 15		
6		HGBP ASSEMBLY on Page 16		
7	P02-0290	VALVE CORE REFRIGERANT	4	4
9		DISCHARGE ASSEMBLY 1/1.5/2T on Page 15		

5.2. 2-3.5T



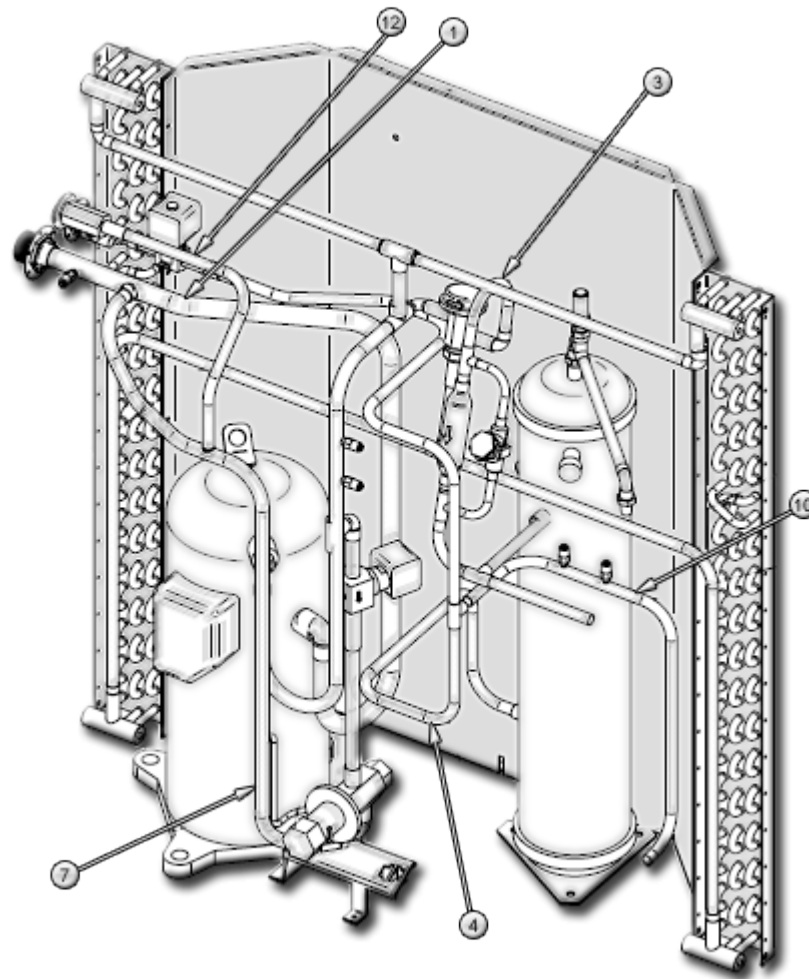
Item	Part #	Description	1T	2T
1		LIQUID ASSEMBLY 2T on Page 17		
2		HPCV BYPASS ASSEMBLY on Page 17		
4		SUCTION ASSEMBLY 2T on Page 16		
5		DISCHARGE ASSEMBLY 2T on Page 15		
6		HGBP ASSEMBLY on Page 16		
7	P02-0290	VALVE CORE REFRIGERANT	4	4
9		DISCHARGE ASSEMBLY 1/1.5/2T on Page 15		

5.3. 3-5T



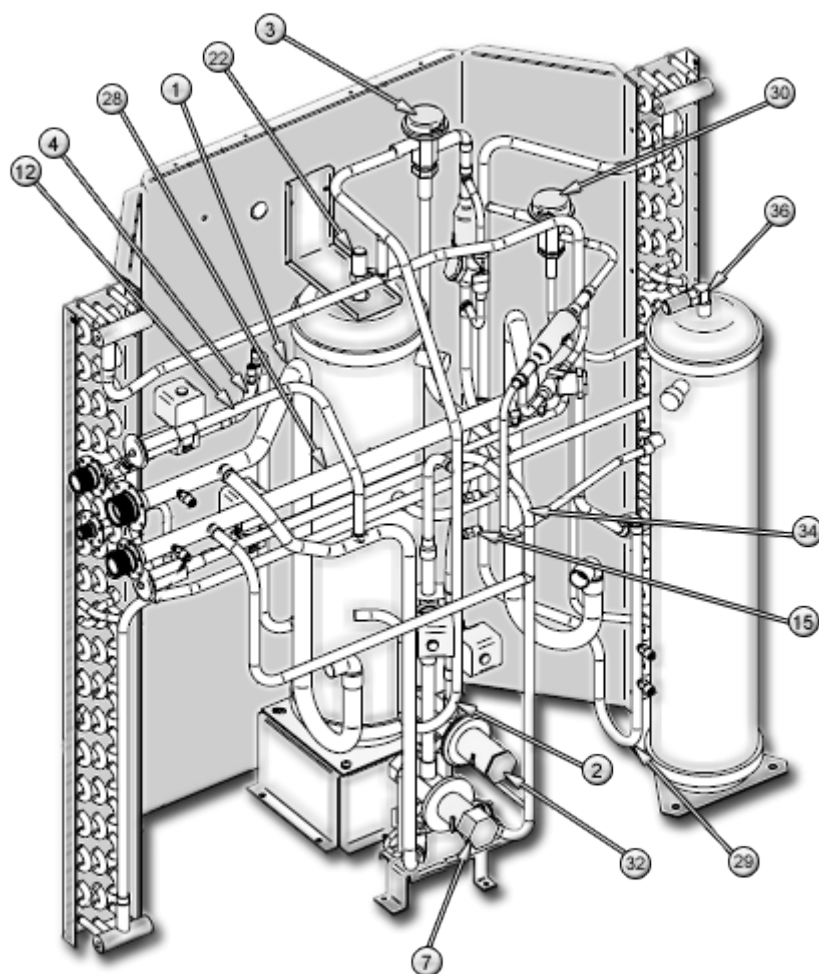
Item	Part #	Description	2T	3/3.5T
1		DISCHARGE ASSEMBLY on Page 15		
2		SUCTION ASSEMBLY on Page 16		
4		LIQUID ASSEMBLY on Page 17		
6		HGBP ASSEMBLY on Page 16		
7	P02-0290	VALVE CORE REFRIGERANT	4	4

