

Complete sizing guide for foodservice applications
Ice, Coffee, Steam, Fountain, Dish Machines
Combination Systems for Multiple Applications

CG 1-2-3 for Ice Makers



Cube and Flaker Models (High and Low Flow Rate Machines)

Most problems with ice makers are water related (70% by manufacturers' estimates). Clean up the water and clean up most maintenance problems!

Chief Offenders:

- Dirt: Wears pumps, blocks solenoids and pits evaporators.
- Chlorine Gas: Corrodes stainless parts and rusts surfaces.
- Scale Buildup: Coats evaporator, slows harvest, lowers production and increases energy usage.

Solution:

CostGuard Systems:

- Provide excellent flow rates for a wide range of ice machines.
- Remove dirt particles down to 1/2 micron in size (1/50,000th of an inch).
- Reduce chlorine, prevents rusting of stainless parts.
- Reduce lime scale buildup on evaporators.
- Prolongs life of machines.
- Extremely affordable replacement cartridges!

Sizing Ice Machines by Brand & Series/Capacity:

- If you know the manufacturer and the "size" of the ice maker, CG 1-2-3 will point you to the correct filter system or replacement cartridge .
- Cubers are rated by flow rates, "low or high".



9100-12 CGS-12 Twin Series System

Provides prefiltration & scale reduction

- Cornelius, Crystal Tips, Follett, Ice-O-Matic, Manitowoc or Scotsman.
- 50 lb./day to 250 lb./day (50 Series thru 250 Series).

Replacement Cartridges

9534-12 SPI prefilter

9108-17 CG5-10S 5 micron carbon block cartridge

Option: If NSF-53 cyst protection is required, use 2 each 9108-57 CG53-10S cartridges.



9100-22 CGS-22 Twin Series System with Prefilter

Provides prefiltration & scale reduction

- Cornelius, Crystal Tips, Follett, Ice-O-Matic, Manitowoc or Scotsman.
- 250 lb./day to 1000 lb./day (250 Series thru 1000 Series).

Replacement Cartridges

1 ea. SPI20 prefilter cartridge

2 ea. 9108-27 5 micron carbon block cartridges

Option: If NSF-53 cyst protection is required, use 2 each 9108-67 CG53-20S cartridges.



9100-50 CG55 Series/Parallel Triple System

Provides prefiltration & scale reduction

- Cornelius, Crystal Tips, Ice-O-Matic, Manitowoc or Scotsman.
- 1000 lb./day to 1600 lb./day (1000 Series thru 1600 Series).

Replacement Cartridges

1 ea. SPI20 prefilter cartridge

2 ea. 9108-27 5 micron carbon block cartridges

Option: If NSF-53 cyst protection is required, use 2 each 9108-67 CG53-20S cartridges.



9100-37 CB20-312E High Capacity System

Provides 5 GPM chloramine and chlorine removal and NSF-53 standard water

- Cornelius, Crystal Tips, Ice-O-Matic, Manitowoc or Scotsman.
- 1600 lb./day to 2400 lb./day (1600 series thru 2400 Series).

Replacement Cartridges

1 ea. 9105-34 C-312E Cartridge Kit

- Kit contains 1-CC1E and 2-CC3E cartridges.

Option: For extremely dirty water areas, a prefilter is recommended.





9100-22 CGS-22 Twin Series System with Prefilter

- Hoshizaki
- 50 lb./day to 650 lb./day (50 Series thru 650 Series).

Replacement Cartridges

- 1 ea. SP120 prefilter cartridge
- 1 ea. 9108-27 CG5-20S carbon block cartridge with scale reduction

Options:

- If chlorine removal is most important, substitute the 9108-33 CGT-20S cartridge (equivalent to HC Hoshizaki)
- If NSF-53 is required, use 9108-67 CG53-20S cartridge.



9100-50 CGS-55 Series/Parallel System

Provides prefiltration and scale reduction

- Hoshizaki, Vogt Small Tube Ice.
- 650 lb./day to 1250 lb./day (650 Series thru 1250 Series).

