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شرکت ایمن داتیس آسیا



دانلود آخرین کاتالوگ

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ساعت ۹ الی ۱۷ (روزهای کاری)



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شرکت ایمن داتیس آسیا با اتکا بر دانش روز، فعالیت مستمر و با همکاری نیروهای فوق تخصص، هم اینک در زمره شرکت های برتر بخش خصوصی در زمینه صنعت ایمنی و آتش نشانی شناخته می شود. این مجموعه همواره در تلاش است که به صورت مستمر و پویا در گسترش زیرساخت های ایمنی و آتش نشانی کشور عزیزمان ایران ایفای نقش نموده و در راستای تحقق اهدافی همچون توسعه و صنعتی سازی فناوری های نوین گام هایی بزرگ بردارد.

مدیران و کارشناسان این شرکت با تکیه بر تجربیات، توانمندی ها و فن آوری های روز دنیا که از طریق شرکت در دوره های آموزشی مختلف داخلی و خارجی همچون NFPA و حضور و فعالیت در نمایشگاه های تخصصی داخل و خارج از کشور به دست آمده است، نسبت به ارائه راهکارهای جامع ایمنی، طراحی، مشاوره، تامین تجهیزات، اجرا و نصب سیستم ها، ارزیابی ریسک ایمنی و حریق و نظارت بر پروژه های متنوع اعلام و اطفاء حریق و تاسیسات اقدام می نمایند.

همچنین در همین راستا شرکت ایمن داتیس با اعتقاد راسخ به سیستم های مدیریتی یکپارچه مفتخر به اخذ گواهینامه IMS شده است که شامل استانداردهای ISO9001 و ISO14001 و ISO45001 می باشد و گواهینامه مدیریت پروژه PMP نیز تکمیل کننده عملکرد این شرکت است. دارا بودن گواهینامه سیستم مدیریت بهداشت، ایمنی و محیط زیست HSE MS نیز یکی دیگر از افتخارات این شرکت می باشد. همچنین شرکت دارای تائیدیه رسمی سازمان آتش نشانی می باشد.

شایان ذکر است دپارتمان بازرگانی شرکت ایمن داتیس آسیا با ایجاد ارتباط سازنده با تولیدکنندگان داخلی و خارجی در کمترین زمان ممکن نسبت به تامین و تهیه تجهیزات با تائیدیه های بین المللی نظیر NFPA, UL, FM, VDS, BS/EN برای تمامی پروژه ها اقدام می نماید، که در همین راستا شرکت ایمن داتیس دارای نمایندگی فروش و یا انحصاری فروش و خدمات پس از فروش چندین برند معتبر اروپایی، اماراتی و هندی در کشور عزیزمان است که همین مهم موجبات اطمینان خاطر خریداران این تجهیزات را در جهت خدمات پس از فروش برتر فراهم می آورد.



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برندهایی که ایمن داتیس آسیا با آنها همکاری دارد:

Water supply pump LUBI - India

Fire pump LUBI -- UL/FM - India

Fire valve GULFLOW -- UL/FM - UAE

Fire alarm GULF ALARM -- LPCB - UK

FM200 system AIR FIRE -- UL/FM - Spain

Emergency light GULF LIGHT -- UL/FM - UAE

Pump control panel TORNATECH -- UL/FM - Canada

از دیگر خدماتی که شرکت ما مفتخر به انجام آن می باشد می توان از موارد زیر نام برد:

طراحی و فروش و ارائه خدمات پس از فروش جهت فرودگاه ها و آشیانه های هواپیما طبق الزامات NFPA409

فروش و ساخت انواع پمپ و بوستر پمپ های آتش نشانی جهت پروژه های مسکونی، اداری و تجاری

فروش و ساخت انواع پمپ و بوستر پمپ های آتش نشانی جهت پروژه های صنعتی و صنایع هایتک

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فروش و ساخت انواع پمپ و بوستر پمپ آبرسانی جهت پروژه های صنعتی و صنایع هایتک

طراحی و فروش و ارائه خدمات پس از فروش سکوی های نفتی و سکوی های گازی و ترکیبی

طراحی و فروش و ارائه خدمات پس از فروش صنایع پتروشیمی، پالایشی و پالایشگاهی

فروش و نصب و راه اندازی سیستم های اعلام حریق عمومی و اختصاصی تمامی فرآیندهای طراحی و ساخت و تست بوستر پمپ ها در این شرکت در حال انجام و به روز رسانی می باشد و تمامی پمپ های به کار رفته دارای تائیده های لازم داخلی یا بین المللی می باشد؛ همچنین تمامی خدمات فروش، خدمات پس از فروش و تامین قطعات و لوازم یدکی این برندها (حتی با وجود تحریم ها) توسط شرکت ایمن داتیس در حال انجام می باشد.



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شرکت ما مفتخر است که مشاوره و طراحی در زمینه سیستم‌های اعلام حریق اتوماتیک، پوشش‌های مقاوم در برابر حریق را به طیف گسترده‌ای از صنایع و ساختمان‌ها ارائه می‌نماید که در تهران به دلیل نیاز به تایید نقشه‌های مربوطه توسط سازمان خدمات ایمنی و آتش‌نشانی شهرداری تهران این شرکت تائیدیه‌های لازم را به عنوان نماینده کارفرما از سازمان آتش‌نشانی دریافت می‌نماید، در برخی صنایع نیز این تائیدیه از آتش‌نشانی مستقر در شهرک صنعتی و یا آن شهرستان دریافت می‌شود، که فرآیند دریافت این تائیدیه‌ها تماماً توسط شرکت (ایمن داتیس آسیا) انجام می‌پذیرد.

در راستای تامین تجهیزات متنوع برای مالکین کلیه پروژه‌ها و همچنین همکاران محترم، شرکت ایمن داتیس افتخار دارد که نمایندگی توزیع چندین برند مختلف داخلی و خارجی را دارا می‌باشد و در سایر موارد نیز اجناس مورد نظر را به صورت دست اول و بدون واسطه در اختیار کارفرمایان گرامی قرار می‌دهد.

از دیگر بخش‌های این شرکت بخش اجرا و نصب سیستم‌ها می‌باشد، که پیش‌نیاز آن طراحی، مشاوره و تامین تجهیزات می‌باشد که پس از اتمام طراحی، پیمانکار اجرا و نصب می‌بایست طبق نقشه‌ها و دیتیل اجرایی ارائه شده توسط شرکت مشاور و طراح نسبت به اجرای زیر ساخت، نصب تجهیزات و نهایتاً راه‌اندازی سیستم، اقدامات لازم را به عمل آورد. دپارتمان پروژه شرکت ایمن داتیس آسیا با توجه به تجربه و دانش سالیان متمادی در زمینه پیاده‌سازی سیستم‌های اعلام و اطفاء حریق اتوماتیک نسبت به عرضه این خدمات با کمترین زمان ممکن و بالاترین کیفیت و دستورالعمل‌های کارفرما اقدام می‌نماید.

