ARMSTRONG

Horizontal
Split Case Fire Pump
Series 4600F

Water-Based Fire Suppression System

SOLUTION OUTLINE

MAKING ENERGY MAKE SENSE

With our expertise in fluid flow, heat transfer, variable speed, and demand-based control, Armstrong Fluid Technology leads the fluid systems industry, including HVAC, plumbing, and fire safety in providing the most energy efficient and cost effective solutions to building professionals and owners around the globe.

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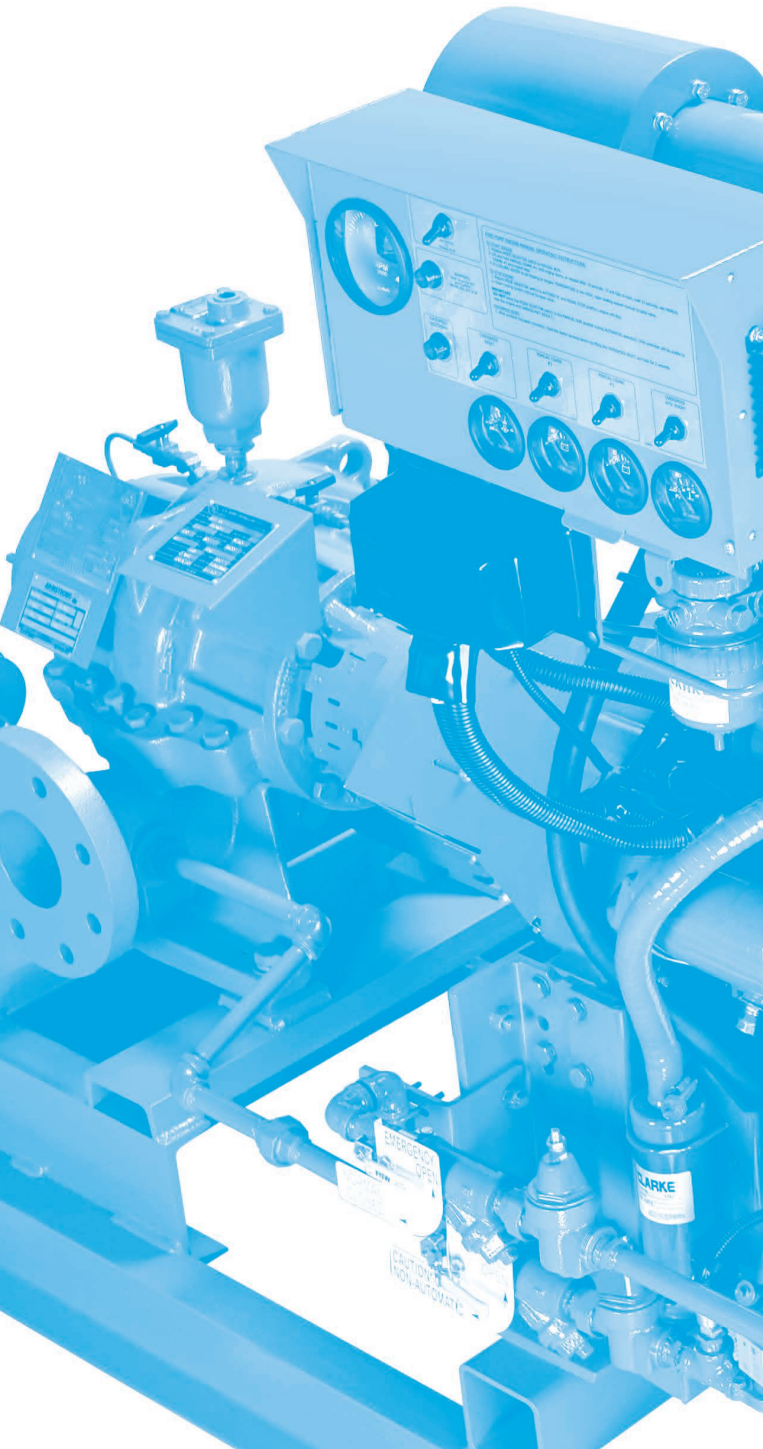
The Armstrong Series 4600F is the state of the art in Horizontal Split Case pumps, meeting or exceeding the requirements of NFPA as well as fire protection testing laboratories such as UL, ULC and FM.

