



## CHF-6000 EWS COMPLETE HOME FILTRATION WATER FILTRATION AND SOFTENING SYSTEM



### Technical Sheet

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The CHF-6000 system is recommended whenever it is necessary to improve the chemical and organoleptic characteristics of the water entering the home. The unit is installed on the main water inlet pipe that feeds the entire home, ensuring that tap water throughout the home tastes great. This filtration system has been specifically designed to solve the common problems of water quality by removing up to 98% of Chlorine, chloramine, VOC's, heavy metals and many other impurities found in tap water and significantly improving taste and odour. The entire system comprises 4 stages of water filtration and softening, performed by 3 individual cartridges. Standard configuration detailed below:

#### **Stage 1: 1 or 5 Micron Pre Filter system: Spun PP**

The sediment pre-filter system reduces sand, silt, sediment and debris in the supplied water, down to 1 or 5 micron (a human hair is approximately 70 Microns) in size. Material conforms FDA grade and NSF listing standard. Operational Pressure / Temp: 120 psi / 60° C (140° F). Routine replacement of this sediment filter will increase the effectiveness and protect plumbing and appliances from excess sediment. With average use, each filter is effective for approximately 6 to 9 months depending on water quality.

#### **Stage 2: High Capacity Cation Exchange Water Softening Resin cartridge**

This specially developed water softening resin changes the molecular structure of damaging magnesium and calcium compounds as they flow through the filter. These compounds are responsible for the "limescale build up" issues found throughout some homes which also leads to less efficiency from water heaters and lessens the lifespan of water using appliances such as coffee machines, kettle, iron, dishwasher and washing machines. It works by exchanging  $Ca^{2+}$  &  $Mg^{2+}$  to  $Na^{+}$  or  $H^{+}$  as water passes through the resin which can reduce the negative effects of hard water throughout the home.

Material conforms to FDA grade. Operational Pressure / Temp: 120 psi / 60° C (140° F). Suggested life 12 months or 10,000 GAL. Once placed in filter housing flush for 5 minutes prior to use.

#### **Stage 3 & 4: Granular Activated Carbon (GAC) / KDF 55 Heavy Metal Reduction Filter Cartridge OR 1 Micron Carbon Block with Lead removal technology.**

Granular Activated Carbon Media (GAC) – utilizes a blend of high-grade NSF certified coconut shell and bituminous coal based activated carbons in the Complete Home Filtration system. The purpose of combining two types of carbons is to gain a wider range of contaminant filtering capabilities offered from each type of carbon.

Copper and Zinc Oxidation Media (KDF-55) - We also include a patented bacteriostatic copper-zinc reduction oxidation media for the purpose of preventing and reducing the potential growth of bacteria and algae and for the further reduction of heavy metals.

These media are designed to filter chlorine, chloramines, pesticides, herbicides, pharmaceuticals, industrial solvents, heavy metals and hundreds of other contaminants that may be present in your water. Material conforms to FDA grade. Operational Pressure / Temp: 120 psi / 60° C (140° F). Suggested life 12 months or 10,000 GAL. Once placed in filter housing flush for 5 minutes prior to use.

## CHF-6000 EWS COMPLETE HOME FILTRATION WATER FILTRATION AND SOFTENING SYSTEM



### Specifications

Specification Description	CHF- 6000
Max Flow Rate	18 LPM
Minimum Working Pressure	29 PSI (2 Bar)
Maximum Working Pressure	87 PSI (6 Bar)
Operating Temperatures	4 - 55 °C
PH Range	6.5 - 8

**DIMENSIONS:** Width:600mm Depth 250mm Height 500mm

For installation please allow a further 100 mm on each side for pipework and 200 mm below for by-pass

### Features

3 Stage jumbo housing with stand shelf and waterproof cover.

Tri- stage filtration housing with oil pressure gauge on each.

Large flow rate and cartridge life capacity with pressure relief valve for cartridge replacement.

For whole home, commercial and industrial applications.

Installation must be carried out by a Licenced plumber. For details on installation please refer to the CHF-6000 owners manual.