شرکت مهندسی ایمن داتیس آسیا با بهره‌گیری از نیروهای متخصص در زمینه سیستم‌های ایمنی و آتش‌نشانی و اشراف بر الزامات، استانداردها و ضوابط مهندسی حریق نسبت به نظارت بر اجرا و خرید سیستم‌های اعلام و اطفاء حریق اتوماتیک در پروژه‌های صنعتی و ساختمانی اقدام می‌نماید.

با امید به آینده‌ای ایمن‌تر



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Vertical Multistage Centrifugal Pumps
50 Hz





Product data

Vertical Multistage Centrifugal Pumps

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LCRH HIGH-PRESSURE VERTICAL MULTISTAGE CENTRIFUGAL PUMPS



INTRODUCTION

The Lubi LCRNHS, LCRH and LCRNH series pumps are high-pressure, non-self-priming, vertical multistage centrifugal pumps with axial suction and discharge ports.

The high-pressure is achieved in two ways:

1.) SINGLE PUMP SYSTEM:

In this system a standard vertical multistage centrifugal pump is fitted with a high-speed Lubi motor with integrated frequency converter.

- Type LCRNHS
- Available models: LCRNHS 1 & LCRNHS 3

2.) TWO PUMP SYSTEM (FEED PUMP + HIGH-PRESSURE PUMP):

The pump consist of 2 pumps and they are installed in series. The first pump is a Feed pump which is standard vertical multistage centrifugal pumps i.e. LCR, LCRN. The second pump is a High-pressure pump i.e. LCRH, LCRNH especially designed for high pressure. A feed pump is connected with a high-pressure pump in series and thus high-pressure is achieved.

- Type LCRH and LCRNH
- Available models: LCRNH 3 to LCRNH 150
LCRH 32 to LCRH 150

The high-pressure pump comes in two designs depending on pump size.

- LCRNHS 1, 3 & LCRNH 2 to 20: The chamber stack is upside-down as compared to a standard LCRN pump.
- LCRH, LCRNH 32 to 150: Standard LCR, LCRN pump with or without bearing flange.

The pressure generated by the high-pressure pump makes special demands to the design. This leaflet primarily describes the following aspects where the high-pressure pump is different from the standard pump:

- design
- operating conditions
- performance curves
- dimensions.

The performance curves show the high-pressure pump connected in series with a standard pump with various numbers of stages.

DESIGN FEATURES



APPLICATIONS

These pumps are suitable for a various types of applications demanding high-pressure, reliable and cost-efficient supply.

These pumps are suitable for a wide variety of applications from pumping of potable water to the pumping of chemicals.

Typical applications are as below:

Pressure boosting

- Process water systems
- Washing and cleaning systems
- High-pressure wash down systems
- Boiler feed and condensate systems.

Water treatment

- Ultra-filtration systems
- Reverse osmosis systems.

OPERATING CONDITIONS

Flow range : 0.8 to 180 m³/h
 Max. operating pressure : 50 bar
 Ambient temperature : Max. + 40°C
 Liquid temperature range: -30°C to +120°C

MOTOR

LCRH, LCRNH pumps are fitted with a Totally Enclosed Fan Cooled, 2-pole motors with principal dimensions in accordance with the EN standards. Electrical tolerances according to EN 60034.

Motor type : TEFC 2-pole motor
 Ratings : 1 phase - 0.37 to 2.2 kW
 : 3 phase - 0.37 to 75 kW
 Rated speed : 2900 rpm
 Mounting designation: Up to 4 kW - V18 and From 5.5 kW - V1
 Enclosure class : IP 55
 Insulation class : F
 Efficiency class : EFF2
 Nominal voltage : 1 phase 220-230/240 V - 0.37 to 2.2 kW
 : 3 phase 220-240/380-415 V - 0.37 to 1.5 kW
 : 3 phase 380-415 V - 2.2 to 75 kW
 Supply frequency : 50 Hz

PUMPED LIQUIDS

Thin non-explosive liquids and not containing solid particles or fibers are suitable. The liquid must also not chemically attack the pump materials. When pumping liquids with a density and/or viscosity higher than that of water, oversized motors must be used, if required. Whether a pump is suitable for a particular liquid depends on a number of factors of which the most important are the chloride content, pH value, temperature and content of chemicals, oils etc. Please note that aggressive liquids (e.g. sea water and some acids) may attack or dissolve the protective oxide film of the stainless steel and thus cause corrosion.

The LCRH, LCRNH pump types are suitable for the following liquids.

LCRH

- Non-corrosive liquids.
- For liquid transfer, circulation and pressure boosting of cold or hot clean water.

LCRNHS, LCRNH

- Industrial liquids.
- In systems where all parts in contact with the liquid must be made of high-grade stainless steel.

OPERATING RANGE OF THE SHAFT SEAL

The operating range of the shaft seal depends on operating pressure, pump type, type of shaft seal and liquid temperature. The following temperature range apply to clean water and water with anti-freeze liquids.

SHAFT SEAL	DESCRIPTION	MAX. TEMPERATURE RANGE [°C]
HBOE	Cartridge type shaft seal, Carbon/SiC/SS 316/EPDM	0°C to +120°C
HQOE	Cartridge type shaft seal, SiC/SiC/SS 316/EPDM	-40°C to +120°C
HBOV	Cartridge type shaft seal, Carbon/SiC/SS 316/PKM	0°C to +90°C
HQOV	Cartridge type shaft seal, SiC/SiC/SS 316/PKM	-20°C to +90°C



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LCRH HIGH-PRESSURE VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

