



AN ISO 9001:2015, 14001:2015, 45001:2018 & NSIC Certified Company

*Performing Better In
Pumping Solution*



UNICONTM
P U M P S

- FREE FROM CASTING DEFECTS
- HIGHER EFFICIENCY
- BETTER SURFACE FINISH
- FASTER DELIVERIES

Expertise In Following Industries :

- ▶ PAPER
- ▶ TEXTILE
- ▶ REFINERIES
- ▶ PETROCHEMICALS
- ▶ CHEMICALS
- ▶ FOOD & PHARMA
- ▶ OIL & GAS
- ▶ FERTILIZERS
- ▶ POWER PLANT



Vision

- Commitment
- Creativity
- Character
- Confidence
- Competence

COMPANY INTRODUCTION

UNICON PUMPS

Mission Statement

"Go Global"

Philosophy

Do things right at first time to lower cost of production and delivery time

Moto

To give our customer such exceptional services that they will never consider alternative source of supply.

ABOUT US

UNICON Pumps is AN ISO 9001:2015, 14001:2015, 45001:2018 & NSIC Certified Company. UNICON Pumps designs and manufactures pumps used for the industrial segments - Oil & Gas, Chemical Process Industries, Pharmaceutical Industries, Pulp & Paper Industries, Power Plant, Water Treatment Plant, Refineries, Mining and many more industrial applications. We offer a wide range of Centrifugal Pumps according to DIN 24255,24256/ EN 733/ ISO 2858 Standards.

Today, it provides the most complete selection of centrifugal Pumps and support systems for the Engineers. UNICON Pumps is globally recognized as a trusted brand in the process industry.

UNICON Pump can help relieve stress and reduce the life cycle costs associated with the most important aspects of plant operation. Dedicated to delivering the highest quality support, UNICON Pumps services and solutions integrates hydraulic, mechanical and materials engineering knowledge with creative solutions. It improves equipment reliability and system performance, reduces energy consumption and improves the safety and environmental impact of operations.

UNICON Pumps has a longstanding tradition of providing services that are trusted by the industry. UNICON Pumps represent a collection of trusted products that are supported by strong aftermarket services, providing users with both safety and environmental benefits.

UNICON Pumps products guarantee highest quality standards & application know-how with full service to its customers

MANUFACTURING FACILITY

Our manufacturing unit is located at Sidhpur (North Gujarat). Company plant is set up with latest Sophisticated and Ultra-modern infrastructure and machineries like testing equipments, instruments & facilities to maintain quality assurance to a high degree of accuracy required in process. Company is having more than 15 years of experience and their skill in manufacturing of chemical process pump else integral chemical process pump make them highly qualified to produce quality. In fact, we have added a new streamlined of qualified people to our production department & management.

QUALITY ASSURANCE

Quality is the most enduring impression of any product, on any users mind. Our Quality policy and standards are built on this simple home truth. We believe that quality is a result of sound process and procedures.

UNICON Pumps has the resources, experience, skills to supply engineered Pumping systems the world over. UNICON PUMPS, we have a team of experienced engineers who are equipped with precision instruments, gauges and testing facilities ensuring strict quality surveillance and control, right from the stage of raw material procurement to semi-finished parts, finished components, assembly, final test and dispatch.

Simulation tests of pumps combinations is an ongoing process, on our test rigs, helping us to arrive at perfect selection of pumps for specific operating limits and duties.

SALES SERVICES

Customers Can Rely On Unicon Pumps For Their Complete Pumping Systems. Our Well Trained and Experienced Sales & Engineering Team Can Assist You In The Selection, Design And Production, Installation And Commissioning Of Centrifugal Pump. The Direct Benefit To Our Customers Is A One Stop Pumping Solution With Reduced Procurement Time.

AFTER SALES SERVICES

After Sales Service Is One Of The Main Objectives Of Unicon Pumps To Keep The Customers Happy. Strategically Located Service Station Can Easily Cater Your Service Needs. Please Call Our Division For Further Assistance.

Why Us ?

The major factors that have played a vital role and contributed towards our success being our forte are as follows:

- Use of Advance Technology
- Qualified Professionals and Skilled Personnel
- Superior Quality Products
- International Quality Standards
- Positive Attitude
- Competitive Pricing
- Excellent Performance of Products
- Customer Satisfaction
- On-Time Delivery



APPLICATIONS:

The various application included are transfer and circulation for cold and hot water system, marine installation, fire fighting application, irrigation, agriculture, etc.

