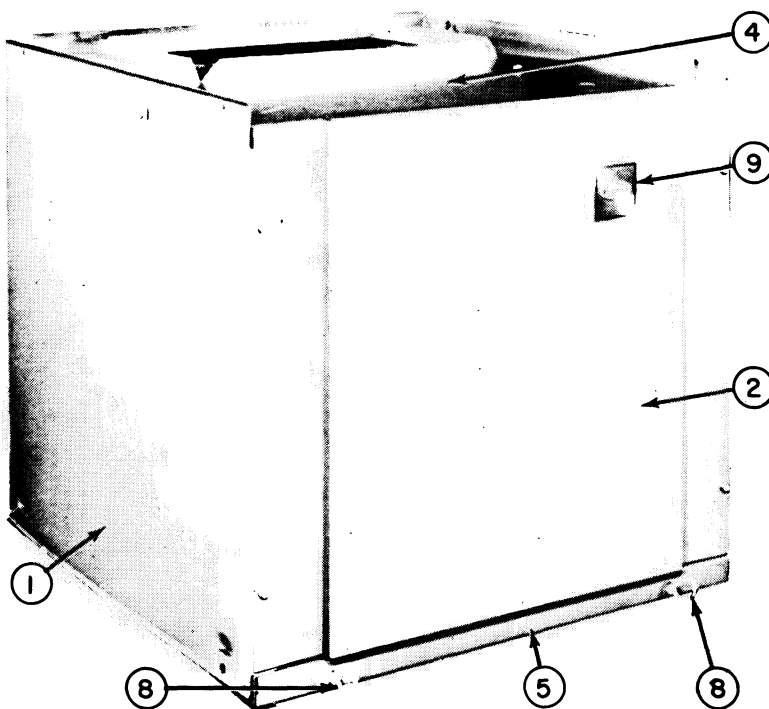
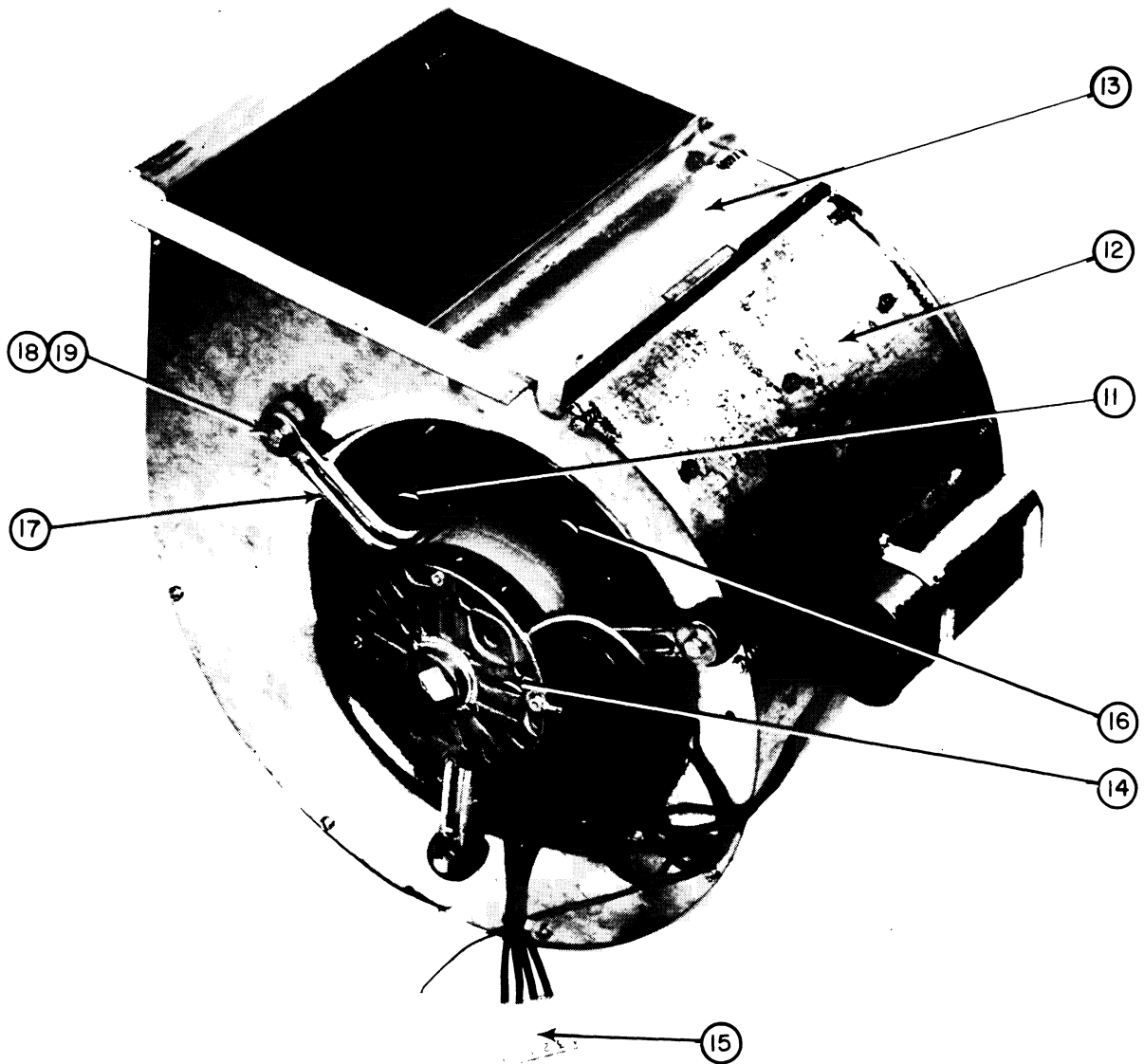


