





- Why SAM
- It's not so new
- Don't think about pumping differently, think about not having to worry about pumping
- The first five minutes of the fire scene
- Redundancy, manual overrides





Jason Cerrano
20 Years Fire Service
Inventor SAM Technology

Why SAM™

Proven on the fireground, not a lab

IDEX invested in this technology because we believe it solves problems and gives you a better fireground

Developed by a 19-year veteran of the fire service based on real fireground experience

It's Not So New

First put into service in 2017



SAM used to fight over 1,000 fires



Communicates using technology on every firetruck ever made since 1990's



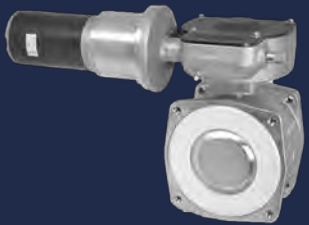
Screens built with same technology and people who have been manufacturing pressure governors for over 20 years



**Utilizes Existing Fire Truck Components
from brands that have been around for over 100 years**



Electric Valves



With
mechanical
overrides

Introduced in 1992



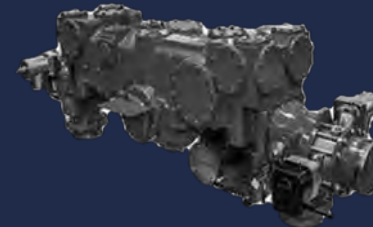
Pressure Governor Technology



On every truck since 1999



Qmax Pumps



Released to market in 1999



Electric Intake Valves

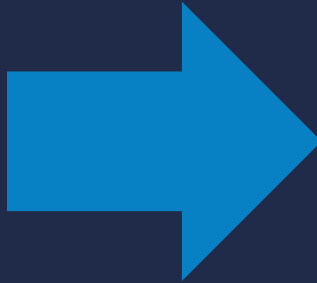


With External
Manual
overrides

Introduced in 1995

SAM Hardware isn't new and has been on fire trucks for decades

Don't think about pumping differently,
think about not having to pump at all.





Learn How SAM Makes Pumping Simple

3 LEVELS OF BACKUP

01

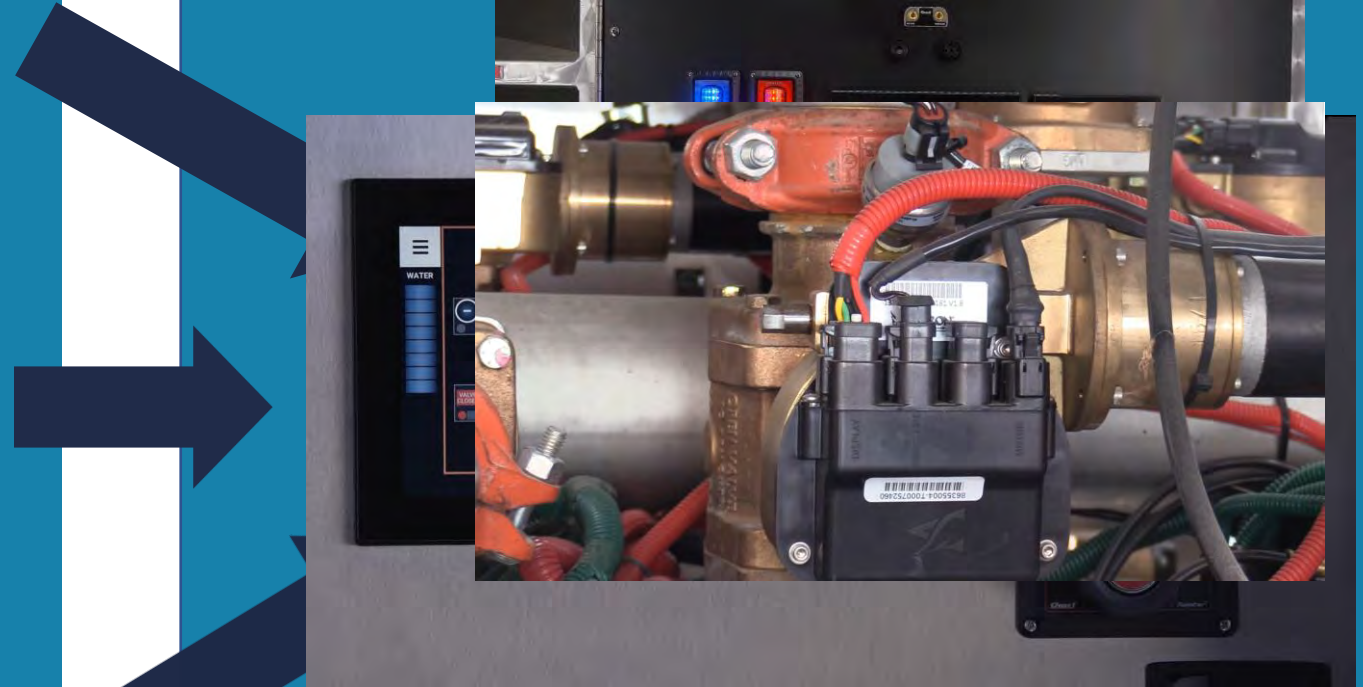
REDUNDANCIES– SAM is available with multiple control centers. If there is a problem with one, the second is independent and will control the system. immediately.