5.4. 5T



Item	Part #	Description	2T	3/3.5T
1		SUCTION ASSEMBLY 5T on Page 16		
3		HPCV BYPASS ASSEMBLY on Page 17		
4		LIQUID ASSEMBLY on Page 17		
7		HGBP ASSEMBLY 5T on Page 16		
10		LIQUID CROSSOVER 5T on Page 17		
12		HGBP/LIV ASSEMBLY 5T PFCZ on Page 16		

5.5. 8T



Item	Part #	Description	2T	3/3.5T	8T
1		SUCTION ASSEMBLY 5T on Page 16			
2		DISCHARGE ASSEMBLY on Page 15			
3		HPCV BYPASS 5T/8T on Page 17			
4		LIQUID CROSSOVER 5T on Page 17			
7		HGBP ASSY 5T/8T on Page 16			
12		LIV ASSEMBLY 5T PFCZ on Page 16			
15	P02-0290	VALVE CORE REFRIGERANT	4	4	
22	168197P1	VALVE RELIEF 440# 1/4NPT			1
28		SUCTION ASSEMBLY on Page 16			
29		DISCHARGE ASSEMBLY on Page 15			
30		HPCV BYPASS ASSEMBLY on Page 17			
34		LIV ASSEMBLY on Page 16			
32		HGBP ASSEMBLY on Page 16			
36	168197P1	VALVE RELIEF 440# 1/4NPT			1

5.6. Piping Assembly

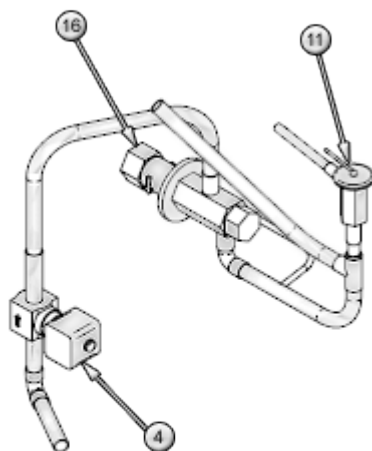
5.6.1. Discharge Assembly



DISCHARGE ASSEMBLY

Item	Part #	Description	Type	1T	1.5T	2T	3T	3.5T	5T	8T
9	187933G2	VALVE ACC BODY 1/4 EXT1" BEAD	-	1	1	1	2	2	2	
			HA/QL			2				
	P02-0270	VALVE ACCESS BODY 1/4X SWT	-	1	1	1	2	2	2	2
			HA/QL			2				

5.6.2. HGBP / LIV Assembly



HGBP/LIV ASSEMBLY

Item	Part #	Description	1T	1.5T	2T	3T	3.5T	5T	8T
4	127935P1	VALVE SOLND 1/2ODFXODM NO COIL	1	1	1				
	127935P8	VALVE SOLND 1/2ODFXODM NO COIL			1	1	1		1
	127935P9	VALVE SOLND 5/8ODFXODM NO COIL				1	1	1	1
11	148250P2	VALVE LIV 1/2T 3/8X3/8 ANGLE	1	1	1				
	148250P3	VALVE LIV 1T 3/8X1/2 ANGLE				1	1	1	
16	P-0180	VALVE BYPASS/DISCH 1/2ODF SLDR			1	1	1		1
	P-0190	VALVE BYPASS/DISCH 5/8ODF SLDR				1	1	1	1
	P-0200	VALVE BYPASS/DISCH 1/2ODF SLDR	1	1	1				

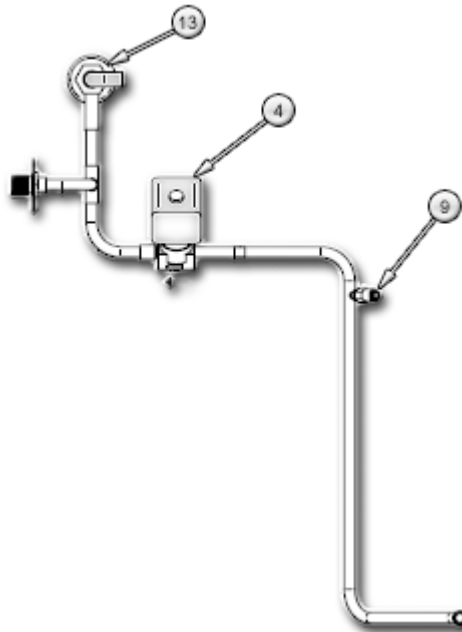
5.6.3. Suction Assembly



SUCTION ASSEMBLY

Item	Part #	Description	1T	1.5T	2T	3T	3.5T	5T	8T
6	187933G2	VALVE ACC BODY 1/4 EXT1" BEAD	1	1	1	1	1	1	
	P02-0270	VALVE ACCESS BODY 1/4X SWT	1	1	1	1	1	1	1

