Allied Pumps



BOOSTER STATION

DAQUA
Mine Dewatering System

WHY CHOOSE DAQUA?

With one duty pump and one standby pump, the DAQUA Booster Station system delivers reliable, simple, safe and low-cost pumping in comparison to Progressive Cavity (PC) pumps.

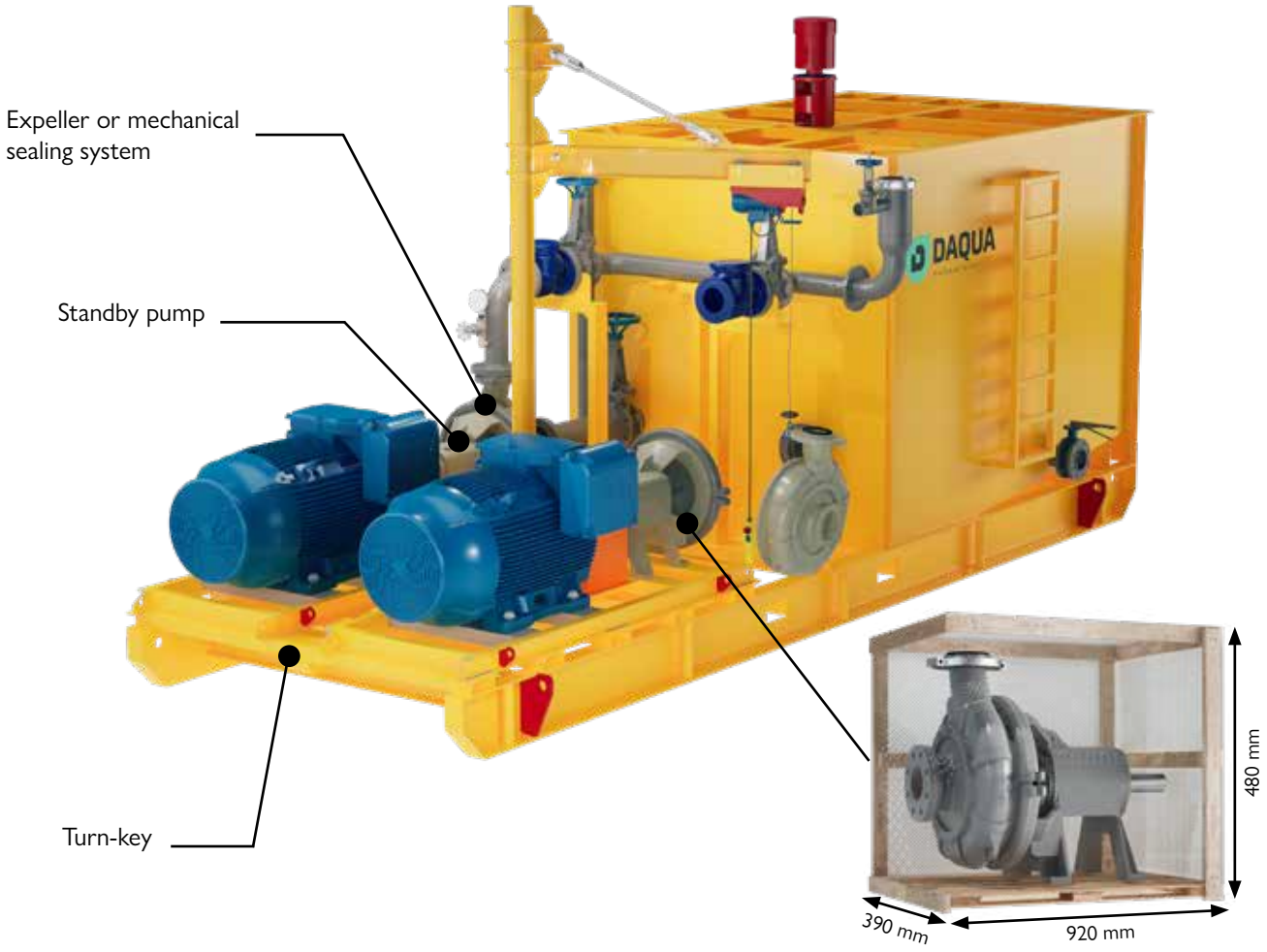
The DAQUA Booster Station's modular design allows it to follow advancement of the mine face development.

The need for fewer pumps means there are fewer electric motors & control panels to operate and maintain.