02

MANUAL MODE – SAM can always be switched to manual mode to control valves and engine speed directly.

03

MANUAL OVERRIDES – In the unlikely event there is a problem with a valve or the trucks electrical system, all valves are equipped with direct physical overrides.



Redundancy and Self diagnostics



Independent Screens

Screens are independent, so one SAM screen can be physically damaged beyond functioning and the second will still work.

Each component operates independently so failure of one won't effect the others

Valves maintain individual flow control. The governor will retain all settings and maintain pressure control in pump and control of engine. Any failure of the system will NEVER stop the flow of water.

SAM is constantly checking itself

We check valves to make sure they are moving and responding regularly. You will know you have a problem when you are out getting fuel, not when you pull up to a fire. It continuously checks to make sure all devices are seen on the network and that the network itself is clear of any faults.

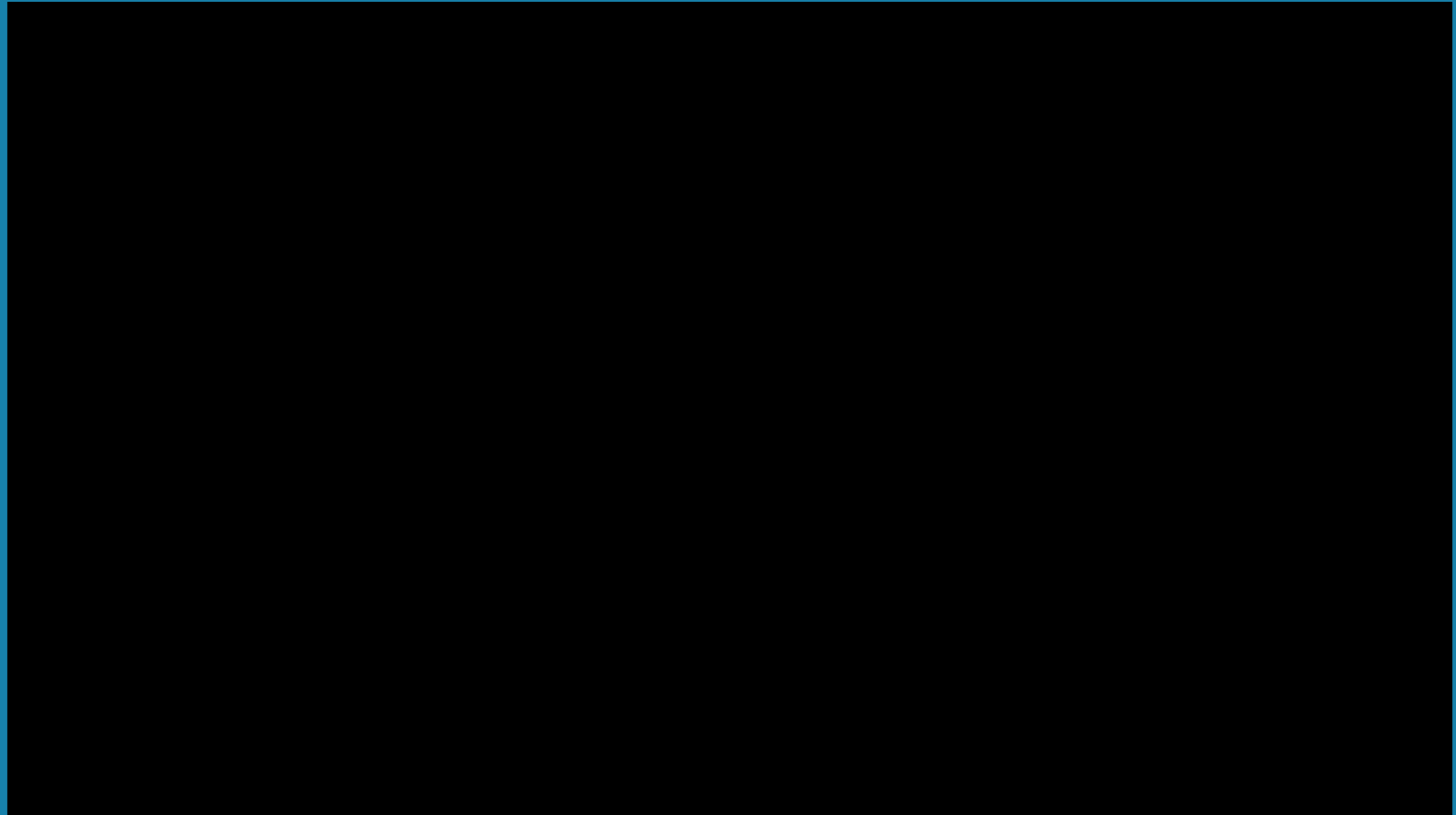


Features

- 7/16" Socket or optional hand wheel on new actuators
- Place handlines near side of truck for easy access
- Intakes have standard handwheel on pump panels
- Label/Color code valve heads for quick identification and use

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Manual Overrides



Features

- Place handlines near side of truck for easy access
- Label/Color code valve heads for quick identification and use
- New valves have overrides on each side
- Optional Handwheel Kit

Manual Overrides



Old Actuator
Volume - 217.6 in³



New Actuator
Volume - 143.8 in³



Optional Handwheel Kit
Attaches to either side of the actuator

SAM[™] Warranty

WARRANTY

PUMP & GEAR BOX



- Auto Cooling protects from cold shocking and over heating
- Auto T2P and re-circ protects from dry pumping and overheating
- Sensors & maintenance reminders ensure operators keep pump serviced

VALVES



ELECTRONICS

Screens, Sensor, PDMs & Harnessing



When you buy SAM you get:



Industry leading pump warranty



Double the standard electronics warranty for SAM system electronics!



Features

- Protects hydrants while maximizing flow at low residual pressure
- Avoids **stress** and **complexities** from run away governor scenarios
- Keeps water flowing during complex water operations
- Adjustable protection settings from 10 psi to 30 psi