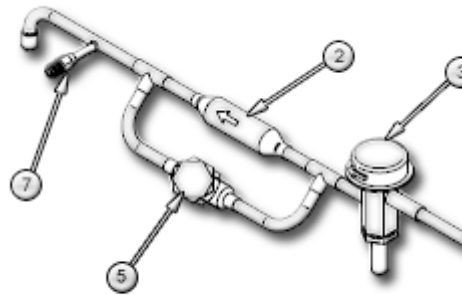
5.6.4. Liquid Assembly



LIQUID ASSEMBLY

Item	Part #	Description	1T	1.5T	2T	3T	3.5T	5T	8T
4	127935P1	VALVE SOLND 1/2ODFXODM NO COIL				1	1	1	1
	127935P5	VALVE SOLND 3/8ODFXODM NO COI	1	1	1	1	1	1	1
	187933G2	VALVE ACC BODY 1/4 EXT1" BEAD	-	2	2	2	2	2	2
9	P02-0270	VALVE ACCESS BODY 1/4X SWT	?			1	1	1	
			?	2	2	2	2	2	2
13	148250P3	VALVE LIV 1T 3/8X1/2 ANGLE			1	1	1		

5.6.5. HPCV Bypass

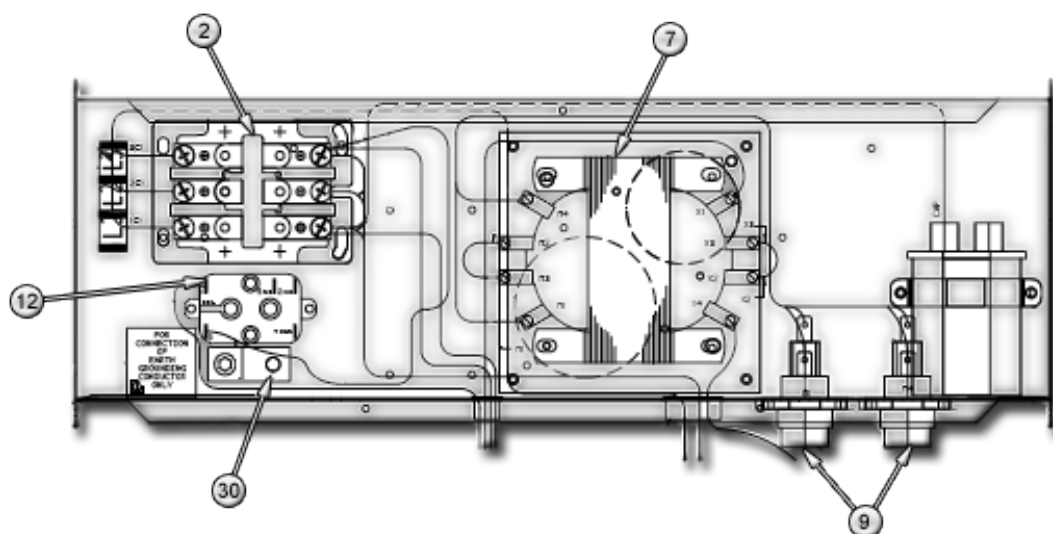


HPCV BYPASS

Item	Part #	Description	1T	1.5T	2T	3T	3.5T	5T	8T
2	167771G1	PIPG VLV CHECK BYPASS 3/8	1	1	1	1	1		1
	167771G2	PIPG VLV CHECK BYPASS 1/2				1	1	1	1
	W-0091	VALVE CHECK 1/2" OD				1	1	1	
3	1C21207P5	VALVE LOW AMB CNTL-SPORLAN	1	1	1	1	1		1
	127936P2	VALVE LOW AMB CNTL 1/2"SPORLAN				1	1	1	1
5	167770P1	VALVE CHECK 3/8" OD SPRING				1	1	1	
7	P02-0270	VALVE ACCESS BODY 1/4X SWT			1	1	1		
	187933G2	VALVE ACC BODY 1/4 EXT1" BEAD			1	1	1		

