



TotalAire 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 #: (____) _____
Application: _____	

* 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*				
This pertains to units with Remote Outdoor Condensers. Refer to Installation and operation manual for instructions				
Lineset Length		Elevation Change	ABOVE / BELOW	
Hot gas line trapped at every riser	Yes / No	Inverted traps at top of last riser	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	

Fan Cycle Controller Settings*						
This pertains to units with Remote Outdoor Condensers. 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.			
Supply Airflow			
Evaporator Pressure Drop	"wc	Supply Duct Static Pressure	"wc
Reheat Condenser Pressure Drop	"wc	OA Duct Static Pressure	"wc
Enthalpy Wheel Pressure Drop	"wc	Evap + Reheat Press Drop (QVSmall)	"wc
Exhaust Airflow – Wheeled units only			
Enthalpy Wheel Pressure Drop	"wc	Return Duct Static Pressure	"wc
		Exhaust Duct Static Pressure	"wc
Motor Information			
	Supply Blower	Exhaust Blower*	Ehthalpy Wheel Motor*
FLA off Nameplate	Amps	Amps	Amps
Amperage at Design Airflow	L1	L1	L1
	L2	L2	L2
	L3	L3	L3

Temperature Readings			
Outdoor Air Temperature	°F	Outdoor Relative Humidity	%

Compressors and Refrigeration in Cooling/Dehumidification Mode (Airside Evaporator Coil Active)				
	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

Water Flow Information*		
	Circuit A	Circuit B
Pipe Size		
Flow Rate	GPM	GPM

Compressors and Refrigeration in Heat Pump Mode* (Chiller Barrel 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
Water In Temperature*	°F	°F
Water Out Temperature*	°F	°F
Compressor Oil Level Sight Glass* (level should be at least 3/4 full at completion of the start up)	½ ¾ F	½ ¾ F

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

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	

