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COMFORT-AIRE HLH 096-460 Owner's Manual

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HLH 096-460](#)



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PARTS LIST

WATER SOURCE HEAT PUMPS

HLH/HLV

HEAT CONTROLLER, INC.

1900 Wellworth Ave. Jackson, MI 49203
www.heatcontroller.com
517-787-2100

HLH PARTS LIST		072		096			120		
		460	230	460	230	575	460	230	575
Part #	Item Description	3	3	3	3	3	3	3	3

Compressors

68832733	COMPRESSOR ZR 460V 3PH	2							
68832732	COMPRESSOR ZR 230V 3PH		2						
34B0031N03	COMPRESSOR ZR 460V 3PH			2					
34B0031N02	COMPRESSOR ZR 230V 3PH				2				
34B0031N04	COMPRESSOR ZR 575V 3PH					2			
70015728	COMPRESSOR ZR 460V 3PH						2		
70015710	COMPRESSOR ZR 230V 3PH							2	
70015711	COMPRESSOR ZR 575V 3PH								2

Compressor Mounting Hardware

56B0004N01	GROMMET, COMPRESSOR UPPER			8	8	8	8	8	8
68154408	GROMMET, COMPRESSOR UPPER	8	8						
68179401	SPACER, COMPRESSOR LOWER	8	8	8	8	8	8	8	8
56B0003N01	SPRING, COMPRESSOR	8	8	8	8	8	8	8	8
68544513	WASHER FLAT 3/8 ID NOM 7/8 OD	8	8	8	8	8	8	8	8
55B0002N01	SCREW 5/16-18X2.25 THREAD CUT	8	8	8	8	8	8	8	8
47F0047GNN	SPACER COMPRESSOR MTG SCROLL	6	6	6	6	6	6	6	6

Compressor Contactors

13B0003N01	CONTACTOR 3 POLE 30A 3PH	2	2	2	2	2	2	2	2
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Air Coil Assemblies without distributor attached

61B0076N01	AIR COIL 3 ROW 20x24	2	2						
61B0076N50	AIR COIL 3 ROW 20x24 E-COATED	2	2						
61B0077N01	AIR COIL 3 ROW 20x30			2	2	2			
61B0077N50	AIR COIL 3 ROW 20x30 E-COATED			2	2	2			
61B0020N02	AIR COIL 4 ROW 20x30						2	2	2
61B0020N50	AIR COIL 4 ROW 20x30 E-COATED						2	2	2

Blower Motors

68534857	MOTOR 1.5 HP 230/460V	1	1						
69799008	MOTOR 2 HP 230/460V	1	1						
68534858	MOTOR 2 HP 230/460V			1	1		1	1	
68534829	MOTOR 2 HP 575V					1			1
68143307	MOTOR 3 HP 230/460V			1	1		1	1	
68143308	MOTOR 3 HP 575V					1			1

Blower Motor Contactors

13B0002N01	CONTACTOR 2 POLE 30A 3PH	1	1	1	1	1	1	1	1
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Blower Motor Wheels and Housings

68140100	BLOWER ASSY 12X11T	2	2						
68624001	BLOWER WHEEL 10X10			2	2	2			
12331615	BLOWER HOUSING 10X10			2	2	2			
68536915	BLOWER ASSY 11X10R						2	2	2

HLH PARTS LIST		072		096			120		
		460	230	460	230	575	460	230	575
Part #	Item Description	3	3	3	3	3	3	3	3

Blower Motor Mounting Parts

S68257200	MOTOR MOUNTING HARDWARE PHTM	1	1	1	1	1	1	1	1
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Expansion Valve and Strainers

33B0002N16	EXPANSION VALVE BBIVE3	2	2						
68266319	EXPANSION VALVE BBIVE5			2	2	2			
33B0002N07	EXPANSION VALVE BBIVE6						2	2	2
68110002	STRAINER, EXPANSION VALVE 3/8"	4	4						
68110001	STRAINER, EXPANSION VALVE 1/2"			4	4	4	4	4	4

Reversing Valves with Solenoid

S69173500	REVERSING VALVE, w/Solenoid V3	2	2						
S69172600	REVERSING VALVE, w/Solenoid V6			2	2	2	2	2	2
15B0005N01	SOLENOID, RV 24V - BLACK			2*	2*	2*	2*	2*	2*
69170601	SOLENOID, RV 24V - RED			2*	2*	2*	2*	2*	2*

