

Residential Package Dual Fuel Start-Up Sheet

Proper start-up is critical to customer comfort and equipment longevity

Start-Up Date	Company Name	Start-Up Technician
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Owner Information

Name	Address	Daytime Phone
City	State or Province	Zip or Postal Code

Equipment Data

Unit Model #	Unit Serial #
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General Information (Check all that apply)

<input type="radio"/> Residential	<input type="radio"/> New Construction	<input type="radio"/> Roof level	<input type="radio"/> Down flow
<input type="radio"/> Commercial	<input type="radio"/> Retrofit	<input type="radio"/> Grade level	<input type="radio"/> Side flow

Unit Location and Connections (Check all that apply)

<input type="checkbox"/> Unit is level and installed on:	<input type="checkbox"/> Slab	<input type="checkbox"/> Roof curb	<input type="checkbox"/> Duct connections are complete:	<input type="checkbox"/> Supply	<input type="checkbox"/> Return
<input type="checkbox"/> Condensate drain properly connected per the installation instructions		<input type="checkbox"/> Condensate trap has been primed with water			

Filters

<input type="checkbox"/> Filters installed	Number of filters	Filter size	<input type="radio"/> Filter located inside	<input type="radio"/> Filter located outside
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Additional Kits & Accessories Installed (Check all that apply)

<input type="checkbox"/> Refrigerant safety kit	<input type="checkbox"/> Low ambient kit	<input type="checkbox"/> Anti-recycle timer	<input type="checkbox"/> Crank case heater	<input type="checkbox"/> Filter frame kit
<input type="checkbox"/> Transformer kit	<input type="checkbox"/> Economizer	<input type="checkbox"/> Roof curb kit	<input type="checkbox"/> Burglar bar kit	<input type="checkbox"/> Hail guard kit
<input type="checkbox"/> Manual fresh air damper kit		<input type="checkbox"/> Motorized fresh air damper kit		

Electrical Connections & Inspection (Check all that apply)

<input type="radio"/> Single phase	<input type="radio"/> Three phase	<input type="radio"/> 208 volts AC	<input type="radio"/> 230 volt AC	<input type="radio"/> 460 volts AC	<input type="radio"/> 575 volts AC
<input type="checkbox"/> Inspect wires and electrical connections		<input type="checkbox"/> Transformer wired properly for primary supply voltage		<input type="checkbox"/> Ground connected	
<input type="checkbox"/> Low voltage present at control board "R & C"		Measured voltage "R" and "C" outdoor unit control board			
<input type="checkbox"/> Line voltage present at disconnect		Measured voltage "L1 to L2"	"L2 to L3"	"L1 to L3"	
Compressor amperes "L1"	"L2"	"L3"	Total amperes "L1"	"L2"	"L3"
<input type="radio"/> Single stage compressor		<input type="radio"/> Two stage compressor			

Air Flow Setup / Cooling

Blower Type & Set-Up	<input type="radio"/> ECM	COOL	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D
		ADJUST	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D
		DELAY	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D
	<input type="radio"/> X-13	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5
	<input type="radio"/> PSC	<input type="radio"/> Low	<input type="radio"/> Medium Low	<input type="radio"/> Medium	<input type="radio"/> Medium High	<input type="radio"/> High
Supply static (inches of water column)		Supply air dry bulb temperature		Outside air dry bulb temperature		
Return static (inches of water column)		Return air dry bulb temperature		Return air wet bulb temperature		
Total external static pressure		Temperature drop		Supply air wet bulb temperature		

Refrigerant Charge and Metering Device

<input type="radio"/> R-410A <input type="radio"/> R-22	Data plate - lbs / Oz <input type="text"/>	Suction line temperature <input type="text"/>	Discharge pressure <input type="text"/>
<input type="radio"/> TXV <input type="radio"/> Fixed Orifice	Discharge line temperature <input type="text"/>	Suction pressure <input type="text"/>	Liquid line temperature <input type="text"/>
TXV# / Orifice size <input type="text"/>		Superheat <input type="text"/>	Subcooling <input type="text"/>

YorkGuard VI Defrost Control Board

Fill in the information i.e.. "ON", "OFF", "YES", "NO", or the appropriate "Value" for the selected pin settings

Part Number <input type="text"/>	Version Number (located on the Chip on the Defrost Board) <input type="text"/>			
Low Temp Cut Out <input type="text"/>	Balance Point <input type="text"/>	Defrost Curve <input type="text"/>	Y2 Lock <input type="text"/>	FFUEL <input type="text"/>
Switch Point <input type="text"/>	Hot Heat Pump <input type="text"/>	Bonnet Sensor Present <input type="text"/>	Compressor Delay <input type="text"/>	

Supplementary Heating Indoor Blower Set-Up	<input type="radio"/> ECM HEAT <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D
	<input type="radio"/> X-13 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5
	<input type="radio"/> PSC <input type="radio"/> Low <input type="radio"/> Medium Low <input type="radio"/> Medium <input type="radio"/> Medium High <input type="radio"/> High

<input type="radio"/> Single Stage <input type="radio"/> Two Stage <input type="radio"/> Natural Gas <input type="radio"/> Propane LP (Requires LP Conversion Kit)
LP Gas Conversion Kit # <input type="text"/> LP Conversion Kit Installed By <input type="text"/> Inlet Gas Pressure (w.c.) <input type="text"/>
Manifold Pressure at 100% Firing Rate (w.c.) <input type="text"/> Measured BTU/H (Clock Gas Meter Nat Gas) <input type="text"/> Rated BTU/H <input type="text"/>
Manifold Pressure / Low Fire Rate (w.c.) <input type="text"/> Return Air Dry Bulb Temp <input type="text"/> Supply Air Dry Bulb Temp <input type="text"/> Temp Rise <input type="text"/>
<input type="checkbox"/> Burner Flame Inspection - Blue flames extending directly into the primary heat exchanger cells

Clean Up Job Site

<input type="checkbox"/> Job site has been cleaned, indoor and outdoor debris removed from job site
<input type="checkbox"/> Tools have been removed from unit
<input type="checkbox"/> All panels have been installed

Unit Operation and Cycle Test

<input type="checkbox"/> Operate the unit through continuous fan cycles from the thermostat, noting and correcting any problems
<input type="checkbox"/> Operate the unit through cooling cycles from the thermostat, noting and correcting any problems

Owner Education

<input type="checkbox"/> Provide owner with the owner's manual
<input type="checkbox"/> Explain operation of system to equipment owner
<input type="checkbox"/> Explain thermostat use and programming (if applicable) to owner
<input type="checkbox"/> Explain the importance of regular filter replacement and equipment maintenance

Comments and Additional Job Details