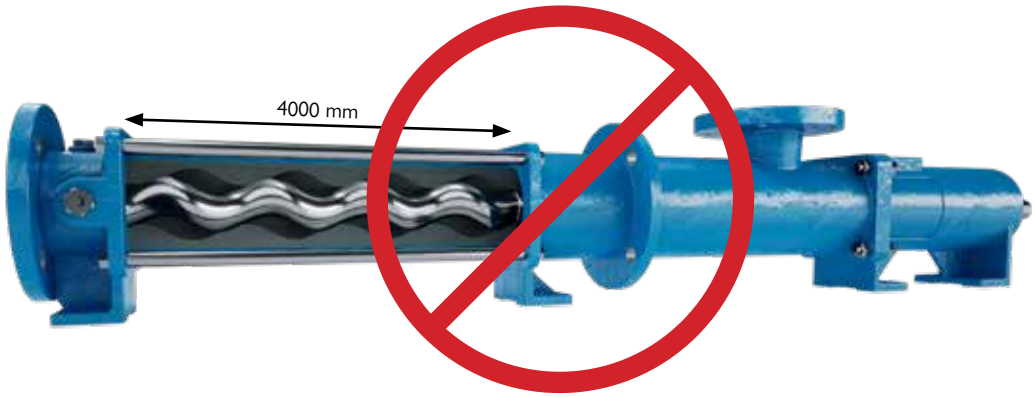
The DAQUA Booster Station replaces the need for multiple progressive cavity pumps

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COMPACT DESIGN

The DAQUA's pump compact footprint allows for safe and easy transportation to site using a simple utility vehicle. This differs from progress cavity pumps which require specialised lifting equipment. As a result, DAQUA offers increased safety for operators.



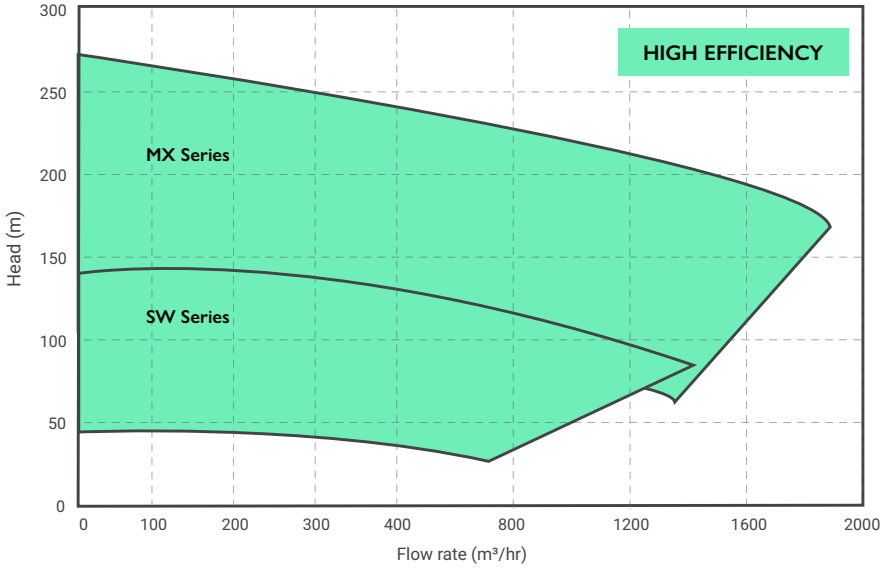
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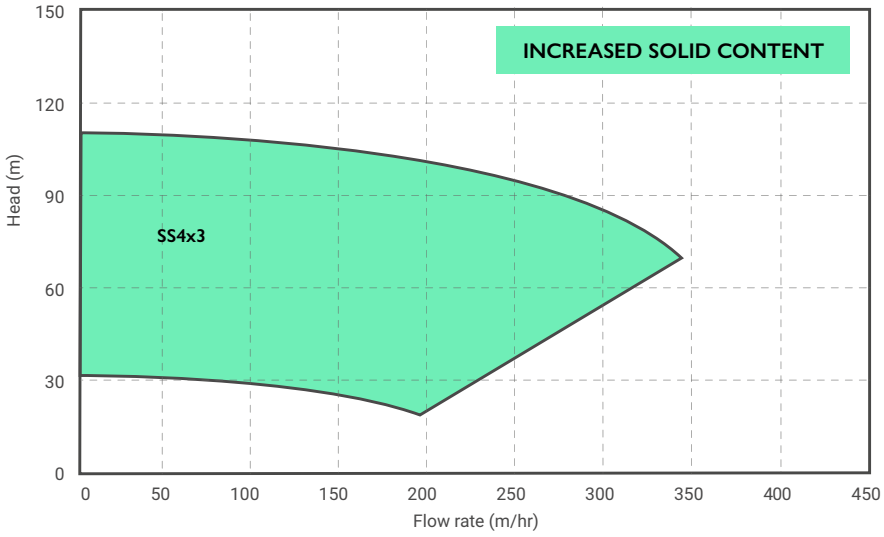
BETTER FOR OPEX

In theory, the performance of Progressive Cavity (PC) Pumps can seem attractive however, when labour, regular repair requirements and higher cost spare parts are taken into consideration, PC pumps can end up representing a significant part of the mine's OPEX cost.