Water Coils, Non Insulated

70961201	COAX K084 COPPER	1	1						
70961202	COAX K084 CUPRO-NICKEL	1	1						
70949201	COAX K096 COPPER			1	1	1			
70949203	COAX K096 CUPRO-NICKEL			1	1	1			
70944802	COAX K120 COPPER						1	1	1
70944804	COAX K120 CUPRO-NICKEL						1	1	1

High Pressure and Loss of Charge Switches

68664002	HIGH PRESSURE SPNC 375/290 PSIG	2	2	2	2	2	2	2	2
68663903	LOSS OF CHARGE SPNC 10/32 PSIG	2	2	2	2	2	2	2	2

Controllers, Thermistors, Sensors, Harnesses

17B0001N01	CONTROLLER CXM	2	2	2	2	2	2	2	2
17B0002N01	CONTROLLER DXM	2	2	2	2	2	2	2	2
17B0007N01	CONTROL BOARD LON	2	2	2	2	2	2	2	2
11B0010N01	HARNESS DXM COM 2	1	1	1	1	1	1	1	1
17B0005N04	THERMISTOR CXM/DXM GRAY 96 INCH	2	2	2	2	2	2	2	2
17B0005N02	THERMISTOR CXM/DXM VIOLET 48 INCH	2	2	2	2	2	2	2	2
17B0008N01	THERMISTOR LON CONTROLLER	2	2	2	2	2	2	2	2
12B0005N01	SENSOR, CONDENSATE OVERFLOW	1	1	1	1	1	1	1	1
11B0007N02	HARNESS DXM/CXM 60 INCH LOW VOLTAGE	2	2	2	2	2	2	2	2

Transformers

15B0001N02	TRANSFORMER 50VA 24V 230V		1		1			1	
15B0001N05	TRANSFORMER 50VA 24V 460V	1		1			1		

Air Filters

68544402	FILTER 20X20X1 FIBERGLASS	1	1						
76B0001N04	FILTER 20X18X1 FIBERGLASS	2	2	1	1	1	1	1	1
76B0001N09	FILTER 20X25X1 FIBERGLASS			2	2	2	2	2	2

Miscellaneous Parts

AB8056	HANGER KIT, HORIZONTAL UNIT	1	1	1	1	1	1	1	1
54B0003N01	PAINT TOUCH UP PEN (POLAR WHITE)								
68418001	PAINT TOUCH UP SPRAY (POLAR WHITE)								
55B0003N01	SHEET METAL CABINET SCREWS								

Part Number	Description	REV LEVEL	HLH072	HLH096	HLH120
Access Panels, Side					
41F0094GFN	Access Panel, Side	B	1	1	
41F0095GFN	Access Panel, Side	B			1
Access Panels, End					
41F0093GFN	Side Panel, Comp & Air Handler	B	2	2	2
Access Panel, TXV					
41F0140GFN	Side Panel, TXV Access Cover	B	1		
41F0096GFN	Side Panel, TXV Access Cover	B		1	1
Access Panel, Electrical					
41F0098GNN	Side Panel, Electrical Access Cover	B	1	1	1
Blower Discharge Panel					
41S0147GFN	Blower Panel	B	1		
41S0097GFN	Blower Panel	B		1	
41S0092GFN	Blower Panel	B			1
Corner Post, Electrical					
44F0128GNN	Corner Post, Electrical	B	1	1	1
Corner Post, Drain					
44F0143GFN	Corner Post, Drain	B	1		
44F0127GFN	Corner Post, Drain	B		1	1
Corner Post, Air Coil					
44F0126GFN	Corner Post, Evap	B	1	1	1
Divider, Air Coil					
44F0129GNN	Post, Coil Center	B	1	1	1
Drain Pan					
49S0126GFP	Drain Pan, Painted	B	1	1	1
Duct Collar					
49F0157GNN	Duct Collar	B	8		
49F0121GNN	Duct Collar	B		8	8
Filter Bracket					
46F0362GNN	Filter Bracket, Top	B	1		
46F0360GNN	Filter Bracket, Bottom	B	1		
46F0365GNN	Filter Pull	B	1		
46F0166GNN	Filter Bracket, Top	B		1	1
46F0167GNN	Filter Bracket, Bottom	B		1	1
46F0363GNN	Filter Bracket, Top	B			1
46F0361GNN	Filter Bracket, Bottom	B			1
46F0364GNN	Filter Pull	B		1	1
Top Pan					
43F0163GFN	Top Pan	B	1	1	1