The compact pump design and reduced footprint make the 4600F perfectly suited for use in new construction, packaged fire systems and retrofit installations.

SAVES INSTALLATION COSTS AND LIFECYCLE COSTS

Industry-leading, high-efficiency pump designs require smaller driver selections, which in turn require smaller controllers. Smaller drivers and controllers draw less power, so they can be supported by lower-rated electrical components. All these factors contribute to reduced equipment cost.
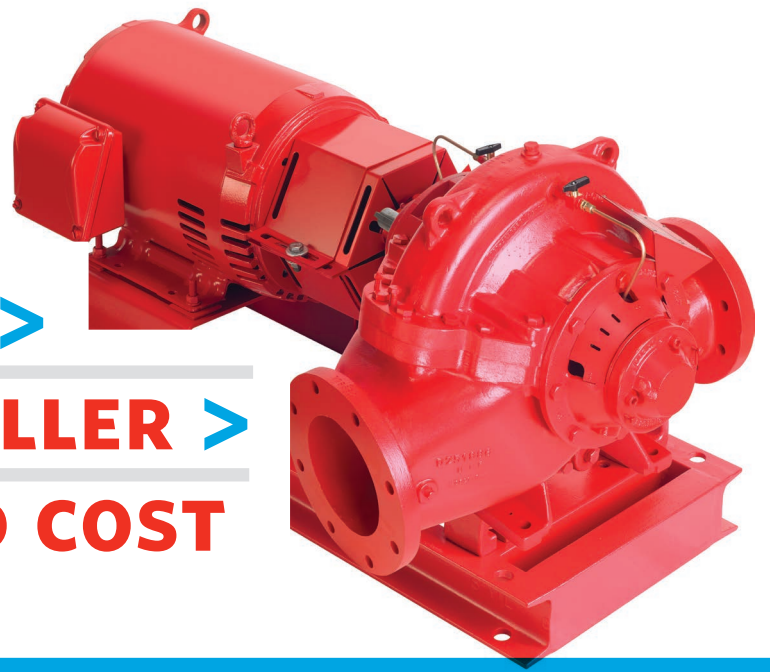
At critical duties Armstrong HSC 4600 models installed offer cost savings of up to 20%.

HIGH EFFICIENCY >
SMALLER DRIVER >
LOWER INSTALLED COST

SMALLER DRIVER >
SMALLER CONTROLLER >
LOWER INSTALLED COST

DURABILITY

Oversized stainless steel shaft is rated for min. 5000 run hours

Double suction impeller prevents wear due to imbalanced flow

Sealed, permanently-greased bearings prevent seizing

Externally mounted combination bearing and seal housing minimises shaft deflection

EASY MAINTENANCE

Fitted with drain connection for drip containment

Replaceable case wear rings – Locked to prevent rotation or axial displacement

Hydraulically balanced double suction impeller minimises axial thrust

Three-piece split gland shaft sealing

Replaceable shaft sleeves

CONTRACTOR
FRIENDLY

The contractor-friendly design approach means easy access for repair, easy replacement of bearings, and flexibility on installation. If needed, the pump can be reversed from the left-hand to right-hand drive at the site.

The innovative 3-piece gland seal packing design means that the packing can be changed without removing the rotating assembly.

The Armstrong 4600F leads the industry with its Tilted-Parting casing design that places Suction and Discharge on the same center line. This makes it easy for contractors to install piping in advance of the pump delivery, which can compress construction schedules and reduce labour.

The pump shafts and all related parts are identical for left and right-hand drive configurations. This means the 4600F can be reconfigured on-site to rotate in the opposite direction if needed.

Lastly, with a small overall footprint, there's plenty of space around the pump to make installation, commissioning and maintenance easier.