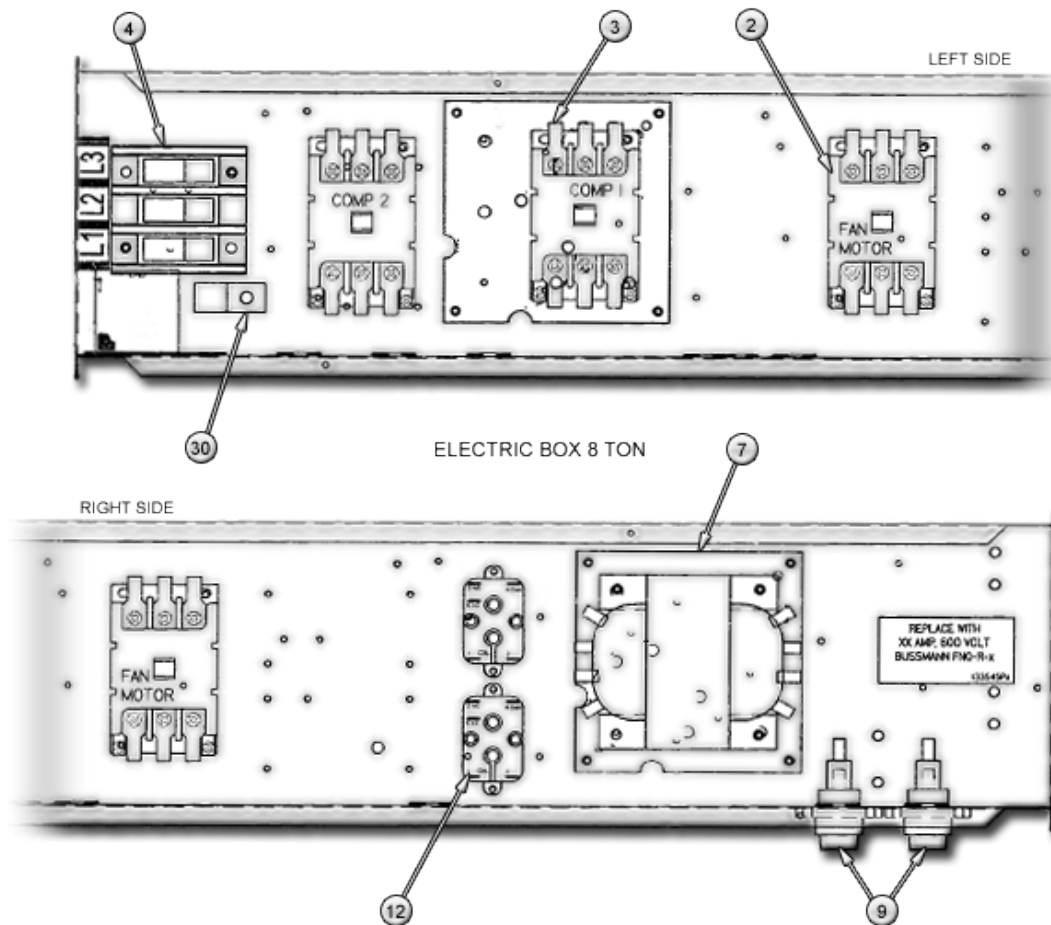
6. Electrical Section

6.1. 95° Ambient (1-5T)



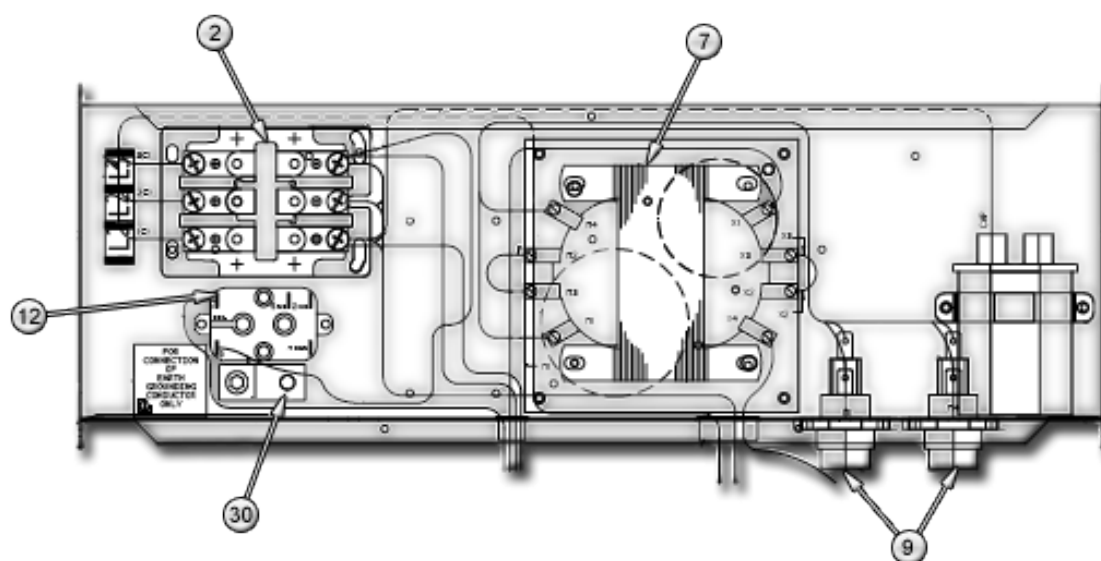
Item	Part #	Description	1T	1.5T	2T	3T	3.5T	5T
2	E-011B	CONTACTOR 2PL 24VCOIL 25/35AMP	1	1	1	1		
	124501P1	CONTACTOR 3PL 24VCOIL 15/20AMP						1
	E-009F	CONTACTOR 3PL 24VCOIL 30/40AMP			1	1	1	1
7	127937P1	XFMR 150VA 460/230				1	1	1
	127937P3	XFMR150VA380/440/600-230 50/60			1	1	1	1
9	127977P1	FUSE FNQ-R-3/4			2	2	2	2
12	E03-0170	RELAY 1P2T 24V 50/60HZ	1	1	1	1	1	1
	127661P1	RELAY SPDT 24V 50/60HZ			1	1	1	1
30	E-362B	TERM LUG MECH #14-2/0 1/4"	1	1	1	1	1	1

6.2. 95° Ambient (8T)



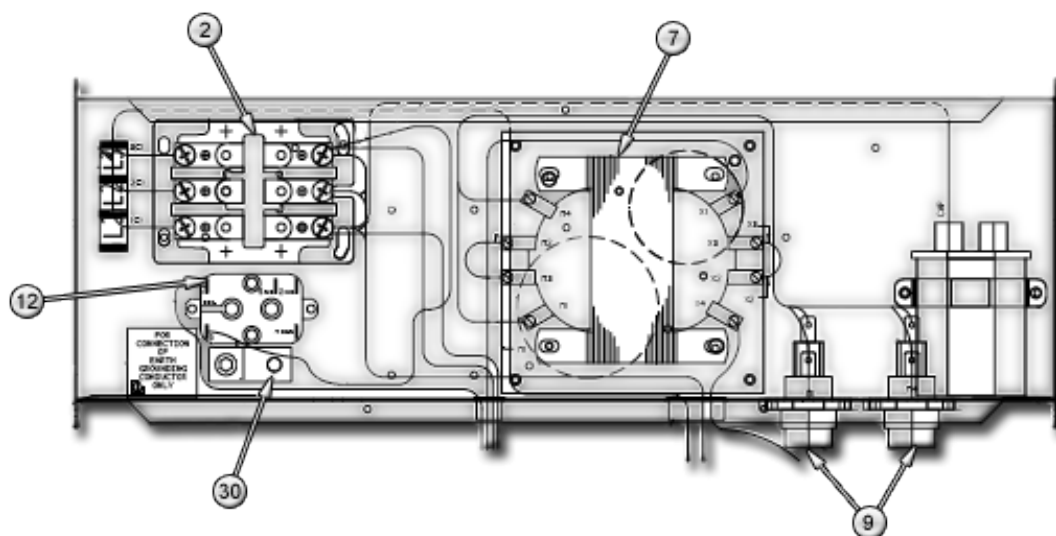
Item	Part #	Description	8T
2	124501P1	CONTACTOR 3PL 24VCOIL 15/20AMP	1
3	123273P1	CONTACTOR 3PL 25/30 NO/NC AUX	2
4	E13-0040	TERMBLK 3PL 1)2/0:14 X 4)4:14	1
7	127937P1	XFMR 150VA 460/230	1
	127937P3	XFMR150VA380/440/600-230 50/60	1
9	127977P1	FUSE FNQ-R-3/4	2
12	E03-0170	RELAY 1P2T 24V 50/60HZ	1
	127661P1	RELAY SPDT 24V 50/60HZ	1
30	E-362B	TERM LUG MECH #14-2/0 1/4"	1