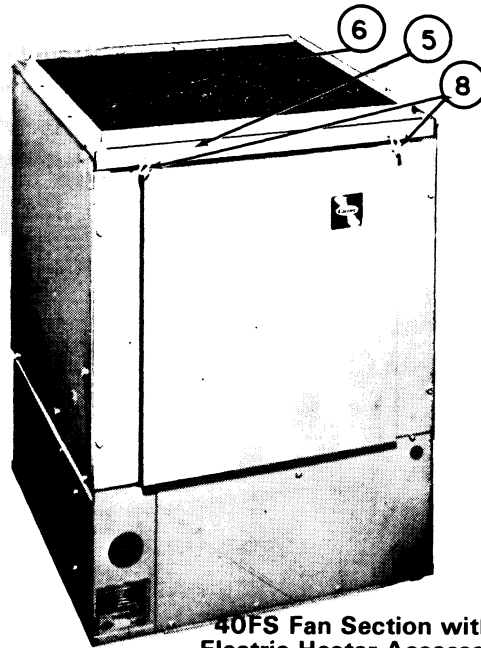


40FS Fan Section

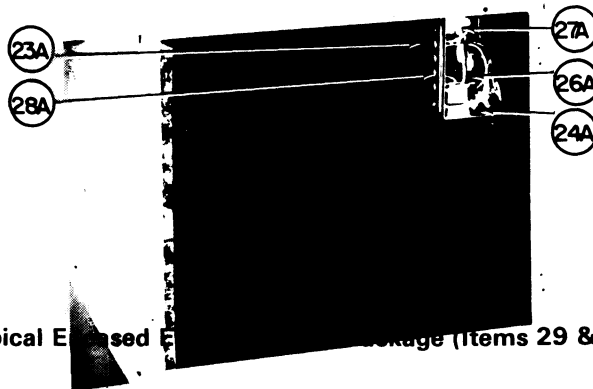


40FS Upflow

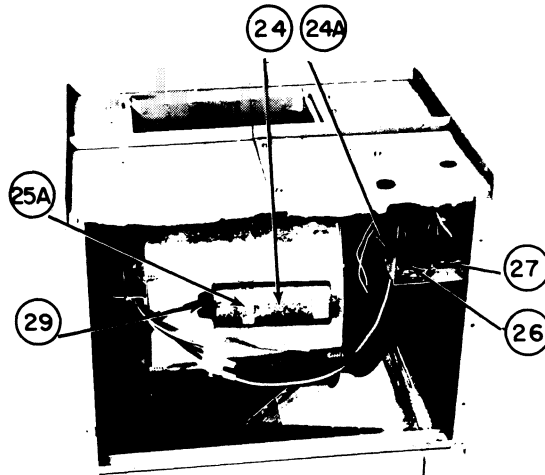