TECHNICAL DATA :

Max. Capacity : 400 M³ /hr. Max.

Head : 100 Mtr.

Pressure : Up to 16 Bar

Temperature : 200 Deg. C

Material : CAST STEEL, CAST IRON, STAINLESS STEEL, BRONZE & GUN METAL

Impeller : Closed / Semi Open

Flanges : As per ISO 7005 & ANSI-B-16.5 PN16

DESIGN :

The Centrifugal Pump Type "SN" is an end suction pump, Horizontal back pull out designed pump with accordance to DIN-24255 / EN 733

SEALING ARRANGEMENT :

Soft gland packing arrangement with provision for flushing and sealing liquid connection. Also available with jacketed stuffing box for high temperature Mechanical seal internal / external arrangement with provision for API sealing plans.

KEY FEATURES :

- Only 5 Shaft Groups for the whole range allows for a great interchangeability of parts
- Suitable for a wide range of duties
- Mechanical seals according to the EN 12756 (DIN 24960)
- Available in Gland Packing & Mechanical Sealing Options.
- Single & Double Cartridge Seal Options
- Oil or Grease Lubrication for Ball Bearings
- Back Pull-Out Design for easy maintenance saving a lot of time
- Parts are always available for immediate servicing and lowest downtime of your plant
- Easy maintenance design



APPLICATIONS:

The chemical process pump "SSR" is widely used for chemical, petrochemical industries, etc. Media which can be easily pumped are acids, caustic, ammonia, phosphate, dyes, oils, solvents, alcohol, aromatics, etc. Also suitable for Textile, Food, Paper & Pulp, Pharmaceuticals, etc.

TECHNICAL DATA :

Max. Capacity	: 400 M ³ /hr. Max.
Head	: 100 Mtr.
Pressure	: Up to 16 Bar
Temperature	: 200 Deg. C
Material	: CAST STEEL, SS-304, S.S.316, ALLOY-20, HASTELLOY-C&B
Impeller	: Closed / Semi Open
Flanges	: As per ISO 7005 & ANSI-B-16.5 PN16

DESIGN :

The Chemical Process Pump Type "SSR" is an end suction pump, Horizontal back pull out. Designed Pump with Accordance to DIN-24256 / ISO-2858

SEALING ARRANGEMENT :

Soft gland packing arrangement with provision for flushing and sealing liquid connection. Also available with jacketed stuffing box for high temperature. Mechanical seal internal / external arrangement with provision for API sealing plans.

KEY FEATURES :

- Only 5 Shaft Groups for the whole range allows for a great interchangeability of parts
- Suitable for a wide range of duties
- Mechanical seals according to the EN 12756 (DIN 24960)
- Available in Gland Packing & Mechanical Sealing Options.
- Single & Double Cartridge Seal Options
- Oil or Grease Lubrication for Ball Bearings
- Back Pull-Out Design for easy maintenance saving a lot of time
- Parts are always available for immediate servicing and lowest downtime of your plant
- easy maintenance design



CLOUSE COUPLED CENTRIFUGAL MONOBLOCK PUMP "SB" SERIES



APPLICATIONS:

The various application included are transfer and circulation for cold and hot water system, marine installation, fire fighting application, etc.

TECHNICAL DATA :

Max. Capacity	: 200 M ³ /hr. Max.
Head	: 80 Mtr.
Pressure	: Up to 16 Bar
Temperature	: 180 Deg. C
Material	: CAST STEEL, CAST IRON, STAINLESS STEEL, BRONZE & GUN METAL
Impeller	: Closed / Semi Open
Flanges	: As per ISO 7005 & ANSI-B-16.5 PN16

DESIGN :

The Centrifugal Pump Type "SN " is an end suction pump, Horizontal back pull out designed pump with accordance to DIN-24255 / EN 733

SEALING ARRANGEMENT :

Mechanical seal internal arrangement .



CLOSE COUPLED CENTRIFUGAL MONOBLOCK PUMP "SBR" SERIES



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APPLICATIONS:

The chemical process pump "SBR" is widely used for Chemical, Petrochemical industries, etc. Media which can be easily pumped are acids, caustic, ammonia, phosphate, dyes, oils, solvents, alcohol, aromatics etc. Also suitable for Textile, Food, Paper & Pulp, Pharmaceuticals, etc.

