

sure  
purity  
Limited

# carboguardmini

CO<sub>2</sub> Vapour Polishing Multi Stage Filtration for the Beverage Industry



Beer and Cider Drinks



Mineral Water



Soft Drinks



and other  
high purity applications

pure innovation

Proudly Made  
in the UK



# carboguard mini

Contaminated CO<sub>2</sub> can have a detrimental affect on the sensory attributes of a carbonated beverage. This is well known by beverage brand owners, breweries and bottling companies, however the retail channel like fast food and casual dining restaurants, bars and other food outlets where beverages are dispensed at the point of sale, have yet to address this issue.

Trace impurities found in CO<sub>2</sub> used for beverage dispense and carbonation, can create a major negative impact on delivering a quality product. This affects the taste, odour and appearance of the beverage, and affects all carbonated beverages such as soda, sparkling water, beer and cider.

Trace impurities carry over from the source of the CO<sub>2</sub>, some sources of CO<sub>2</sub> are relatively new, these emerging sources bring with them their own source specific impurities, they can also be present as residual carry over from the process of CO<sub>2</sub> production. In addition, perfectly good CO<sub>2</sub> can be contaminated by the introduction of contaminants from the cylinder or truck transporting the CO<sub>2</sub>. Handling and distribution of the CO<sub>2</sub> sometimes involves a complex supply chain.

Sure Purity, a company well known for providing the solution for beverage manufacturing, have now extended their well proven Carboguard range, to include a miniaturized version suitable for retail outlets serving fountain, post mix carbonated drinks and draft beer.

Carboguard is a 5 stage multi-barrier filtration system that removes both physical contamination such as dirt, oil, water and rust, but also removes trace chemical impurities such as sulphur compounds, volatile hydrocarbons, aromatics and other troublesome impurities that have an adverse affect on quality.

Carboguard mini is available now, install it after the gas regulator and prior to your carbonator to ensure a clean, pure pour every time.

The system is easy to install and mounts to the wall with the bracket provided. Keep your beverages protected by replacing the 5 stage multi-barrier cartridge every six months or as part of your cellar/store maintenance plan.

- Adequately sized for the majority of retail outlets - small to medium sized range. For large high volume retail outlets a duplex system that splits the flow 50/50 is available. 10 year housing warranty. Six months cartridge service intervals.
- 10 year housing warranty.
- Six months cartridge service intervals.



# carboguardmini Operating Parameters

Operating Pressure (Nominal)	7.0 barg	100 psig
Operating Pressure (Maximum)	10.0 barg	145 psig
Operating Temperature (Minimum)	1.5°C	34.7°F
Operating Temperature (Maximum)	40 °C	104 °F

Housing Size	Rated CO2 Mass Flow @ 7barg / 100psig		Approx. Overall Dimensions (L x W x H)		Port Size	Approx. Weight	
	kg/h	Lb/h	mm	inch		inch	kg
CG-Mini	1.8	4.0	350 x 60.3	13.8 x 2.4	G1/4	1.4	3.1

If the operating pressure is below 7 barg (100 psig) then you must correct your flow using the table below.

Example: The CG-Mini has a capacity of 4 lb/h at 100 psig. The capacity at 72 psig will be 4 lb/h x 0.75 = 3 lb/h.

[bar]	4	5	6	7
[psi]	58	72	87	100
Cop	0.625	0.75	0.875	1

Carboguard Mini systems are specifically engineered to operate in an environment that is 99.9% v/v carbon dioxide gas and designed to protect retail beverage dispense gas against the contaminants detailed in the ISBT quality guidelines for beverage grade CO<sub>2</sub> a selection of which are listed in table 1. The incident protection offered by the Carboguard Mini includes contamination up to a level of ten times the levels specified by ISBT.

