Advancing Water Heat Pump Technology

**SINCE 1980** 



# **Maintenance Log Book**

Model Number	Serial Number	
Refrigerant Type	Refrigerant Charge	

#### **Factory Commissioning Results**

	HP	LP	AMPS	AMPS	AMPS	Water Temp °C	Fan AMPS				
	(PSI)	(PSI)	(Red)	(White)	(Blue)		1	2	3	4	
System 1											
System 2											

## **Onsite Commissioning Data**

Please log initial start-up information during Commissioning process.

Completed by	Date			
Electrical connections are secure				
Compressor delay on make/break timer is operating correctly				
Compressor run current/amps				
Refrigerant operating pressures				
Fan run current/amps				
Fan motors rotating freely and in the correct direction				
Check flow switch functionality				
Water leaks from condenser/plate heat exchanger or associated interna	al pipe work			
Temperature controller configuration				
Evaporator coils are clean and clear of debris				
Drains are clear of debris and water is leaving the unit				

	HP	LP	AMPS		Water	Fan AMPS				
	(PSI)	(PSI)	(Red)	(White)	(Blue)	Temp °C	1	2	3	4
System 1										
System 2										

Comments			

Completed by	Date									
Six Monthly Checklist										
Electrical connections are secure, no sign of deterioration										
Compressor delay on make/break timer is operating correctly										
Compressor run current/amps										
Refrigerant operating pressures										
Fan run current/amps										
Condition of fan capacitors										
Fan motors rotating in correct direction										
Fan motor bearings for wear and that they rotate freely										
Check flow switch functionality										
Water leaks from condenser/plate heat exchanger or associated internal	pipe w	ork/								
Condensate drain holes are clear and that unit base is clean and free from	n debr	is								
Temperature controller configuration										
Panel/Chassis deterioration and repair as required										
Yearly Checklist										
Fan bracket assemblies for tightness and corrossion										
Crankcase heater operation										
Compressor compartment wiring for any signs of chafing										
Compressor compartment for any oil stains indicating refrigerant leaks										
Refrigeration pipe work for vibration or chafing										
Evaporator coil for dirt, dust or mildew and clean appropriately										
Repair any damaged evaporator fins with fin comb										
HP LP AMPS AMPS AMPS Water		Fan A	MPS							
(PSI) (PSI) (Red) (White) (Blue) Temp °C	1	2	3	4						
System 1										
System 2										
Comments										

Completed	l by					Date				
Six Month	ly Checkli	st								
Electric	cal connec	tions are s	secure, no	sign of det	erioration					
Compr	essor dela	y on make	/break tim	ner is opera	iting corre	ctly				
Compr	essor run	current/an	nps							
Refrige	erant opera	ating press	ures							
Fan rur	n current/a	amps								
Condit	Condition of fan capacitors									
Fan mo	otors rotat	ing in corre	ect direction	on						
Fan mo	otor bearin	igs for wea	ar and that	they rotate	e freely					
Check	flow switc	h function	ality							
Water I	eaks from	condense	er/plate he	at exchang	er or asso	ciated inter	nal pipe w	vork		
Conde	nsate draii	n holes are	clear and	that unit b	ase is clea	an and free	from debr	is		
Tempe	rature con	troller con	figuration							
Panel/	Chassis de	eterioratio	n and repa	ir as requir	ed					
Yearly Che	ecklist									
Fan bra	acket asse	mblies for	tightness	and corros	ssion					
Cranko	ase heate	r operatior	ı							
Compr	essor com	npartment	wiring for	any signs o	of chafing					
Compr	essor com	npartment	for any oil	stains indi	cating ref	rigerant leal	KS			
Refrige	eration pip	e work for	vibration c	or chafing						
Evapor	ator coil fo	or dirt, dus	t or mildev	v and clear	appropri	ately				
Repair	any dama	ged evapo	rator fins v	vith fin cor	nb					
		I		T						
	HP (PSI)	LP (PSI)	AMPS (Red)	AMPS (White)	AMPS (Blue)	Water Temp °C	1	Fan <i>A</i> 2	AMPS 3	4
System 1										
System 2										
Oystern 2	3,513 2									
Commen	ts		<u> </u>					<u> </u>	<u> </u>	

