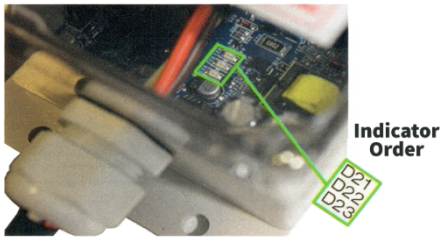
NUVAIR SMOOTHSTART TROUBLESHOOTING GUIDE

① Check Wiring and Connections

The most common mistake is incorrect wiring. Check that wiring is correct with the diagram you selected and make sure all connection points are tightly connected.

② LED Troubleshooting Indicator Lights

Be sure power has been removed for at least 5-7 minutes before powering back on. Once your system is back on, SmoothStart will record the error and allow you to see which indicator light or combinations of lights are lit.



③ Use the chart below to determine the error code.

The fault LED will flash whenever a fault occurs. Count the flashes to determine the type of fault detected.

FLASH	FAULT	LED INDICATIONS
Steady Green	Normal Operation	POWER (D35): A steady green LED indicates power to the board. It is not an indication of a problem.
1 RED	Unexpected Current	FAULT (DS1): Unexpected Current This fault occurs when SmoothStart is first powered and high current is detected. There is most likely a wiring problem that must be corrected before attempting another start.
2 RED	Over Current	This fault can occur during the start or while the compressor is in operation. Run currents in the excess of 30 amps will cause a fault. Faults during a start can mean a wiring or compressor problem.
3 RED	Short Cycle Delay	Short cycle is used as an indication that power was removed then reapplied before the short cycle timer has expired. This fault will clear itself and start the compressor when the timer expires. Systems must wait three minutes from the time the compressor stops to restart the compressor. (NOTE: Cutting JP2 disables the short cycle timer. This should NOT be done in most systems and can cause stall problems during the start.)
4 RED	Open Overload	Open overload indicates the compressor overload has opened. This fault is typically caused by a condenser problem such as blocked airflow or no water flow.
5 RED	Stall	Stalls can occur both during start and operation. This can indicate a collapse of line voltage, improper wiring, or a bad compressor or run capacitor.
6 RED	Wrong Voltage	An SmoothStart configured for use only on 120-volt systems is being used on a 230-volt system.
7 RED	No Signal from Start Winding	The orange wire is not connected to the start winding or the start winding is open. Check for wiring errors or loose connections.

NUV-368

Suitable For Use On A Circuit Capable Of Delivering Not More Than 5,000 rms Symmetrical Amperes, 240 Volts Maximum when protected by fuses with a maximum Rating of 30 Amperes.

Convient pour l'installation d'un groupe de moteurs sur un circuit non susceptible de delivrer plus de 5000 amperes symetriques eff, max. 240v, avec protection des fusibles par de calibre nominal maximal de 30 Ampre.

c UL us LISTED E511752

Model	Input Vac	Frequency (HZ)	Output Vac	Output Load
NUVEC-03-SS	120 Vac	50 / 60	120 Vac	1.5 - 3 HP
	220 - 240 Vac	50 / 60	200 - 240 Vac	2 - 5 HP

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Rev. 04.2023