Table 1

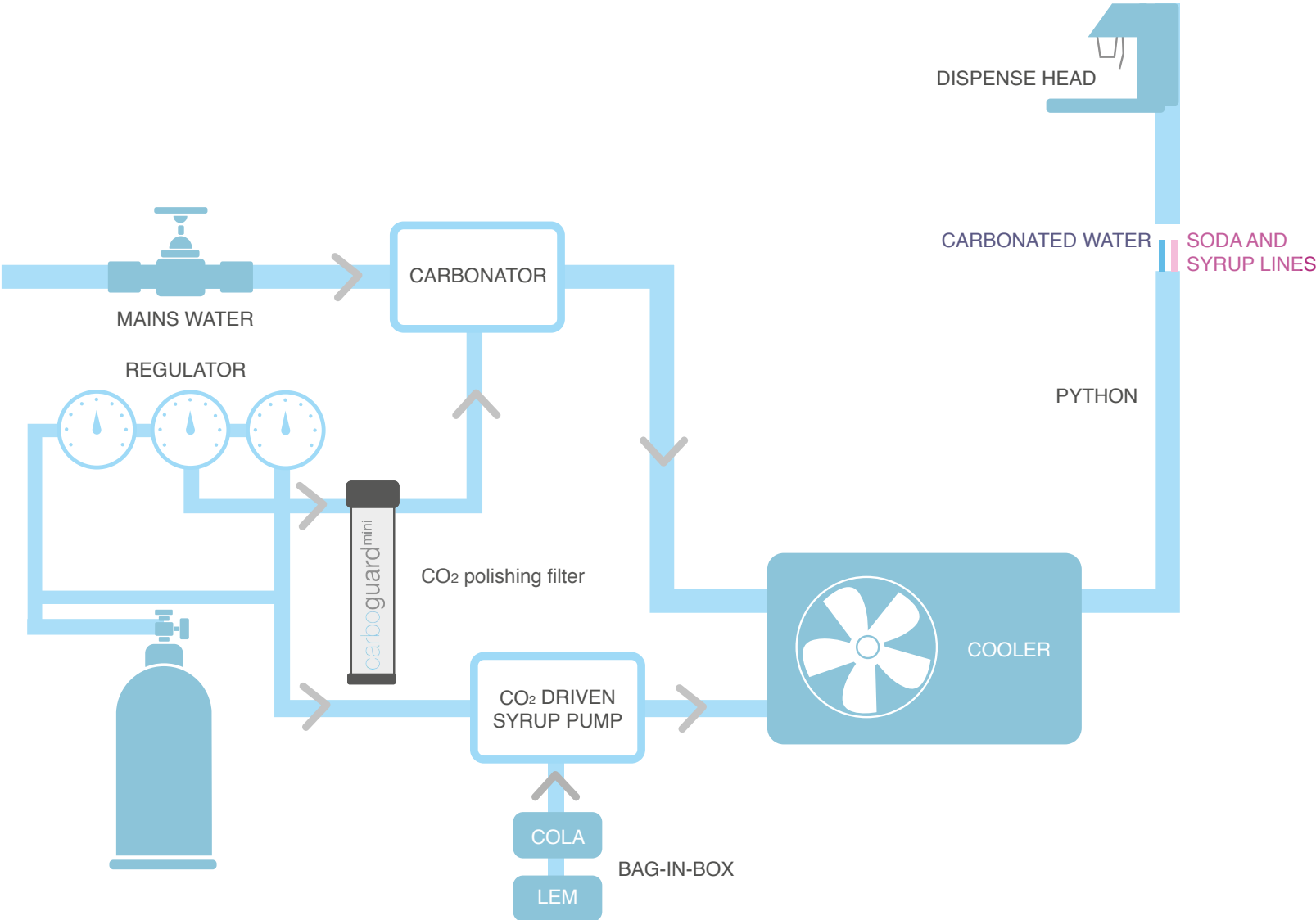
Contamination Type	Specified Level
Volatile Hydrocarbons (Total) Including:	20 ppmv
Aromatic Hydrocarbon	0.02 ppmv
Cyclic Hydrocarbons	0.02 ppmv
Acetaldehyde	0.2 ppmv
Alcohols	10 ppmv
Other Oxygenates	0.02 ppmv
Carbonyl Sulphide	0.1 ppmv
Hydrogen Sulphide	0.1 ppmv
Moisture	20 ppmv

Carboguard Mini cartridges are designed for 6 months of use.

Carboguard Mini Service Kit	
Model	Service Kit
CG - Mini	CS - Mini

# carboguardmini

## Post Mix Dispense



# carbo**guard** mini Restaurant



carboguardmini

Authorised Sales and Stocking Distributor



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