Completed	d by				Date					
Six Month	ly Checkli	st								
Electric	cal connec	ctions are s	secure, no	sign of det	erioration					
Compr	essor dela	y on make	e/break tim	ner is opera	ating corre	ctly				
Compr	essor run	current/an	nps							
Refrige	erant opera	ating press	ures							
Fan rui	Fan run current/amps									
Condition of fan capacitors										
Fan motors rotating in correct direction										
Fan mo	otor bearir	igs for wea	ar and that	they rotate	e freely					
Check	flow switch	h function	ality							
Water	leaks from	condense	er/plate he	at exchang	jer or asso	ciated inte	rnal pipe v	vork		
Conde	nsate draii	n holes are	clear and	that unit b	ase is clea	an and free	from debr	is		
Tempe	rature con	troller con	figuration							
Panel/	Chassis d	eterioratio	n and repa	ir as requir	red					
Yearly Che	ecklist									
Fan bra	acket asse	mblies for	tightness	and corros	ssion					
Cranko	ase heate	r operatior	า							
Compr	essor com	npartment	wiring for	any signs o	of chafing					
Compr	essor com	npartment	for any oil	stains indi	cating ref	rigerant lea	ks			
Refrige	eration pip	e work for	vibration c	or chafing						
Evapor	ator coil fo	or dirt, dus	t or mildev	v and clear	n appropri	ately				
Repair	any dama	ged evapo	rator fins v	with fin cor	nb					
									AMPS	
	HP (PSI)	LP (PSI)	AMPS (Red)	AMPS (White)	AMPS (Blue)	Water Temp °C	1	2	3	4
System 1										
System 2	System 2									
Comments										

Completed	d by				Date					
Six Month	ly Checklis	st								
Electric	cal connec	tions are s	secure, no	sign of det	erioration					
Compr	essor dela	y on make	/break tim	er is opera	ating corre	ctly				
Compr	essor run	current/an	nps							
Refrige	erant opera	ating press	ures							
Fan rui	n current/a	amps								
Condition of fan capacitors										
Fan motors rotating in correct direction										
Fan mo	otor bearin	gs for wea	ar and that	they rotate	e freely					
Check	flow switc	h function	ality							
Water	leaks from	condense	er/plate he	at exchang	jer or asso	ciated inte	rnal pipe v	vork		
Conde	nsate drair	n holes are	clear and	that unit b	ase is clea	an and free	from debr	is		
Tempe	rature con	troller con	figuration							
Panel/	Chassis de	eterioration	n and repai	ir as requir	ed					
Yearly Che	ecklist									
Fan bra	acket asse	mblies for	tightness	and corros	ssion					
Cranko	ase heate	r operation	1							
Compr	essor com	partment	wiring for	any signs o	of chafing					
Compr	essor com	partment	for any oil	stains indi	cating refr	rigerant lea	ks			
Refrige	eration pipe	e work for	vibration o	r chafing						
Evapor	ator coil fo	or dirt, dus	t or mildev	v and clear	n appropria	ately				
Repair	any dama	ged evapo	rator fins v	vith fin cor	nb					
	HP	LP	AMPS	AMPS	AMPS	Water		Fan A	MPS	
	(PSI)	(PSI)	(Red)	(White)	(Blue)	Temp °C	1	2	3	4
System 1										
System 2	System 2									
Commen	te									
Commen										

Completed	d by				Date					
Six Month	ly Checkli	st								
Electric	cal connec	tions are s	secure, no	sign of det	erioration					
Compr	essor dela	ıy on make	e/break tim	er is opera	ating corre	ctly				
Compr	essor run	current/an	nps							
Refrige	erant opera	ating press	ures							
Fan rui	n current/a	amps								
Condition of fan capacitors										
Fan motors rotating in correct direction										
Fan me	Fan motor bearings for wear and that they rotate freely									
Check	flow switc	h function	ality							
Water	leaks from	condense	er/plate he	at exchang	jer or asso	ciated inte	rnal pipe v	vork		
Conde	nsate draiı	n holes are	clear and	that unit b	ase is clea	an and free	from debr	is		
Tempe	rature con	troller con	figuration							
Panel/	Chassis de	eterioration	n and repa	ir as requir	ed					
Yearly Cho	ecklist									
Fan bra	acket asse	mblies for	tightness	and corros	ssion					
Cranko	ase heate	r operatior	1							
Compr	essor com	partment	wiring for	any signs o	of chafing					
Compr	essor com	partment	for any oil	stains indi	cating refi	rigerant lea	ks			
Refrige	eration pip	e work for	vibration o	or chafing						
Evapor	ator coil fo	or dirt, dus	t or mildev	v and clear	n appropri	ately				
Repair	any dama	ged evapo	rator fins v	vith fin cor	nb					
	HP (PSI)	LP (PSI)	AMPS (Red)	AMPS (White)	AMPS (Blue)	Water Temp °C			MPS	
	(1 31)	(1 31)	(Neu)	(vviiite)	(Blue)	Temp C	1	2	3	4
System 1										
System 2	System 2									
Commen	ts									