HLV PARTS LIST		080			100			120			160			200			240			300		
		460	230	575	460	230	575	460	230	575	460	230	575	460	230	575	460	230	575	460	230	575
Part #	Item Description	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

Compressors

68832722	COMPRESSOR ZR 460V 3PH	1									2											
68832721	COMPRESSOR ZR 230V 3PH		1									2										
68832723	COMPRESSOR ZR 575V 3PH			1									2									
34B0051N02	COMPRESSOR ZR 460V 3PH				1									2								
34B0051N01	COMPRESSOR ZR 230V 3PH					1									2							
34B0051N03	COMPRESSOR ZR 575V 3PH						1									2						
34B0052N02	COMPRESSOR ZR 460V 3PH							1									2					
34B0052N01	COMPRESSOR ZR 230V 3PH								1									2				
34B0052N03	COMPRESSOR ZR 575V 3PH									1									2			
34B0053N02	COMPRESSOR ZR 460V 3PH																			2		
34B0053N01	COMPRESSOR ZR 230V 3PH																				2	
34B0053N03	COMPRESSOR ZR 575V 3PH																					2

Compressor Mounting Hardware

79008920	KIT, COMPRESSOR MOUNTING	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
69127085	SCREW 5/16-18X1.75	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

Compressor Contactors

13B0003N01	CONTACTOR 3 POLE 30A 3PH	1		1	1		1	1		1	2		2	2		2	2		2			
13B0003N02	CONTACTOR 3 POLE 40A 3PH		1			1						2			2					2		2
13B0003N05	CONTACTOR 3 POLE 60A 3PH								1									2				2

Air Coil Assemblies without distributor attached

61B0078N01	AIR COIL 2 ROW 36x36	1	1	1							2	2	2									
61B0078N50	AIR COIL 2 ROW 36x36 E-COATED	1	1	1							2	2	2									
61B0079N01	AIR COIL 3 ROW 36x36				1	1	1	1	1	1				2	2	2	2	2	2			
61B0079N50	AIR COIL 3 ROW 36x36 E-COATED				1	1	1	1	1	1				2	2	2	2	2	2			
61B0020N02	AIR COIL 4 ROW 37.5x36																			2	2	2
61B0080N50	AIR COIL 4 ROW 37.5x36 E-COATED																			2	2	2

Blower Motors

68534857	MOTOR 1.5 HP 230/460V	1	1		1	1								2	2							
68534828	MOTOR 1.5 HP 575V			1			1									2						
69799008	MOTOR 2 HP 230/460V							1	1								2	2				
68534858	MOTOR 2 HP 230/460V							1	1								2	2				
68534829	MOTOR 2 HP 575V									1									2			
68143307	MOTOR 3 HP 230/460V										1	1								2	2	
68143308	MOTOR 3 HP 575V												1									2

Blower Motor Contactors

13B0002N01	CONTACTOR 2 POLE 30A 3PH	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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Blower Motor Wheels and Housings

68536905	BLOWER ASSY 12X9R	1	1	1							2	2	2									
68536906	BLOWER ASSY 15X15R				1	1	1	1	1	1				2	2	2	2	2	2	2	2	2

Blower Motor Mounting Parts

S81P0045N01	MOTOR MOUNTING HARDWARE	1	1	1	1	1	1	1	1	1	1	1	1									
S81P0045N02	MOTOR MOUNTING HARDWARE													1	1	1	1	1	1	1	1	1

HLV PARTS LIST		080			100			120			160			200			240			300		
		460	230	575	460	230	575	460	230	575	460	230	575	460	230	575	460	230	575	460	230	575
Part #	Item Description	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

Expansion Valve and Strainers

68266335	EXPANSION VALVE BBIVE8	1	1	1							2	2	2									
33B0005N04	EXPANSION VALVE EBSVE8				1	1	1	1	1	1				2	2	2	2	2	2			
33B0005N05	EXPANSION VALVE EBSVE11																			2	2	2
68110001	STRAINER, EXPANSION VALVE 1/2"	2	2	2							4	4	4									
79013101	STRAINER, EXPANSION VALVE 7/8"				2	2	2	2	2	2				4	4	4	4	4	4	4	4	4

Reversing Valves with Solenoid

S68537016	REVERSING VALVE, w/Solenoid V10	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2
15B0005N01	SOLENOID, RV 24V - BLACK	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2
69170601	SOLENOID, RV 24V - RED	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2

