
CS0415

Technical Service

CS0415

- What is it?
 - New model replacing CSW45
 - Similarities:
 - Ice form
 - Refrigeration system
 - Cabinet
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CS0415

- What is new?
 - Water control system
 - Inlet water valve uses a flow meter to accurately measure water into the machine
 - Water level sensor terminates freeze
 - Reservoir has two pumps, a standard spray pump and a reservoir drain pump
 - Controller
 - Three switches: On, Off and Clean
 - Set ice thickness using the push button switches
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CS0415

- Operation – Freeze
 - Bin thermistor signals bin not full
 - Controller opens water valve, between 32 and 42.5 ounces flow in, depending upon preset ice thickness
 - Compressor, fan and pump start, ice is made until water level drops below water level sensor position
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- Operation – Harvest
 - Fan motor and spray pump stop
 - Reservoir drain pump operates for a few seconds
 - Hot gas valve opens
 - Inlet water valve refills reservoir
 - When evaporator thermistor senses 52°F., harvest stops and freeze restarts.
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CS0415

- Error codes
 - Off light blink pattern
 - Two blinks and repeats – bin thermistor failure
 - Three blinks and repeats – harvest failure
 - Maximum harvest time is 16 minutes
 - Maximum freeze time is 20 minutes
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CS0415

- Defaults
 - Water level sensor disconnected – default freeze time is 25 minutes
 - Evaporator thermistor disconnected – default harvest time is 4 minutes
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Diagnostic Tests

- 8 tests available
 - Bin thermistor
 - Evaporator thermistor
 - Water valve
 - Water level sensor
 - Water pump
 - Reservoir drain pump
 - Compressor and fan motor
 - Compressor and hot gas valve
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Diagnostic Tests

- Tests are initiated by button press sequence – see **page 11** of the service manual
 - To Start: Connect power and immediately push and hold On and Clean. Release when the lights begin to flash.
 - Within 5 seconds, push any button for manual tests or just allow unit to go into automatic test mode
 - Off button advances the manual tests
 - Lights indicate good or bad results
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Ice Thickness Adjustment

- Connect power and immediately push and hold On and Clean. Release when the lights begin to flash. See Page 5 of the service manual.
 - Within 5 seconds, push any button
 - Push the Off button 10 times.
 - On light will be Off
 - Clean light will be Off
 - Off light will blink a pattern
 - 2 blinks – thin
 - 4 blinks – normal
 - 6 blinks – thick

Clean button switches settings

CS0415 Cleaning

- Clean cycle operates the water pump, compressor, hot gas valve for 40 minutes
 - Scale remover circulating over warm evaporator
 - All components switch off
 - Water valve fills for 3 minutes
 - Pump operates for 3 minutes
 - Water valve and pump alternate operation 5 times
 - Machine shuts off – total cycle 70 minutes
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