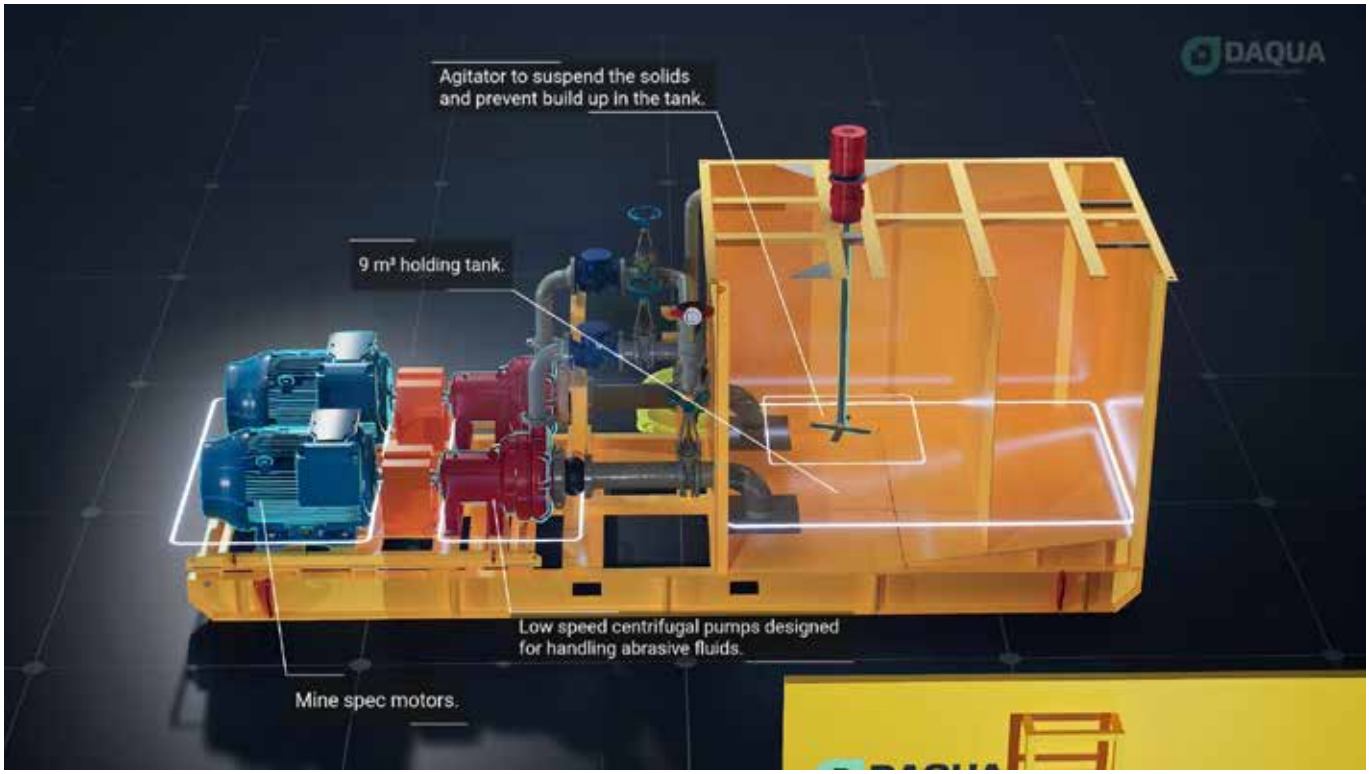
Additionally, PC pumps are prone to breakage and early failure shortening the life of the asset, requiring adhoc replacement purchases.

DAQUA's use of centrifugal pumps, delivers significantly reduced OPEX costs in the form of lower cost spare parts and a more expedient turnaround time when maintenance or repair is required.





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UNIQUE FEATURES

The DAQUA Booster Station features two centrifugal pumps designed for abrasive fluids and a holding tank to ensure sedimentation / solids collection maintaining a positive feed to the pumps. Additionally, an internal agitator is included for the mixing and suspending of solids.

Features:

- 9 m^3 baffled capture tank to ensure sedimentation / solids collection.
- Two low rpm, high pressure centrifugal pumps designed for handling abrasive fluids, duty/ standby.
- Overflow filtering
- Agitator for mixing and suspending of solids.
- Low speed centrifugal pumps.
- Pumps can be belt driven or direct coupled
- Standard 1000V motors.

