



# W+ Series Centrifugal Pumps

## Reliability, Efficiency & Product Integrity

- **Advanced design innovations.**  
*Provides efficiencies and capabilities not available from other pumps.*
- **Over 100,000 installed worldwide.**  
*Proven Performance.*
- **Unique APV spiral volute in back plate.**  
*Eliminates turbulence and reduces NPSH requirements. Reduces noise level by optimizing flow. Reduces shaft loads for longer bearing life.*
- **Gently tapering 7° discharge port for best diffusion.**  
*Optimizes product flow, reduces turbulence and prevents product build-up. Reduces noise, vibration and wear.*
- **Advanced, high efficiency impeller design.**  
*Minimizes turbulence and reduces NPSH requirements at high flow capacities.*
- **Dynamically balanced impellers.**  
*Minimizes vibration and wear.*
- **Internal mechanical seal.**  
*Fully lubricated by product to extend life. Resists damage from hydraulic shock.*

## Life Cycle Costs

- **Heavy thick-wall pump casing limits stress and deformation.**  
*Durable and reliable for long service life.*
- **304 stainless steel motor adaptor.**  
*Prevents corrosion and eliminates paint. Reduces maintenance and improves plant appearance.*
- **Reduced vibration, accurate shaft alignment and resistance to cavitation extend seal and bearing life.**  
*Less downtime. Lower maintenance costs.*

## Maintenance

- **Front-loading seal (single only).**  
*Easy and fast maintenance. Eliminates need to remove pump from process.*
- **Split sleeve impeller shaft with clamping collar.**  
*Easy to adjust clearance between impeller and casing.*
- **Self-aligning collar.**  
*Assures shafts run true to extend seal and bearing life. Easy to install.*
- **Simple impeller gapping procedure.**  
*Assures correct clearances for best performance.*

## Cleanability

- **Shaft seal spring outside the process.**  
*Maximum hygienic operation (maintains cleanliness).*
- **Circular pump casing.**  
*Provides strength and ease of cleaning.*



## Wi+ Inducer Options

- **The inducer option provides a built in “booster pump” feeding the impeller.**  
*Reduces the NPSH requirement by 50-70%. Handles higher viscosity products more efficiently (up to 1,000 cp). Improves the ability of the pump to handle liquids with entrained air.*
- **Optional on 14 models.**  
*Highly engineered APV inducer improves performance.*



## Features and Benefits

- **16 basic models with many variants and options to meet specific application requirements.**

*The flexible W+ design and many options is ideal for nearly any hygienic application (max. viscosity less than 1000cP).*

- **Easy to install mechanical seal with only two sizes.**

*Reduces inventory and maintenance costs.*

- **Standard seal is silicon carbide rotating face and carbon stationary.**

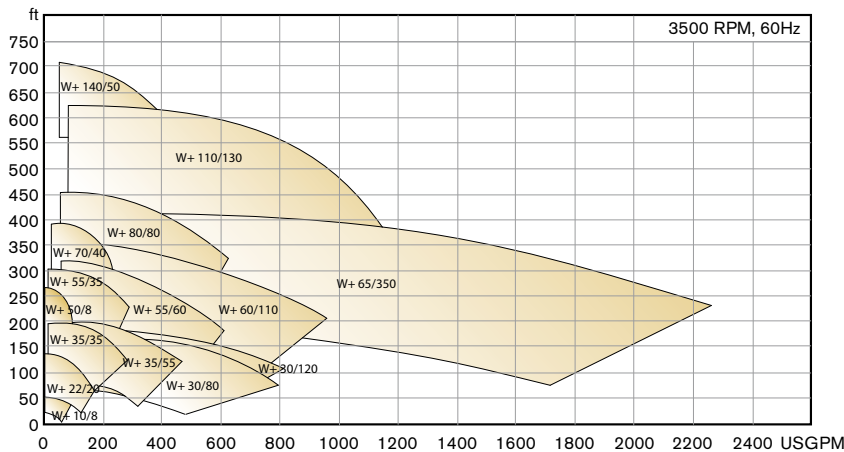
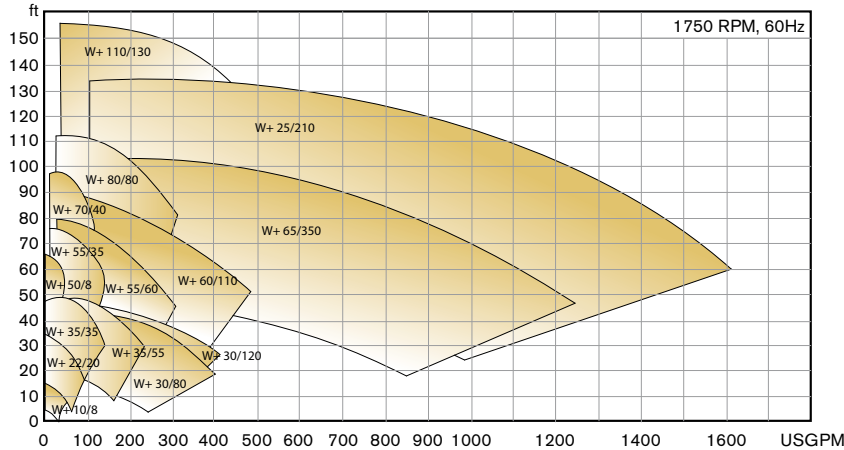
*Durable solution for most applications. (Silicon Carbide on Silicon Carbide also available).*

- **SS 316L product-wetted parts.**

*Meets all hygienic standards.*

- **3-A and EHEDG approved.**

*Verified effective CIP cleanability. Meets sanitary standards.*



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