



Fluid Powered Chemical Dispensing Systems

For the Dairy Industry



Benefits of the Hydroblend Proportioner

Accuracy - Our exclusive metering principle is the most accurate in the industry. We maintain this accuracy irrespective of changes in water flows. In most applications, our deviation is less than 1%

Easy to Install - The proportioner is water powered and can therefore be located near an isolated water source without electrical connections. The Hydroblend can be configured to mount on either a vertical or horizontal surface.

Repeatable Convenient Adjustment – An adjustable, graduated scale indicates the proportional settings in linear form. This setting is consistent and repeatable.

Reliability - Because the chemical components are isolated from the “water motor” all Hydroblend’s are application specific. We choose the combination of materials of construction that offer the greatest resistance to the chemicals being diluted.

The Lowest Life Cycle Cost - All of the components are designed for long life and trouble free operation. Quality and reliability are never compromised.

Hot Water Capable – All of our units can be configured to be hot water specific. With our “DMAC” Endplates the Hydroblend is rated up to 160F.

One Size Does Not Fit All - It has been frequently said of the Hydroblend, “it just runs and runs and runs”.

Lowest Life Cycle Cost- Accuracy + Durability = Outstanding Value

HYDROBLEND INTERNATIONAL CORPORATION

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www.hydroblend.com US Pat. # 4,279,229 * US Pat. # 5,433,240 * US Pat. # 6,485,272 B2



WHY HYDROBLEND:

Hydroblend International Corp. is a manufacturer of precise, water powered chemical proportioning pumps. Heavy duty components and the ability to customize according to customer requirements assure a long and trouble free pump life.

HYDROBLEND BENEFITS:

- Reduces chemical waste
- Improves proportioning accuracy
- Easy to install
- Reliable operation
- Non electrical
- Adjustable

PRINCIPLE OF OPERATION:

Pressurized water drives a reciprocating piston in the water motor cylinder. This piston drives the chemical concentrate metering piston that draws concentrate from the drum and injects it into the water from the water cylinder.

HYDROBLEND APPLICATION:

Hydroblend Proportioners are extensively used in the Dairy industry industry to dilute Teat Dips, Emollinets, Chlorine/Bleach and variety of other chemicals. Please call our Customer Service Department for a recommendation.

SPECIFICATIONS AND MODELS

Mounting Options:

All units can be configured to mount on a horizontal or a vertical surface.

Water Filtration:

25 Micron filter required

Water Pressure:

Minimum 10 psi

Maximum 75 psi

Water Flow Rate:

6000 Series – Max 7 GPM

Mid Volume – Max 12 GPM

High Volume – Max 25 GPM

Dilution Range:

6000 Series – Less than 1% - 35%

Mid Volume – Less than 1% - 30%

High Volume – Less than 1% - 26%

Ratio varies with model.

The mixture ratios presume chemicals with the approximate viscosity of water. A substantial increase in viscosity could reduce the proportioning specifications of the pump.

Construction:

All Hydroblend's are application specific. All models can be tailored to meet your specific concentrate requirements. "One size size does not fit all."

Dimensions:

6470-PVC-V

17"x6"x7" – 43cm x 15cm x 17cm

6160-PVC-V

16"x6"x7" – 40cm x 15cm x 17cm

6005-HDPE-V,BLE

13"x6"x7" – 33cm x 15cm x 17cm

6010-HDPE-V,BLE

13"x6"x7" – 40cm x 15cm x 17cm

Inlet/Outlet Connections:

The proportioner is designed to be used with ¾" Garden Hose connections for both the water inlet and outlet. NPT adapters available.

Water Temperature:

Standard – Up to 110F (43C)

Hot Water Specific – Up to 160F

* Includes DMAC Endplates

RECOMMENDED HYDROBLEND MODELS

Iodine Teat Dip

6470-PVC-V (Variable Dilution 1:3, 1:5, 1:9 and 1:19)

6160-PVC-V (Variable Dilution 1:9)

Emollient/Skin Conditioner

6160-PVC-V (Variable Dilution 1:8)

6040-PVC-V (Variable Dilution 1:32)

Activator/Base Sanitizers

6040-DI-HDPE-V (Variable, Dual Injection 4oz/gallon)

6080-DI-HDPE-V (Variable, Dual Injection 8oz/gallon)

Chlorine/Bleach

6005-HDPE-V,BLE (Max 0.5oz/gallon)

6010-HDPE-V,BLE (Max 1oz/gallon)

Chlorine Dioxide – Dairy Cow Treatments

AIRFP6100-DI-PVC-V (Dual Injection 1:1)

AIRFPMVFP6140/03-DI-PVC-V (Dual Injection 1:26)

CIP

0861-MV6003-K-PA,DMAC (PAA)

0861-MV6050-HDPE-E,DMAC (Cautic/Disinfectant)

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