Replacement Cartridges

- 1 ea. SP120 prefilter cartridge
- 2 ea. 9108-27 CG5-20S 5 micron carbon block cartridge

Options:

- If chlorine removal is most important, substitute the 9108-33 CGT-20S cartridge (equivalent to HC Hoshizaki)
- If NSF-53 is required, use 9108-67 CG53-20S cartridge.



9100-51 CB20-124E High Capacity HC Type Filter

- 4" Diameter radial flow granular carbon cartridge.
- High capacity chlorine & chloramine removal.
- Hoshizaki, Vogt Small Tube Machine.
- 1600 lb./day to 2400 lb./day (1250 Series thru 1600 Series).

Replacement Cartridge

- 1 ea. 9105-02 CCI extended service cartridge

Option:

- For extremely dirty water areas a prefilter is recommended.



9100-37 CH20-320E High Capacity System

Provides 5 GPM chloramine and chlorine removal and NSF-53 standard water

- Hoshizaki, Vogt Tube Machines.
- 1600 lb./day to 2400 lb./day (1600 Series thru 2400 Series).

Replacement Cartridges

- 1 ea. 9105-34 3I2E Cartridge Kit
(Kit contains 1-CC1E and 2-CC3E Cartridges)

Option:

- For extremely dirty water areas a prefilter is recommended.



50 Series Thru 1500 Series- 50 lb./day to 1500 lb./day

- Cornelius, Crystal Tips, Follett, Hoshizaki, Ice-O-Matic, Manitowoc or Scotsman - 1.67 GPM flow rate.



- 1 ea. 9100-22 CGS-22 dual series housing
- 1 ea. SP120 prefilter cartridge
- 1 ea. 9108-27 CG5-20S 5 micron carbon block cartridge

Replacement Cartridges

- 1 ea. SP120 prefilter cartridge
- 1 ea. 9108-27 CG5-20S 5 micron carbon block cartridge
- If NSF-53 cyst protection is required, use 9108-67 CG53-20S cartridge.



1500 Series thru 3500 series - 1500 lb./day to 3500 lb./day

- Cornelius, Crystal Tips, Hoshizaki, Ice-O-Matic, Manitowoc or Scotsman up to 4 GPM flow rate.



- 1 ea. 9100-50 CGS-55 series/parallel housing
- 1 ea. SP120 prefilter cartridge
- 2 ea. 9108-27 CG5-20S 5 micron carbon block cartridge

Replacement Cartridges

- 1 ea. SP120 prefilter cartridge
- 2 ea. 9108-27 CG5-20S 5 micron carbon block cartridge
- If NSF-53 cyst protection is required, use 9108-67 CG53-20S cartridge.



3500 lb/day to 20,000lb/day

- Cornelius, Crystal Tips, Hoshizaki, Ice-O-Matic, Manitowoc, Scotsman or Vogt up to 5 GPM flow rate.



- 1 ea. 9100-37 CB20-312E high capacity system
- Provides NSF-53 standard water with fine particle, chloramine and chlorine removal.

Replacement Cartridges

- 1 ea. 9105-34 CB20-312E cartridge kit
(Consists of 1-CC1E and 2-CC3E cartridges)
- In dirty water areas a prefilter is recommended.



Optional Accessories



- 9100-24 Parallel 202 prefilter system 7.5 GPM Flow Rate
- Very high capacity prefilter system for problem water areas where dirt and turbidity cause short life of system cartridges. Includes shut-off valve and water gallon meter.
- DEV3092-59 EVP-1 Spanner wrench for all CostGuard SlimLine housings
- DEV3109-53 SW-2 Spanner wrench for Large housings (CB20 systems, Big Blue housings)

Specialty coffees have been the fastest growing segment of the foodservice industry for the last several years. Various blends, flavored coffees and the espresso products have “raised the bar” on coffee offerings. It’s no longer just “regular or decaf”.