SECTIONAL DRAWING & MATERIALS

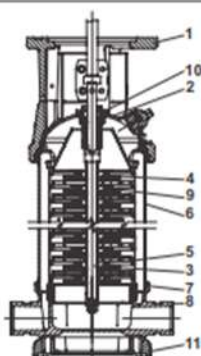


FIG. 1 LCRNHS 1 AND 3

POS.	COMPONENT	MATERIAL	LCRNHS 1 & 3	
			EN/DIN	AISI/ASTM
1	Pump head	Cast iron EN-GJL-200	EN-JL 1030	ASTM 25B
2	Pump head cover	Stainless steel	1.4408	CF 8M eq. to AISI 316
3	Shaft	Stainless steel	1.4401 1.4460	AISI 316 AISI 329
4	Impeller	Stainless steel	1.4401	AISI 316
5	Chamber	Stainless steel	1.4401	AISI 316
6	Outer sleeve	Stainless steel	1.4401	AISI 316
7	O-ring for outer sleeve	EPDM or FKM		
8	Base	Stainless steel	1.4408	CF 8M eq. to AISI 316
9	Neck ring	PTFE		
10	Shaft seal	Cartridge type		
11	Base plate	Cast iron EN-GJL-200	EN- JL1030	ASTM 25B
	Other rubber parts	EPDM or FKM		

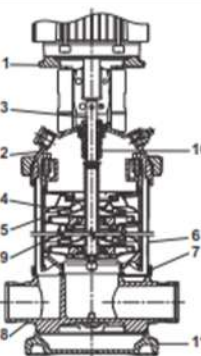


FIG. 2 LCRNH 2, 3, 5, 10, 15 AND 20

POS.	COMPONENT	MATERIAL	LCRNH 2, 3, 5, 10, 15 & 20	
			EN/DIN	AISI/ASTM
1	Pump head	Cast iron	EN-GJS-450-10	
2	Pump head cover	Stainless steel	1.4408	CF 8M eq. to AISI 316
3	Shaft	Stainless steel	1.4460	AISI 329
4	Impeller	Stainless steel	1.4401	AISI 316
5	Chamber	Stainless steel	1.4401	AISI 316
6	Outer sleeve	Stainless steel	1.4401	AISI 316
7	O-ring for outer sleeve	EPDM or FKM		
8	Base	Stainless steel	1.4408	CF 8M eq. to AISI 316
9	Neck ring	PTFE		
10	Shaft seal	Cartridge type		
11	Base plate	Cast iron EN-GJL-200	0.6020	ASTM 25B
	Other rubber parts	EPDM or FKM		

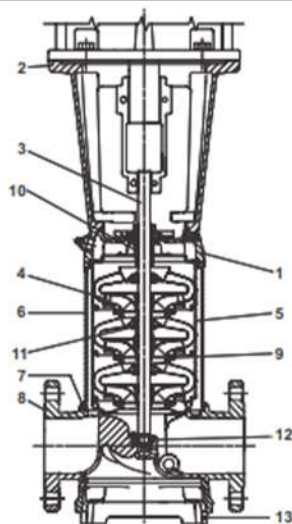


FIG. 3 LCRH, LCRNH 32, 45, 64 AND 90

POS.	COMPONENT	MATERIAL	LCRH, LCRNH 32, 45, 64 & 90	
			EN/DIN	AISI/ASTM
2	Motor stool	Cast iron EN-GJL-200	EN-JL1030	ASTM 25B
3	Shaft	Stainless steel	1.4462	
4	Impeller	Stainless steel	1.4401	AISI 316
5	Chamber	Stainless steel	1.4401	AISI 316
6	Outer sleeve	Stainless steel	1.4401	AISI 316
7	O-ring for outer sleeve	EPDM or FKM		
9	Neck ring	Carbon-graphite filled PTFE		
10	Shaft seal	Cartridge type		
11	Bearing ring	Bronze/Carbon graphite filled PTFE		
12	Bottom bearing ring	Ceramic/Tungsten Carbide		
13	Base plate	Cast iron EN-GJS-500-7 Stainless steel	EN-JS1050	ASTM 80-55-06
	Other rubber parts	EPDM or FKM		
LCR, LCRNH 32, 45, 64 & 90				
1	Pump head	Cast iron EN-GJS-500-7	EN-JS1050	
8	Base	Cast iron EN-GJS-500-7	EN-JS1050	
LCRN, LCRNH 32, 45, 64 & 90				
1	Pump head	Stainless steel	1.4408	CF 8M eq. to AISI 316
8	Base	Stainless steel	1.4408	CF 8M eq. to AISI 316



Product data

Vertical Multistage Centrifugal Pumps

LCR HIGH PRESSURE SERIES

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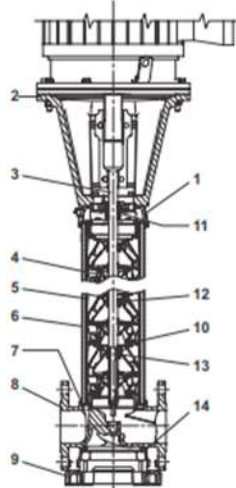
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LCRH HIGH-PRESSURE VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

SECTIONAL DRAWING & MATERIALS



POS.	COMPONENT	MATERIAL	LCRH, LCRNH 120 & 150	
			EN/DIN	AISI/ASTM
2	Motor stool (11-45 kW)	Cast iron EN-GJL-200	EN-JL1030	A48-30B
	Motor stool (55-75 kW)	Cast iron EN-GJS-500-7	EN-JS1050	A 536 65-45-12
6	Outer sleeve	Stainless steel	1.4401	AISI 316
7	O-ring for outer sleeve	EPDM or FKM		
9	Base plate	Cast iron EN-GJS-500-7	EN-JS1050	A 536 65-45-12
10	Neck ring	PTFE		
11	Shaft seal*	Cartridge type		
12	Support bearing	PTFE		
13	Bearing ring	SiC/SiC		
	Other rubber parts	EPDM or FKM		

LCR, LCRNH 120 & 150

1	Pump head	Cast iron EN-GJS-500-7	EN-JS1050	A 536 65-45-12
3	Shaft	Stainless steel	1.4057	AISI 431
4	Impeller	Stainless steel	1.4301	AISI 304
5	Chamber	Stainless steel	1.4301	AISI 304
8	Base	Cast iron EN-GJS-500-7	EN-JS1050	A 536 65-45-12