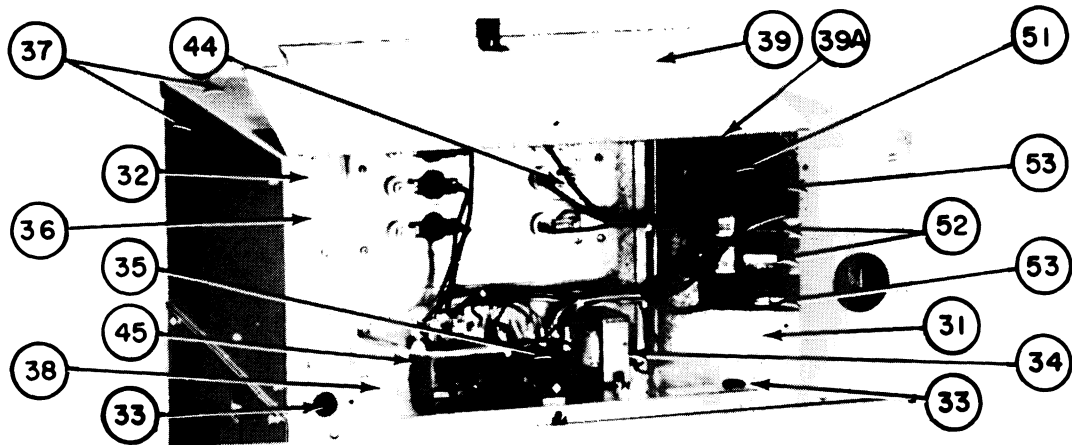


40FS Fan Section with
Electric Heater Accessory

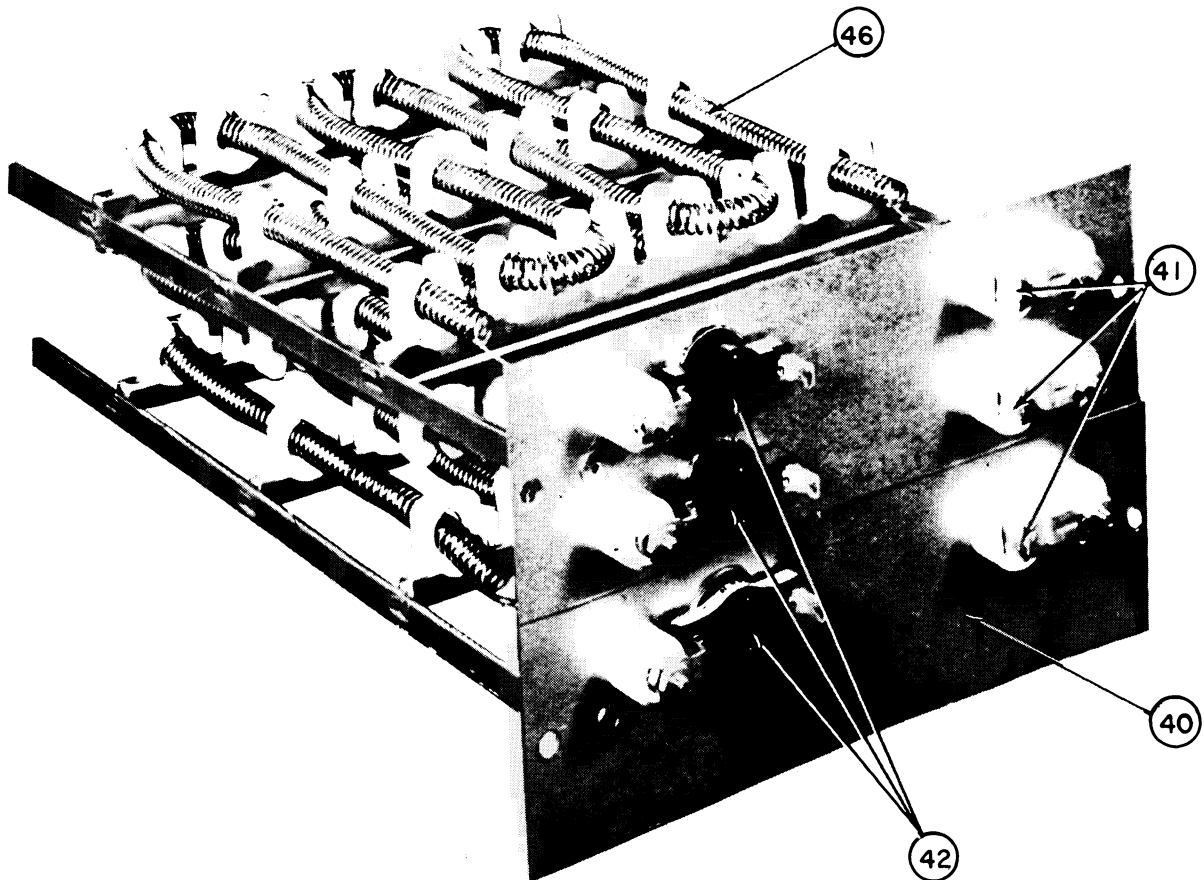


Typical Electric Heater Wiring Connections (Items 29 & 30)