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Low Hydrant



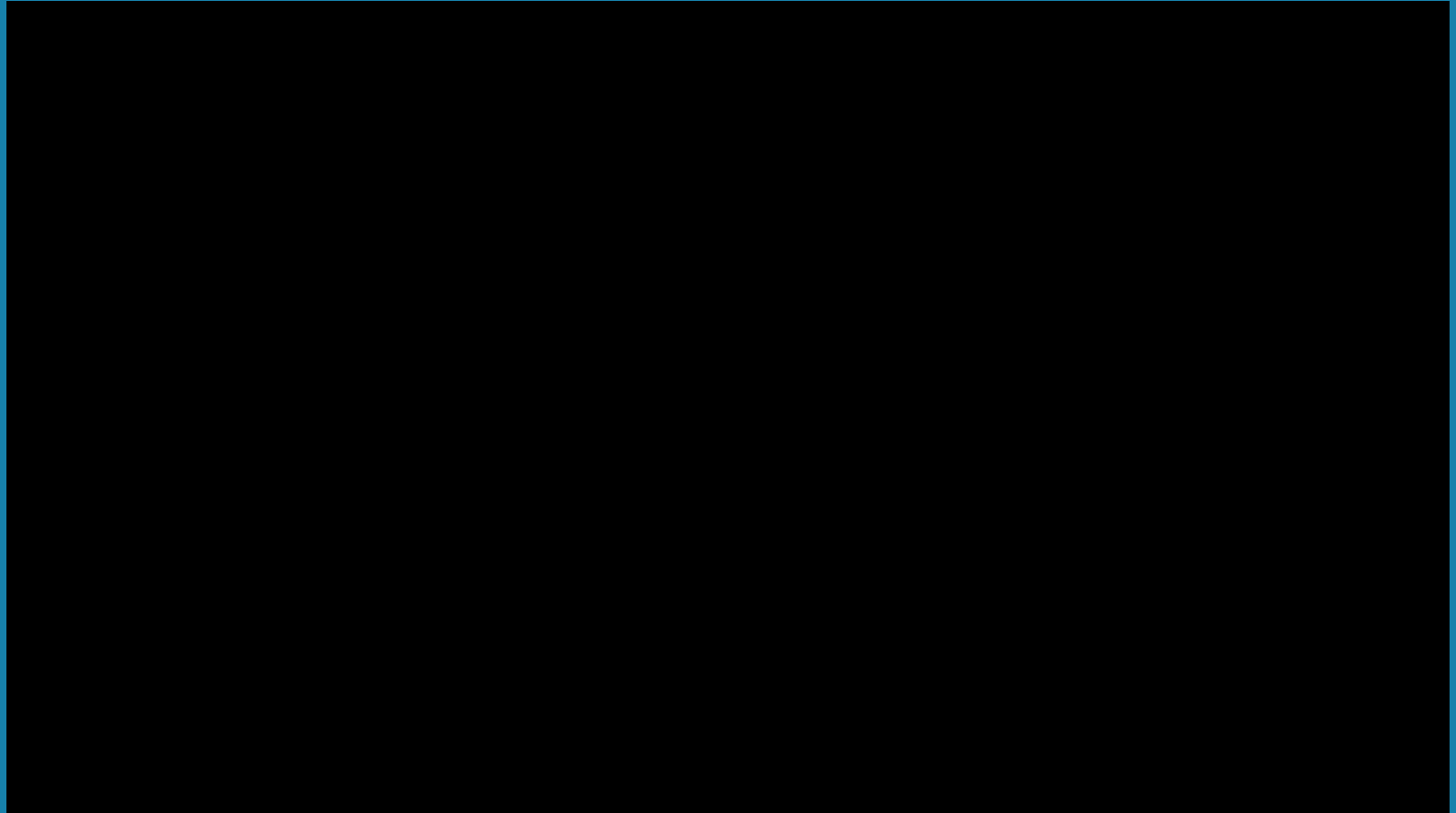


Features

- Auto primes when necessary
- Fills tank automatically after draft is established
- Keeps water flowing during transitions
- Simplicity with porta-tanks and draft loops
- Can adjust tank fill for tougher drafting scenarios (drafting rules still apply)
- Operator focuses on draft problems, not the panel

