
End Suction Centrifugal Pump

Model GSU



Technical Specification

Specification

Main Applications**BUILDING**

- **Air conditioning-District heating & cooling**

General water supply

Brine (antifreeze liquid)

Hot water circulation

High boost pressure

WATER SUPPLY

- **Water supply duties for municipalities**

- **Irrigation**

- **Drainage clean water**

- **Fire protection**

- **Swimming pool**

GENERAL INDUSTRY

- **Semiconductor Industry**

Pure water

- **Food industry**

General water (Cooling water, Recycling water, Filtered water)

CIP (Cleaning in Place) , below 50°C and below conc. of 20%

- **Pulp and Paper Industry**

White water (below pulp conc. of 0.3%)

- **Automobile industry**

Water (without slurry)

Detergent (without slurry)

- **Steel industry - Non-ferrous metals industry**

Coolant

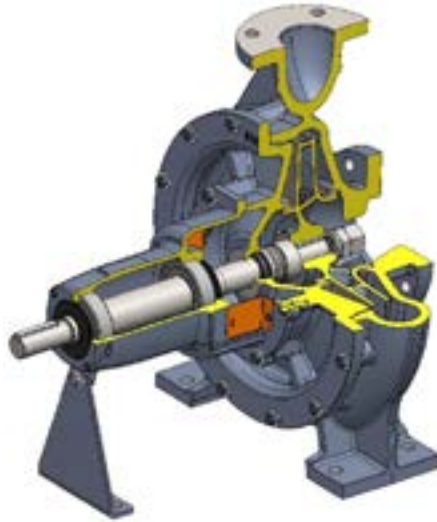
Cooling Water

- **Garbage incineration**

Cooling Water

Deaerater

Condensate water

Specification**Product Features****Energy-saving Design**

- World top class pump efficiency achieved.
- Major improvement over our previous models by impeller designed using our proprietary 3D inverse design technology.
- Higher efficiency means lower energy consumption and motor output, and more compact size.

Simple Maintenance

- Back pull-out structure enables disassembly and inspection without removal of suction and discharge piping.
- Shield bearings eliminate need for adding or exchanging lubricating oil.
- Shaft seal flushing and quenching piping not required for the standard application.
- Air-bleeding not required.
- Simplified bearings and shaft seal enable easy assembly.

Pump Specifications

- Maximum operating pressure: 200 psi.
- Liquid temperature range expansion: 14°F to 212°F.
- ANSI B16.1 125lb flanges.
- Cast iron pump.

International Standards

- Pump dimensions adopt EN733.
- Mechanical seal adopts EN12756.

Specification

General Description

Capacities	To 2,600 GPM (60Hz)
Heads	To 480 ft (60Hz)
Liquid Temperatures	14°F to 212°F
MAX. Working Pressure	Up to 200 psi (ANSI B16.1 125lb)
Materials	Casing: Cast Iron Impeller: Cast Iron See other materials in the document “Parts Reference ”
Standards	EN733
Rotation	Clockwise viewed from coupling end

	Standard*		Optional**
Frequency	60Hz		50Hz
Operational Speed	2-Pole	4-Pole	6-Pole
Phase	3-Phase		1-Phase
Voltage	230/460V		575V, 190/380V
Enclosure	TEFC		ODP, Washdown, Explosion Proof, Other
Standards	NEMA T/TS		

* Standard accessories: base, coupling and coupling guard

** Optional items: consult factory for pricing and part number changes



Specification

Design Details

FEATURES

- Horizontal foot mounting
- Back pull-out design
- Single-stage
- Radially split volute casing

APPLICABLE FLANGE STANDARD

- ANSI B16.1 CLASS 125LB

IMPELLER TYPE

- Closed, single suction type and balancing holes to reduce axial thrust

SHAFT SEAL

- Single mechanical seal (conical type)

BEARINGS AND LUBRICATION

- Shield ball bearing (Grease lubrication)

PAINTING

1. Outer Surface

- Standard up to 284°F

Primer coating	Nitrocelulose based painting
Final coating	Nitrocelulose based painting
Finish color	Munsell 2.5PB4/2 (Blue)

2. Inner Surface (casing)

- Standard up to 284°F

Primer coating	Epoxy based painting
Finish color	White



Specification

Designation

GSU 4 - 32 - 125 10 T 3 G

Model

GSU - Cast Iron End Suction pump

Series

- 2 - 2-pole (3500rpm)
- 4 - 4-pole (1750rpm)

Discharge

- 32 - 1-1/4" 80 - 3"
- 40 - 1-1/2" 100 - 4"
- 50 - 2" 125 - 5"
- 65 - 2-1/2" 150 - 6"

Nominal Impeller Diameter(mm)*

- 125 250 500
- 160 315
- 200 400

* L - Indicates different bearing frame size to similar model
 .1 - Indicates different casing and impeller design to similar model

Motor Horsepower

5 - 1/2hp	20 - 2hp	100 - 10hp	300 - 30hp	750 - 75hp	2000 - 200hp
7 - 3/4hp	30 - 3hp	150 - 15hp	400 - 40hp	1000 - 100hp	2500 - 250hp
10 - 1hp	50 - 5hp	200 - 20hp	500 - 50hp	1250 - 125hp	3000 - 300hp
15 - 1.5hp	75 - 7.5hp	250 - 25hp	600 - 60hp	1500 - 150hp	3500 - 350hp

Motor Enclosure

- T - TEFC
- O - Open Drip Proof (Opt.)
- W - Washdown (Opt.)
- X - Explosion Proof (Opt.)

Power Phase

- 3 - Three Phase
- 1 - Single Phase (Opt.)

Seal Designator

- G - Carbon/Ceramic/NBR - 304SS

Note: Remove Motor Horsepower, Motor Enclosure, & Power Phase designators for Bare Shaft Pump Part Number.
 ex. GSU4-32-12510T3G → GSU4-32-125G



Specification

Applicable Model

Model	Shaft No.	60Hz		Remarks
		3500 rpm (2Pole)	1750 rpm (4pole)	
GSU 32-125.1	230	●	●	different hydraulic design each other
GSU 32-125	230	●	—	
GSU 32-160.1	230	●	●	different hydraulic design each other
GSU 32-160	230	●	●	
GSU 32-200	230	●	●	
GSU 32-250	230	●	●	
GSU 40-125	230	●	●	
GSU 40-160	230	●	●	
GSU 40-200	230	●	●	
GSU 40-250	230	●	●	
GSU 40-315	240	—	●	
GSU 50-200	230	●	●	
GSU 50-250	230	●	●	
GSU 50-315	240	—	●	
GSU 65-125	230	●	●	
GSU 65-250	240	●	●	
GSU 65-315	240	—	●	
GSU 80-200	240	●	●	
GSU 80-315	240	—	●	
GSU 80-400	250	—	●	
GSU 100-160	240	●	●	
GSU 100-200	240	●	●	
GSU 100-250	240	—	●	
GSU 100-315	240	—	●	
GSU 100-400	250	—	●	
GSU 125-200	240	●	●	
GSU 125-315	250	—	●	
GSU 125-400	250	—	●	