Contractor can save time and minimise costs with features that reduce maintenance

Tilted parting casing design – rotating element can be removed without disturbing piping

Ergonomic design for stuffing box extension
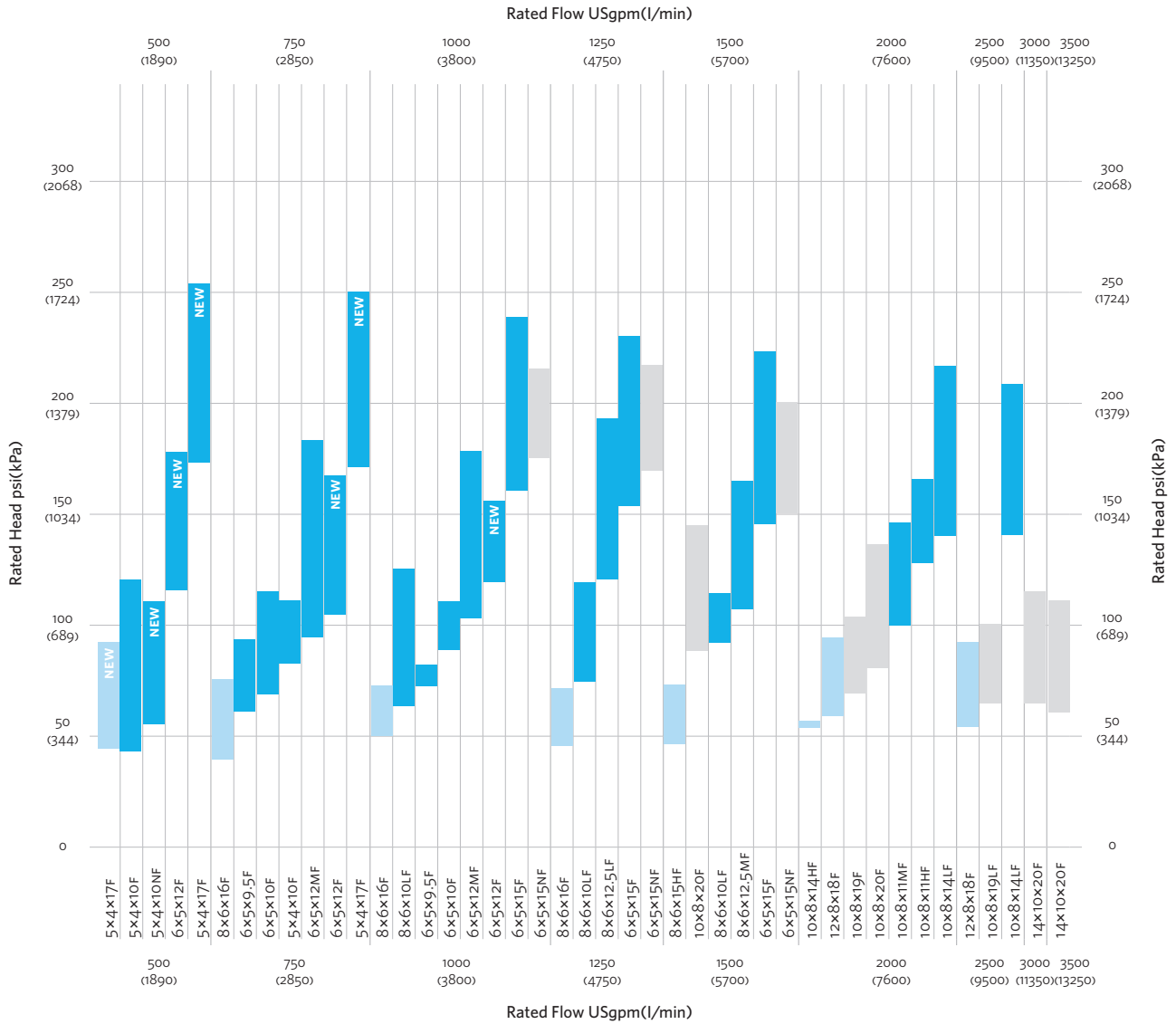
Removable bearing housing – without removing top casing

