

# IntelliStart

Use Flat Blade or #2 Pozzi Screwdriver  
Tightening Torque: 1.3Nm (11.5 lb/in)

**IntelliStart**™  
PART# ISOB12-20SN

115V, 60Hz, 12-20 FLA

Requires a Contactor:  
Starts on Contactor Closure

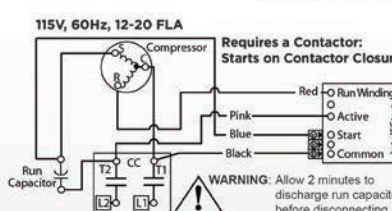
CE

RoHS 2002/95/EC

LED: Off (Normal)  
10 Flash / Second (Low Voltage)  
3 Flash / 3 Seconds (3 Failed Starts)  
1 Flash / 3 Seconds (Over Current)  
1 Flash / Second (Other Fault)

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< RUN WINDING  
 < N/A  
 < ACTIVE  
 < START WINDING  
 < N/A  
 < COMPRESSOR COMMON



Red - Run Winding  
 Pink - Active  
 Blue - Start  
 Black - Common

WARNING: Allow 2 minutes to discharge run capacitor before disconnecting.

LED



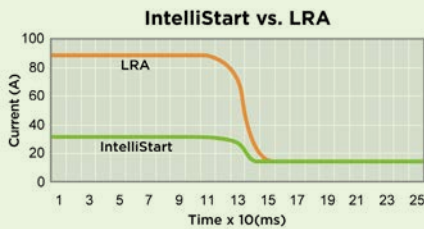
*Light flicker associated with your unit can be a thing of the past...*

## IntelliStart

Your geothermal system is an important investment, and you want it to last as long as it possibly can. What if there was a way to preserve the life of its compressor, reduce light flicker, and significantly diminish start-up sound from your unit? The WaterFurnace IntelliStart system will do all of this as well as make it easier to go “off-grid.”

As a compressor starts, it draws 5 to 10 times the amount of current it normally requires to run. This demand is called Locked Rotor Amps (LRA). The inrush of current and sudden startup can be stressful to the compressor and some electrical components. An IntelliStart system allows the unit to start using only 30% of normal amperage – far lower than other soft start solutions. You’ll reduce wear and tear on your compressor and protect it from potentially damaging low-voltage sags. Light flicker associated with your unit will be a thing of the past, and you’ll have a quieter system thanks to greatly diminished start-up sound.

The IntelliStart system also makes it easier to implement a back-up generator or off-the-grid power technologies like Solar PV and Wind. Many homeowners (and even some utilities) are forced to implement oversized electric generation systems to satisfy the momentary spike of starting amperage for HVAC equipment like furnace fans, air conditioners, heat pumps and geothermal units. With IntelliStart, you’ll drastically reduce that demand and save money on standby generators and power generation infrastructure.



## IntelliStart

The IntelliStart can extend the life of your unit by drastically reducing start-up current (just 30% of normal amps) and save money on back-up generator requirements.



## Features and Benefits

### Soft Starter

Reduced light flicker and diminished start-up sound provide a quieter unit.

### Voltage Protection

IntelliStart will protect the compressor from potentially damaging low-voltage sags.

### Renewable Power

Implement off-the-grid power technologies like Solar PV and Wind more easily.

### Easy Installation

Available as a field retrofit kit or as a factory installed option on most of our residential units.