

AQUALINE

AWN, CAL, CC SERIES

ACID NEUTRALIZATION CARTRIDGE

SIZE: 9 3/4 in.: Fits all standard 10 in. housings. (Also available in 2.5" X 20" and Big Blue 10" and 20")

POST FILTER: 20 micron spun-bonded polypropylene.

MEDIA:

- CC-01 High purity magnesium oxide
- CC-13 Proprietary blend of neutralizers
- CC-22 Proprietary blend of neutralizers
- CC-31 Proprietary blend of neutralizers
- CC-10 High purity calcium carbonate

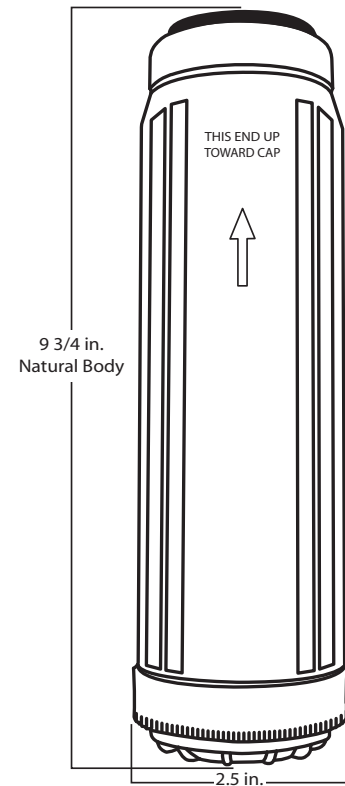
PRE-FILTER: 100 micron reticulated poly foam.

FLOW RATE: 0.10 - 1.50 gpm

CAPACITY: Up to 100,000 gallons*

pH RANGE: 5 - 9

*Flow rate and influent pH dependent



Technical Information

The AQ-CC Series cartridges are designed to raise the pH of influent waters. These cartridges contain sparingly soluble sacrificial medias that are only acted upon by acidic waters. They will have little effect on neutral or alkaline water.

The AQ-CC Series are flow rate dependent. At flow rates of 0.1 gpm, the CC-01 will neutralize an acidity of pH 1.0. Higher pH feeds can utilize higher flow rates. As you approach pH 7 with low flow rates, the CC-01 may tend to over-correct, resulting in a pH above 8.5. In this case, choose one of the other cartridges with less response. The cartridges are listed in decreasing order of response.

The AQ-CC Series can be used to neutralize low pH R/O product water and waste streams as well. Since they are sacrificial, the CC Series will add 2-5 ppm of hardness to the water. This is also an excellent way to reduce the corrosiveness of aggressive low TDS water.

The following table can be used as a guide for the selection of the proper filter for acid feed stream neutralization:

CARTRIDGE	INLET pH	OUTLET pH at rated flow (liters/min)								
		0.125	0.25	0.50	1.0	1.5	2.0	2.5	3.0	3.5
CC-22	2.7	8.6	8.1	6.7	6.0	5.8	5.6	5.4	5.2	5.1
CC-31	2.7	8.0	7.6	6.6	6.1	5.8	4.7	5.7	5.5	5.5
CC-10	2.7	6.8	6.7	6.5	6.1	5.9	5.8	5.8	5.7	5.7
CC-01	4.6	9.5	8.9	7.2	6.3	6.1	5.8	5.7	5.6	5.5
CC-13	4.6	9.2	8.7	7.1	6.3	6.1	5.8	5.7	5.7	5.5
CC-22	4.6	8.6	8.2	6.9	6.2	6.0	5.8	5.7	5.7	5.6
CC-31	4.6	8.0	7.7	6.7	6.2	6.0	5.8	5.7	5.7	5.6
CC-10	4.6	6.9	6.7	6.4	6.1	5.9	5.8	5.7	5.7	5.6
CC-01	7.6	9.5	9.2	8.9	8.7	8.5	8.4	8.4	8.3	8.2
CC-13	7.6	9.3	9.0	8.8	8.6	8.4	8.3	8.3	8.2	8.1
CC-22	7.6	8.9	8.7	8.5	8.3	8.2	8.1	8.1	8.1	8.0
CC-31	7.6	8.5	8.4	8.2	8.1	8.0	7.9	7.9	7.9	7.9
CC-10	7.6	7.8	7.7	7.6	7.6	7.6	7.6	7.6	7.6	7.6

After standing for 24 hours, the test cartridges were drained and the pH of the drained water was tested with the following results:

	INLET FINAL		INLET FINAL	
	pH	pH	pH	pH
CC-01	2.6	9.6	7.6	9.9
CC-13	2.6	9.3	7.6	9.7
CC-22	2.6	8.6	7.6	9.3
CC-31	2.6	7.9	7.6	8.9
CC-10	2.6	6.6	7.6	8.1

Please note that the AQ-CC-10 is the only acid neutralizing cartridge without overcorrection tendencies.