### Shipment

The CHF-6000 system is shipped in one box containing filtration system in frame and waterproof cover along with one large wrench for tightening and unscrewing the filter housing. All filter cartridges are included in initial purchase unless advised. Mounting frame available at an additional costs of \$100

Box Size: 320X580X680 Net Weight 23kgs

### Reference Chart

Name	Type	Shape	Size	Link
Bacillus anthracis	Bacterium	Rod	Length: 3-5um, dia: 1-1.2um	Wikipedia.org:Bacillus Anthracis
Cryptosporidium	Cyst	Oval	4-5um	Wikipedia.org:Cryptosporidium
E-Coli (Escherichia coli)	Bacterium	Rod	Length: 2um, dia: 0.5um	Wikipedia.org:Ecoli
Giardia Lamblia	Cyst	Oval	6-10um	Wikipedia.org:Giardia
Salmonella	Bacterium	Rod	Length:2um, dia:0.7um	Wikipedia.org:Salmonella



## CHF-RO50 EWS COMPLETE HOME FILTRATION REVERSE OSMOSIS SYSTEM.



### Technical Sheet

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The CHF-RO system is recommended whenever it is necessary to REMOVE ALL IMPURITIES FROM DRINKING WATER to ensure absolute drinking water quality. The unit is installed on the main drinking water pipe and can be plumbed into either the supplied slimline faucet, cooler or fridge. This filtration system utilises a further 5 stages of filtration technology and removes organic and inorganic minerals, heavy metals and fluoride.

#### **Stage 1: 2.5"x10", Sediment PP Filter Cartridge (NSF42 Certified)**

Replace Every 6 Months OR every 12 if part of the premium system.

Removes suspended matter such as silt, rust sand, algae, sediment, scale particles, dirt and cloudiness from the water.

#### **Stage 2: 2.5"x10", Granular Coconut Shell Activated Carbon White Housing / Green cap (NSF42 media compliance)**

Replace every 6- 12 months depending on water quality.

Working via adsorption as the primary mechanism this filter effectively removes chlorine, THM's, organic contaminants, pesticides, lead and mercury.

#### **Stage 3: 2.5"x10" 5 Micron Coconut Shell Activated Carbon block Filter cartridge (NSF42 Cert)**

Replace Every 6- 12 Months

Removes herbicides, pesticides, chlorine, chlorine bi-products and Volatile organic compounds (VOC's) to protect the membrane.

#### **Stage 4: 50GPD RO Membrane Aspring Brand (NSF42 Cert)**

Replace Every 1-4 Years (Depending On Water Quality)

Removes Over 98% or Impurities including Organic & Inorganic Minerals, Heavy Metals & Fluoride

#### **Stage 5: 2"x10" Inline post GAC Filter Cartridge, White housing, ¼"NPTE (NSF42 Cert)**

Replace Every 12 Months

Polishes the water and removes any taste or odour water may have picked up while sitting in the tank.

**Please note: This drinking water system is for potable water supplies only. Do not use this system where water is microbiologically unsafe or with water of unknown quality without adequate disinfection before or after the system. This system must be installed out of direct sunlight and must be mounted in a vertical position. The storage tank can be placed on its side without affecting performance of the system.**

A drainage outlet is required for this system. System performance may vary according to water conditions. Actual Production / Flow rates vary according to temperature, pressure, TDS levels, membrane variations and customer usage.

## THE ADDITION OF THE CHF-RO50 CONVERTS THE CHF-6000 TO THE CHF-6200 PREMIUM SYSTEM



### Specifications

Specification Description	CHF- RO50
Max Flow Rate	12 LPM
Max Operation Pressure	100 PSI
TDS	<1800 mg/L
Operating Temperatures	4 - 40 °C
PH Range	Neutral

DIMENSIONS: Width:370mm Depth 210mm Height 390mm

### Features

0.0005 Micron rating for maximum removal of impurities.

Fluoride removal

Simple Installation Kit included

5 Stage Filtration System with NSF42 certified filtration media (included RO Membrane)

Stainless Steel frame and bracket. Filters included.

7L storage tank. Double O ring housing.

\*Complete standard accessory kit set: Platted feeding ball valve, feeding valve, tap faucet, tank valve (Jaco connector), PE tubes (x 7M), Wrench of EGS & membrane housings, drain saddle valve, 4 way valve, 300 flow restrictor (flow valve) check valve.

### Shipment

The CHF-RO50 system is shipped in 2 boxes: one containing the 5 stage filtration system in stainless steel frame; the second containing the reservoir storage tank. All filter cartridges are included in initial purchase unless advised.

Box Sizes: 180X420X430 Net Weight 8.2kgs ; 280X280X370 Net Weight: 3.8kgs

### Reference Chart

Name	Type	Shape	Size	Link
Bacillus anthracis	Bacterium	Rod	Length: 3-5um, dia: 1-1.2um	Wikipedia.org: Bacillus Anthracis
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E-Coli (Escherichia coli)	Bacterium	Rod	Length: 2um, dia: 0.5um	Wikipedia.org: Ecoli
Giardia Lamblia	Cyst	Oval	6-10um	Wikipedia.org: Giardia
Salmonella	Bacterium	Rod	Length: 2um, dia: 0.7um	Wikipedia.org: Salmonella