Typical Cooling Control Package (Item 22A)





FAN COIL UNIT

40FS

075-220

ITEM NO.	PART NAME	LDC	REPLACEMENT PART NUMBER	USED ON 40FS														
				075			160			200			220					
				3	3	7	7	3	3	7	7	3	3	7	7			
				1	0	1	0	1	0	1	0	1	0	1	0	1		
				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CASING AND FILTER GROUP

1	Wrapper Assembly	SM1	40FS400383	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		SM1	40FS400393															
2	Cover Assembly	SM1	40FS400043	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		AC	40FS400053															
3	Deck, Fan	SM1	40FS400444	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		SM1	40FS400454															
4	Deck, Flange	SM1	40FS400524	-	1	-	1	1	-	1	1	1	-	1	1	-	1	1
		SM1	40FS400534															
5	Rack Assembly, Filter	AC	40FS400614	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Each Includes:	AC	40FS400624															
	Filter Housing Assembly, Filter																	
	Clamp and Filter Support Assembly																	
6	Filter (Permanent, Washable) 21"L x 20"W x 1"THK	CD	Procure Locally	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	21"L x 24"W x 1"THK	CD	Procure Locally															
NI/7	Rod (Filter Support) - 20.75" Lg. x .12 Dia.	FF	40FS1-03295-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	24.25" Lg. x .12 Dia.	FF	40FS1-03295-2															
8	Clamp (Filter Rack Pull)	AC	KA66TP-015	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
9	Nameplate (Carrier)	AC	99NA502293	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
NI/10	Touch-Up Paint (Horizon Green) 16 Oz. Pressurized Can	MP	PH23GH-017															
				As Required														

BLOWER AND MOTOR GROUP

11	Wheel, Blower - 1/2" Bore; 48 Blades; 8-1/8" Long x 10-5/8" Wide	AC	LA22XC-099	1														
	1/2" Bore; 48 Blades; 8" Long x 11" Wide	AC	LA22XC-100		1	1	1	1										
	1/2" Bore; 48 Blades; 10-7/8" Long x 11-1/8" Wide	AC	LA22XC-104						1	1	1	1						
	5/8" Bore; 43 Blades; 9-1/2" Long x 13-3/16" Wide	AC	LA22LB-131												1	1	1	1
12	Housing, Fan w/Motor Mount - Not Sold Sep.	NPS	40FS400882	1														
	Housing, Fan Only	AC	40FS400253		1	1	1	1										
		AC	40FS400263						1	1	1	1						
		NS	40FS400792												1	1	1	1
13	Cut Off (Fan Housing)	NS	40FS500802	1														
		AC	40FS500413		1	1	1	1										
		NS	40FS500403						1	1	1	1						
		NS	40FS500802												1	1	1	1



FAN COIL UNIT

40FS

075-220

ITEM NO.	PART NAME	LDC	REPLACEMENT PART NUMBER	USED ON 40FS											
				075	160	200	220								
				3	3	3	7	3	3	7	7	3	3	7	7

BLOWER AND MOTOR GROUP (CONT'D.)