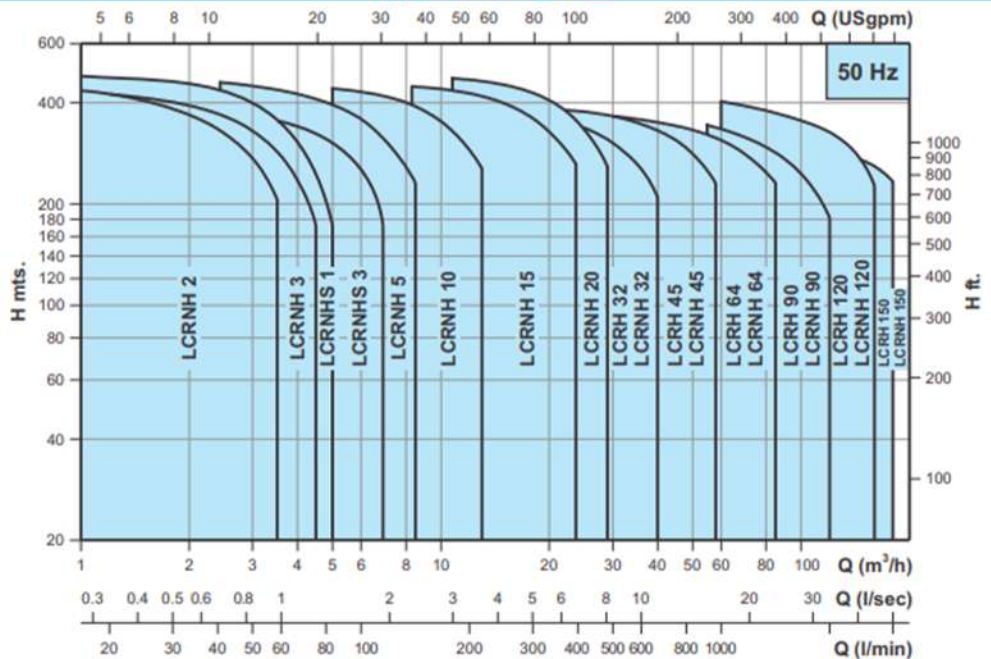
LCRN, LCRNH 120 & 150

1	Pump head	Stainless steel	1.4408	CF 8M eq. to AISI 316
3	Shaft	Stainless steel	1.4462	SAF 2205
4	Impeller	Stainless steel	1.4401	AISI 316
5	Chamber	Stainless steel	1.4401	AISI 316
8	Base	Stainless steel	1.4408	CF 8M eq. to AISI 316
14	Base plate	Cast iron EN-GJS-500-7	EN-JS1050	A 536 65-45-12

FIG. 4 LCRH, LCRNH 120 AND 150

* Ø22 mm shaft - 11 to 45 kW, Ø32 mm shaft - 55 to 75 kW

PERFORMANCE RANGE





LHC SERIES
50 HZ

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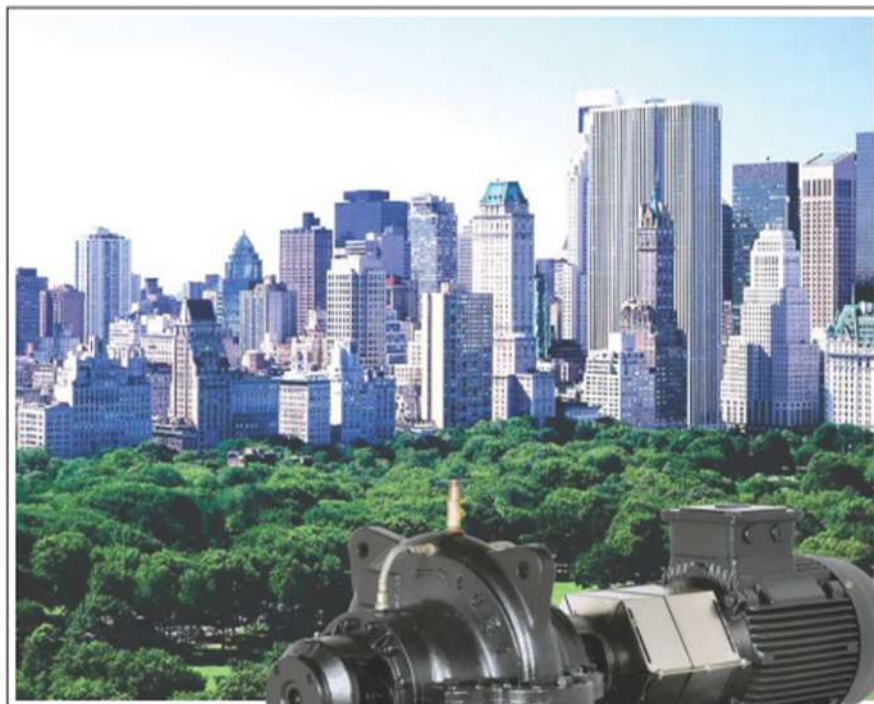


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Horizontal split case pumps
50 Hz



Pumping Solution



Product data

Horizontal Split Case Pumps

LHC SERIES 50 HZ

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LHC HORIZONTAL SPLIT CASE PUMPS



INTRODUCTION

The Lubi LHC series are horizontal split case pumps. The pumps have horizontal pump shaft and the volute casing can be dismantled in the horizontal plane along the drive shaft.

LHC pumps are available in two main designs.

- Single-stage
- Two-stage.

APPLICATIONS

- Water supply.
- Pressure boosting for high rise buildings, hotels industry etc.
- Industrial washing & cleaning systems.
- Fire protection systems.
- Cooling & Air Conditioning systems.
- Boiler feed and condensate transfer system.
- Irrigation systems for fields including sprinkler & drip irrigation systems.

FEATURES AND BENEFITS

- The pumps are non-self priming, horizontal, split case pumps with radial suction port and radial discharge port.
- Standard flanges for suction and discharge ports will be PN 16 as per DIN standard EN 1092-2 and PN 25 as per DIN standard EN 1092-2. ANSI 125 and ANSI 250 as per ASME B16.1 are available on request.
- These pumps are long coupled pumps with TEFC squirrel cage induction motor with main dimensions complying to IEC standards and mounting designation B3 (IM 1001).
- These pumps are available with gland packing as well as mechanical shaft seal.
- The pump impellers are dynamically balanced to grade 6.3 of ISO 1940.
- These pumps can be supplied as a complete unit with motor, coupling, coupling guard and fabricated steel base frame.
- These pumps are available with our standard range of EFF2 motors. They can also be supplied with EFF1 motors on request.
- The split case construction enables removal and dismantling of the internal pump parts e.g. bearings, wear rings, shaft seal and impeller without disturbing the motor & pipe work.