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Drafting



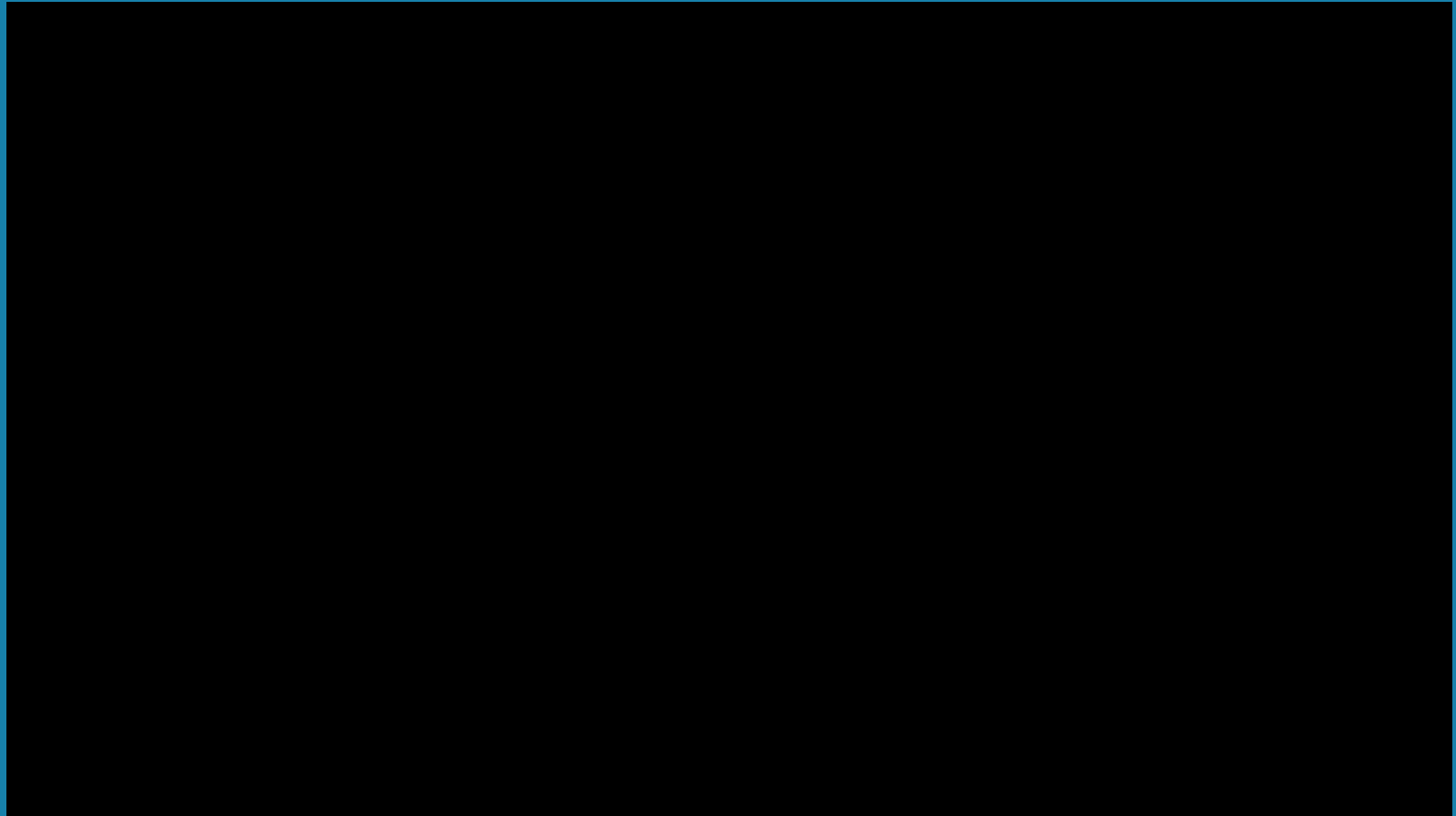


Features

- Static water readings are misleading to operators
- No expensive flow meters needed
- Can help to identify kinks in handlines
- Does not measure adequate flow on handlines, identifies static water only.