14	Motor, Fan (AC) (One Each Unless Otherwise Shown)					See Notes									
	MODEL NUMBER	CURRENT PRODUCTION HP	FAN MOTOR	ELECTRICAL CHARACTERISTICS	HP	REPLACEMENT FAN MOTOR	AVAILABLE COMPONENT								
	40FS075310	1/12	HC31ME-240	208/230-1-60; 800RPM	1/12	HC31ME-240									
	40FS160300	1/2	HC43MF-229	208/230-1-60; 1075RPM	1/2	HC43MF-229									
	40FS160310														
	40FS160700	1/2	HC43MF-226	230-1-50; 1350RPM	1/2	HC43ME-227									
	40FS160710														
	40FS200300	3/4	HC45MF-231	208/230-1-60; 1100RPM	3/4	HC45MF-231									
	40FS200310														
	40FS200700	3/4	HC45MF-228	230-1-50; 1100RPM	3/4	HC45ME-227									
	40FS200710														
	40FS220300	1	HC52AL-231	208/230-1-50/60; 1000RPM	1	HC52AL-231									
	40FS220310														
	40FS220700														
	40FS220710														
NOTE: Early 40FS (60 Hz) units were equipped with motors with 30 in. power leads. When replacing these older motors with either HC43MF-229, HC45MF-231 or HC52AL-231 (short power leads) on units equipped with a cooling control package, a 40FS660001 wire kit is required. Units with electric heat package do not require this wire kit.															
15	Plug Assembly, Molex	AC	58GA660003				1	1	1	1	1	1	1	1	1
16	Band, Motor Mount	AC	HC98ZZ-480				-	1	1	1	1	1	1	1	1
17	Arm, Motor Mount	AC	HC98ZZ-244				-	3	3	3	3	3	3	3	3
		NPS	HC98ZZ-250										3	3	3
18	Grommet, Rubber (Motor Mounting Arm)	MP	KA56TR-018				-	3	3	3	3	3	3	3	3
19	Screw Assembly (Bolt) Motor Mounting Arm	MP	AH27AS-171				-	3	3	3	3	3	3	3	3
		NS	AH01AM-172										3	3	3
NI/20	Ring, Inlet	NS	40FS500872				2	-	-	-	-	-	-	-	-
NI/21	Screw, Inlet Ring - 6 Req. on Motor Side - 3 Req. on Other Side	MP	AL76AU-216				9	-	-	-	-	-	-	-	-
NI/22	Screw (Motor Mounting)	NS	AL56AU-307				3	-	-	-	-	-	-	-	-
NI/23	Lockwasher - 1/4 Ext. Tooth	MP	AU27AS-171				3	-	-	-	-	-	-	-	-

ELECTRICAL GROUP

24	Capacitor, Fan Motor														
	5 Mfd; 370V; Max. Height 2.75	AC	HC90AB-005				1								
	7.5 Mfd; 440V; Max. Height 5.13	AC	HC90BB-007					1	1						
	7.5 Mfd; 370V; Max. Height 3.75	AC	HC90AB-007							1	1				
	10 Mfd; 370V; Max. Height 2.88	AC	HC90AB-010							1	1	1	1		
	25 Mfd; 370V; Max. Height 6.50	AC	HC90AB-025										1	1	1
25A	Strap, Fan Motor Capacitor	AC	HC98ZZ-071				1								
		AC	HC98ZZ-071					1	1	1	1	1	1	1	1
		NS	40FS500231										1	1	1
26	Relay, Fan	AC	HN61KQ-120				-	-	-	1	-	-	-	1	-



FAN COIL UNIT

40FS
075-220

ITEM NO.	PART NAME	LDC	REPLACEMENT PART NUMBER	USED ON 40FS												
				075			160			200			220			
				3	3	7	7	3	3	7	7	3	3	7	7	
				1	0	1	0	1	0	1	0	1	0	1	0	1
				0	0	0	0	0	0	0	0	0	0	0	0	0

ELECTRICAL GROUP (CONT'D)

27	Block, Terminal	AC	HY84FE-302	-	-	-	1	-	-	-	1	-	-	-	1	-
28	Control Box and Wiring Assembly Includes: Control Box (1) 40FS500734 Item #26 and #27	NS SM3 AC	40FS400593	-	-	-	1	-	-	-	1	-	-	-	1	-
29	Boot, Safety	AC	HC97ZZ-071	1	1	1	1	1	1	1	1	1	1	1	1	1

