

## COLD WATER PRESSURE WASHER

# ALKOTA MULTI-GUN SYSTEM

## VARIABLE SPEED DRIVE PRESSURE WASHER



### BENEFITS

- Energy Savings
- Smoother Quieter Operation
- Extend Pump Life
- Extend System Component life
- Extend Motor Life
- Reduce Maintenance



### PERFECT FOR CLEANING

- In Plant Cleaning Systems
- Food Processing
- Industrial Plants
- Pharmaceutical Companies
- Pulp and Paper Mills
- Rendering Plants
- Seafood Packing
- Canneries

### WHY CHOOSE ALKOTA

There is no reason that machines need to be complicated to do their job.

Our team of engineers and product developers have been designing, building and improving high pressure cleaning systems since 1964. When you buy an **Alkota** pressure washer, you're buying quality and longevity. It is an investment in the future of your business.

At **Alkota** we believe that simplicity means quality.

Being American owned our machines are built with high quality materials the old-fashioned way, by hand. We design and assemble them right here in the heart of the USA, so that you know you're getting an American-built machine.



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# MULTI GUN SYSTEM SPECIFICATION CHART

Multi-Gun System bar intelligent built-in factory programmed adjustable frequency drive (VFD) that controls the RPM of the electric motor to deliver the right amount of water flow to each trigger gun maintaining correct pressure. The RPM is automatically adjusted to save energy.

Self-monitoring with digital display that shows individual pump and total system usage, as well as alerts you for schedule maintenance and causes of system shutdown. And everything is password protected to prevent changes in programmed operation by unauthorized personnel.

Real-time system monitoring and control (wash station duty cycle/activity, low inlet water supply and system pressure loss shutdown, and high water temperature shutdown)

Compact and versatile design allows for installation in virtually any location/environment

Systems designed/built to application requirements – provides for increased productivity

VFD increases or decreases pump/motor speed to meet the demands of single and or multiple users

Belt-driven, industrial-duty plunger or piston pump with multi-gun pressure regulator, factory-set pressure relief valve and liquid-filled pressure gauge

## Customer Built to your Cleaning Needs.

No two cleaning situation are exactly the same. In food processing, you might need one set of parameters and in an industrial setting, you might need another. Whatever your need to clean, we've got you covered with customer-built systems.

- Water volume delivery ranges between 15-32 GPM
- Pressure ranges between 1,000 – 3,000 PSI
- Horsepower ranges between 15-75HP
- Electrical requirements available 208/230/330/460/575 Volts 3 Phase Power
- Able to connect multiple units together for larger flow rates
- Option Water Heater Available
- Other options available – ask your Alkota Distributor

## Available Options

- Water Heaters
- Multiple Units Synchronize Together

A Variable Frequency Drive (VFD) system is the VFD display makes is simple to trouble shoot. The VFD system. reduces maintenance or service related issues.

For example: A 20 GPM system, set up for 4 users at 5 gpm each. If there is only one user on the system outputting 5 GPM, the motor/pump will only turn at 1/4" speed to meet that demand.

The VFD system shows a savings in energy costs to run the system, it only uses what it needs. On system start-ups, a VFD controlled system slowly ramps up speed to the minimal required rpm to meet the initial demand.

This eliminates the huge inductive amperage load a system with standard controls requires when starting. A VFD system does not require the use of motor contactors, overloads, and fusing.

## Operation Instructions for Multi-Gun Power Washer

Components include base/frame, pump, motor, drive belts, pressure transducer, pressure relief valve, unloader, pressure gauge and y-strainer. Control panel includes, main disconnect, VFD, E-stop, start/stop push button, indicator light, power supply device fuses and terminal strip.

Operation, the system is started by pressing the Start button on the control panel. The motor will start and the motor speed will increase until the required pressure is obtained on the pressure transducer. Once the pressure transducer reaches the set pressure the VFD will cause the motor to stop and the VFD will go into a sleep mode (adjustable see below) until a spray gun is depressed. The VFD will modulate the speed of the motor for the pump to create the required pressure at the transducer. If a second spray gun or more are depressed the motor will increase accordingly to maintain the pressure required.

The light flashing on the control panel indicates the pumping system is in sleep mode, this can be set to 5 minutes, 30 minutes or unlimited time. During sleep mode the pumping system can awake from sleep mode with a spray gun triggered. Once sleep mode has timed out, the system must be manually restarted with the start pushbutton. If a flow switch/pressure switch is installed in the circuit, the light will stay solid indicating a water feed problem to the pumping system.

## FOR BETTER CLEANING



Clean Better with Alkota Biodegradable detergents specially formulated for high pressure cleaning.

All Pressure washer detergents are blended with Scal Trol to reduce scale buildup in the heating coil, pump and fittings. This improves equipment performance and minimizes

replacement and repair cost.



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## CERTIFICATIONS



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