But one fact remains constant - coffee is 98.7% WATER. To make good coffee or espresso you **MUST** start with the best tasting water possible.

CostGuard Filters remove dirt, chlorine, off-tastes and odors providing you with a superior “ingredient quality” water.

Much more can be said, but let’s just make it as easy as CG 1-2-3!

Sizing for Coffee Brewers



9100-10 CGS-10 Single System

- 5 micron carbon block with scale reduction.
- One, two, and three pot brewers, capacity 6000 pots, 3000 gallons.
- 2 GPM flow rate.

Replacement Cartridges

9108-17 CG5-10S

- If NSF-53 cyst protection is required, use 9108-53 CG53-10S cartridge.



9100-20 CG5-20 Single System

- Five pot brewers & satellite systems.
- Capacity 18,000 pots 9,000 gallons.
- 3 GPM flow rate.

Replacement Cartridges

9108-27 CG5-20S



9100-22 CGS-22 Parallel System

- 5 –15 gallon urns.
- Capacity 20,000 gallons.
- 4 GPM flow rate.

Replacement Cartridges

2 ea. 9108-27 CG5-20S

- In extremely dirty water areas, a prefilter is recommended.
- If NSF-53 cyst protection is required, use 9108-67 CG53-20S cartridge.



Special treatment may be required for problem waters that exceed 200 PPM TDS (Total Dissolved Solids). Ask your CostGuard Representative about our line of Reverse Osmosis Systems. On site water testing available.

Light to Medium Volume, 1-2 Group Machines



System Components

- 1 ea. 9100-22 CGS-22 Dual Series
- 1 ea. 9108-25 CG5-20 cartridge
- 1 ea. 9105-42 SO-20 softening cartridge

Replacement Cartridges

- 1 ea. 9108-25 carbon block 5 micron cartridge
- 1 ea. 9105-42 SO-10 softening cartridge (1500 grain capacity)
- Install 9108-25 cartridge in first bowl, 9105-42 in second bowl.



High Volume Coffee Shops, Restaurants

Filtration and 3000 grains of softening in one system.



System Components

- 1 ea. 9100-50 CGS-55 Costguard filter housing
- 1 ea. 9108-25 CG5-20 carbon block cartridge
- 2 ea. 9105-42 SO-20 softener cartridge (1500 grain capacity)

Replacement Cartridges

- 1 ea. 9108-25 CG5-20 5 micron carbon block cartridge
- 2 ea. 9105-42 SO-20 softening cartridges



Very High Volume Coffee Shop-Espresso Operations

For the high volume espresso operation.



Brewed coffee system w/Large softener

- 1 ea. 9100-50 CGS-55 series/parallel housing
- 1 ea. SP120 prefilter cartridge
- 2 ea. 9108-27 CG5-20S cartridges
- 1 ea. 9100-94 SO-24 softener system with 4500 grain capacity cartridge

- Install SO-24 between filter system and espresso only. Softened water should serve espresso only.



For the restaurant owner who is serving espresso as an “after dinner” drink, a simple one or two group machine is usually adequate. To prevent scale buildup in the boiler, pump and small orifices, a small softener is needed in addition to filtration.

For the true coffee shop operation, a larger version is available.

Again it’s as easy as CG I-2-3!

Here are a few simple tips to size Fountain equipment.

#1 Question: How many carbonators are there? #2 Question: How many bag-in-box units are used monthly?

Single Carbonator Applications (Light duty)



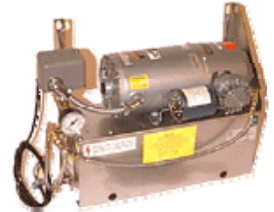
- Less than 25 bib units monthly - 2 GPM flow rate.
- System features prefilter, taste and odor filtration.