ACCESSORY GROUP

22A	Cooling Control Package (60HZ) Includes:	AP	40FS900002		1	1				1	1				1	1
23A	Com. Con. Box & Wir. Assy. (1) 40FS400504 Includes:	NS														
24A	Control Box (1) 40FS500634	SM1														
NI/25	Cover (Control Box) (1) 40FS500293	SM1														
26A	Relay (Fan) (1) HN61KK-911	AC														
27A	Transformer (60VA) (1) HT01AW-230	MP														
	Primary 200/230V; Secondary 24V															
28A	Terminal Board (1) HY84HA-057	NS														
22A	Cooling Control Package (50HZ) Includes:	AP	40FS900102				1	1			1	1			1	1
23A	Com. Con. Box & Wir. Assy. (1) 40FS400664 Includes:	NS														
24A	Control Box (1) 40FS500634	SM1														
NI/25	Cover (Control Box) (1) 40FS500293	SM1														
26A	Relay (Fan) (1) HN61KK-911	AC														
27A	Transformer (40VA) (1) HT01AX-220	AC														
	Primary 115/230V; Secondary 25V															
28A	Terminal Board (1) HY84HA-057	NS														
22A	Cooling Control Package (50HZ) Includes:	AP	40FS900162				1	1			1	1			1	1
23A	Com. Con. Pan. & Wir. Assy. (1) 40FS400593 Includes:	NS														
24A	Control Box (1) 40FS500734	SM2														
26	Relay (Fan) (1) HN61KK-911	AC														
27	Terminal Block (1) HY84FE-302	AC														



FAN COIL UNIT

40FS
075-220

ACCESSORY GROUP

ITEM

29 ENCASED ELECTRIC HEATER PACKAGES (AP) 240-1-60

30 HEATER ASSEMBLIES (NS)

<u>PACKAGE</u>	<u>KW</u>	<u>USED ON</u>	<u>HEATER ASSY</u>
40FS916301DL	10	40FS160300,310	40FS4-01253-1
" EH	10	"	40FS4-01253-5
" GM	15	"	40FS4-01254-9
" JR	20	"	40FS4-01255-1
" LW	25	"	40FS4-01256-1
40FS920301EH	10	40FS200300,310	40FS4-01253-6
" GM	15	"	40FS4-01254-10
" JR	20	"	40FS4-01255-2
" LW	25	"	40FS4-01256-2
" PA	30	"	40FS4-01257

COMMON PARTS

- 31 FUSE BLOCK BRACKET (SM1) 40FS680001
- 32 TERMINAL BOARD BRACKET (SM1) 40FS680002
- 33 SNAP-ON BUSHING (AC) HY93NH-050
40FS916301DL USES 1, ALL OTHER HEATER PACKAGES USE 2
- 34 TRANSFORMER (MP) HT01AW-230
60VA, 200/230V. PRI., 24V SEC.
- 35 FAN RELAY (AC) HN61KQ-120
- 36 TERMINAL BOARD (NS) 40ES70777D1
- 37 WRAPPER & TOP WELD ASSY. (SM1)
40FS916301DL THRU LW 40FS680003
40FS920301EH THRU PA 40FS680004
- 38 CONTROL PLATE (SM1)
40FS916301DL THRU LW 40FS680005
40FS920301EH THRU PA 40FS680006
- 39 DOOR (SM1)
40FS916301 DL,EH 40FS680007
40FS916301 GM,JR,LW 40FS680008
40FS920301 EH 40FS680009
40FS920301 GM THRU PA 40FS680010
- 39A HINGE (AC) KA15680002
40FS916301 GM,JR,LW ONLY
40FS920301 GM THRU PA ONLY
- 40 FILLER PLATE (LESS HOLES) (SM1) 40FS680011
40FS916301 DL,DH USE 2
40FS916301 GM,JR USE 1
40FS920301 EH USES 2
40FS920301 GM,JR USE 1

<u>HEATER PKG.</u>	<u>NO. REQ.</u>	<u>HEATER PKG.</u>	<u>NO. REQ.</u>
40FS916301 DL,EH	2	40FS920301 EH	2
" GM	3	" GM	3
" JR	4	" JR	4
" LW	5	" LW	5
		" PA	6



FAN COIL UNIT

40FS
075-220

ITEM

42 - LIMIT SWITCHES HH19ZA- _ _ _ (AC)

<u>HEATER PACKAGE</u>		<u>HH19ZA-115</u>	<u>-120</u>	<u>-125</u>	<u>-130</u>	<u>-140</u>	<u>-145</u>	<u>-150</u>
40FS916301	DL	-	-	1	-	-	1	-
"	EH	-	-	1	-	-	1	-
"	GM	-	-	1	-	-	2	-
"	JR	-	-	1	-	-	2	1
"	LW	-	-	1	-	1	2	1
40FS920301	EH	1	1	-	-	-	-	-
"	GM	1	1	1	-	-	-	-
"	JR	1	1	1	-	-	-	-
"	LW	1	1	1	1	-	-	-
"	PA	1	1	1	3	-	-	-

LIMIT SWITCH RANGE: (IN DEGREES F.)