OPERATING CONDITIONS

Flow range : 20 to 2700 m³/h
 Head range : 4 to 160 metres
 Ambient temperature : Max. +45°C for EFF2 motors, Max. +60°C for EFF1 motors.
 Liquid temperature range: 0°C to +90°C (with Carbon/Ceramic/NBR/S.S.304 seal)
 0°C to +90°C (with SiC/SiC/Viton/S.S.316 seal)
 0°C to +140°C (with Carbon/SiC/Viton/S.S.316 seal)

MOTOR

Motor type : TEFC squirrel cage induction motor
 Ratings : 3 to 315 kW
 Rated speed : 2900, 1450, 960 rpm
 Enclosure class : IP 55
 Insulation class : F
 Nominal voltage : 3 phase 400 V
 (Tolerance +5% / -10%)
 Supply frequency : 50 Hz
 Duty / Rating : S1 / Continuous
 Direction of rotation : Clockwise as seen from the motor rear end

PUMPED LIQUIDS

LHC pumps are designed for non explosive liquids which are clean and thin without any solid particles. For aggressive liquid please ensure that material of construction is suitable for liquid to be pumped.

If liquids with a viscosity higher than that of water, are to be pumped the power consumption of the pump will increase with increase in viscosity. This will require a large motor for the pump. Head, discharge and pump efficiency will reduce with increase in viscosity.

When pumping liquids with a density higher than that of water, the power consumption of the pump will increase at a ratio corresponding to increase in density.

VOLUTE CASING

The volute casing of the pumps are designed to be robust in construction to take the undue stress offered by the pipe work. They have a radial suction port and radial discharge port. Standard flanges are PN 16 as per DIN standard EN 1092-2 and PN 25 as per DIN standard EN 1092-2. ANSI 125 and ANSI 250 as per ASME B16.1 are available on request. The volute casing are provided with a priming and drain hole closed by plugs. The single-stage pumps are of the in-line (symmetric) design, whereas the two-stage pumps have asymmetric design.

SHAFT

The shaft is available in carbon steel as well as stainless steel. A bronze or stainless steel shaft sleeve is provided in the stuffing box to protect the shaft from wear & corrosion. As shaft and bearings are strong and properly sized the pump can be driven by a belt drive or diesel engine without any problem. A water thrower is provided on the shaft to prevent liquid from entering the bearing housing and damaging the bearing. The shaft is supported by bearings at both drive end and non-drive end of the pump.

BEARINGS

The pumps are fitted with two standard single-row deep groove ball bearings. The bearings are of the open type permitting the bearings to be relubricated. The bearings are lubricated by Lubi prior to delivery.

IMPELLER

The impeller is a closed impeller with single or double curved blades and extra smooth surface finish and machined completely from outside to ensure high efficiency.

The impeller comes in two variants.

- Double-suction impeller with inflow of liquid from both sides. Double suction impellers are used in single-stage pumps only.
- Single-suction impeller with inflow of liquid from one side. Single-suction impellers are used in two-stage pumps only.

Because of hydraulic balancing the axial thrust on bearings are compensated giving a longer bearing life.

Two stage pumps have two laterally reversed single-suction impellers mounted back-to-back.

They are dynamically balanced to grade 6.3 of ISO 1940.

All impeller can be trimmed to adopt them for the duty point requested by the customer.

Suggested trimmed impeller diameter as shown on the performance curves in data booklet are theoretical. Performance may vary from what is shown on the performance curve.

WEAR RINGS

The pump have wear rings (pos.2) between impeller (pos.1) and volute casing.

The wear rings protect the volute casing against wear. Besides, the wear rings have a sealing function between impeller and volute casing.

When the wear rings worn out, the efficiency of the pump will be reduced, and wear rings should be replaced. The wear rings are made of same material as the impeller.

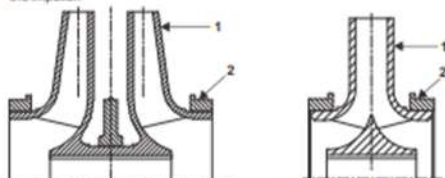


FIG. 1 SINGLE-SUCTION IMPELLER

FIG. 2 DOUBLE-SUCTION IMPELLER

COUPLING

LHC pumps are fitted with a tyre type flexible cushion coupling.

These couplings are highly flexible, resilient and absorbs large misalignment.

Due to the coupling design, the rotating assembly of LHC pumps can be removed and serviced without dismantling the motor from the base frame.

BASE FRAME

Pump and motor are mounted on a common steel base frame in the form of welded, steel c-channel profile.

MECHANICAL SHAFT SEAL

The shaft seal is an unbalanced, mechanical shaft seal.

Two types are available as standard:

- A rubber bellows type (M1) for single-stage and two-stage pumps.
- A cartridge type (M2) with O-ring for single-stage and two-stage pumps.

STUFFING BOX

Stuffing boxes are available with lantern rings & graphite gland packing rings.

TEST PRESSURE

All impellers are hydrostatic tested for leakage as per the following test pressure using water containing corrosion inhibitor at room temperature.

PRESSURE RATING	OPERATING PRESSURE	TEST PRESSURE
PN 16	16 bar	24 bar
PN 25	25 bar	37.5 bar
ANSI 125	125 psi	188 psi
ANSI 250	250 psi	375 psi

MOTORS

The motors are squirrel cage induction motors, Totally Enclosed Fan Cooled with main dimensions to IEC standards.

The standard motors with the pumps are all as per EFF2 efficiency. EFF1 efficiency motors can be available on request.

COUNTER FLANGES

Cast iron pumps (version-A,B,C,D): For threaded connection, flanges are made of cast iron. For welding connection, flanges are made of carbon steel.

A set consist of one counter flange, one gasket of rubber material and the requisite number of bolts and nuts.



