Klinge Corporation
PTI form for all NMR 262-50 and NMG-115 systems

Date:	Container #:	Location:		
NMG Serial #:		Hour meter reading:		
NMR Serial #:		Date of last PTI (if known):		

Note: Manuals can be requested by contacting technical@klingecorp.com

If system is not supplied with NMG-115, disregard items referring to generator set, skip to *****

ii system is not supplied with Ning-115, disregard items referring to generator set, skip to """""	
With generator set power turned OFF, check unit visually for physical damage:	Check if OK
Inspect generator set for damage, missing parts and loose mounting bolts.	
Check fuel level. If necessary, add appropriate diesel fuel.	
Inspect fuel sediment bowl and strainer for water contaminates. Drain water from bowl, clean bowl and strainer if necessary.	
Check engine oil level. Add appropriate oil to dipstick mark, if needed.	
Check that no more than 500 hours or one year has passed since the fuel and oil filters have been replaced. If this time has passed replace filters and change oil. Write date and hours on new filters with permanent marker.	
Check air filter and air intake hoses are in good condition. Ensure all air system rubber hoses are clamped tightly. Check that the rubber vacuator valve is in good condition and faces down.	
Check fan belt for wear, cracks and proper tension. Tighten or replace if necessary.	
Make sure that the fan is not damaged and that the cooling air circulation is not obstructed.	
Check for frayed battery cables, cracked wire insulation and for clean and secure electrical connections. Clean and or replace as needed.	
Connect the refrigeration unit power cable to the generator set. Make sure that power switches on the generator set and both on the refrigeration unit are in the OFF position.	
Observe and record the hour meter reading at the top of the form.	

***** With NO POWER to the refrigeration unit, check unit visually for physical damage:	Check if OK
Ensure major hold-down bolts are tightened and main power cable fittings are in good condition.	
Open control box cover and check that all electric components are secured and that the terminal connections are tight using a screwdriver.	
Check the gasket on control box covers. Be sure the latches hold the covers tightly closed by confirming an indentation in the gasket from the control box lid.	
Check cleanliness of the condenser coils and steam or air clean if necessary.	
Check all refrigerant joints and connections thoroughly for traces of oil or stains indicating small refrigerant leak.	
Check and record voltage of generator set battery. The reading should be between 10 – 13 volts.	
Connect main power to unit and ensure battery charging cable connected between unit and generator set (must be connected even when running on shore/mains power).	
Open the control box lids and turn the main circuit breakers in both System 1 and 2 to ON.	
Start generator set.	
Wait until engine speed stabilizes and oil pressure reaches a minimum of 30 psi.	
Check intake air hose restriction indicator to ensure red indicator is not visible, if so, service air cleaner.	
Turn the generator circuit breaker ON.	
Turn both System 1 and System 2 ON and set both set points to -18C. Turn both systems OFF. NOTE: If too long of a time is taken between setting the two systems to the set point, alarm A41 may register, indicating that the set point of the two systems is more than 1C apart. This alarm is only an added safety measure and will go away as soon as the proper set points are entered on both systems. Turn both systems OFF.	

System 1	System 1
On System 1, initiate the function test by holding "Manual Defrost" switch ON while switching its ON/OFF switch to the ON position. All System 1 thermostat LEDs will flash to indicate they work. Turn on System 2.	
Watch the LEDs and follow the side label on the System 1 thermostat as it steps through the test. If it stops at any step there is a fault associated with the item indicated. After the function test ends, System 1 will go into normal operation and indicate it is the "primary system" via the controller LED.	
Wait 5 minutes and then check and record voltage of battery. The reading should be between 13 – 14 volts when on generator power and approximately 12 – 13 volts when on shore/mains power.	
Record incoming main power voltage.	

Form: PROD 023b, Revision: D

			motor, the contached me	tor and the evaporator me	otor. Snould not exceed	uno romovimig.
Compressor	14 Amps		L1	L2	L3	
Condenser Fan	1.5 Amps	Ī	L1	L2	L3	
Evaporator Fan	0.7 Amps	Ī	L1	L2	L3	
Check the rotatio	n of all fans.	See ar	rows marking correct dire	ction. This includes both	checking the external	
condenser fan and opening the evaporator door to make sure that evaporator fans are properly rotating. Keep						
evaporator door	pen for the ne	ext ste	p.		. , , , , , , , , , , , , , , , , , , ,	
In the evaporator	section, verify	/ prope	er location of defrost prob	es. Defrost probes should	d be securely inserted	
			e and latch evaporator se		,	
After temperature	reaches at le	ast -5°	°C put unit on manual defi	rost by holding the defros	t switch on for 5	
			ue to run, the fans will sto			
After defrost term	inates, the un	it will s	switch over to System 2 ru	inning as primary. This is	normal operation.	
			n back ON again. Run sy			
			t glasses. The balls in the			
			signt glass should be float			
			ntainer and verify air is ci		the T-sections of the	
container floor.	3,		,	J		
While inside the	ontainer, veri	fv prop	er location of return prob	es – securely fastened to	vertical fixture prior to	
evaporator coil.	, , , , , , , , , , , , , , , , , , , ,	7 -	p		риссина	
	it breaker of S	System	1 OFF and verify activati	on of alarm horn and ligh	t	
			.			
			stem 2 to take over as the System 1 to System 2 ma		cated on System 2	
		HOIH	System 1 to System 2 ma	ay take a few fillinutes.		
Turn OFF both sy	rsterns.					
System 2						System 2
On System 2, init	iate the function	on test	by holding "Manual Defro	ost" switch ON while switch	ching its ON/OFF	
switch to the ON	position. All S	System	2 thermostat LEDs will fl	ash to indicate they work.	Do not turn on	
System 1.						
Watch the LEDs	and follow the	side la	abel on the System 2 ther	mostat as it steps through	n the test. If it stops at	
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Verify that alarm condition causes System 1 to take over as the Primary System (as indicated on System 1

Turn OFF both refrigeration systems, then turn OFF the generator set.

controller).

General	
Ensure both control boxes are properly secured in their locked positions and control box lid is firmly closed.	
If bottom receiver sight glass balls are not floating, check thoroughly for refrigerant leaks.	
Check spare parts box security seal, if broken or missing. Ensure Spare Parts box is complete (comparing to label inside box lid). List any missing items in "Notes" section below.	
Data logger	
Press the blue button on the data logger until "Journey Ticket Numerical" is displayed. Attach data logger printout to this PTI form. - If data logger does not print ticket, check for printer paper. Insert new paper roll in printer. - If data logger printout has vertical stripe of color (red or purple), paper roll is close to end. Replace with new paper roll.	
Set data logger to customer's required product limits; verify entry and storage of the values.	
Verify that the alarm function of the data logger is activated if customer has required this.	
Notes:	

Signature:

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