



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
N120W18485 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

Installation Name: _____

Installation Address: _____

Desert Aire Representative: _____

Dehumidifier Model #: _____ Serial #: _____

Remote Condenser Model #: _____ Serial #: _____

Form Completed By (Print): _____ Signed: _____

Company Name: _____ Date: _____

Company Address: _____ Telephone #: (____) _____

_____ Fax #: (____) _____

Application (Pool, Spa, Other): _____

* Denotes that this is a model dependant item

Proper Installation Checklist		
<input type="checkbox"/> Installation manual read and understood	<input type="checkbox"/> Tighten all field and factory wiring	<input type="checkbox"/> Open all refrigeration service valves and tighten packing nuts
<input type="checkbox"/> Dehumidifier installed and leveled properly	<input type="checkbox"/> Adjust and tighten blower belts if necessary	<input type="checkbox"/> Check field and factory piping for leaks
<input type="checkbox"/> Condensate drain trapped and primed	<input type="checkbox"/> Check rotation of blower on 3 phase units	<input type="checkbox"/> Inspect air filters. Clean or replace as necessary
<input type="checkbox"/> Verify that the power supply matches the rating plate	<input type="checkbox"/> Check rotation of remote condenser fans.	<input type="checkbox"/> 120 volt circuit run to heat trace and powered up.

Unit Power Supply Information				
Voltage at power block - No motors running	L1-L2	Control Voltage - No Motors running	Transformer 1	VA Rating
	L2-L3		Transformer 2	VA Rating
	L1-L3		Transformer 3	VA Rating

Line-set Installation – Refer to Installation and operation manual for instructions			
Lineset Length		Elevation Change	ABOVE / BELOW
Hot gas line trapped at every riser	Yes / No	Check valve installed in hot gas line at remote condenser	Yes / No
Line-set pitched in direction of flow	Yes / No	Line-set Clamped per I/O Manual	Yes / No
Line Sizes	Circuit A		Circuit B
	Hot Gas		Hot Gas
	Liquid Return		Liquid Return
Additional R410A Added	LBS		LBS
Additional Oil Added	OZS		OZS
Flush Cycle Enabled	Yes / No	Yes / No	Yes / No

Fan Cycle Controller Settings – Refer to Installation and operation manual for instructions						
SENS	SN-1		SN-2		SN-3	
OUTR ¹	ON ¹	OFF ¹	ONT ¹	OFT ¹	SNF ¹	SENS ¹
OUTR ²	ON ²	OFF ²	ONT ²	OFT ²	SNF ²	SENS ²
OUTR ³	ON ³	OFF ³	ONT ³	OFT ³	SNF ³	SENS ³
OUTR ⁴	ON ⁴	OFF ⁴	ONT ⁴	OFT ⁴	SNF ⁴	SENS ⁴

Air Flow Readings: Refer to Installation and Operations manual for correct balancing procedures.			
Evaporator Pressure Drop	"wc	VOC Setpoint*	ppm
Reheat Condenser Pressure Drop	"wc	VOC as read off the display*	ppm

Airflow Settings: Refer to Installation and Operations manual for correct balancing procedures.					
	Unoccupied	Occupied	Event	Max OA	Purge
Design OA	CFM	CFM	CFM	CFM	CFM
Actual OA	CFM	CFM	CFM	CFM	CFM
OA Setpoint	"WC	"WC	"WC	"WC	"WC
Damper Pos	%	%	%	%	%
Design Exhaust	CFM	CFM	CFM	CFM	CFM
Actual Exhaust	CFM	CFM	CFM	CFM	CFM
Low VFD Command	%	%	%	%	%
Exhaust.VFD	%	%	%	%	%
Space Pressurization	"WC	"WC	"WC	"WC	"WC
Return Duct Static Pres	"WC	"WC	"WC	"WC	"WC
Supply Duct Static Pres	"WC	"WC	"WC	"WC	"WC
The following pertains to indoor units only – Readings to be taken in highest CFM mode applicable					
Exhaust Duct Static Pressure	"WC	Outside Air Duct Static Pressure	"WC		
Exhaust Fan Total Static Pressure (Pressure Diff from inlet of fan to the exhaust duct)			"WC		