TECHNICAL DATA :

Max. Capacity	: 300 M ³ /hr. Max.
Head	: 100 Mtr.
Pressure	: Up to 16 Bar
Temperature	: 180 Deg. C
Material	: SS-304, S.S.316, ALLOY-20, HASTELLOY-C&B
Impeller	: Closed / Semi Open
Flanges	: As per ISO 7005 & ANSI-B-16.5 PN16

DESIGN :

The Chemical Process Pump Type "SBR " is an end suction pump, Horizontal back pull out Designed Pump with Accordance to DIN-24256 / ISO-2858

SEALING ARRANGEMENT :

Mechanical seal internal arrangement .



POLYPROPYLENE CENTRIFUGAL PUMP "JAPP" SERIES



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APPLICATIONS:

Electro plating, Pickling & Steel rolling mills, Water treatment plant, Effluent treatment plant. Excellent for transfer & loading-unloading like HCL, Sulphuric Acid, Alkali, Caustic liquid. Scrubbing of corrosive gases like NH₃, CO₂, SO₃, SO₂, I₂, F₂, Br₂, For handling liquids in various industries like Textile, Paper, Cellulose, Sugar, Steel, Food, Having temperature range, Materials, etc... Ideal for circulation of chemical in Metal finishing industry. Natural choice for Pickling line & Scrubber in steel plants. Filter press for Dyes & Chemicals, Descaling, Oil & other Fuels.

TECHNICAL DATA :

Max. Capacity :	400 M ³ /hr. Max.
Head :	150 Mtr.
Pressure :	Up to 16 Bar
Temperature :	200 Deg. C
Material :	Polypropylene, PPCP, UHMWPE
Impeller :	Closed / Semi Open
Flanges :	As per ISO 7005 & ANSI-B-16.5 PN16

DESIGN :

The Chemical Process Pump Type "CPC" "CPC=A" is an end suction pump, Horizontal back pull out Designed Pump with Accordance to DIN-24256 / ISO-2858

SEALING ARRANGEMENT :

Soft gland packing arrangement with provision for flushing and sealing liquid connection. Also available with jacketed st. box for high temp. Mechanical seal internal/external arrangement with provision for API sealing plans. As we are Constantly endeavouring to improve the performance of our products / equipments, We therefore reserve to modify pumps shown in this brochure without notice.



SELF-PRIMING NON CLOG (MUD) PUMP (MECHANICAL SEAL FITTED) TYPE "UKGN"



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SYSTEM CHARACTERISTICS

The UKGN is a self-priming centrifugal pump with radial (semi-open or closed) impeller, overhung mounted on a bearing pedestal. If a spacer type coupling is used, the pump can easily be dismantled without it being necessary to disturb the pipings or to move the motor.

APPLICATIONS:

Effluent treatment, sewage plants, Dyes and intermediate Industries. Dewatering Docks, Ports, Vessels, Swamps, Basement, trenches, construction sites, Swimming pools etc. Pumping Petroleum products like L.D.O, Diesel, petrol, kerosene etc. Transfer to chemicals, solvents, hot water, chilled water etc

PUMP SPECIFICS :

- Self-priming
- Suitable for a wide range of duties
- Non-return valve mounted
- Oil bath for the mechanical seal (preventing seal from running dry)
- Dust tight, grease lubricated bearings

TECHNICAL DATA :

Maximum Capacity	: 80 M ³ /h (50Hz)
	: 100 M ³ /h (60Hz)
Maximum delivery head	: 60m (50Hz)
	: 53m (60Hz)
Maximum Liquid temperature	: 95°C
Maximum operating pressure	: 8 bar (800 kPa)
Maximum speed	: 2950rpm
Solids	: UP to 24MM Dia



MATERIAL OF CONSTRUCTION :

Impeller	: Cast Iron / SS-316
	SS-304 / Bronze or as per req
Pump Casing	: Cast Iron / SS-316, SS-304
	Bronze or as per req
Shaft	: EN-8 / SS-316, SS-304
	Bronze or as per req
Mechanical Seal	: Car Vs Ceramic / Tc Vc Tc
	with NBR / Viton / PTFE

VALUABLE CLIENTS



CALCULATION AND CONVERSION CHART



CONVERSIONS

To convert to liters/sec.

