

# AQUAGENICS, INCORPORATED

718 Eastbrook Blvd. Winter Park, Florida 32792  
Telephone: (305) 671-5845 (305) 678-8734

April 12, 1979

Joseph Hendrie, Chairman  
Nuclear Regulatory Commission  
1717 H. Street NW  
Washington, D.C. 20555

Dear Mr. Hendrie:

I have read with interest and concern of the problem of supplying vast quantities of clean filtered water for nuclear power plants.

The enclosed folder describes a proven system that can easily supply 100,000 gallons per minute of filtered water at absolute zero head back pressure.

This system precludes particle size down to microns, if necessary and will protect pumps and valves as no screen, cartridge, or metal parts are involved.

The life span, based on similar uses is in excess of 50 years and is maintenance free.

The future of nuclear power will depend in part on large volumes of clean, filtered water ahead of pumps and valves.

A trial filter system can be made available for your own evaluation. For additional information you may contact me at the above address and telephone.

Sincerely,

*Raymond E. Hutchinson RM*

Raymond E. Hutchinson  
Engineer

REH:sm

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# AQUA GENICS

## PRESENTS

THE "WETLINE" WATER FILTER

- NO - SCREEN, SAND, OR CARTRIDGE
- NO - MOVING PARTS OR POWER
- NO - REPLACEMENT PARTS

A SELECTIVE MECHANICAL  
FILTER FOR UPGRADING  
POTABLE WATER  
PROCESS WATER  
WASTE WATER

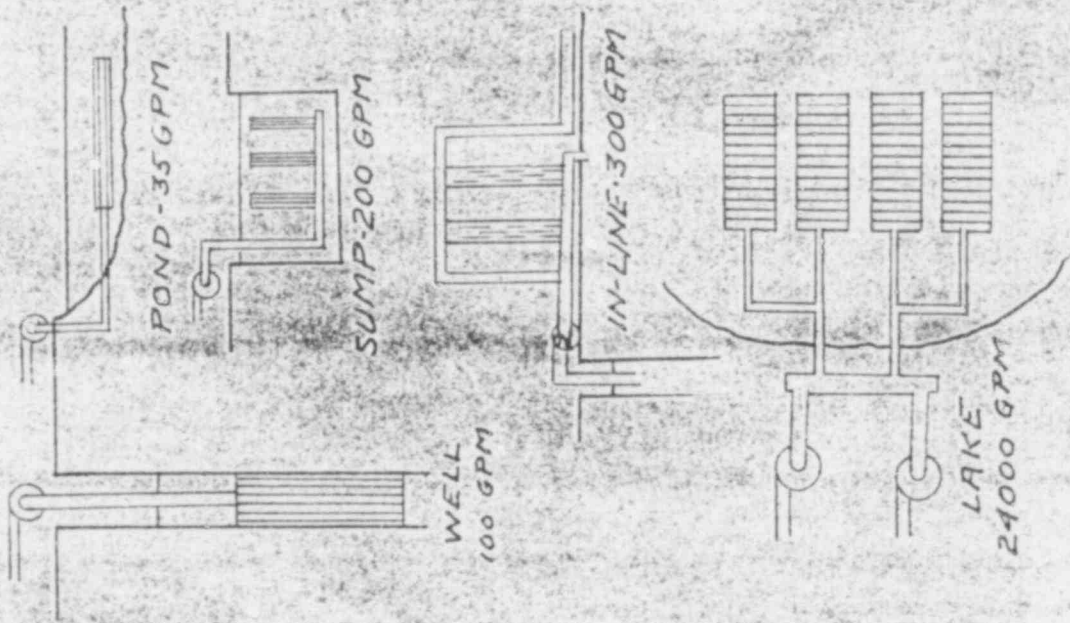
FOR

MUNICIPALITY  
INDUSTRY  
AGRICULTURE  
& THE HOME

BY

AQUAGENICS INCORPORATED  
WINTER PARK  
FLORIDA

### FILTER PLACEMENTS



1. P.V.C. COVER - SLIT & SLOTTED



2. P.V.C. TUBE - DRILLED



3. P.V.C. STRAND - COVER ASSEMBLED OVER PIPE & END CAPPED. 5-20 USGPM CAPACITY



4. BUNDLE - SEVERAL STRANDS GROUPED TOGETHER. 35-600 USGPM CAPACITY



FILTER UNIT CONSISTS OF ONE OR SEVERAL BUNDLES ASSEMBLED WITH SUITABLE MANIFOLD. 35-6000 USGPM CAPACITY

628 218

# POOR ORIGINAL

MATERIALS AND  
CONSTRUCTION

THE ONLY MATERIAL USED IN  
CONSTRUCTION OF THE "WET-  
LINE" FILTERS IS POLYVINYL  
CHLORIDE (P.V.C.) WHICH IS  
APPROVED BY THE NATIONAL  
SANITATION FOUNDATION N.S.F.  
FOR THE TRANSPORTATION OF  
POTABLE AND WASTE WATER BY  
MUNICIPALITIES, INDUSTRY  
AND A CULTURE WHEN  
PRODUCED TO A.S.T.M. SPECS  
INCLUDING ASTM D1785,  
D2241, AND D2665, WITH A  
PROVEN LIFE OF MANY YEARS  
OF TROUBLE-FREE SERVICE.

THE "WETLINE" FILTER  
CONSISTS OF THE ASSEMBLY OF  
PVC DRILLED PIPE, SLOTTED  
COVERS AND FITTINGS.

OPERATION AND  
EFFICIENCY

THE "WETLINE" FILTER IS NORMALLY  
PLACED IN THE WATER SOURCE: POND,  
RIVER, WELL OR SUMP, AHEAD OF THE  
PUMP. THIS PRECLUDES ENTRY OF  
MOST DENSE AND LIGHTWEIGHT SOLIDS  
AS WELL AS ORGANICS, WHICH ENHANCE  
THE EFFICIENCY OF THE FILTER AND  
PROTECT THE PUMP FROM SAND AND  
FOREIGN MATERIALS.

EACH HOLE IN THE "WETLINE" FILTER  
PRODUCES FROM 1 TO 10 DROPS OF  
FILTERED WATER PER SECOND. THIS  
RESULTS IN A NEAR-ZERO VELOCITY  
AT THE INTERFACE OF SUPPLY WATER  
AND FILTERED WATER, AS WELL AS  
LOW VACUUM PRESSURE.

TYPICAL USES

SMALL UNITS 5 to 100 USGPM

- \* LAWN SPRINKLING FROM POND
- \* CIRCULATION & AERATION
- \* SHALLOW & DEEP WELLS
- \* DRAINAGE
- \* HYDROPONICS
- \* SOLAR SYSTEMS
- \* SAMPLING SPECIFIC LOCATIONS

MEDIUM UNITS 50 to 1000 USGPM

- \* IRRIGATION - CITRUS & ROW CROPS
- \* GOLF COURSES - DAIRY FARMS
- \* ENVIRONMENTAL PROTECTION
- \* FRUIT & VEGETABLE WASHING

LARGE SYSTEMS 1,000 to 50,000 USGPM

- \* MUNICIPAL WATER SUPPLY
- \* ELECTRIC POWER PLANTS
- \* INDUSTRIAL SLURRIES
- \* CHEMICAL PROCESSING
- \* WOOD & PAPER INDUSTRIES
- \* METALLIC SCALE REMOVAL

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**POOR ORIGINAL**