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Low Flow Tags



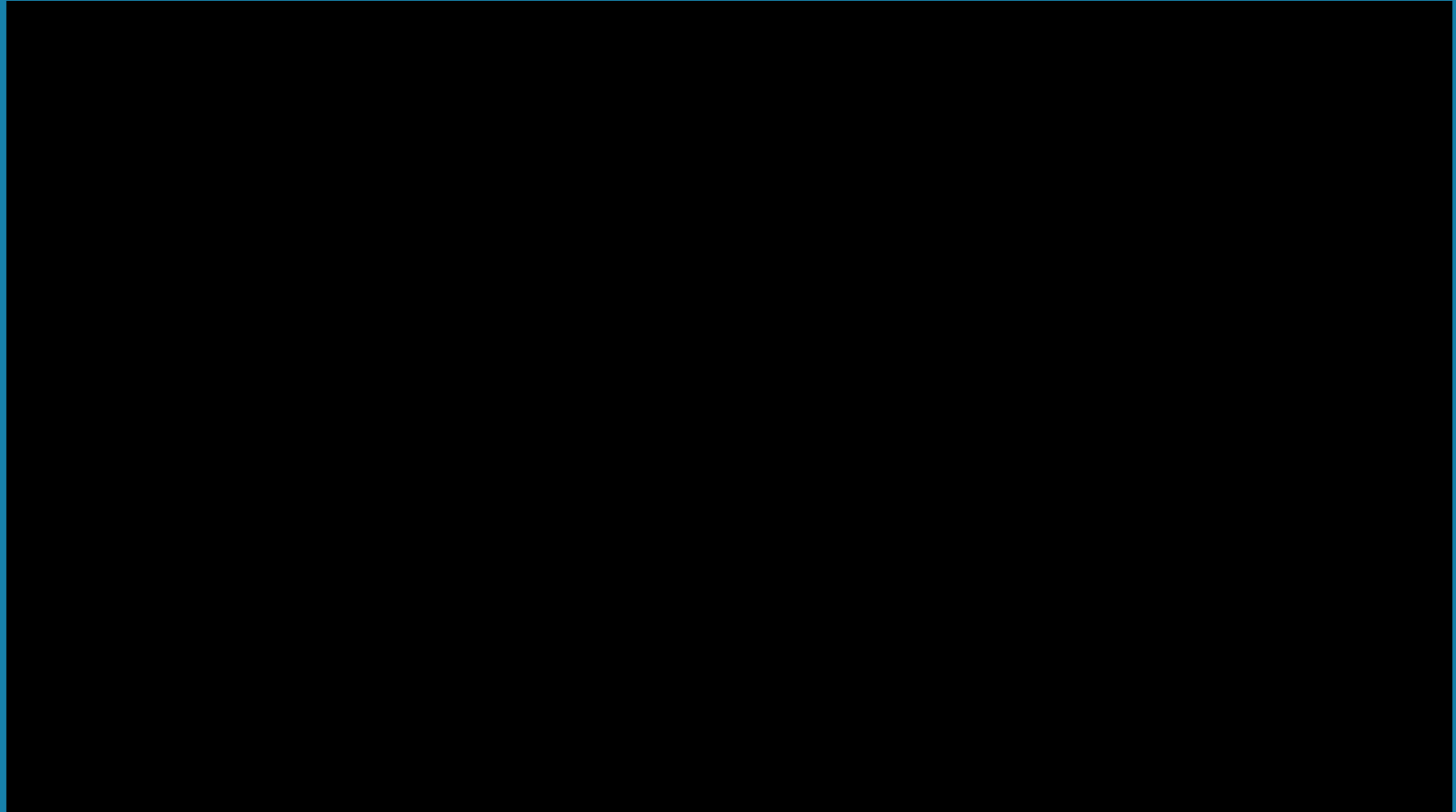


Features

- Screen rated from -40 F to 185 F
- Normal water from rain or spray does not affect operation
- Cascading water will cause screen to pause until cleared
- Works with any gloves. Thicker gloves require slightly more attention for touch
- Fully sealed front and back
- Clears ice around -20 F

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Environmental



SAM – 2 ways to spec

1. As a module – **Standard** Qmax/XS or **standard** DSD module
2. As individual components required for SAM

Next Slide....

- 
- 
- QMAX Module
 - 42" wide Side Mount with Crosslays
 - QMAX-XS Module
 - 34" wide Side Mount with Crosslays
 - 44" wide Side Mount with Speedlays
 - 46" wide Side Mount with Speedlays and Enclosed Roll-up Door Body
 - DSD Module
 - 34" wide Side Mount with Crosslays
 - 44" wide Side Mount with Speedlays
 - 46" wide Side Mount with Speedlays and Enclosed Roll-up Door Body

SAM Individual component spec

NEEDS TO BE IN INCLUDED SPEC

- ☐ SAM System
- ☐ Discharge Valves - Akron Brass Electric Valves with pressure transducers
- ☐ Tank to Pump and Tank fill - Akron Brass Electric Valves
- ☐ Intake valves - Hale electric Master Intake Valves (MIV)
- ☐ Auxiliary intake valves - Akron Brass Electric Valves
- ☐ Hale QMax or QMaxXS (with G Gearbox)
- ☐ Hale ESP electric primer
- ☐ Class1 ITL-40 for water level

