



# claris<sup>®</sup>prime FILTER CARTRIDGE

**Adjustable ion-selective filter offers tailored reduction of total dissolved solids to protect equipment from scale and mineral induced corrosion in areas with high chloride and sulphate content in the feed water.**

## APPLICATIONS

- Espresso Coffee Machines
- Combi Steam Ovens

## INSTALLATION TIPS

- The system can be operated freestanding, lying horizontally or vertically.
- Water pressure at the filter system inlet must not exceed 116 psi (8 bar). A pressure reducer valve must be installed on the water supply side of the filter system if the inlet pressure exceeds 116 psi (8 bar).
- Shutoff valve must be installed upstream of the filter.
- Refer to Installation, operation and maintenance manual for cartridge flushing and start-up.

## FEATURES and BENEFITS

- Unique water conditioning technology combines mineral adaptation, mineral stabilization and corrosion inhibition
- Features a 7-stage filtration process that includes:
  - Prefiltration
  - Hardness reduction
  - TDS reduction
  - Anionic mineral reduction (chloride, sulphate, etc...)
  - Residual calcium stabilization
  - Highly efficient carbon adsorber
  - Solid membrane filter block
- Removes harmful contaminants and unpleasant odors and tastes
- Removes particles down to five (5) microns for highest equipment protection
- Operates in a vertical or horizontal position

## OPERATION TIPS

- Change Claris Prime Cartridge when its precalculated water volume has been reached or at least once per year.
- Change cartridge when capacity is reached.
- Always flush the filter cartridge at time of installation and cartridge change.
- Always test for conductivity or TDS of incoming water
- Always test for carbonate hardness (alkalinity) of incoming water
- Always test for chloride content of incoming water
- Please use only a titration test kit to check for carbonate hardness (alkalinity)

## SPECIFICATIONS

### SERVICE FLOW RATE

1.0 gpm (3.7 Lpm)

### RATED CAPACITY

See back page for details

### PRESSURE REQUIREMENTS

29 - 116 psi (2 - 8 bar), non-shock

### TEMPERATURE LIMITS

39 - 86°F (4 - 30°C)

### OVERALL DIMENSIONS

18.56" H x 6.89" diameter (47.5 x 17.5 cm)

### ELECTRICAL CONNECTION

None required

The contaminants or other substances removed or reduced by this drinking water system are not necessarily in your water. Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.





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## SPECIFICATIONS

### SETTINGS AND CAPACITIES FOR HOT DRINKS MACHINES, ICE MACHINES AND COMBI STEAMERS

Settings and Capacities			Hot Drinks and Ice Machines					Combi Steamer	
			Capacity in Litre						
TDS Feed Water < 150 ppm ( <250 µS/cm)	Carbonate Hardness °KH	Chloride Level feed water (ppm)	< 70	< 100	< 140	< 200	< 300	< 200	< 300
		Bypass setting	6	5	4	3	2	1	0
	2-3		6000	4800	4000	3430	3000	2670	2400
	4-5		8500	6800	5670	4860	4250	3780	3400
	> 5		9500	7600	6330	5430	4750	4220	3800

Hot Drinks and Ice Machines							Combi Steamer	
Capacity in US Gallon								
<70	<100	<140	< 200	< 300	<200	<300		
6	5	4	3	2	1	0		
1.590	1.270	1.060	910	790	700	630		
2.250	1.800	1.500	1.280	1.120	1.000	900		
2.510	2.010	1.670	1.430	1.250	1.120	1.000		

TDS Feed Water 150 - 300 ppm (250 - 500 µS/cm)	Carbonate Hardness °KH	Chloride Level feed water (ppm)	< 70	< 100	< 140	< 200	< 300	< 200	< 300
Bypass setting	6	5	4	3	2	1	0		
2-3		2630	2100	1750	1500	1310	1170	1050	
4-5		3000	2400	2000	1710	1500	1330	1200	
6-7		3500	2800	2330	2000	1750	1560	1400	
8-9		4250	3400	2830	2430	2130	1890	1700	
> 9		4750	3800	3170	2710	2380	2110	1900	

<70	<100	<140	< 200	< 300	<200	<300
6	5	4	3	2	1	0
690	550	460	400	350	310	280
790	630	530	450	400	350	320
920	740	620	530	460	410	370
1.120	900	750	640	560	500	450
1.250	1.000	840	720	630	560	500

TDS Feed Water 300 to 450 ppm (500 - 750 µS/cm)	Carbonate Hardness °KH	Chloride Level feed water (ppm)	< 70	< 100	< 140	< 200	< 300	< 200	< 300
Bypass setting	6	5	4	3	2	1	0		
2-3		1750	1400	1170	1000	880	780	700	
4-5		1880	1500	1250	1070	940	830	750	
6-7		2000	1600	1330	1140	1000	890	800	
8-9		2250	1800	1500	1290	1130	1000	900	
10-11		2500	2000	1670	1430	1250	1110	1000	
12-13		2880	2300	1920	1640	1440	1280	1150	
>13		3250	2600	2170	1860	1630	1440	1300	

<70	<100	<140	< 200	< 300	<200	<300
6	5	4	3	2	1	0
460	370	310	260	230	210	180
500	400	330	280	250	220	200
530	420	350	300	260	230	210
590	480	400	340	300	260	240
660	530	440	380	330	290	260
760	610	510	430	380	340	300
860	690	570	490	430	380	340

TDS Feed Water 450 to 600 ppm (750 - 1000 µS/cm)	Carbonate Hardness °KH	Chloride Level feed water (ppm)	< 70	< 100	< 140	< 200	< 300	< 200	< 300
Bypass setting	6	5	4	3	2	1	0		
2-5		1250	1000	830	710	630	560	500	
6-8		1380	1100	920	790	690	610	550	
9-11		1630	1300	1080	930	810	720	650	
12-13		1750	1400	1170	1000	880	780	700	
14-15		2000	1600	1330	1140	1000	890	800	
16-17		2130	1700	1420	1210	1060	940	850	
18-19		2380	1900	1580	1360	1190	1060	950	
>19		2500	2000	1670	1430	1250	1110	1000	

<70	<100	<140	< 200	< 300	<200	<300
6	5	4	3	2	1	0
330	260	220	190	170	150	130
360	290	240	210	180	160	150
430	340	290	250	210	190	170
460	370	310	260	230	210	180
530	420	350	300	260	230	210
560	450	370	320	280	250	220
630	500	420	360	310	280	250
660	530	440	380	330	290	260