Technical:

- Pressure: up to 250m discharge pressure.
- Flow rate: 500 m^3/hr (140 l/s)
- Materials: Cast Iron, S/S, High Chrome Alloy, Duplex
- Weight: 2980 kg for standard size model

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CONTROL PANEL

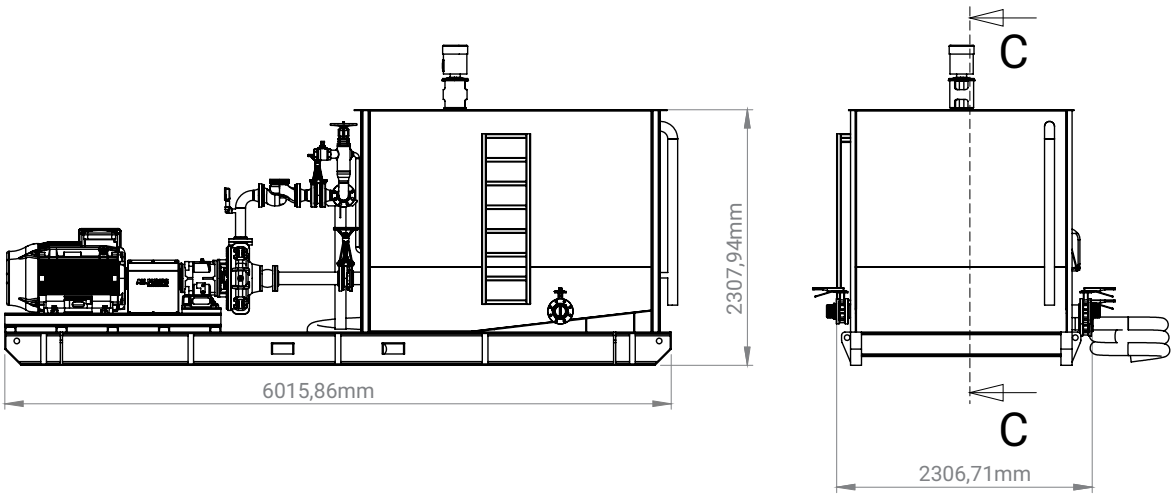
The DAQUA Booster Station comes with control panels specifically built to resist the tough conditions found in underground mines. Each system can be customised according to the operator's needs, but our standard design includes the following features.

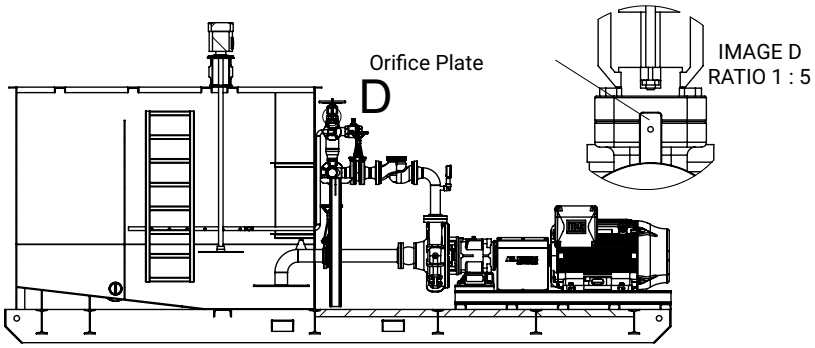
- AS3000.2018, AS61439.1 compliant
- Short circuit, overcurrent protection (Earth leakage optional)
- Integration into client SCADA or DCS via Ethernet network connection port
- Physical 22mm push button control for manual control.
- Auto control via 7" industrial touch screen with historical trending and alarms
- Customisable solution - increase control levels without adding a new board
- Mild Steel IP56 Enclosure choice of colours (White, Blue, Orange)



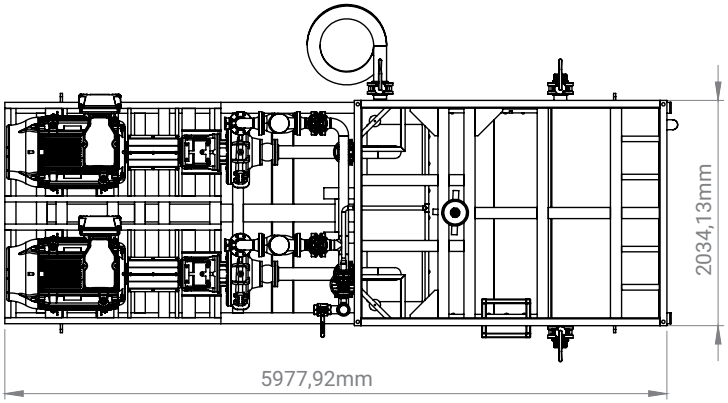
DIMENSIONS

Below are the standard dimensions for the DAQUA Booster Station, but the module can be designed according to the available space and requirements of each mine.





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