

INDUSTRIAL PUMPS



Amarinth U Series pumps are designed for the General Industrial, Brewing, Distilling, Condensate and Effluent markets. A range of material options are available to match your application. The U Series pumps feature low NPSH designs and are fully interchangeable with the Girdlestone URF and USM ranges.

General description

A range of single stage centrifugal end suction pumps with tangential discharge manufactured in a variety of alloys. All pumps and individual components are fully interchangeable with the equivalent Girdlestone URF / USM series units.

Construction

Front pullout design with machined abutments

Design methodology

Advanced computer techniques including 3D modelling & FEA

Design standards

ATEX EC-Directive 94/9/EC

Design pressure rating

10 bar g @ 20°C

Suction pressure rating

6 bar g (long coupled)
3.5 bar g (close coupled)

Temperature rating

-10°C to 200°C (long coupled)
-5°C to 120°C (close coupled)

Performance envelope

Flowrate

Up to 500m³/h

Differential head

Up to 165m

Speed

Up to 3600 rpm

Configurations

Long coupled pump
Close coupled pump
Bareshaft pump

Frame sizes

050x040x159 to 150x125x274

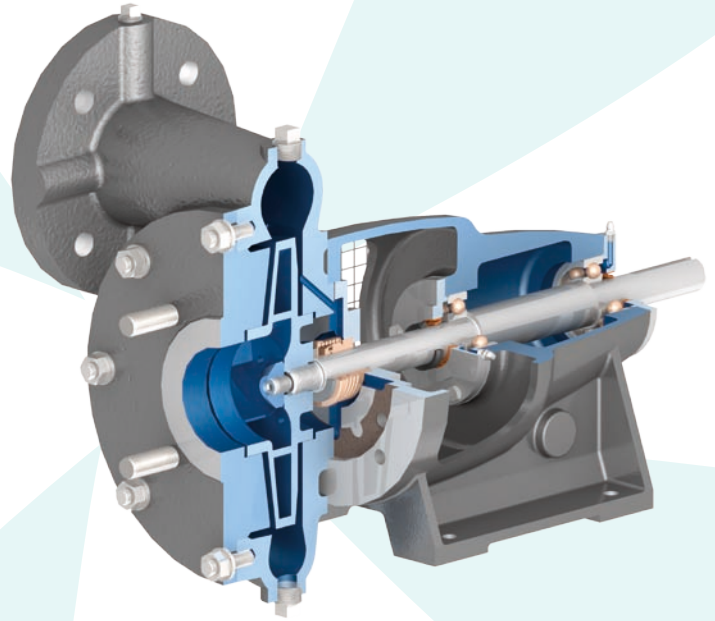
Design life

15 years (2 years uninterrupted operation)

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key features

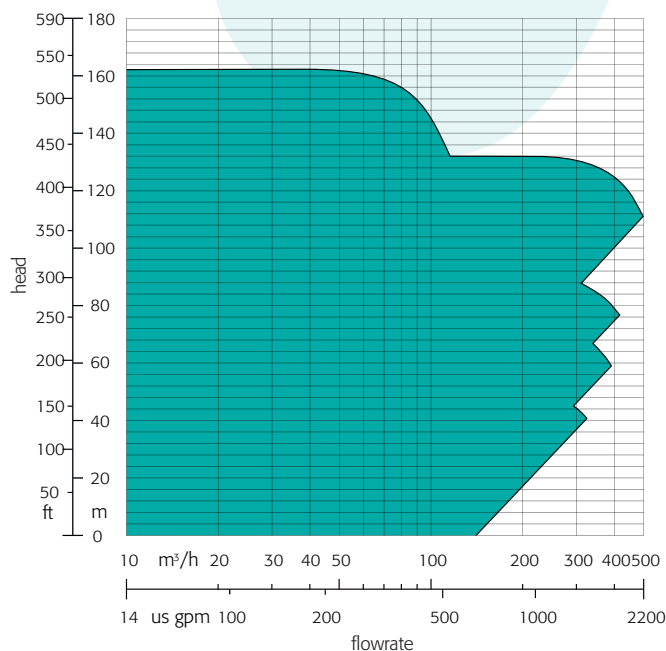
- Cast iron, Stainless steel & Gunmetal material combinations
- All internal components interchange directly with Girdlestone URF & USM series pumps
- Long & close coupled models
- Major spare parts available off the shelf
- -10°C to 200°C temperature applications
- Single stage end suction centrifugal pumps with tangential discharge
- Robust design with machined abutments
- 2 years uninterrupted operation
- 6 bar pressure rating
- Semi open or shrouded impellers
- Tested to BSEN25199 / ISO5199 – Head, Flow, NPSH, Noise & Vibration
- Standard and bespoke baseplate designs available



materials

Materials	Casing	Impeller
Cast Iron / Cast Iron	BS EN 1561 Gr EN-GJL- 250	BS EN 1561 Gr EN-GJL- 250
Cast Iron / Gunmetal	BS EN 1561 Gr EN-GJL- 250	BS EN 1982 CC492K - GS
Cast Iron / SS 316	BS EN 1561 Gr EN-GJL- 250	ASTM A744 CF-8M
SS 316 / SS 316	BS 3100 316 C12	ASTM A744 CF-8M
Gunmetal / Gunmetal	BS 1400 LG2	BS EN 1982 CC492K - GS

U Series hydraulic coverage



typical applications

- Brewery processing
- Caustic transfer
- Condensate recovery
- Evaporator operation
- Low NPSH capabilities
- Seawater duties
- Water



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