6.3. 105° Ambient (2-5T)



Item	Part #	Description	2T	3T	3.5T	5T
2	E-011B	CONTACTOR 2PL 24VCOIL 25/35AMP	1	1		
	124501P1	CONTACTOR 3PL 24VCOIL 15/20AMP		1	1	1
	E-009F	CONTACTOR 3PL 24VCOIL 30/40AMP	1	1	1	1
7	127937P1	XFMR 150VA 460/230		1	1	1
	127937P3	XFMR150VA380/440/600-230 50/60	1	1		1
9	127977P1	FUSE FNQ-R-3/4	2	2	2	2
12	E03-0170	RELAY 1P2T 24V 50/60HZ		1	1	1
	127661P1	RELAY SPDT 24V 50/60HZ	1	1	1	1
30	E-362B	TERM LUG MECH #14-2/0 1/4"	1	1	1	1

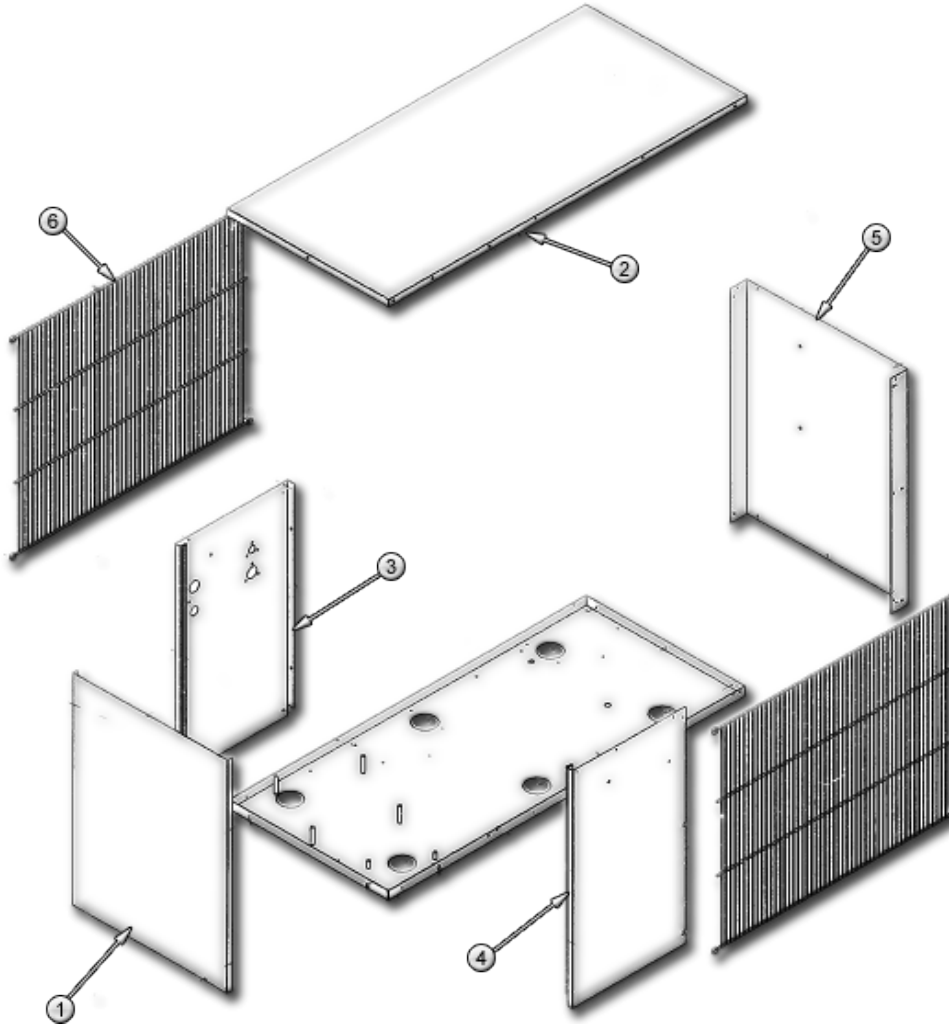
6.4. Quiet Line



Item	Part #	Description	2T	3T	3.5T	5T
2	E-011B	CONTACTOR 2PL 24VCOIL 25/35AMP	1			
	124501P1	CONTACTOR 3PL 24VCOIL 15/20AMP		1		1
	E-009F	CONTACTOR 3PL 24VCOIL 30/40AMP		1	1	1
7	127937P1	XFMR 150VA 460/230		1	1	1
	127937P3	XFMR150VA380/440/600-230 50/60		1		1
9	127977P1	FUSE FNQ-R-3/4		2	2	2
12	E03-0170	RELAY 1P2T 24V 50/60HZ		1	1	1
	127661P1	RELAY SPDT 24V 50/60HZ		1	1	1
30	E-362B	TERM LUG MECH #14-2/0 1/4"	1	1	1	1

