

The World's First Expandable HPP Machine.  
A Master of Economics, Engineering, and Good Taste.



Expand Your HPP Capacity on Demand.

### Topline features

- Easily upgrades from AV-40X to AV-70X
- Cut energy costs by 50%
- Highest possible throughput
- Lower maintenance costs
- Advanced cylinder design for longest life
- Engineered to lower operating costs
- Reliable performance and profits
- Work with the company that started it all

## Expandable HPP Machine

**AV-40X**

(40 millions lb. per year)



**AV-50X**

(50 millions lb. per year)



**AV-60X**

(60 millions lb. per year)



**AV-70X**

(70 millions lb. per year)



## AV-40X, 50X, 60X and 70X

Projecting production volume and choosing the right machine size is a big decision. Go small, and you may need to purchase another machine much sooner than you thought. Go big, and you might be stuck with too much capacity. But the AV-40X right-sizes you within your factory and your growth projections.

# Remove limitations to growth

## Easy Upgrade

Over a long weekend, Avure's AV-40X will scale to a 50X, 60X or 70X. You'll purchase upgrade equipment along the way. But you won't need to invest in a new machine.

## Cut Energy Costs by 50%

Improved design and technology allows the AV-X series to reduce electricity costs by up to 50%. You may save enough to upgrade to the next level of machine.

## Highest possible throughput

Avure builds the industry's largest and fastest-filling diameter pressure vessels, which pump pure water and deliver more product on every cycle.

## Rapid cycling

Avure has finessed vessel pressurization and decompression to offer the world's highest performance.

## Engineered to lower operating costs

Avure's experience in specialized metals and engineering lowers maintenance costs and minimizes costly downtime.

## Reliable performance and profits

The AV-X machines work longer, harder, and produce more product per cycle than any other machine, which results in a superior bottom line.

## Work with the company that started it all

Avure has pioneered and developed HPP for more than 20 years. The majority of HPP foods and beverages are produced on our equipment. We are the HPP experts.

## Expand your knowledge

Contact Avure to learn more about AV-40X, and how it applies to your situation and application.

*As your sales and production grow, you'll simply add intensifiers and electrical panels to expand to 50, 60 and 70 million lbs. of output respectively.*

# AV-40X, 50X, 60X and 70X Expandable HPP Machine

	AV-40X	AV-50X	AV-60X	AV-70X
Number of high pressure pumps (Each pump includes four high-speed intensifiers)	1	2	3	4

## Standardized Annual Capacity

1-minute hold time	55,840,000 lbs 25,330,000 kg	82,500,000 lbs 37,420,000 kg	101,520,000 lbs 46,050,000 kg	107,800,000 lbs 48,930,000 kg
3-minute hold time	43,140,000 lbs 19,570,000 kg	57,100,000 lbs 25,900,000 kg	63,450,000 lbs 28,780,000 kg	69,800,000 lbs 31,660,000 kg

## Vessel STD Hourly Capacity

1-minute hold time	7,163 lbs 3,247 kg	10,582 lbs 4,797 kg	13,024 lbs 5,904 kg	13,838 lbs 6,273 kg
3-minute hold time	5,535 lbs 2,509 kg	7,326 lbs 3,321 kg	8,140 lbs 3,690 lbs	8,954 lbs 4,059 kg

Diameter	◀ 18.5", 471mm ▶
Internal Length	◀ 118.1", 3,000 mm ▶
Vessel Volume	◀ 138.7 U.S. gallons, 525 liters ▶
Wire Length	◀ 172 miles (277 km) of wire ▶
Wire Wound Frame	◀ 79.2 miles (127 km) ▶
Total Machine Weight	◀ 170,000 lbs (77,000 kg) ▶
Recommended Input Water	◀ 39° to 84° F   4° to 29° C ▶

## Utility Requirements

Process Water Cooling	58.1 U.S. gal. / minute (300 liters) at 34° F (1° C)
Power Supply	890 kVA / 3 ph. / 480V / 60 Hz / 1070 A / 750 kW 850 kVA / 3 ph. / 400V / 50 Hz / 1230 A / 725 kW * Chillers receive separate power
Air Supply	87 psi (6 bar) machine quality, oil free air, .7 cfm (20 liters per minute)
Cycle Data Documentation	SCADA PC-based control system records operator, time, lot, batch, pressure, temperature, faults, and all other key parameters during cycles for validation and product safety
Design and Manufacturing Certifications	Designed, manufactured and tested according to ASME Boiler & Pressure Vessel Code, Section VIII, Division 3 rules and the European Pressure Equipment Directive 97/23/EC. Other safety requirements expressed e.g. in relevant European Directives (such as Low Voltage, EMC and Machinery Directives) are also met.



### Avure Global Headquarters

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Contact us to arrange an on-site tour of Avure HPP machines.



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