Completed	d by				Date					
Six Month	ly Checklis	st								
Electric	cal connec	tions are s	secure, no	sign of det	erioration					
Compr	essor dela	y on make	/break tim	er is opera	ating corre	ctly				
Compr	essor run	current/an	nps							
Refrige	erant opera	ating press	ures							
Fan rui	n current/a	amps								
Condition of fan capacitors										
Fan motors rotating in correct direction										
Fan mo	otor bearin	gs for wea	ar and that	they rotate	e freely					
Check	flow switc	h function	ality							
Water	leaks from	condense	er/plate he	at exchang	jer or asso	ciated inte	rnal pipe v	vork		
Conde	nsate drair	n holes are	clear and	that unit b	ase is clea	an and free	from debr	is		
Tempe	rature con	troller con	figuration							
Panel/	Chassis de	eterioration	n and repai	ir as requir	ed					
Yearly Che	ecklist									
Fan bra	acket asse	mblies for	tightness	and corros	ssion					
Cranko	ase heate	r operation	1							
Compr	essor com	partment	wiring for	any signs o	of chafing					
Compr	essor com	partment	for any oil	stains indi	cating refr	rigerant lea	ks			
Refrige	eration pipe	e work for	vibration o	r chafing						
Evapor	ator coil fo	or dirt, dus	t or mildev	v and clear	n appropria	ately				
Repair	any dama	ged evapo	rator fins v	vith fin cor	nb					
	HP	LP	AMPS	AMPS	AMPS	Water		Fan A	MPS	
	(PSI)	(PSI)	(Red)	(White)	(Blue)	Temp °C	1	2	3	4
System 1										
System 2	System 2									
Commen	te									
Commen										

Completed	d by				Date					
Six Month	ly Checkli	st								
Electric	cal connec	ctions are s	secure, no	sign of det	erioration					
Compr	essor dela	y on make	e/break tim	ner is opera	ating corre	ctly				
Compr	essor run	current/an	nps							
Refrige	erant opera	ating press	ures							
Fan rui	Fan run current/amps									
Condition of fan capacitors										
Fan motors rotating in correct direction										
Fan mo	otor bearir	igs for wea	ar and that	they rotate	e freely					
Check	flow switch	h function	ality							
Water	leaks from	condense	er/plate he	at exchang	jer or asso	ciated inte	rnal pipe v	vork		
Conde	nsate draii	n holes are	clear and	that unit b	ase is clea	an and free	from debr	is		
Tempe	rature con	troller con	figuration							
Panel/	Chassis d	eterioratio	n and repa	ir as requir	red					
Yearly Che	ecklist									
Fan bra	acket asse	mblies for	tightness	and corros	ssion					
Cranko	ase heate	r operatior	า							
Compr	essor com	npartment	wiring for	any signs o	of chafing					
Compr	essor com	npartment	for any oil	stains indi	cating ref	rigerant lea	ks			
Refrige	eration pip	e work for	vibration c	or chafing						
Evapor	ator coil fo	or dirt, dus	t or mildev	v and clear	n appropri	ately				
Repair	any dama	ged evapo	rator fins v	with fin cor	nb					
									AMPS	
	HP (PSI)	LP (PSI)	AMPS (Red)	AMPS (White)	AMPS (Blue)	Water Temp °C	1	2	3	4
System 1										
System 2	System 2									
Comments										

Completed	d by						Date	Date			
Six Month	ly Checkli	st									
Electric	cal connec	tions are s	secure, no	sign of det	erioration						
Compr	Compressor delay on make/break timer is operating correctly										
Compr	Compressor run current/amps										
Refrige	Refrigerant operating pressures										
Fan rui	Fan run current/amps										
Condit	ion of fan	capacitors									
Fan me	otors rotat	ing in corre	ect direction	n							
Fan mo	otor bearin	gs for wea	ar and that	they rotate	e freely						
Check	flow switc	h function	ality								
Water	leaks from	condense	er/plate he	at exchang	jer or asso	ciated inte	rnal pipe v	vork			
Conde	nsate draiı	n holes are	clear and	that unit b	ase is clea	an and free	from debr	is			
Tempe	rature con	troller con	figuration								
Panel/	Chassis de	eterioration	n and repai	ir as requir	ed						
Yearly Che	ecklist										
Fan bra	acket asse	mblies for	tightness	and corros	ssion						
Cranko	ase heate	r operation	1								
Compr	essor com	partment	wiring for	any signs o	of chafing						
Compr	essor com	partment	for any oil	stains indi	cating refr	rigerant lea	ks				
Refrige	eration pip	e work for	vibration o	r chafing							
Evapor	ator coil fo	or dirt, dus	t or mildev	v and clear	n appropria	ately					
Repair	any dama	ged evapo	rator fins v	vith fin cor	nb						
	HP	LP	AMPS	AMPS	AMPS	Water		Fan A	MPS		
	(PSI)	(PSI)	(Red)	(White)	(Blue)	Temp °C	1	2	3	4	
System 1											
System 2											
Commen	te										
Commen											