IGPM	x 0.0757
m3/hr	x 0.278
m3/min	x 16.68 ÷ S.G.
metric tonnes / hr	x 0.278 ÷ S.G.
Liters/min	x 0.0167
Kilograms / hr	x 0.000278
USGPM	x 0.063 ÷ S.G.
Cubic feet / sec	x 28.3
Cubic feet / min	x 0.47
British tons / hr	x 0.282
British barrels / hr	x 0.453

To convert to m3 / hr

IGPM	x 0.273
Liters / sec	x 3.60
Liters / min	x 0.06
Metric tones / hr	x 1 ÷ S.G.
m3/min	x 60
Kilograms / hr	x 0.001 ÷ S.G.
Kilograms / sec	x 3.6 ÷ S.G.
USGPM	x 0.227
Cubic feet / sec	x 102.0
Cubic feet / min	x 1.7
British tons / hr	x 1.015 ÷ S.G.
British barrels / hr	x 0.163

PUMPING HEAD CONVERSIONS

To convert to meters

Feet	x 0.305
Kg / cm2	x 10 ÷ S.G.
PSI	x 0.704 ÷ S.G.
Inches Hg	x 0.345 ÷ S.G.
cm Hg	x 0.1362 ÷ S.G.
Atmospheres	x 10.35 ÷ S.G.
KN /m2 (Kpa)	x 0.102 ÷ S.G.
Bar	x 10.2 ÷ S.G.

Power Conversions

To convert to kilowatts

Horse power	x 0.746
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To convert to HP

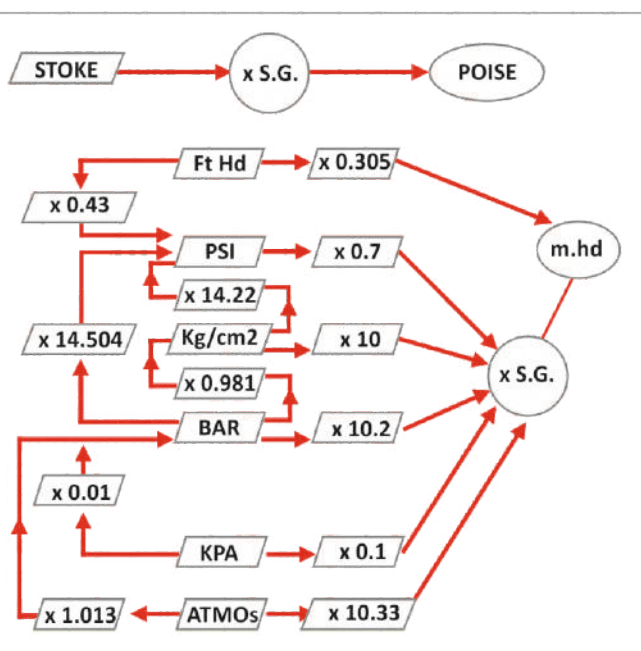
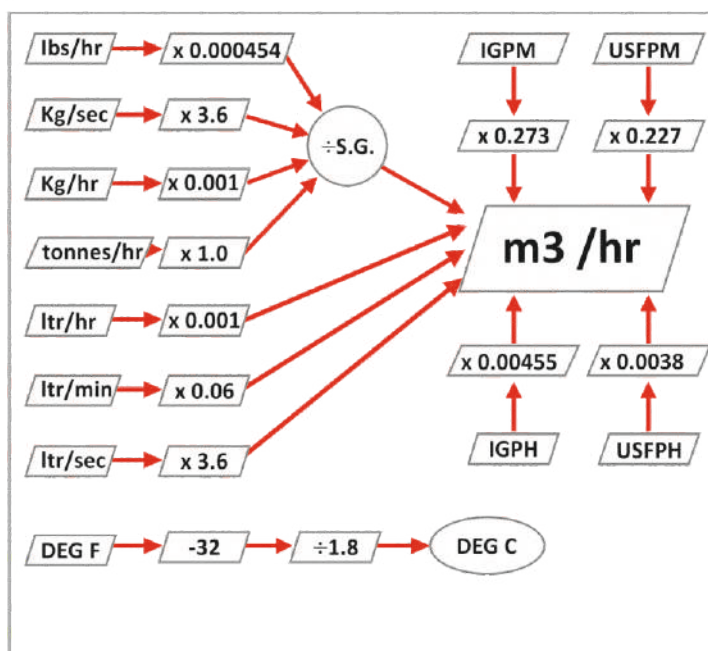
Kilowatts	x 1.341
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KW =

$$\frac{\text{m3/hr} \times \text{Total head in meters} \times \text{S.G.}}{367.87 \times \text{Pump Efficiency}}$$

BHP =

$$\frac{\text{IMP.GPM} \times \text{Total head in ft} \times \text{S.G.} \times 10}{33,000 \times \text{Pump Efficiency}}$$





UNICON PUMPS™

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DISTRIBUTOR