Readily available spare parts kits

ARMSTRONG HSC 4600F FIRE PUMPS – 50Hz

Performance Selection Chart

Legend: 1500 rpm | 3000 rpm | Coming soon

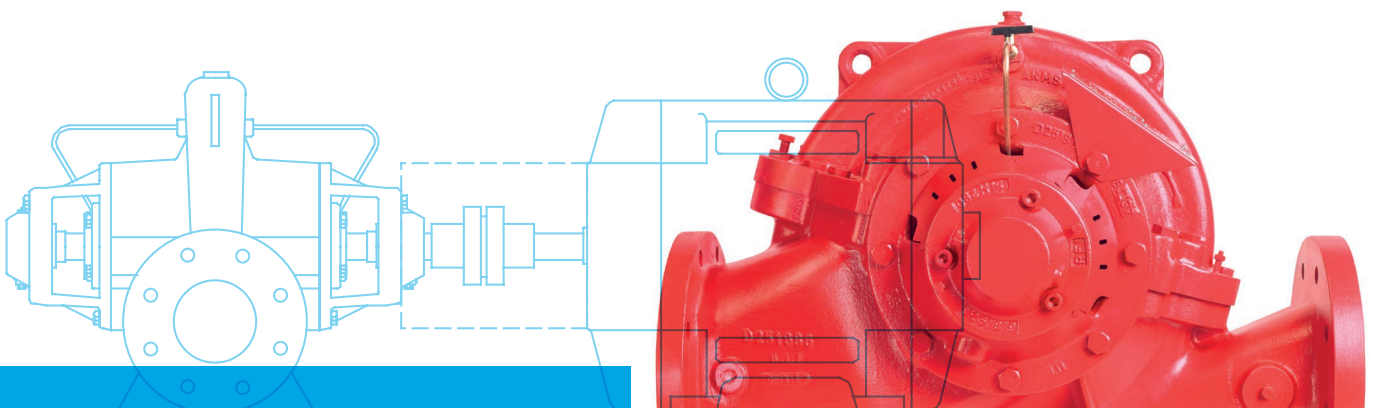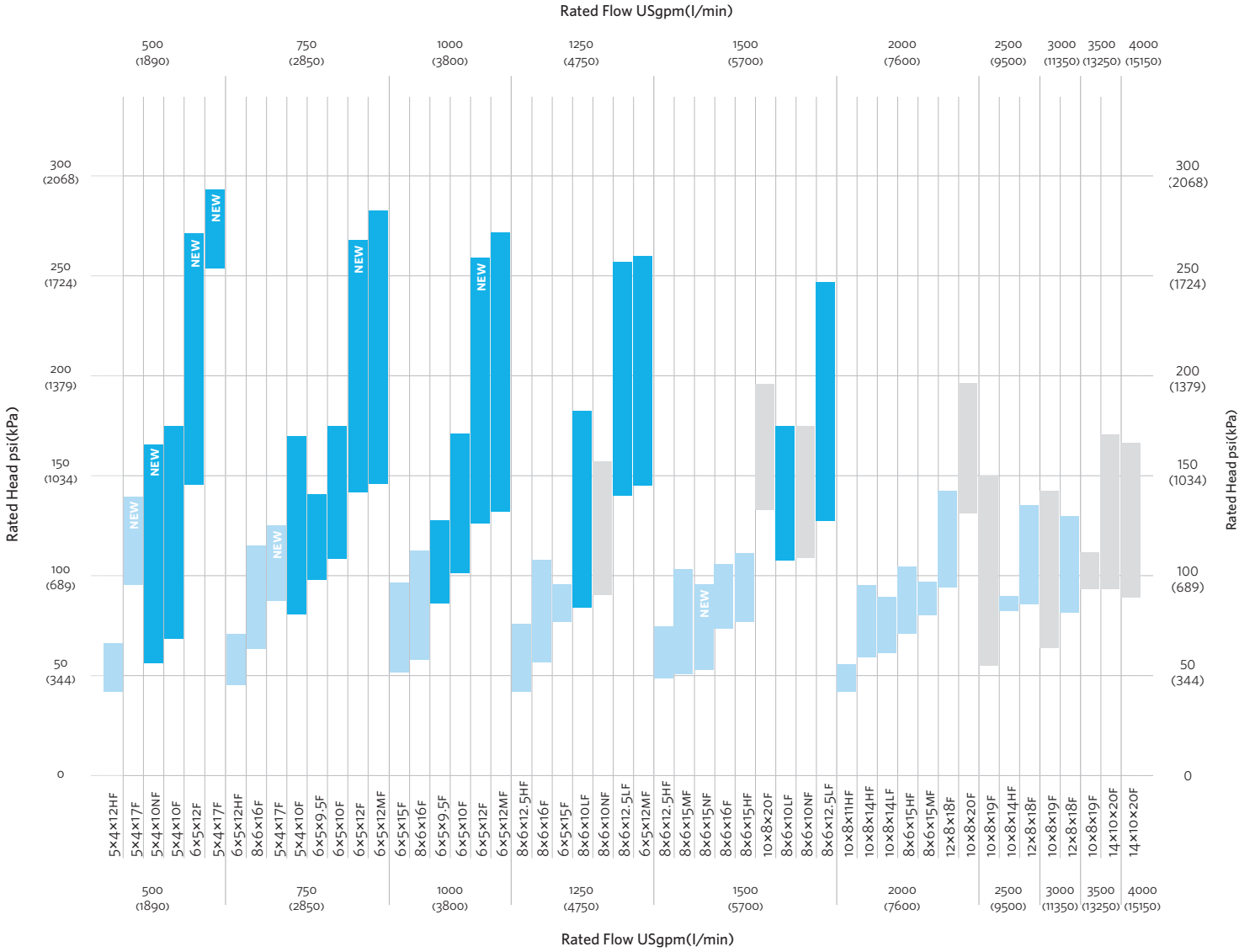Rated Flow USgpm(l/min)