Completed	d by						Date			
Six Month	ly Checkli	st								
Electric	cal connec	ctions are s	secure, no	sign of det	erioration					
Compr	essor dela	y on make	/break tim	er is opera	ating corre	ctly				
Compr	essor run	current/an	nps							
Refrige	Refrigerant operating pressures									
Fan rui	Fan run current/amps									
Condition of fan capacitors										
Fan motors rotating in correct direction										
Fan mo	Fan motor bearings for wear and that they rotate freely									
Check	flow switch	h function	ality							
Water	leaks from	condense	er/plate he	at exchang	jer or asso	ciated inte	rnal pipe v	vork		
Conde	nsate draii	n holes are	clear and	that unit b	ase is clea	an and free	from debr	ris		
Tempe	rature con	troller con	figuration							
Panel/	Chassis d	eterioration	n and repai	ir as requir	ed					
Yearly Che	ecklist									
Fan bra	acket asse	mblies for	tightness	and corros	ssion					
Cranko	ase heate	r operatior	1							
Compr	essor con	npartment	wiring for	any signs o	of chafing					
Compr	essor con	npartment	for any oil	stains indi	cating refi	rigerant leal	ks			
Refrige	eration pip	e work for	vibration o	or chafing						
Evapor	ator coil fo	or dirt, dus	t or mildev	v and clear	n appropri	ately				
Repair	any dama	ged evapo	rator fins v	vith fin cor	nb					
	HP (PSI)	LP (PSI)	AMPS (Red)	AMPS (White)	AMPS (Blue)	Water Temp °C	1	Fan <i>A</i>	AMPS 3	4
System 1	( - /	( - /	( 33)	( 33,	( 1 1)		'		3	4
System										
System 2										
Commen	ts									

Completed	d by						Date	Date			
Six Month	ly Checkli	st									
Electric	cal connec	tions are s	secure, no	sign of det	erioration						
Compr	Compressor delay on make/break timer is operating correctly										
Compr	Compressor run current/amps										
Refrige	Refrigerant operating pressures										
Fan rui	Fan run current/amps										
Condit	ion of fan	capacitors									
Fan me	otors rotat	ing in corre	ect direction	n							
Fan mo	otor bearin	gs for wea	ar and that	they rotate	e freely						
Check	flow switc	h function	ality								
Water	leaks from	condense	er/plate he	at exchang	jer or asso	ciated inte	rnal pipe v	vork			
Conde	nsate draiı	n holes are	clear and	that unit b	ase is clea	an and free	from debr	is			
Tempe	rature con	troller con	figuration								
Panel/	Chassis de	eterioration	n and repai	ir as requir	ed						
Yearly Che	ecklist										
Fan bra	acket asse	mblies for	tightness	and corros	ssion						
Cranko	ase heate	r operation	1								
Compr	essor com	partment	wiring for	any signs o	of chafing						
Compr	essor com	partment	for any oil	stains indi	cating refr	rigerant lea	ks				
Refrige	eration pip	e work for	vibration o	r chafing							
Evapor	ator coil fo	or dirt, dus	t or mildev	v and clear	n appropria	ately					
Repair	any dama	ged evapo	rator fins v	vith fin cor	nb						
	HP	LP	AMPS	AMPS	AMPS	Water		Fan A	MPS		
	(PSI)	(PSI)	(Red)	(White)	(Blue)	Temp °C	1	2	3	4	
System 1											
System 2											
Commen	te										
Commen											