System Components

- 1 ea. 9100-22 CGS-22 twin series housing only
- 1 ea. SPI20 prefilter cartridge
- 1 ea. 9108-25 CG5-20 5 micron carbon block filter

Replacement Cartridge

- 1 ea. SPI20 prefilter cartridge
- 1 ea. 9108-25 CG5-20 carbon block cartridge



Twin carbonator (Medium duty)



- 50-75 bib units monthly.
- 4 GPM flow rate.
- Prefiltration, taste and odor.

System Components

- 1 Ea. 9100-50 CGS-55 series/parallel housing
- 1 Ea. SPI20 prefilter cartridge
- 2 Ea. 9108-25 CG5-20 carbon block filters

Replacement Cartridge

- 1 Ea. SPI20 prefilter cartridge



Triple Carbonator (High Volume)



- 75+ BIB units monthly.
- 5 GPM flow rate.
- Capacity 60,000 gallons.

System Components

- 1 ea. 9100-37 CB20-312E high volume system

Replacement Cartridges

- 1 ea. 9105-34 CB20-312 cartridge kit
- Includes 1 CCIE GAC cartridge and 2 CC3E fine filter cartridges. System delivers NSF-53 standard water.



Fountain beverages represent one of the highest profit items in any foodservice operation today. From convenience stores to fine dining, fountain drinks are present. A fountain drink is approximately 83% water! And that doesn't count the ice! So, for great tasting fountain drinks that customers will repeatedly order, use a CostGuard filter system to assure quality and good taste.

It's as easy as CG I-2-3!

Steamers generally fall into two categories: electric and gas operated. We offer solutions from the smallest to the largest commercial steam equipment.

Counter-Top Steamers (light Duty)

- Cleveland, Groen, Market Forge, Southbend, Vulcan, and other counter-top models.
- Up to 4 GPM flow rate.



System Components

- 1 ea. 9100-22 CGS-22 twin series housing
- 1 ea. 9797-20 SRX scale inhibitor feeder system
- 1 ea. SP120 prefilter cartridge
- 1 ea. 9108-25 CG5-20 5 micron carbon block cartridge

Replacement Cartridges

- 1 ea. SP120 prefilter cartridge
- 1 ea. 9108-25 CG5-20 5 micron carbon block cartridge
- 1 ea. 9799-02 SS-10 ScaleStick



SRX follows CGS-22, may be located separately and near steamer water inlet.

Boiler Based Steamers (medium to high volume units)

- Cleveland, Groen, Market Forge, Southbend, Vulcan.
- 18 KW-48KW electric models.
- 125,000 BTU-300,000 BTU gas models.
- Up to 4 GPM flow rate.



System Components

- 1 ea. 9100-50 CGS-55 series/parallel housing
- 1 ea. 9797-20 SRX scale inhibitor feeder system
- 1 ea. SP120 prefilter cartridge
- 2 ea. 9108-25 CG5-20 5 micron carbon block cartridges

Replacement Cartridges

- 1 ea. SP120 prefilter cartridge
- 2 ea. 9108-25 CG5-20 5 micron carbon block cartridges
- 1 ea. 9799-02 ScaleStick replacement cartridge



Steam Related Accessory Items

ScaleKleen: The smart, safe way to delime water-using equipment. Removes limescale buildup quickly, easily and safely. No rubber aprons or gloves needed. Eye protection is always recommended.



9798-20 ScaleKleen 7 oz. Bag

- Delime as needed using 1 bag in counter top steamers and coffee equipment.

9798-01 ScaleKleen 2.2 lb. Bag

- Delime every 6 months using 2 bags on boiler based steam equipment. English/Spanish and English/French labeling available. (English/Spanish shown)

Steam cooking equipment is a major part of any medium to high volume foodservice operation today. Steamers are one of the most problematic pieces of kitchen equipment. They are subject to corrosion, scale buildup on controls, boiler walls, heating elements etc. When the steamer is down, the kitchen is severely limited in production capacity and food quality.

Keep 'em steaming with CostGuard and ScaleKleen!

