



AVURE<sup>®</sup> HPP

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

Expandable HPP Machine



The world's first expandable HPP machine.  
A master of economics, engineering and  
good taste.

# Expand your HPP capacity on demand

## 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.



## Topline features

- Easily upgrade 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

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



## 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 30 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.

# JBT Avure AV-40X, 50X, 60X and 70X Specifications

	AV-40X	AV-50X	AV-60X	AV-70X
<b>Number of high-pressure pumps (Each pump includes four high-speed intensifiers)</b>	1	2	3	4
<b>Standardized Annual Capacity, 1-minute hold time</b>	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
<b>Standardized Annual Capacity, 3-minute hold time</b>	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
<b>Vessel STD Hourly Capacity, 1-minute hold time</b>	7,163 lbs 3.247 kg	10,582 lbs 4.797 kg	13,024 lbs 5.904 kg	13,838 lbs 6.273 kg
<b>Vessel STD Hourly Capacity, 3-minute hold time</b>	5,535 lbs 2.509 kg	7,326 lbs 3.321 kg	8,140 lbs 3.690 kg	8,594 lbs 4.059 kg
<b>Diameter</b>	< 18.5", 471 mm >			
<b>Internal Length</b>	< 118.1", 3.000 mm >			
<b>Vessel Volume</b>	< 138.7 U.S. gallons, 525 liters >			
<b>Wire Length</b>	< 172 miles (277 km) of wire >			
<b>Wire Wound Frame</b>	< 79.2 miles (127 km) >			
<b>Total Machine Weight</b>	< 170,000 lbs (77.000 kg) >			
<b>Recommended Input Water</b>	< 39° to 84° F   4° to 29° C >			

Utility Requirements	
<b>Process Water Cooling</b>	58.1 U.S. gal. / minute (300 liters) at 34° F (1° C)
<b>Power Supply</b>	890 kVA / 3 ph. / 480V / 60Hz / 1070 A / 750 kW 850 kVA / 3 ph. / 400V / 50Hz / 1230 A / 725 kW *Chillers receive separate power
<b>Air Supply</b>	87 psi (6 bar) machine quality, oil-free air, 0.7 cfm (20 liters per minute)
<b>Cycle Data Documentation</b>	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
<b>Design and Manufacturing Certifications</b>	Designed, manufactured and tested according to ASME Boiler & Pressure Vessel Code, Section VII, 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.

## COUNT ON JBT TO HELP PROTECT YOUR INVESTMENT

JBT's greatest value in PRoCARE® services comes from preventing unexpected costs through smart, purposeful, and timely maintenance based on unmatched knowledge and expertise. PRoCARE service packages are offered as a maintenance agreement in various service levels, depending on your production and cost management requirements.



## JBT LIQUID FOODS

FRESH PRODUCE TECHNOLOGIES | FRESH-CUT, ROBOTICS, STEAMING | FRUIT AND VEGETABLE PROCESSING | SECONDARY PROCESSING | ASEPTIC SYSTEMS | FILLING AND CLOSING | IN-CONTAINER STERILIZING | TRAY SEALING | HIGH-PRESSURE PROCESSING | POWDER PROCESSING | TUNA PROCESSING

### OUR BRANDS



## JBT PROTEIN PROCESSING

### SECONDARY

BRINE PREPARATION | HOMOGENIZATION | INJECTION  
INJECTION & RETURN MILLING | MACERATION | MASSAGING  
TENDERIZATION | TVI MEAT SLICING | AUTOMATED TRAY LOADING

### FURTHER

WEIGHING | PORTIONING/TRIMMING | COATING | FRYING & FILTRATION | PROOFING  
COOKING | COOLING | CHILLING | FREEZING | REFRIGERATION | CLIPPING & PACKAGING  
SOLUTIONS | X-RAY TECHNOLOGY | TRAY SEALING | HIGH-PRESSURE PROCESSING

### OUR BRANDS



### ALSO REPRESENTING



### North America

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We're with you, right down the line.™

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