ND-SA Series Start-Up Report

Important – To ensure warranty validation and continued customer satisfaction, complete this form and return it to Desert Aire immediately after start-up. Validation of this report activates the warranty.

Desert Aire Corporation
c/o Service and Warranty Department
N120 W18485 Freistadt Road
Germantown, WI 53022
(800) 443-5276

Instructions

- **Warning –** Only trained, qualified personnel should install and service Desert Aire equipment. Serious injury or death can result from improper handling of this equipment. High voltage electrical components and refrigeration under pressure are present.
- Before continuing, read the Installation and Operations manual. If you do not fully understand the manual contact the Desert Aire Service Department. Please be prepared with the model and serial numbers located on the rating plate of the unit.
- Use one start-up report per unit. Print or type all information. If there is not enough space available for readings or comments please attach additional pages directly to the start up report.

Location and Unit Information (All Fields Must Be Completed)

Jobsite Name: _____ Date: _____

Jobsite Address: _____

(City, State, Zip): _____ Telephone #: (_____) _____

Owners Name: _____ Telephone #: (_____) _____

Owners Email: _____

Dehumidifier Model #: _____ Serial #: _____

Remote Condenser Model #: _____ Serial #: _____

Form Completed By (Print): _____ Signed: _____

Company Name: _____ Telephone #: (_____) _____

Desert Aire Representative: _____

Installer's Name: _____ Telephone # (_____) _____

New Construction Project? (Yes / No)

If retrofit, what product / supplier is being replaced? _____

_____

**** Denotes that this is a model dependant item***

Proper Installation Checklist		
❑ Installation manual read and understood	❑ Tighten all field and factory wiring	❑ Open all refrigeration service valves and tighten packing nuts
❑ Dehumidifier installed and leveled properly	❑ Adjust and tighten blower belts if necessary	❑ Check field and factory piping for leaks
❑ Condensate drain trapped and primed	❑ Check rotation of blower on 3 phase units	❑ Inspect air filters. Clean or replace as necessary
❑ Verify that the power supply matches the rating plate	❑ Check rotation of remote condenser fans	

Unit Power Supply Information		
Voltage at power block - No motors running	L1-L2	
	L2-L3	
	L1-L3	
Control Voltage and VA rating No Motors running	Volts	VA
	Volts	VA
	Volts	VA

Remote Condenser Information*			
		Circuit A	Circuit B
Line Sizes	Hot Gas		
	Liquid		
Line Set Length (in feet)			
Condenser Elevation (in feet)		Above / Below	
Voltage - motors off			

Air Flow Readings: Refer to Installation and Operations manual for correct balancing procedures.			
Evaporator Static Pressure Drop	"WC	Exhaust Pressure Set point*	"WC
Reheat Condenser Static Pressure Drop	"WC	Exhaust Differential (read off the Display)*	"WC
Supply Duct Static Pressure Drop	"WC	Outside air % open in occupied mode*	%
Return Duct Static Pressure Drop	"WC	Outside air % open in unoccupied mode*	%

Blower Information			
	Supply Blower	Exhaust Blowers*	
Voltage at Design Airflow	L1-L2	L1-L2	L1-L2
	L2-L3	L2-L3	L2-L3
	L1-L3	L1-L3	L1-L3
Amperage at Design Airflow	L1	L1	L1
	L2	L2	L2
	L3	L3	L3

Water Flow Information*		
	Circuit A*	Circuit B*
GPM		
Pipe Size		
Lines Bled	Yes / No	Yes / No
Heat Tape Powered	Yes / No	Yes / No
Auxiliary Pool Heater Installed		Yes / No
Interlocked w/Desert Aire Controller		Yes / No

Temperature Readings				
Room Air Temperature	°F		Room Relative Humidity	%rH
Outdoor Air Temperature	°F		Outdoor Relative Humidity	%rH
Water Temp. (Main Pool)	°F		Water Temp. (Spa or Other)*	°F

Compressors and Refrigeration in Reheat Mode				
	Circuit A		Circuit B	
Motor # (see wiring schematic for detaills)				
Voltage measured with the compressors operating	L1-L2	L1-L2	L1-L2	L1-L2
	L2-L3	L2-L3	L2-L3	L2-L3
	L1-L3	L1-L3	L1-L3	L1-L3
Amperage	L1	L1	L1	L1
	L2	L2	L2	L2
	L3	L3	L3	L3
Head Pressure	Psig		Psig	
Suction Pressure	Psig		Psig	
Refrigerant Sight Glass Clear	Yes / No		Yes / No	
Suction Line Temp at TXV Bulb	°F		°F	
Calculated Superheat	°F		°F	
Liquid Line Temp at Sight Glass	°F		°F	
Calculated Subcooling	°F		°F	
Compressor Oil Level Sight Glass (level should be at least 3/4 full at completion of the start-up)	1/2 3/4 Full	1/2 3/4 Full	1/2 3/4 Full	1/2 3/4 Full

Compressors and Refrigeration in Pool Water Heating Mode		
	Circuit A	Circuit B
Head Pressure	Psig	Psig
Suction Pressure	Psig	Psig
Water Inlet Temperature	°F	°F
Water Outlet Temperature	°F	°F

Compressors and Refrigeration in Cooling Mode* (Remote Condenser Active)				
	Circuit A		Circuit B	
Head Pressure	Psig		Psig	
Suction Pressure	Psig		Psig	
Hot Gas Line Temp (to Remote)	°F		°F	
Liquid Line Temp (From Remote)	°F		°F	
Calculated Subcooling	°F		°F	
Refrigerant Sight Glass Clear	Yes / No		Yes / No	
Compressor Oil Level Sight Glass (level should be at least 3/4 full at completion of the start-up)	1/2 3/4 Full	1/2 3/4 Full	1/2 3/4 Full	1/2 3/4 Full

Remote Condenser Fan Cycling Switch Settings						
Circuit A				Circuit B		
#	Cut In	Differential		#	Cut In	Differential
1	Psig	Psig		1	Psig	Psig
2	Psig	Psig		2	Psig	Psig
3	Psig	Psig		3	Psig	Psig
4	Psig	Psig		4	Psig	Psig
5	Psig	Psig		5	Psig	Psig

Auxiliary Water / Steam Coil Information*				
	Signal	Inlet Temp.	Outlet Temp.	Discharge Air Temp.
Water Coil		°F	°F	°F
Steam Coil		°F	°F	°F

Auxiliary Electric Heater Information*					
	Signal	L1 Amps	L2 Amps	L3 Amps	Discharge Air Temp
Electric Heater					°F

Additional Comments: _____

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