

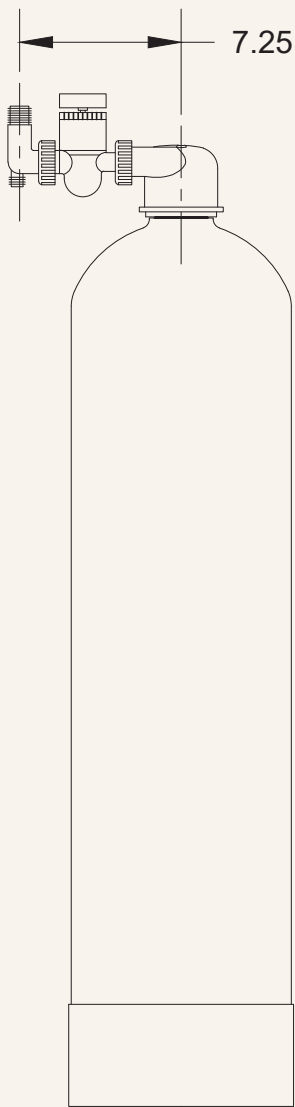


# LANCASTER WATER TREATMENT

UP-FLOW UFAS - CITYGUARD LTE ANTI-SCALE SYSTEM

## UP-FLOW SERIES UFAS CITYGUARD LTE ANTI-SCALE SYSTEM

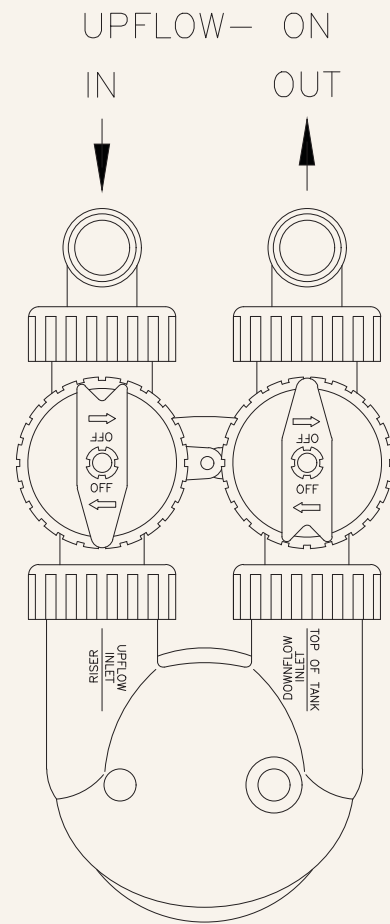
INLET SIDE VIEW  
SHOWN WITH BYPASS  
AND  
1.0 MNPT ELBOW ASSEMBLY



FRONT  
VIEW



ENLARGED TOP VIEW  
OF IN/OUT HEAD, BYPASS  
AND  
1.0 MNPT ELBOW ASSEMBLY



# UP-FLOW SERIES UFAS CITYGUARD LTE ANTI-SCALE SYSTEM

UFAS SPECIFICATIONS	CITYGUARD LTE UF SYSTEM				
Model Number	7-UFAS-011	7-UFAS-016	7-UFAS-026	7-UFAS125-044	7-UFAS15-058
Inlet/Outlet Fitting Options (Inches) <sup>1</sup>	0.75 - 1.0 <sup>1</sup> - 1.25 - 1.5	0.75 - 1.0 <sup>1</sup> - 1.25 - 1.5	0.75 - 1.0 <sup>1</sup> - 1.25 - 1.5	0.75 - 1.0 - 1.25 <sup>2</sup> - 1.5	1.5 <sup>3</sup> - 2.0
In / Out Head I191 (Part Number)	DI400	DI400	DI400	DI400-04	-
In / Out Head I192 (Part Number)	-	-	-	-	DI403
Bypass Included	Yes	Yes	Yes	Yes	Yes
Water Pressure Range (PSI)	20 - 100	20 - 100	20 - 100	20 - 100	20 - 100
Water Operating Temp. Range (°F)	35 - 100	35 - 100	35 - 100	35 - 100	35 - 100
EcoSense Media (SP-3) (CU FT) <sup>4</sup>	0.11	0.16	0.26	0.44	0.58
EcoSense Media (SP-3) Weight (LBS) <sup>4</sup>	5.0	7.6	12.7	21.4	28.25
Maximum Service Flow Rates (GPM)	10	15	20	30	40
Overall Height (Inches)	49.2	59.4	53.3	70.73	70.7
Mineral Tank Size: Dia. x Ht. (Inches)	8 x 44	10 x 54	13 x 48	14 x 65	16 x 65
Bottom Distributor Type	Plate	Plate	Plate	Plate	Plate
Top Basket Distributor	Yes	Yes	Yes	Yes	Yes
Underbed Layer	No	No	No	No	No

<sup>1</sup>1.0 MNPT Elbow Standard - Options Available

<sup>2</sup>1.25" Composite Plastic Male NPT Straight Assembly Standard (PN: V3007-05) - Options Available

<sup>3</sup>1.5" Composite Plastic Male NPT Straight Assembly Standard (PN: V4430-01) - Options Available

<sup>4</sup>Mineral used: Filtersorb SP3 is a scale prevention media, developed and produced in Germany by CWG (Chopra Water Group) / Watch Water Germany, and is distributed in the USA by Watch Water USA. Filtersorb SP3 is NOT an ion exchange resin therefore should NOT be considered a water softening media. Filtersorb SP3 is a "GREEN" alternative to ion exchange softeners.

**Primary Benefits:**

Filtersorb SP3 media prevents the formation of scale on heating elements and on the pipes and hardware of plumbing systems. Water is directed UPFLOW through a fluidized layer of media which acts as a catalyst, pulling the hardness minerals of calcium and magnesium out of solution. The media (ceramic coated modified acrylic polymer beads) transforms the calcium and magnesium cations into neutral inactive crystal particles. The crystal particles attach to the media for a short time until they cluster to nano-sized particles and break off, freely flowing through the system and not able to attach to any surfaces. The process is called NUCLEATION ASSISTED CRYSTALLIZATION or NAC.

The media also effectively descales existing scale buildup within the plumbing system. During the NAC process, dissolved carbon dioxide (CO<sub>2</sub>) is released as near-visible micro-bubbles, which gradually reduce previous formed scale over a period of time determined by water usage.

**Additional Benefits:**

- Maintenance Free
- Chemical Free
- Salt Free
- No Wasted Water (i.e. no regeneration or backwashing)
- No Electricity Required
- WQA Gold Seal ANSI/NSF 61 (Health Effects)

**Operating Parameters:**

- pH 6.5 - 9.5 (6.8 - 7.5 optimum pH range for calcium carbonate, 7.0 - 8.0 optimum range for magnesium hydroxide).
- Ferrous Iron (Soluble) < (less than) 0.3 mg/L (or ppm).
- Manganese (Soluble) < (less than) 0.05 mg/L (or ppm).
- Chlorine - up to 3 ppm (treat Filtersorb SP3 same as softener resin regarding chlorine).
- No Hydrogen Sulfide, Oil, Grease or Polyphosphates.
- Hardness 25 gpg (grains per gallon) max. for models shown above (up to 75 gpg possible but unit size must be re-evaluated).
- Copper 1.3 mg/L (or ppm) max.
- Install CITYGUARD LTE in new facilities with copper pipe after six weeks of water use.
- Do not exceed recommended flow rates.
- Designed for intermittent flows; for continuous flows, consult factory.
- The effective average lifespan of Filtersorb SP3 is 5 to 7 years, depending on the feed water conditions.