Klinge Corporation

	P11 form for all NIVIF-372 models			
Date:	Serial number:	Location:		
Date of last pre trip inspection if known:		Container number:		
Note: Manual available on www.klingocorn.com; unit rovision number found on data plate				

Note: Manual available on www.klingecorp.com; unit revision number found on data plate. **Note**: Operational Test – It is important that equal loading be maintained on each of the redundant systems. As such it is required that the unit used for pull down (Unit A) alternates between each maintenance session. For archival purposes, record the following referencing the actual "Unit" identity:

UNIT A = "Unit	
UNIT B = "Unit	,,

PRE-OPERATIO	N TEST – conduct or	each system			Initial = OK
1. With NO P	OWER to the unit(s), che	eck unit visually for p	ohysical damage:		•
a. Re	frigeration unit(s) frame	for corrosion, struct	ural or defective damage		
	ing – no corrosion or ph	, and the second			
			d no appearance in defect	of structural integrity	
	ils – no visible damage o		1. 1. 100		
	bes – securely mounted				
	ol box cover and check t		onents are secured: n – no cracks, splits, or bar	ro conductoro	1
			y – no sticking, easy relea		
			tches hold the covers tight		
	nliness of the condense			ly oloocu.	
			for traces of oil or stains in	dicating small refrigerant	
Supply pov	ver to Unit(s) and close (B1 for each Unit, fo	or the following:		
6. Turn Unit A	ON and scroll to pressu	re readings for R23	HIGH and R134 HIGH, re	cord values	
		R-134A Stand-by:			
Turn Unit A					
			HIGH and R134 HIGH, re	cord values	
		R-134A Stand-by:			
Turn Unit E		<u> </u>			
	ST - Connect main po				System
	ne following test with o N, and unit "boots" on d				I
			NDS and select RUN AUT	∩ TEST	
a. ru	i. AUTO TEST comp			0 1201	
2. On Unit A.	adjust Set Point to -40 °				
	eck the rotation of all far		•		
	operation, record the fol		9		
	following ranges:				
Compressor 1	5 - 8 Amps	L1	L ₂	L3	
Compressor 2	5 - 8 Amps	L1	L2	L3	
Compressor 3	6 – 10 Amps	L1	L2	L3	
Condenser Fan	0.5 – 2 Amps	L1	L2	L3	
	•				
Evaporator Fan	.4 – 1.5 Amps	L1 Contact "Manual Def	L2	L3	
•		,	rost" through the COMMAI	עט menu)	
			p, condensing fan stops.		
	mpressor 3 remains ope		1 11 000		
	frost terminates when De	· ·			
	<u> </u>		250-300 PSI (17-21 Bar)		
	st terminates, run unit do		# ===		
Allow the u	nit to achieve set point a	nd cycle 2 times. A	after 2 nd cycle. Stop Unit A	and proceed to Step 7.	

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	. 500						
	i. R23 HIGH:		LOW:				
ii. R134 HIGH: LOW: 7. Turn Unit B ON, and unit "boots" on display. Alarm horn and light sound.							
	oll to COMMANDS and se			nii Souna.			
a. Our	i. AUTO TEST complet						
8. On Unit B. a	idjust Set Point to -42 °C.			n			
	eck the rotation of all fans.						
	ord pressures on Display						
	i. R23 HIGH:		LOW:				
	ii. R134 HIGH:		LOW:				
9. After 10 mir	nutes operation, record th	ne following in	formation:				
Should be w	vithin following ranges:			T			
Compressor 1	5 – 8 Amps	L1		L2		L3	
Compressor 2	5 – 8 Amps	L1		L2		L3	
Compressor 3	6 – 10 Amps	L1		L2		L3	
Condenser Fan	0.5 – 2 Amps	L1		L2		L3	
Evaporator Fan	.4 – 1.5 Amps	L1		L ₂		L3	
·	utes put unit on Manual D		"Manual Dof				
	npressor(s) 1 & 2 stop, E	•				illellu)	
	1 , , , , , , , , , , , , , , , , , , ,	•	stop, conde	nsing lan stops.			
	npressor 3 remains opera rost terminates when Defr		ro roodo 14 (n°C			
		•			\		
	eck R23 high pressure rea t terminates, run unit dow		y – 230-300	PSI (17-21 Dai)		
							<u> </u>
	nit to run for minimum 20 r		ot Switch Ox	var Svatam			<u> </u>
	nits off and proceed to ne. y Selector Switch to the "				by "Unit O" No	oto tho	
following:	y Selector Switch to the	i position. In	en turn Oni	t i on iollowed	by Unit 2. No	ote trie	
	ΓΗ alarm lights illuminate	and the horn s	ounds for 30	0-45 seconds.			
	 ΓΗ displays show "BOOTI				er beina turned	I ON.	
	r 30-45 seconds the alarr						
	it 1" proceeds into normal		1,	. ,			
	" operates for 5 minutes t	•	" power swit	ch to OFF.			
Note the following	•	_	•	-			
	it 1" Alarm light illuminate:						
f. "Un	<u> </u>						
g. "Un	g. "Unit 2" goes into start up procedure and then starts operation.						
h. Afte	h. After "Unit 2" starts operating the Alarm light and horn shut-off.						
16. While "Unit 2" is operating, flip the Primary Selector Switch to the "2" position and turn "Unit 1"							
i. "Unit 2" continues operation without interuption							
j. "Unit 1" display shows "BOOTING" and "ON" illuminates for approximately 30 seconds then turns							
off. "Unit 1" does not start normal operation.							
	17. Turn "Unit 2" off and Note:						
k. Alarm light illuminates and horn sounds							
I. "Unit 1" goes into start-up procedure and then begins normal operation							
	ystem, PTI complete.						
NOTES:							

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Test Operator Signature	Date	Quality Control Signature	Date

By signing this form we are acknowledging that any discrepancies in the recorded data have been noted and accepted.

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