



For Metalworking



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%

Insures Coolant Performance – Your coolant will perform as intended only if is diluted properly. A consistent and accurately diluted coolant will reduce waste, extend tool life, improve surface finish and optimize sump life.

Repeatability - An adjustable, graduated scale indicates the proportional settings in linear form. The setting is accurate, consistent and repeatable.

Reduces chemical waste - The chemical concentrate is diluted as required for optimum performance.

Easy Installation – The proportioner is water powered and can therefore be located near an isolated water source without electrical connections. Installation is simple, straightforward and takes very little time.

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 metalworking industry to mix water soluble coolants, lubricants and synthetic press working fluids. Please call our customer service for a recommendation.

SPECIFICATIONS AND MODELS

Water Temperature:

40F (4C) to 110F (43C) – 160F w/ DMAC

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 does not fit all."

Dimensions:

6040-A-V – 14"L x 6"W x 7.5"H
6080-A-V - 15"L x 6"W x 7.5"H
6120-A-V - 15.5"L x 6"W x 7.5"H
6180-A-V - 15.5"L x 6"W x 7.5"H
6200-A-V - 15.5"L x 6"W x 7.5"H
6260-A-V - 16.75"L x 6"W x 7.5"H
6320-A-V - 16.75"L x 6"W x 7.5"H
6470-A-V - 17"L x 6"W x 7.5"H
6850-A-V - 18"L x 7.2"W x 8.12"H

Inlet/Outlet Connections:

The proportioner is designed to be used with 3/4" Garden Hose connections for both the water inlet and outlet. NPT adapters available.

Mounting Options:

All units can be designed to mount on either a Horizontal Surface (ie. a shelf) or a Vertical Surface (ie. a wall).

HYDROBLEND COOLANT MODELS

Synthetic & Semi Synthetic Cutting & Grinding Fluids – Low Viscosity Products

6080-A-V Max Dilution: 5.80% (1:16) - Min Dilution: 0.60%
6120-A-V Max Dilution: 8.50% (1:10) - Min Dilution: 0.95%
6180-A-V Max Dilution: 12.30% (1:7) - Min Dilution: 1.40%

Soluble Oils – Viscosity to 300 SUS @ 100F

6200-A-V Max Dilution: 13.50% (1:6) - Min Dilution: 1.60%
6260-A-V Max Dilution: 16.80% (1:5) - Min Dilution: 1.90%

Soluble Oils – Viscosity to 700 SUS @ 100F

6320-A-V Max Dilution: 20.00% (1:4) - Min Dilution: 2.40%
6470-A-V Max Dilution: 26.80% (1:3) - Min Dilution: 3.20%
6850-A-V Max Dilution: 35.00% (1:1.5) - Min Dilution: 4.70%

Metal Forming Compounds – Viscosity to 6,000 SUS @ 100F - Product Evaluation Required

086-6850-A-V Max Dilution: 35.00% (1:1.5) - Min Dilution: 4.70%



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