SAM™

System Overview

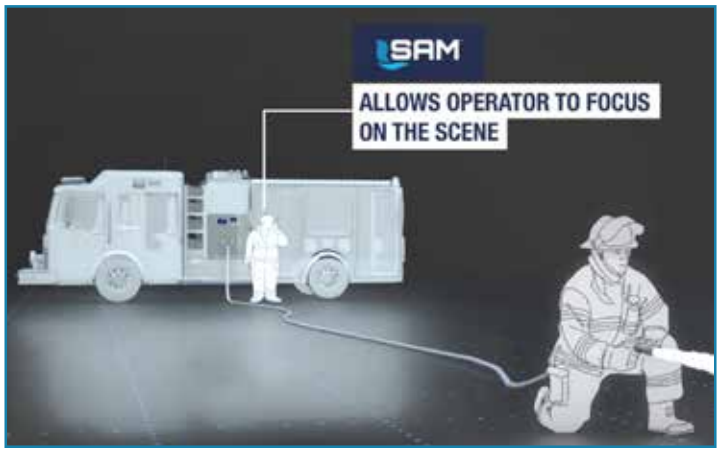
SAM™ Control System

Transforming Traditional Pump Operations.

SAM is a total water flow control system that manages your truck's pump, tank, intakes and discharges. SAM was developed to help eliminate common problems on the fireground and minimize disruption of water, the firefighter's lifeline.

Let SAM help with these common fireground challenges:

- ☑ Interrupted water flow from operator errors
- ☑ Pressure spikes on handlines
- ☑ Water supply problems due to loss of hydrant pressure or cavitation
- ☑ Miscommunications or excessive radio traffic issues when water is needed
- ☑ Not enough crew to respond to calls
- ☑ Complicated pump operations
- ☑ Rotating pump operators not as familiar with the truck



What exactly does SAM do?
By controlling intake, discharge and tank valves as well as engine speed, SAM manages water supply to the crew while the operator focuses on the fireground and crew support. During the critical first five minutes, the pump operator has roughly 13 tasks to complete to supply initial attack crews and establish a water source. With SAM, the operator only has to do three of these tasks and SAM takes care of the rest.

Once the operator sets discharge pressures and selects a source, SAM does these things in the background:

- Opens tank-to-pump valve
- Charges discharge line and adjusts to set pressure
- Bleeds LDH or pre-primes to the intake valve and opens intake
- Closes tank-to-pump and refills tank
- Watches intake pressure and switches back to tank if pressure is lost

Control Center

- Intake, tank and discharge control
- CAFs and foam operation when Class 1 SmartCAFS or SmartFOAM is installed

Pump Controller (Manual mode shown)

- Governor functions
- Tank-to-pump and Tank-to-valve control
- Pump Health
- Engine data

Twister

- Throttle control
- System Idle

OPTIONAL WIRELESS TABLET

The SAM wireless tablet allows the operator to have quick access to the control center functions. As soon as the operator sees a call for water, they can stop what they are doing and tell SAM what line to open and send water immediately.

SYSTEM REQUIREMENTS

The system requires the following components to be specified with the truck:

- Hale Qmax or Qmax-XS
- Akron Brass Electric Valves and pressure transducers
- Class 1 ITL-40 tank level
- Hale SPV primer
- Hale electric MIV(s)

Optional items:

- Akron Brass Navigator electric valve controllers (can be used as redundant controllers, but not required)
- Class 1 SmartFoam or SmartCAFS
- Additional SAM Control Center (Up to 2 additional)

To learn more about SAM, take a tour and get a truck bid spec, visit samflows.com