Completed by						Date				
Six Month	ly Checkli	st								
Electric	cal connec	tions are s	secure, no	sign of det	erioration					
Compr	Compressor delay on make/break timer is operating correctly									
Compr	Compressor run current/amps									
Refrige	Refrigerant operating pressures									
Fan rui	Fan run current/amps									
Condit	Condition of fan capacitors									
Fan me	Fan motors rotating in correct direction									
Fan me	otor bearin	gs for wea	ar and that	they rotate	e freely					
Check	flow switc	h function	ality							
Water	leaks from	condense	er/plate he	at exchang	jer or asso	ciated inte	rnal pipe v	vork		
Conde	nsate draiı	n holes are	clear and	that unit b	ase is clea	an and free	from debr	is		
Tempe	rature con	troller con	figuration							
Panel/	Chassis de	eterioration	n and repa	ir as requir	ed					
Yearly Cho	ecklist									
Fan bra	acket asse	mblies for	tightness	and corros	ssion					
Cranko	ase heate	r operatior	1							
Compr	essor com	partment	wiring for	any signs o	of chafing					
Compr	essor com	partment	for any oil	stains indi	cating refi	rigerant lea	ks			
Refrige	eration pip	e work for	vibration o	or chafing						
Evapor	ator coil fo	or dirt, dus	t or mildev	v and clear	n appropri	ately				
Repair	any dama	ged evapo	rator fins v	vith fin cor	nb					
	HP (PSI)	LP (PSI)	AMPS (Red)	AMPS (White)	AMPS (Blue)	Water Temp °C			MPS	
	(1 31)	(1 31)	(Neu)	(vviiite)	(Blue)	Temp C	1	2	3	4
System 1										
System 2										
Commen	ts									

Completed	d by						Date			
Six Month	ly Checkli	st								
Electri	cal connec	ctions are s	secure, no	sign of det	terioration					
Compi	essor dela	y on make	e/break tim	ner is opera	ating corre	ectly				
Compi	essor run	current/an	nps							
Refrige	Refrigerant operating pressures									
Fan ru	Fan run current/amps									
Condit	Condition of fan capacitors									
Fan m	otors rotat	ing in corre	ect direction	on						
Fan m	otor bearin	ngs for wea	ar and that	they rotate	e freely					
Check	flow switc	h function	ality							
Water	leaks from	condense	er/plate he	at exchang	ger or asso	ociated inter	nal pipe v	vork		
Conde	nsate draiı	n holes are	clear and	that unit b	ase is clea	an and free f	rom debi	ris		
Tempe	erature con	troller con	figuration							
Panel/	Chassis d	eterioratio	n and repa	ir as requir	red					
Yearly Ch	ecklist									
Fan br	acket asse	mblies for	tightness	and corros	ssion					
Cranko	ase heate	r operatior	ı							
Compi	essor com	npartment	wiring for	any signs o	of chafing					
Compi	essor com	npartment	for any oil	stains indi	icating ref	rigerant leak	S			
Refrige	eration pip	e work for	vibration c	or chafing						
Evapo	rator coil fo	or dirt, dus	t or mildev	v and clear	n appropri	ately				
Repair	any dama	ged evapo	rator fins v	with fin cor	mb					
	HP (PSI)	LP (PSI)	AMPS (Red)	AMPS (White)	AMPS (Blue)	Water Temp °C		1	AMPS	
	(1 31)	(1 31)	(ricu)	(Winte)	(Blue)	Temp 6	1	2	3	4
System 1										
System 2										
Commen	ts									

Completed by						Date	Date			
Six Monthly Checklist	t									
Electrical connecti	ions are s	ecure, no	sign of det	erioration						
Compressor delay on make/break timer is operating correctly										
Compressor run current/amps										
Refrigerant operating pressures										
Fan run current/amps										
Condition of fan capacitors										
Fan motors rotating	ng in corre	ect direction	n							
Fan motor bearing	gs for wea	r and that	they rotate	e freely						
Check flow switch	function	ality								
Water leaks from 0	condense	r/plate hea	at exchang	er or asso	ciated inter	rnal pipe v	vork			
Condensate drain	holes are	clear and	that unit b	ase is clea	an and free	from debr	is			
Temperature contr	roller con	figuration								
Panel/Chassis det	terioratior	n and repai	r as requir	ed						
Yearly Checklist										
Fan bracket assen	nblies for	tightness	and corros	ssion						
Crankcase heater	operation									
Compressor comp	oartment v	wiring for a	any signs o	of chafing						
Compressor comp	oartment t	for any oil	stains indi	cating refr	igerant leal	ks				
Refrigeration pipe	work for	vibration o	r chafing							
Evaporator coil for	r dirt, dust	t or mildew	and clear	appropria	ately					
Repair any damag	ed evapoi	rator fins v	vith fin con	nb						
НР	LP	AMPS	AMPS	AMPS	Water		Fan A	MPS		
(PSI)	(PSI)	(Red)	(White)	(Blue)	Temp °C	1	2	3	4	
System 1										
System 2										
Comments										