OPTIONS

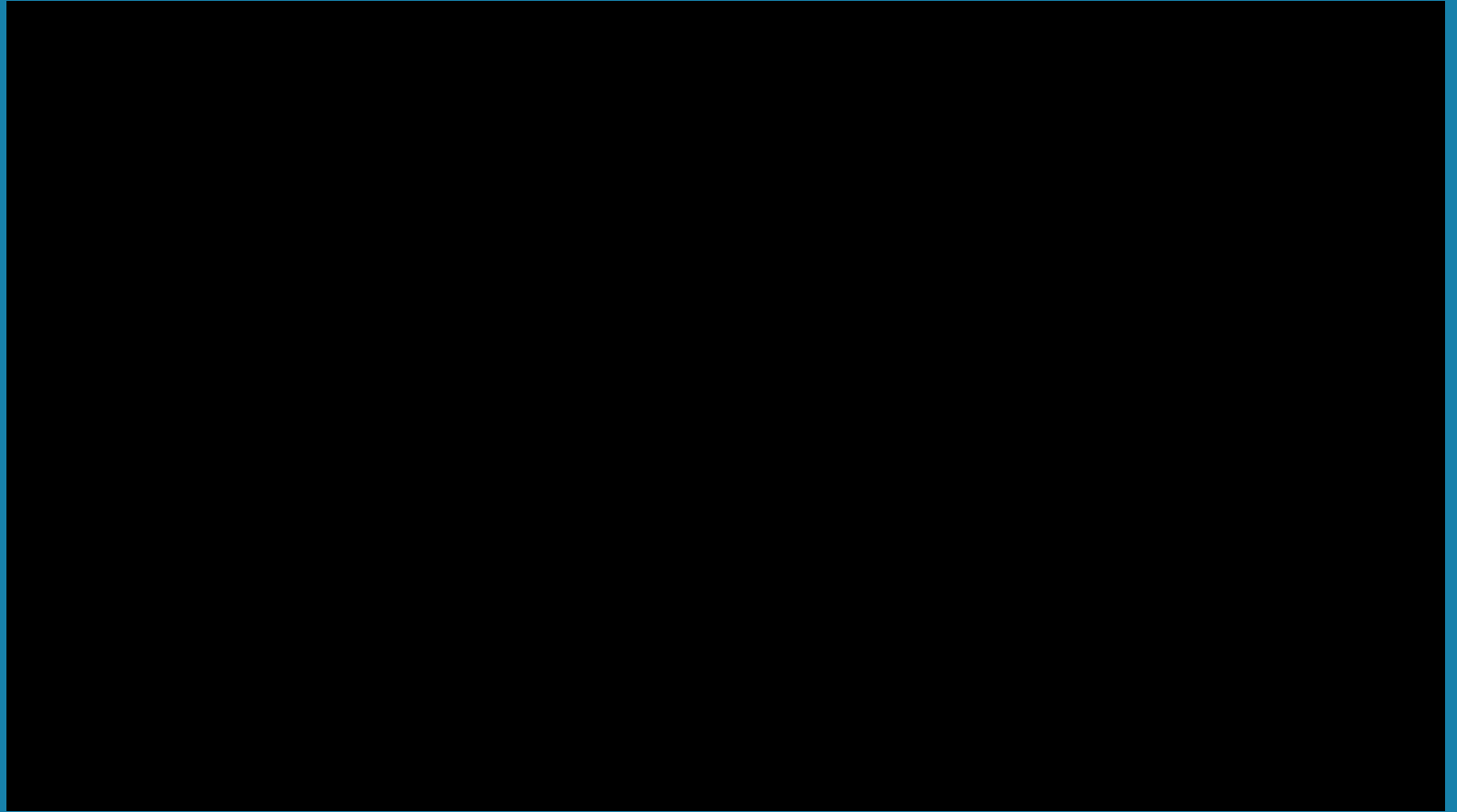
- ☐ SAM options – Tablet or additional Control Centers
- ☐ SmartFoam or SmartCAFS with Class1 ITL-40
- ☐ Akron Brass Navigator Control heads (redundant control point option)

Included with SAM base spec:

- 2 Control Center display
- 1 Pump Controller display
- 1 Twister throttle control
- Pressure governor (integrated in SAM screens)
- Anodes
- MIV control panels (1 per MIV)
- 4 Speakers



Sam Prove It



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Sam Nozzel

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