Blower Information			
Amperage at Design Airflow	Supply Blower	Exhaust Blowers @ Highest Exhaust CFM	
	L1	L1	L1
	L2	L2	L2
	L3	L3	L3

Temperature Readings			
Room Air Temperature	°F	Room Relative Humidity	%
Outdoor Air Temperature	°F	Outdoor Relative Humidity	%
Water Temp (main pool)	°F	Water temp (spa or other)*	°F

Compressors and Refrigeration in Reheat Mode				
	Circuit A		Circuit B	
Motor #				
RLA off nameplate	amps	amps	amps	amps
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	
Superheat	°F		°F	
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	F	1/2 3/4 F

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	
Refrigerant Sight Glass Clear	Yes / No		Yes / No	
Superheat	°F		°F	
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	F	1/2 3/4 F

Auxiliary Water / Steam Coil Information*				
	Signal	Inlet Temp	Outlet Temp	Discharge Air Temp
Water Coil		°F	°F	°F
Steam Coil		°F	°F	°F
Confirm Freeze Stat Operation				
Valve opens on freeze condition		Yes / No	OA Damper Closes	Yes / No

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

Building Management System Information*		
Communication Type (circle one)	BACnet MS/TP - BACnet Ethernet - Modbus - Lon - N/A	
BACnet MS/TP	Device Instance	
	MAC Address	
	Baud Rate	
BACnet Ethernet	IP Address	
	Netmask	
	Gateway	
Modbus	Baud Rate	
	Address	

Additional Comments: _____



HE / HF Duct Furnace - Start-up Information and Test Data

Heatco Model No.: _____ Serial No.: _____ Start-up Date: _____

Appliance Mfr.: _____ Model No. _____ Serial No. _____

Burner Mfr.: _____ Burner Model No.: _____ Serial No.: _____

Start-Up Contractor: _____ Technician: _____ Phone: _____

Set-up Data: Gas Type: _____, Voltage to Heater _____, Inlet Supply Gas Pressure (Heater Off) _____

	<u>Low Fire</u>	<u>High Fire</u>
Inlet Supply Gas Pressure (Heater On)	_____ " w.c.	_____ " w.c.
Gas Train Regulator Outlet Pressure (Measured At First Valve)	_____ "w.c.	_____ " w.c.
Gas Press. @ Burner Manifold	_____ " w.c.	_____ " w.c.
Flame Signal Reading	_____ mA/V	_____ mA/V
O ₂ in Flue Gas	_____ %	_____ %
CO ₂ in Flue Gas	_____ %	_____ %
CO in Flue Gas	_____ ppm	_____ ppm
Flue Gas Temp @ Discharge	_____ oF	_____ oF
Efficiency	_____ %	_____ %
Temperature Rise	_____ oF	_____ oF

<u>Operation checklist</u>	<u>YES</u>	<u>NO</u>	<u>YES</u>	<u>NO</u>
All Gas Lines & Connections Checked For Leaks	()	()	Airflow Proving Switch Installed	() ()
Condensate Drain Lines Installed	()	()	Auxiliary High Limit Installed	() ()
Complete Vent System Installed	()	()	Limits Function Properly	() ()
Flame Visible Through All Ports @ Low Fire (VA Burner Only)	()	()		() ()

Gas Pressure Switch Settings (If Present) Low 1 = _____, Low 2 = _____, High = _____

SCEBM-2 "F-Lo" Setting (VA Burner Only) _____ SCEBM-2 "F-Hi" Setting (VA Burner Only) _____

Describe System Deficiencies (If Present):

Burner Start-Up Must Be Performed By Qualified Burner Technician

One Copy Of This Start-Up Data Sheet Must Be Returned To Heatco Inc., 50 Heatco Court, Cartersville, GA 30120 To Activate Warranty Coverage.