<u>LIMIT SWITCH</u>	<u>OPENS</u>	<u>CLOSES</u>	<u>PLUS/MINUS</u>
HH19ZA-115	115	90	5
" -120	120	90	6
" -125	125	95	6
" -130	130	95	6
" -140	140	100	7
" -145	145	105	7
" -150	150	110	7

NI/43 TERMINAL BOARD HY84FE-302 (AC)
USED ON 40FS916301 DL, EH; 40FS916301 EH ONLY

NI/44 HEAT SHIELD (SM1)
USED ON 40FS916301DL,GM,JR,LW: 40FS680012
USED ON 40FS920301EH THRU PA: 40FS680013

45 SEQUENCER (AC)

<u>HEATER PACKAGE</u>	<u>SEQUENCER</u>	
40FS916301DL	HN67680004	
" EH	---	
" GM	HN67680005	
" JR,LW	HN67680004	W/R #24A55-123
	HN67680006	W/R #24A55-124
40FS920301EH	HN67680004	
GM	HN67680005	
JR,LW,PA	HN67680004	W/R #24A55-123
	HN67680006	W/R #24A55-124

46 ELEMENT ASSY (AC)

<u>HEATER PACKAGE</u>	<u>ELEMENTS</u>
40FS916301 DL	(2) 40FS680016
" GM	(3) 40FS680018
" JR,LW	(4) " "
40FS920301 EH	(2) " "
GM	(3) " "
JR	(4) " "
LW	(5) " "
PA	(3) " "

NOTE: ELECTRIC HEATER REPAIR KIT (NPS)
-FOR 40FS680016 IS 88RC0000CB165717
-FOR 40FS680018 IS 88RC0000CB145016

ALLIED PRODUCTS HEATER ONLY - SEE PMB79-23-,-23A



FAN COIL UNIT

40FS
075-220

51 FUSE BLOCK (AC)

52 FUSE (AC)

HEATER PKG.	FUSE BLOCK	FUSE
40FS916301DL, EH	-	-
" GM	40ES70853C1	(2)HY10MJ-060
" JR	40ES70854C1	(4) "
" LW	HY11680002	(4) "
		(2)HY10MJ-030
40FS920301EH	-	-
GM	40ES70853C1	(2)HY10MJ-060
		(2)HY10MJ-030
JR	40ES70854C1	(4)HY10MJ-060
LW	HY11680002	(4)HY10MJ-060
		(2)HY10MJ-030
PA	HY10680003	(6)HY10MJ-060

USE THE FOLLOWING HEATER PACKAGES ON ALL 40FS UNITS.
QUANTITY (1) PER UNIT UNLESS OTHERWISE SHOWN.

40FS

HEATER MODEL	KW	ELEMENT	
		UPPER	LOWER
40FS916321 CP	5	40FS680020	
" CP	6	" 021	-
" DA	7	" 022	-
" DF	7.5	" 023	-
" DL	8	" 024	-
" GB	14	" 025	40FS680020
" GM	15	" 026	" 020
" GY	16	" 024	" 024
" HJ	17	" 027	" 027
" HV	18	" 025	" 025
" DX	9	" 025	-
" EH	10	" 026	-
" ET	11	" 021	" 020
" FE	12	" 022	" 020
" FQ	13	" 024	" 020
" JF	19	" 028	" 028
" JR	20	" 026	" 026
40FS916331 CD	5	" 020	-
" CP	6	" 021	-
" DA	7	" 022	-
" DF	7.5	" 023	-
" DL	8	" 024	-
" DX	9	" 025	-
" EH	10	" 026	
" ET	11	" 021	" 020
" FE	12	" 022	" 020
" FQ	13	" 024	" 020
" GB	14	" 025	" 020
" GM	15	" 026	" 020
" GY	16	" 024	" 024
" HJ	17	" 027	" 027
" HY	18	" 025	" 025
" JF	19	" 028	" 028
" JR	20	" 026	" 026
40FS916501 EH	10	" 042	" 044
" GM	15	" 026	" 020
" HV	18	" 045	" 046
" LW	25	" 048	-
" PA	30	" 050	-