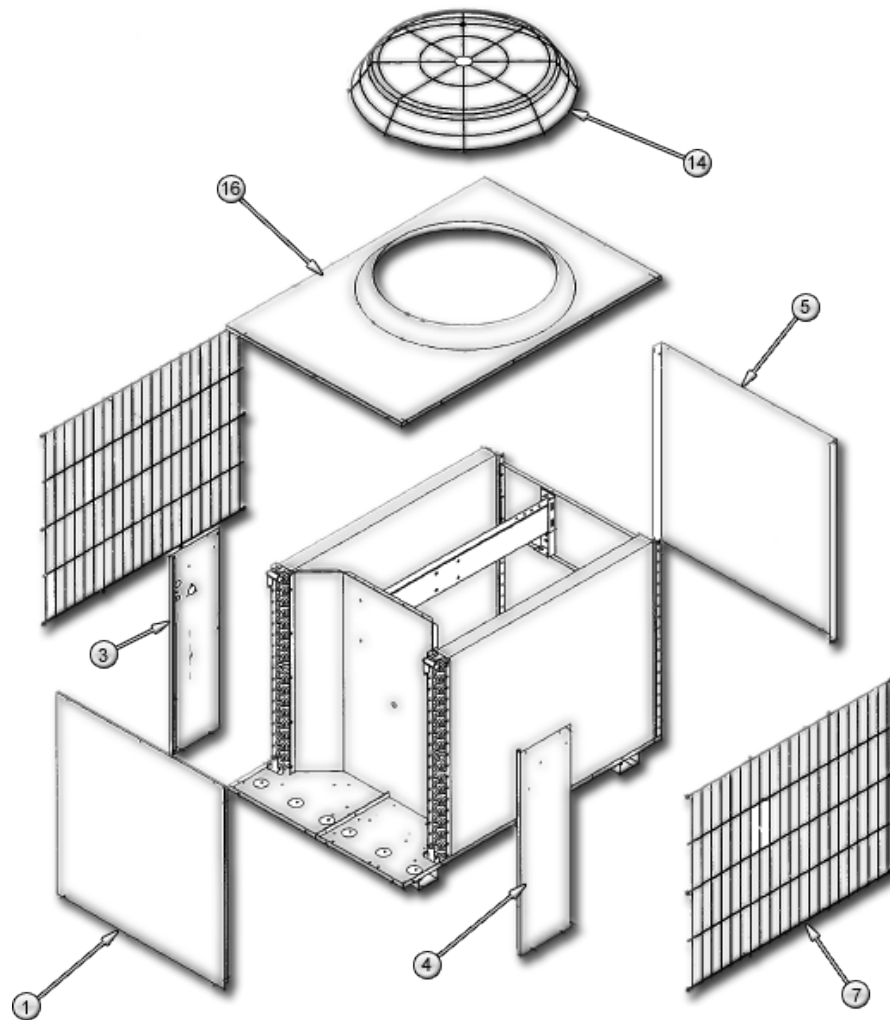
7. Exterior Section

7.1. 1.5 – 5T



Item	Part #	Description	1-1.5 Ton	2 Ton	3-3.5 Ton	5 Ton
1	148254P1	PNL EXT FRT PREPNT PFC 1/2T	1	1		
	148254P2	PNL EXT FRT PREPNT PFC 3/3.5T		1	1	
	148254P3	PNL EXT FRT PREPNT PFC 4/5T			1	1
2	121695P1	PNL EXT TOP PREPNT DMC 1.5/2T	1	1		
	121702P1	PNL EXT TOP PREPNT DMC 3T		1	1	
	127910P1	PNL EXT TOP PREPNT DMC 5T			1	1
3	148257P1	PNL EXT AQ PREPNT PFC 1.5/2T	1	1		
	148258P1	PNL EXT AQ PREPNT PFC 3/3.5T		1	1	
	148259P1	PNL EXT AQ PREPNT PFC 4/5T				1
	148259P2	PNL EXT AQ PREPNT PFC 3/3.5T			1	
4	148255P1	PNL EXT RT PREPNT PFC 1.5/2T	1	1		
	148255P2	PNL EXT RT PREPNT PFC 3/3.5T		1	1	
	148255P3	PNL EXT RT PREPNT PFC 4/5T			1	1
5	121699P1	PNL EXT REAR PREPNT DMC 1.5/2T	1	1		
	121706P1	PNL EXT REAR PREPNT DMC 3T		1	1	
	127907P1	PNL EXT REAR PREPNT DMC 5T			1	1
6	127915P2	GRILL DISCH AIR BLACK			1	1
	127916P2	GRILL INLET AIR BLACK			1	1
	1C21129P2	GRILL DISCH DMC 3T BLACK		1	1	
	1C21130P2	GRILL INLET DMC 2T BLACK	2	2		
	1C21131P2	GRILL INLET DMC 3T BLACK		1	1	