Product data

Horizontal Split Case Pumps

LHC SERIES
50 HZ

IMEN
DATIS
ASIA

LHC

HORIZONTAL SPLIT CASE PUMPS



SECTIONAL DRAWING & MATERIALS

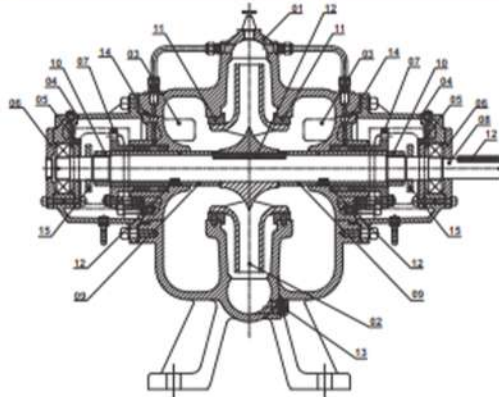


FIG. 3 SINGLE-STAGE LHC PUMP

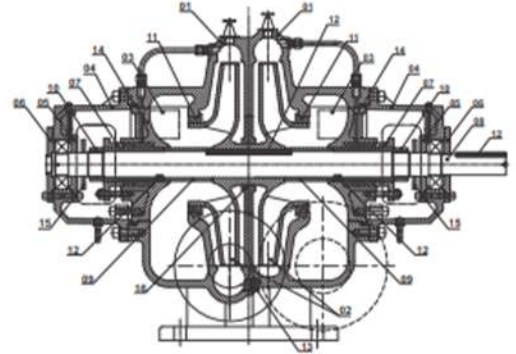


FIG. 4 TWO-STAGE LHC PUMP

POS.	COMPONENT	SINGLE-STAGE LHC PUMP				TWO-STAGE LHC PUMP			
		A-VERSION	B-VERSION	C-VERSION	D-VERSION	A-VERSION	B-VERSION	C-VERSION	D-VERSION
1	Volute casing	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron
2	Impeller	Cast iron	Bronze	CF-8	CF-8M	Cast iron	Bronze	CF-8	CF-8M
3	Back cover	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron
4	Bearing housing	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron
5	Internal bearing cover	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron
6	External bearing cover	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron
7	Gland follower	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron
8	Shaft	Carbon Steel	S.S. AISI 410	S.S. AISI 304	S.S. AISI 316	Carbon Steel	S.S. AISI 410	S.S. AISI 304	S.S. AISI 316
9	Shaft sleeve	S.S. AISI 410	S.S. AISI 410	S.S. AISI 304	S.S. AISI 316	S.S. AISI 410	S.S. AISI 410	S.S. AISI 304	S.S. AISI 316
10	Lock nut	S.S. AISI 410	S.S. AISI 410	S.S. AISI 304	S.S. AISI 316	S.S. AISI 410	S.S. AISI 410	S.S. AISI 304	S.S. AISI 316
11	Wear ring	Bronze	Bronze	CF-8	CF-8M	Bronze	Bronze	CF-8	CF-8M
12	Key	S.S. AISI 410	S.S. AISI 410	S.S. AISI 304	S.S. AISI 316	S.S. AISI 410	S.S. AISI 410	S.S. AISI 304	S.S. AISI 316
13	Plugs	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
14	O-ring	NBR	NBR	NBR	NBR	NBR	NBR	NBR	NBR
15	Water thrower	NBR	NBR	NBR	NBR	NBR	NBR	NBR	NBR
16	Centre ring	-	-	-	-	Cast iron	Cast iron	Cast iron	Cast iron

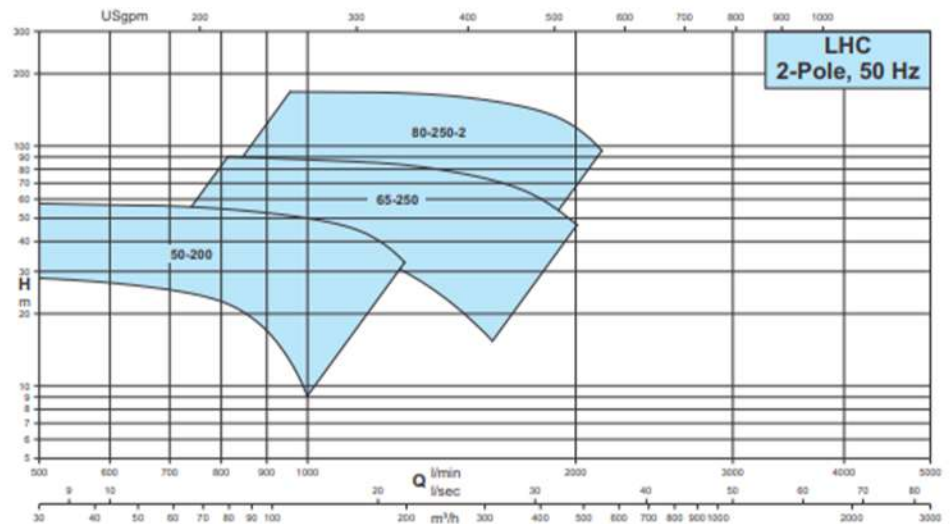


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PERFORMANCE RANGE





Product data

Horizontal Split Case Pumps

LHC SERIES
50 HZ

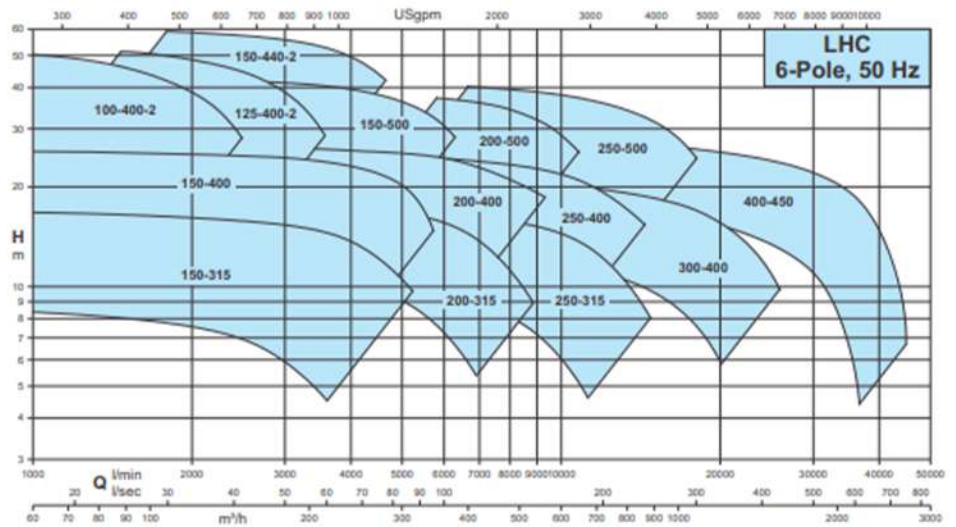
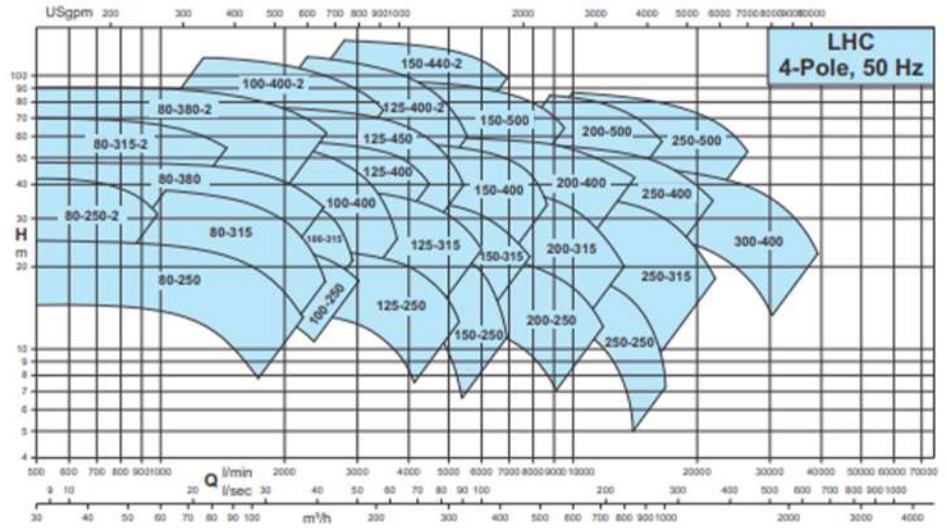
IMEN
DATIS
ASIA