FAN COIL UNIT

40FS
075-220

<u>ELEMENT</u>	<u>NO.</u> <u>COILS</u>	<u>KW</u> <u>EA.</u>
40FS680020	1	5
" 021	2	3
" 022	2	3.5
" 023	2	3.75
" 024	2	4
" 025	2	4.5
" 026	2	5
" 027	2	4.25
" 028	2	4.75
" 042	2	3.33
" 044	1	3.33
" 045	2	6
" 046	1	6
" 050	6	5

<u>COILS</u>	<u>KW</u>	
40FS680029	5	(A)
" 030	3	(B)
" 031	3.5	
" 032	3.75	
" 033	4	
" 034	4.5	
" 040	4.25	
" 041	4.75	
" 043	3.33	
" 047	6	
" 049	4.17	(C)
" 051	5	

(A) REPAIR KIT IS 88RC0000CB145016
 (B) " " " 300018
 (C) " " " 165717

<u>FUSES (MP)</u>	<u>HY10MJ-030</u>	<u>HY10MJ-060</u>
<u>HEATER MODEL</u>	<u>30 AMP</u>	<u>60 AMP</u>
40FS916321 GB,GM	2	2
" GY,HJ,HV	-	4
" ET,FE,FQ	2	2
" JF,JR	-	4
40FS916501 LW,PA	-	6

<u>CIRCUIT BREAKERS (MP)</u>	<u>HH83DH-030</u>	<u>HH83DH-060</u>
<u>HEATER MODEL</u>		
40FS916331 CD	2	-
" CP THRU EH	-	2
" ET THRU GM	2	2
" GY THRU JR	-	4

<u>SEQUENCER #1 (AC)</u>	
40FS916321 CP THRU DL	HN67BD-002
40FS916321 DX,EH	"
40FS916331 CD THRU EH	"
40FS916321 GB THRU HV	HN67BD-001
40FS916321 ET THRU JR	"
40FS916331 ET THRU JR	"

<u>SEQUENCER #2 (AC)</u>	
40FS916321 GB THRU HV	"
40FS916321 ET THRU JR	"
40FS916331 ET THRU JR	"



SPLIT SYSTEM HEAT PUMP UNIT

40FS
075-220

INSULATOR ASSY, LOOP TYPE (NS)	40FS680035	3/COIL
INSULATOR TERMINAL - MALE (MP)	50MH680016	2/COIL
INSULATOR TERMINAL - FEMALE (MP)	50MH680017	2/COIL
FAN RELAY (AC)	HN61KK-911	
LOW VOLTAGE TERMINAL BOARD (AC)	HY84HA-061	
EXCEPT 40FS916501 LW, PA WHICH USE (AC)	HY84HA-059	
TRANSFORMER (MP)	HT01AW-230	
220/230V PRIMARY, 24V SEC., 60VA.		
POWER TERMINAL BLOCK (AC)		
40FS916321 CP,DA,DF,DL,DX,DH ONLY	HY84FE-302	
40FS916501 EH,GM,HV ONLY	HY11UC-238	
LIMIT SWITCH (AC)		
<u>HEATER PACKAGE</u>	<u>LIMIT SWITCH</u>	
40FS916321 CP THRU JR	HH19ZA-140	1/COIL
(OPEN $-140+5^{\circ}\text{F}$ /CLOSE $-100+10^{\circ}\text{F}$)		
40FS916501 EH,GM,HV	HH19ZA-175	1/COIL
(OPEN $-150+5^{\circ}\text{F}$ /CLOSE $-100+10^{\circ}\text{F}$)		
40FS916501 LW,PA	HH19ZA-140 (2)	
(OPEN $-150+5^{\circ}\text{F}$ /CLOSE $-110+10^{\circ}\text{F}$)	HH19ZA-150 (4)	
FUSE BLOCK (AC)	HY11UM-460	
40FS916321 GB,GM,GY,HJ,HV,		
EH,ET,FE,FQ,JF,JR ONLY		
CABINET (SM2)	40FS680036	
40FS916501 LW,PA ONLY	40FS680053	
(WRAPPER AND TOP WELD ASSY)		
CABINET TOP (SM2)	40FS680037	
ALL BUT 40FS916501 LW, PA		
DOOR (SM2)	40FS680038	
HEAT SHIELD	40FS680039	
EXCEPT 40FS916501 LW,PA	40FS680053	