



**COMMISSIONING WORKSHEET AND CHECKLIST
M SERIES INSTALLATION
UFS-611 REVISION 1.00 PAGE 1 OF 3**



DATE	
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LOCATION INFORMATION	
User	
Address 1	
Address 2	
City, State, Zip	

SPRINKLER SYSTEM INFORMATION	
NO. OF RISERS	
SYSTEM GALLONS	

NITROGEN-PAC™ SYSTEM INFORMATION – SERIAL NUMBERS	
Compressor / Tank Assembly (CTA)	
Refrigerated Dryer (RD)	
Nitrogen Generator Module (NGM)	
Nitrogen Receiver (NR)	

PRELIMINARY	OK	NOT OK
Are all electrical connections complete?		
Are all piping connections complete?		
Is the compressor properly filled with oil?		
Is the N2 purity test port on the Nitrogen Generator Module (NGM) properly attached?		
Is the water supply to the sprinkler valve off?		
Are all system valves CLOSED, including all valves in Table 12 and all NMD-1 valves?		

STARTUP	OK	NOT OK
Has the Refrigerated Dryer (RD) been turned ON, and allowed to stabilize for minimum 15 minutes?		
Has the power to the Compressor / Tank Assembly (CTA) been turned ON; has the compressor started; and has the gauge on the right size of the CTA begun to indicate?		
Has the compressor shut off, and has Valve 1 been <i>carefully</i> opened all the way?		
Has the Filter / Regulator been adjusted to read 145 PSIG on its gauge?		
Has all piping from CTA to RD, and from RD to NGM, been checked for leaks, and if any leaks were found, were the leaks corrected?		
Have Valves 8 and 9 (if present) and Valve 12 been opened?		
Has Valve 3 been <i>carefully</i> opened, and have the gauges in the NGM begun to indicate?		
Has the Nitrogen Analyzer (NA-1) been switched ON, and calibrated if necessary?		
Has the NA-1 been connected to the N2 Purity Test Port on the NGM?		
Has Valve 10 been <i>carefully</i> opened just until hissing is heard from the holes on the NA-1?		
Has 15 minutes elapsed to allow membrane separator to stabilize?		
Have Valves 3 and 10 been closed?		
Has Valve 2 been opened?		
Has Valve 5 been opened, and has the gauge on the Nitrogen Receiver (NR) begun to indicate?		

STARTUP (Continued)	OK	NOT OK
Has all piping from NGM to NR been checked for leaks, and if any leaks were found, were the leaks corrected?		
Has Valve 6 been opened?		
Has all piping from NR to NMD-1 been checked for leaks, and if any leaks were found, were the leaks corrected?		
Has the NMD-1 inlet valve been opened, and has the NMD-1 pressure gauge begun to indicate?		
Has the NMD-1 regulator been adjusted to indicate a gauge pressure 5-10% above the minimum pressure required by the valve pressure switch?		

30 MINUTE FIRST FILL	OK	NOT OK
Is Valve 1 open?		
Are valves 2, 3, and 4 closed?		
Are valves 5, 6, and 7 closed?		
Are NMD-1 inlet / outlet valve(s) closed?		
Are NMD-1 bypass valves open?		
Are Valves 2 and 7 open? Is sprinkler system beginning to fill with air?		
Did sprinkler system reach supervisory pressure in 30 minutes or less?		
If sprinkler system did not reach supervisory pressure in 30 minutes or less, has sprinkler system been checked for leaks and have leaks been corrected?		

PURGING	OK	NOT OK
Has Valve 2 been closed, and have Valves 3 and 4 been opened?		
Has Valve 7 been closed, and have Valves 5 and 6 been opened?		
Have the NMD-1 inlet / outlet valve(s) been opened, and the NMD-1 bypass valves been closed?		
Have the valves on all PVA-1s been opened?		
Have all valves been checked to ensure they are in the NORMAL position per the Quick Reference Valve Position Table?		
Has the N2 purity percentage been measured and recorded at the NGM, and is it 98%?		
Has the N2 purity percentage been measured and recorded at each PVA-1?		
Have the values on all system gauges been recorded?		

RECORDED VALUES AT START OF PURGING	VALUE	UNITS
Gauge on Filter / Regulator attached to Compressor / Tank Assembly (CTA)		PSIG
Gauge on inlet side of membrane in Nitrogen Generator Module (NGM)		PSIG
Gauge on outlet side of membrane in Nitrogen Generator Module (NGM)		PSIG
Gauge on Nitrogen Receiver (NR)		PSIG
Gauge on Nitrogen Maintenance Device (NMD-1)		PSIG
Nitrogen Analyzer (NA-1) reading attached to Purity Test Port on NGM		% N2
Nitrogen Analyzer (NA-1) reading attached to Purge Vent Assembly (PVA-1)		% N2



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FINAL ACCEPTANCE	OK	NOT OK
Is the N2 purity reading at the NGM 98% or more?		
Is the N2 purity reading at the PVA-1(s) 98% or more?		
Has the system been turned over to the customer / user?		

FINAL ACCEPTANCE SIGNATURES			
	PRINT NAME	SIGNATURE	DATE
CUSTOMER			
INSTALLING CONTRACTOR			