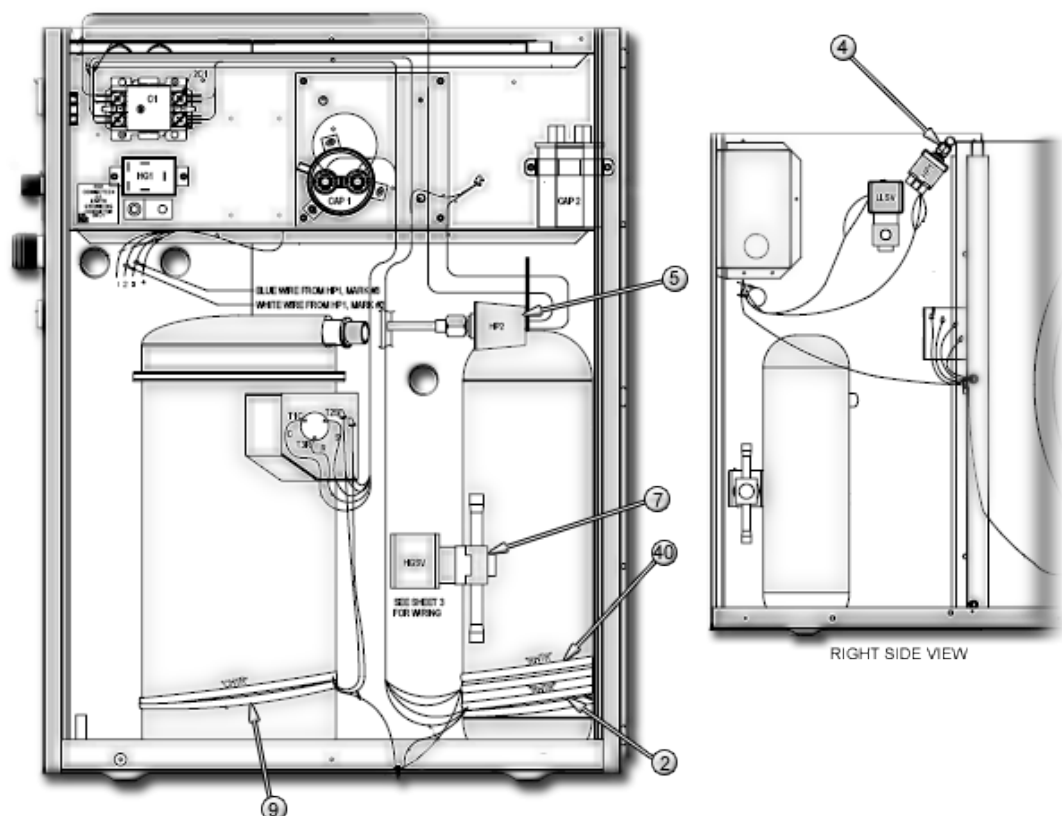
7.2. 5-8T



Item	Part #	Description	5 Ton	8 Ton
1	148346P1	PNL FRT ACC PREPNT PFC DUAL	1	1
2	148278P1	PNL LT AERO PREPNT PFC 8T DUAL		1
	148344P1	PNL LT AERO PREPNT PFC DUAL	1	
3	148278P1	PNL LT AERO PREPNT PFC 8T DUAL		1
	148344P1	PNL LT AERO PREPNT PFC DUAL	1	
4	148347P1	PNL REAR PREPNT PFC DUAL	2	2
5	148347P1	PNL REAR PREPNT PFC DUAL	2	2
7	127915P2	GRILL DISCH AIR BLACK	2	2
14	D67-003B	GUARD METAL FAN PVC COATED 26"	1	1
16	9A37195G1	PANEL FAN ORIFICE PAINTED PFC	1	1