Here's the easiest spec of all... One size fits all! From the under-counter models to the Flight Line conveyers,

Under-counter and door type machines

- Mounts on hot water line to booster heater.
- Up to 15 GPM flow rate-effective to 170 deg./
- Inhibits limescale buildup-reduces corrosion.
- Simple, effective hydroblend technology.



1 ea. 9799-10 Kleenware System

Replacement Cartridge

1 ea. 9799-22 HT-10 Cartridge

- Usually lasts up to 6 months depending on volume.



Rack conveyor and flight line machines



Kleenware systems for large machines

1 ea. 9799-10 Kleenware system

- High temperature housing.
 - Self-metering head feeds proper amount of hydroblend to booster heater.
 - See-through housing lets you see when cartridge needs changing.
- Flow rate up to 15 GPM for largest machines.

Replacement Cartridge

1 ea. 9799-22 HT-10 cartridge

- Should last 4-6 months depending on volume.

Dish machines (ware washing equipment) are an integral part of foodservice kitchen packages. From the smallest under-counter units to the rack and conveyor models, the ware washing equipment has to work properly for the kitchen to function.

Costguard KleenWare Systems protect the booster heaters, spray arms and interior cavities of these machines and keeps them "on line" and working properly.

Great tasting soda and coffee, icemakers that stay clean and producing, FCB machines with no “off tastes”, steamers that stay on line, all good reasons to use CostGuard Filters. Systems support up to 7 GPM flow rates.

Costguard CGS-55 series/parallel system 9100-50

- Prefilter removes sediment and prolongs cartridge life.
- Shut-off valve, effluent pressure gauge.
- Add SR-X scale reduction feeder for ice and coffee.



System Components

- 1 ea. 9100-50 CGS-55 series/parallel housing only
- 1 ea. SP120 prefilter cartridge
- 2 ea. 9108-25 CG5-20 5 micron carbon block filters
- 1 ea. SRX scale inhibitor feeder

Replacement Cartridges

- 1 ea. SP120 prefilter cartridge
- 2 ea. 9108-25 CG5-20 5 micron carbon block cartridges
- 1 ea. 9799-02 SS-10 ScaleStick scale inhibitor cartridge
- If NSF-53 cyst protection is required, use 9018-67 CG53-20 cartridges.

CB20-312E High capacity system with prefilter flow rate to 6 GPM

- Prefilter removes coarse particles and prolongs fine filter life.
- Built-in shut off valve, inlet & outlet gauges, flushing valve.
- 1/2 micron filtration offers cyst protection under NSF Standard 53 CCEI filter offers chloramine reduction.
- Supports up to 1600 Series Ice Maker, 2-3 carbonators, high volume coffee and espresso equipment.



System Components

- 1 ea. 9795-90 E-Series 20” coarse prefilter with cartridges
- 1 ea. 9100-37 CB20-312E high capacity system with cartridges
- 1 ea. 9798-45 scale inhibitor feeder system with cartridges

Replacement Cartridges

- 1 ea. SP120 prefilter cartridge
- 1 ea. 9105-34 CB20-312E cartridge kit (includes 1 CC1E and 2 CC3E cartridges)
- 1 ea. 9799-02 SS-10 scale inhibitor cartridge

ACCESSORIES & OPTIONS

Add additional ice maker, espresso, coffee equipment or steam equipment

- 9797-20 SRX Scale Inhibitor System (add if ice maker, coffee or steamer is to be connected).
- 9104-24 Slim Line housing and 9105-42 softening cartridge for espresso machines.
- 9336-51 extra capacity surge tank kit: Stores 12 gallons of filtered water, increases capacity of system
- and extends cartridge life.



CostGuard Combination Filter Systems are capable of serving multiple pieces of foodservice equipment from one central filtration system. Ice makers, coffee equipment, espresso, fountain beverages, drinking water and steam equipment all benefit from CostGuard’s pure, clean “ingredient quality” water.

From a small convenience store to a full size restaurant, great water is as easy as CG I-2-3!