LHC

HORIZONTAL SPLIT CASE PUMPS



PERFORMANCE RANGE



NOTE: LHC 80-250-2, LHC 80-315-2, LHC 80-380-2, LHC 100-400-2, LHC 125-400-2 AND LHC 150-440-2 ARE TWO STAGE PUMPS.



EQUIPMENT SUPPLY SERVICES

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LCR SERIES
50 HZ

IMEN
DATIS
ASIA

Vertical Multistage Centrifugal Pumps
50 Hz



EQUIPMENT
SUPPLY
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Product data

Vertical Multistage Centrifugal Pumps

LCR SERIES
50 HZ

IMEN
DATIS
ASIA



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LCR VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

INTRODUCTION

The Lubi LCR, LCRI, LCRN series are non-self-priming, vertical multistage centrifugal pumps.

The vertical in-line design enables the pump to be installed in a horizontal plane single system where the suction and discharge connections are in the same horizontal plane (in-line) and have the same pipe sizes. This design provides a more compact pump design saving space and easy pipe work.

The pump consists of a base and a pump head. The chamber stack and the outer sleeve are secured between the pump head and the base by means of tiebolts. All pumps are equipped with a maintenance-free mechanical shaft seal.

These pumps come with various sizes and various numbers of stages to provide the flow and the pressure for different site conditions. These pumps are suitable for a wide variety of applications from pumping of potable water to the pumping of chemicals.

These pumps are available in various material versions according to the pumped liquid.

Version

- LCR: Cast iron and stainless steel EN 1.4301/AISI 304
- LCRI: Stainless steel EN 1.4301/AISI 304
- LCRN: Stainless steel EN 1.4401/AISI 316

LCR, LCRI pumps are suitable for non corrosive liquids.

LCRN pumps are suitable for industrial liquids in systems where all parts in contact with the liquid must be made of high-grade stainless steel.

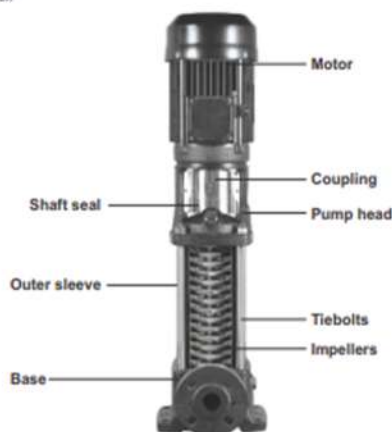


FIG. 1 LCR PUMP

APPLICATIONS

For thin, non-explosive, not containing solid particles or fibers, non-corrosive liquids are suitable.

For liquid transfer, circulation and pressure boosting of cold or hot clean water.

For water supply systems, pressure boosting systems, liquid transfer and irrigation works.

OPERATING CONDITIONS

- Flow range : 0.3 to 180 m³/h
- Head range : Up to 320 metres
- Ambient temperature : Max. + 40°C
- Liquid temperature range: -40°C to +120°C

MOTOR

LCR, LCRI and LCRN pumps are fitted with a Totally Enclosed Fan Cooled, 2-pole motor with principal dimensions in accordance with the EN standards.

Electrical tolerances according to EN 60034.

From 0.37 to 2.2 kW Lubi offers LCR pumps fitted with single-phase motors (1 x 220-230/240 V).

- Motor type : TEFC 2-pole motor
- Ratings : 1 phase - 0.37 to 2.2 kW
3 phase - 0.37 to 75 kW
- Rated speed : 2900 rpm
- Mounting designation : Up to 4 kW - V18 and From 5.5 kW - V1
- Enclosure class : IP 55
- Insulation class : F
- Nominal voltage (Tolerance ±10%) : 1 phase 220-230/240 V - 0.37 to 2.2 kW
3 phase 220-240/380-415 V - 0.37 to 3 kW
3 phase 380-415 V - 4 to 75 kW
- Supply frequency : 50 Hz
- Maximum nos. of starts/hour : 0.37 to 4 kW - 20,
5.5 to 45 kW - 10,
55 to 75 kW - 5
- Direction of rotation : Anticlockwise as seen from the motor rear end

PUMPED LIQUIDS

Thin non-explosive liquids and not containing solid particles or fibers are suitable. The liquid must also not chemically attack the pump materials.

When pumping liquids with a density and/or viscosity higher than that of water, oversized motors must be used, if required.

Whether a pump is suitable for a particular liquid depends on a number of factors of which the most important are the chloride content, pH value, temperature and content of chemicals, oils etc.

Please note that aggressive liquids (e.g sea water and some acids) may attack or dissolve the protective oxide film of the stainless steel and thus cause corrosion.

The LCR, LCRI, LCRN pump types are suitable for the following liquids.

LCR, LCRI

- Non-corrosive liquids.
- For liquid transfer, circulation and pressure boosting of cold or hot clean water.

LCRN

- Industrial liquids.
- In systems where all parts in contact with the liquid must be made of high-grade stainless steel.

OPERATING RANGE OF THE SHAFT SEAL

The operating range of the shaft seal depends on operating pressure, pump type, type of shaft seal and liquid temperature. The following table apply to clean water and water with anti-freeze liquids.

SHAFT SEAL	DESCRIPTION	Max. temperature range [°C]
BBQE	Below type shaft seal, Carbon/SiC/SS 316/EPDM	-40°C to +120°C
BBQV	Below type shaft seal, Carbon/SiC/SS 316/FKM	-40°C to +120°C
HQQE	Cartridge type shaft seal, SiC/SiC/SS 316/EPDM	-40°C to +120°C
HBOE	Cartridge type shaft seal, Carbon/SiC/SS 316/EPDM	0°C to +120°C
HBQV	Cartridge type shaft seal, Carbon/SiC/SS 316/FKM	0°C to +90°C
HQQV	Cartridge type shaft seal, SiC/SiC/SS 316/FKM	-20°C to +90°C

COUNTER FLANGES

COUNTER FLANGES FOR LCR

A set consists of one counter flange of cast iron for threaded & carbon steel for welded connection, one gasket, bolts and nuts.