8. Crankcase Heater

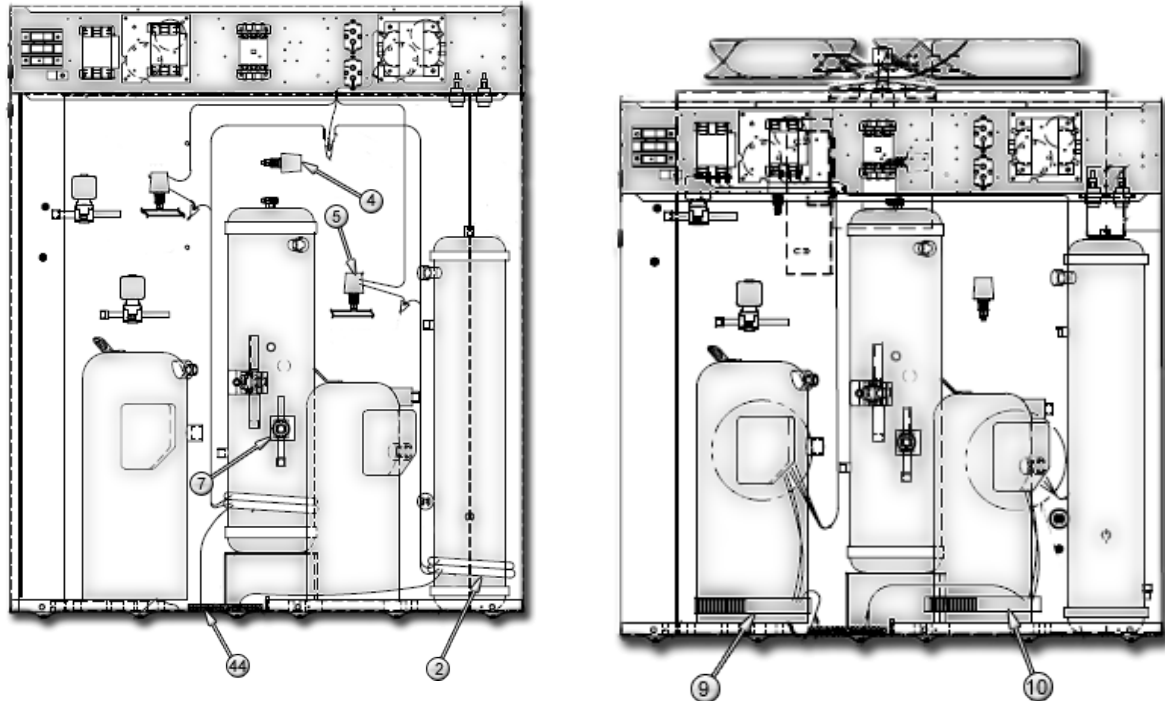
8.1. 1-1.5T



Item	Part #	Description	Type	1T	1.5T	2T	3T	3.5T	5T
2	1C21138P1	CRANKCASE HEATER BAND 240V 30W	-			1	1	1	1
	1C21138P2	CRANKCASE HEATER BAND 240V 22W	-	1	1	1			
4	148372P1	PRESS SW HP SPDTAR C/OUT 370PS	-						1
	180970P1	PRESS SW HP SPDTAR C/OUT 400PS	-						1
5	127972P1	SW HP SPST AR 150CO 100CI	-						1
7	127935P2	SOLENOID COIL DMC 5T 208/35-60	-	2	2	2	2	2	2
	127935P3	SOLENOID COIL DMC 5T 460- 50/60	-				2	2	
	127935P3	SOLENOID COIL DMC 5T 460- 50/60	50Hz			2			
			60Hz			1			
			STD						2
			QL						1
	127935P4	SOLENOID COIL DMC 5T 575- 60	STD				1	1	
			STD						2
			QL						1
9	132102P1	HEATER C/CASE 240V 40W SCROLL	-				1	1	
	132102P2	HEATER C/CASE 480V 40W SCROLL	-			1	1	1	
	132102P3	HEATER C/CASE 575V 40W SCROLL	-				1	1	
	134142P1	HEATER C/CASE 240V 70W SCROLL	-						1
	134142P2	HEATER C/CASE 480V 70W SCROLL	-				1	1	1
	134142P3	HEATER C/CASE 575V 70W	-						1

Item	Part #	Description	Type	1T	1.5T	2T	3T	3.5T	5T
		SCROLL							
	148253P1	HEATER CRANKCASE 48W COPELAND	-	1					
	1C21138P1	CRANKCASE HEATER BAND 240V 30W	-		1	1			
40	1C21138P2	CRANKCASE HEATER BAND 240V 22W	-				1	1	

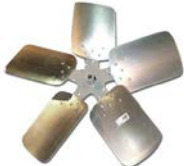
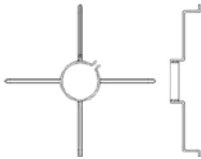
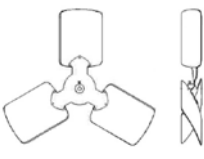
8.2. 5-8 Ton



Item	Part #	Description	5T	8T
2	1C21138P1	CRANKCASE HEATER BAND 240V 30W	1	1
4	148372P1	PRESS SW HP SPDTAR C/OUT 370PS	1	2
	180970P1	PRESS SW HP SPDTAR C/OUT 400PS	1	2
5	127972P1	SW HP SPST AR 150CO 100CI	1	2
7	127935P2	SOLENOID COIL DMC 5T 208/35-60	2	4
	127935P3	SOLENOID COIL DMC 5T 460-50/60	2	4
	127935P4	SOLENOID COIL DMC 5T 575-60	2	4
9	134142P1	HEATER C/CASE 240V 70W SCROLL	1	1
	134142P2	HEATER C/CASE 480V 70W SCROLL	1	1
	134142P3	HEATER C/CASE 575V 70W SCROLL	1	1
10	132102P1	HEATER C/CASE 240V 40W SCROLL		1
	132102P2	HEATER C/CASE 480V 40W SCROLL		1
	132102P3	HEATER C/CASE 575V 70W SCROLL		1
44	E-3620	GROUND LUG STRIP 13POS SCRTRM		1

9. Parts Gallery

Fan Section

			
1C24870P1	155364P1	D-1830	1D21122P1
			
1C21123P1	148229P1		

Compressor Section

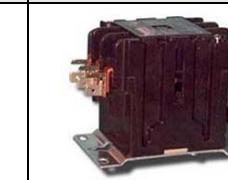
			
168197P1	148205G1	1A17649P1	138430P2
			
148213P1			

Piping Section

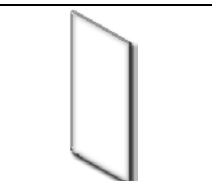
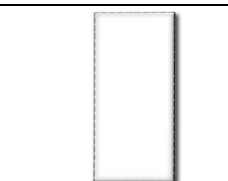
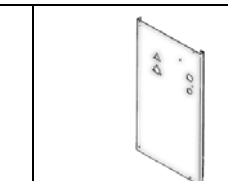
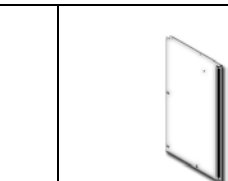
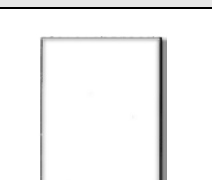
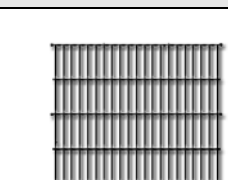
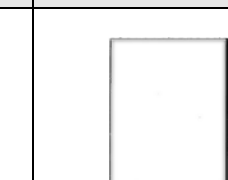
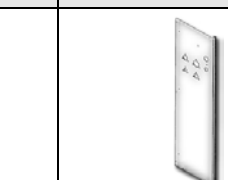
			
P02-0290	168197P1	P02-0270	P-0180
			
148250P2/3	127935P1	127935P5	167770P1

	
W-0091	1C21207P5

Electrical Section

			
E-011B	127937P1	127977P1	E03-0170
			
148366P17	123273P1	E13-0040	E-009F
			
127937P3	E-009F		

Exterior Section

			
148254P1	121695P1	148257P1	148255P1
			
121699P1	127915P2	148347P1	148278P1

	
9A37195G1	D67-003B

Crankcase Heater

			
1C21138P1	148372P1	127972P1	127935P2
			
132102P1	1C21138P2	E-3620	134142P1

10. Revision Page

Revision Date	Modification	Details
01/2011	Manual Release	