Water Coils, Non Insulated

70473501	COAX K060 COPPER	2	2	2				2	2	2	4	4	4				4	4	4	6	6	6
70473502	COAX K060 CUPRO-NICKEL	2	2	2				2	2	2	4	4	4				4	4	4	6	6	6
70930801	COAX K048 COPPER				2	2	2							4	4	4						
70930802	COAX K048 CUPRO-NICKEL				2	2	2							4	4	4						

High Pressure and Loss of Charge Switches

68664002	HIGH PRESSURE SPNC 375/290 PSIG	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2
68663903	LOSS OF CHARGE SPNC 10/32 PSIG	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2

Controllers, Thermistors, Sensors, Harnesses

17B0001N01	CONTROLLER CXM	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2
17B0002N01	CONTROLLER DXM	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2
17B0007N01	CONTROL BOARD LON	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2
11B0010N01	HARNESS DXM COM 2										1	1	1	1	1	1	1	1	1	1	1	1
17B0005N04	THERMISTOR CXM/DXM GRAY 96 INCH	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2
17B0005N02	THERMISTOR CXM/DXM VIOLET 48 INCH	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2
17B0008N01	THERMISTOR LON CONTROLLER	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
12B0005N01	SENSOR, CONDENSATE OVERFLOW	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2
11B0007N02	HARNESS DXM/CXM 60 INCH LOW VOLTAGE										2	2	2	2	2	2	2	2	2	2	2	2

Transformers

15B0002N05	TRANSFORMER 75VA 24V 480V	1			1			1			1			1			1			1		
15B0002N02	TRANSFORMER 75VA 24V 208-240V		1			1			1			1			1			1			1	
15B0002N06	TRANSFORMER 75VA 24V 575V			1			1			1			1			1			1			1

Air Filters

76B0001N09	FILTER 20X25X1 FIBERGLASS	2	2	2	2	2	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4	4
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Miscellaneous Parts

54B0003N01	PAINT TOUCH UP PEN (POLAR WHITE)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
68418001	PAINT TOUCH UP SPRAY (POLAR WHITE)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
55B0003N01	SHEET METAL CABINET SCREWS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Part Number	Description	REV	LEVEL	HLV080	HLV100-120	HLV160	HLV200-240	HLV300
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Wrapper, Water, LH

44S0113GFP	Wrapper, Water, LH	A	1					
44S0114GFP	Wrapper, Water, LH	A		1		1		
44S0115GFP	Wrapper, Water, LH	A						1
44S0116GFP	Wrapper, Water, LH	A			1			

Wrapper, Electric, RH

44S0117GFP	Wrapper, Electric, RH	A	1					
44S0118GFP	Wrapper, Electric, RH	A		1		1		
44S0119GFP	Wrapper, Electric, RH	A			1			
44S0120GFP	Wrapper, Electric, RH	A						1

Access Panel

41F0089GFP	Panel, Front & Rear Service	A	1	1	1	1	1	1
41F0090GFP	Panel, Middle	A	1	1	1	1	1	1

Blower Panel

43S0125GFP	Blower Panel - Front Discharge	A	1					
43S0126GFP	Blower Panel - Front Discharge	A		1		1		
43S0127GFP	Blower Panel - Back Discharge	A	1					
43S0128GFP	Blower Panel - Back Discharge	A		1		1		
43S0130GFP	Blower Panel - Top Discharge	A	1					
43S0131GFP	Blower Panel - Top Discharge	A		1				
43S0132GFP	Blower Panel - Top Discharge	A					1	
43S0133GFP	Blower Panel - Front Left / Back Right	A			1			
43S0134GFP	Blower Panel - Front Right / Back Left	A			1			
43S0135GFP	Blower Panel - Top Discharge	A			1			
43S0139GFP	Blower Panel - Top / Rear Return	A						1
43S0140GFP	Blower Panel - Top / Front Return	A						1

Top Panel

43F0137GFP	Top Panel	A	1	1				
43F0136GFP	Top Panel	A			1			
43F0138GFP	Top Panel	A				1	1	

Filter Rack

46F0159GNP	Filter Bracket, Top / Bottom	A	2	2	2	2	2	2
46F0160GNP	Filter Bracket, Left / Right	A	2	2	2	2	2	2
46F0161GNP	Filter Bracket, Middle	A	1	1	1	1	1	1