Rated Head psi(kPa)

Web-based sizing and selection software makes it easy to choose the Armstrong fire pump that's right for your building project. All supporting literature, performance curves, 3D CAD files and Revit models are available for download.

ARMSTRONG HSC 4600F FIRE PUMPS – 60Hz

Performance Selection Chart

Legend: ■ 1800 rpm ■ 3600 rpm ■ Coming soon

Performance Selection Chart plotting Rated Head psi(kPa) versus Rated Flow USgpm(l/min).

Rated Flow USgpm(l/min) (top axis):
500 (1890), 750 (2850), 1000 (3800), 1250 (4750), 1500 (5700), 2000 (7600), 2500 (9500), 3000 (11350), 3500 (13250), 4000 (15150)

Rated Head psi(kPa) (vertical axis):
0, 50 (344), 100 (689), 150 (1034), 200 (1379), 250 (1724), 300 (2068)

Pump models (horizontal axis):
5×4×12HF, 5×4×17F, 5×4×10NF, 5×4×10F, 6×5×12F, 5×4×17F, 6×5×12HF, 8×6×16F, 5×4×17F, 5×4×10F, 6×5×9.5F, 6×5×10F, 6×5×12F, 6×5×12MF, 6×5×15F, 8×6×16F, 6×5×9.5F, 6×5×10F, 6×5×12F, 6×5×12MF, 8×6×12.5HF, 8×6×16F, 6×5×15F, 8×6×10LF, 8×6×10NF, 8×6×12.5LF, 6×5×12MF, 8×6×12.5HF, 8×6×15MF, 8×6×15NF, 8×6×16F, 8×6×15HF, 10×8×20F, 8×6×10LF, 8×6×10NF, 8×6×12.5LF, 10×8×11HF, 10×8×14HF, 10×8×14LF, 8×6×15HF, 8×6×15MF, 12×8×18F, 10×8×20F, 10×8×19F, 10×8×14HF, 12×8×18F, 10×8×19F, 12×8×18F, 10×8×19F, 14×10×20F, 14×10×20F

Rated Flow USgpm(l/min) (bottom axis):
500 (1890), 750 (2850), 1000 (3800), 1250 (4750), 1500 (5700), 2000 (7600), 2500 (9500), 3000 (11350), 3500 (13250), 4000 (15150)

For more information on Armstrong Fire Pumps please contact us at:

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SAFETY HAS A HOME