COUNTER FLANGES FOR LCRI, LCRN

Counter flanges for LCRI pumps are made of stainless steel according to EN 1.4301 (AISI 304) and for LCRN pump are made of stainless steel according to EN 1.4401 (AISI 316).

A set consists of one counter flange, one gasket, bolts and nuts.



Product data

Vertical Multistage Centrifugal Pumps

LCR SERIES
50 HZ

IMEN
DATIS
ASIA

LCR VERTICAL MULTISTAGE CENTRIFUGAL PUMPS



SECTIONAL DRAWING & MATERIALS

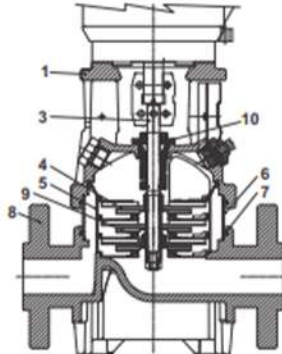


FIG. 2 LCR 1s, 1, 2, 3, 4, 5, 10, 15 AND 20

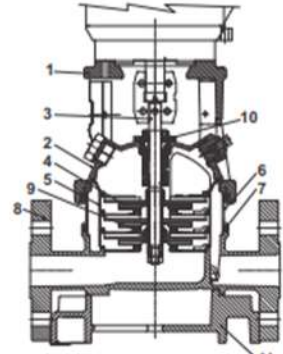


FIG. 3 LCRl, LCRN 1s, 1, 2, 3, 4, 5, 10, 15 AND 20

POS.	COMPONENT	MATERIAL	LCR 1s, 1, 2, 3, 4, 5, 10, 15 & 20		LCRl 1s, 1, 2, 3, 4, 5, 10, 15 & 20		LCRN 1s, 1, 2, 3, 4, 5, 10, 15 & 20	
			EN/DIN	AISI/ASTM	EN/DIN	AISI/ASTM	EN/DIN	AISI/ASTM
1	Pump head	Cast iron EN-GJL-200	EN-JL1030	ASTM 25B	EN-JL1030	ASTM 25B	EN-JL1030	ASTM 25B
2	Pump head cover	Stainless steel	-	-	1.4308	CF 8 eq. to AISI 304	1.4408	CF 8M eq. to AISI 316
3	Shaft	Stainless steel	1.4401	AISI 316	1.4401	AISI 316	1.4401	AISI 316
4	Impeller	Stainless steel	1.4301	AISI 431	1.4460	AISI 329	1.4460	AISI 329
5	Chamber	Stainless steel	1.4301	AISI 304	1.4301	AISI 304	1.4401	AISI 316
6	Outer sleeve	Stainless steel	1.4301	AISI 304	1.4301	AISI 304	1.4401	AISI 316
7	O-ring for outer sleeve	EPDM or FKM	-	-	-	-	-	-
8	Base	Cast iron EN-GJL-200	EN-JL1030	ASTM 25B	-	-	-	-
		Stainless steel	-	-	1.4308	CF 8 eq. to AISI 304	1.4408	CF 8M eq. to AISI 316
9	Neck ring	PTFE	-	-	-	-	-	-
10	Shaft seal	Below/Cartridge type	-	-	-	-	-	-
11	Base plate	Cast iron EN-GJL-200	-	-	EN-JL1030	ASTM 25B	EN-JL1030	ASTM 25B
	Rubber parts	NBR or FKM	-	-	-	-	-	-



EQUIPMENT SUPPLY SERVICES

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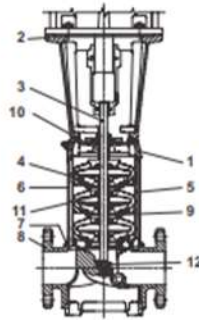


FIG. 4 LCR 32 AND 45

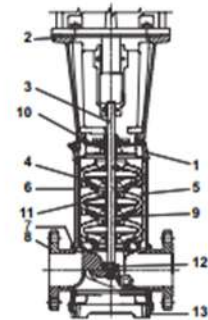


FIG. 5 LCRl, LCRN 32 AND 45

POS.	COMPONENT	MATERIAL	LCR 32 & 45		LCRl 32 & 45		LCRN 32 & 45	
			EN/DIN	AISI/ASTM	EN/DIN	AISI/ASTM	EN/DIN	AISI/ASTM
1	Pump head	Cast iron EN-GJS-500-7	EN-JS1050	ASTM 80-55-06	-	-	-	-
		Stainless steel	-	-	1.4308	CF 8 eq. to AISI 304	1.4408	CF 8M eq. to AISI 316
2	Motor stool	Cast iron EN-GJL-200	EN-JL1030	ASTM 25B	EN-JL1030	ASTM 25B	EN-JL1030	ASTM 25B
3	Shaft	Stainless steel	1.4057	AISI 431	1.4462	-	1.4462	-
4	Impeller	Stainless steel	1.4301	AISI 304	1.4301	AISI 304	1.4401	AISI 316
5	Chamber	Stainless steel	1.4301	AISI 304	1.4301	AISI 304	1.4401	AISI 316
6	Outer sleeve	Stainless steel	1.4301	AISI 304	1.4301	AISI 304	1.4401	AISI 316
7	O-ring for outer sleeve	EPDM or FKM	-	-	-	-	-	-
8	Base	Cast iron EN-GJS-500-7	EN-JS1050	ASTM 80-55-06	-	-	-	-
		Stainless steel	-	-	1.4308	CF 8 eq. to AISI 304	1.4408	CF 8M eq. to AISI 316
9	Neck ring	Carbon-Graphite filled PTFE	-	-	-	-	-	-
10	Shaft seal	Cartridge type	-	-	-	-	-	-
11	Bearing ring	Bronze	-	-	-	-	-	-
		Carbon-Graphite filled PTFE	-	-	-	-	-	-
12	Bottom bearing ring	Sic/Sic	-	-	-	-	-	-
13	Base plate	Cast iron EN-GJS-500-7	-	-	EN-JS1050	ASTM 80-55-06	EN-JS1050	ASTM 80-55-06
	Rubber parts	NBR or FKM	-	-	-	-	-	-



Product data

Vertical Multistage Centrifugal Pumps

LCR SERIES
50 HZ

IMEN
DATIS
ASIA

LCR VERTICAL MULTISTAGE CENTRIFUGAL PUMPS



SECTIONAL DRAWING & MATERIALS

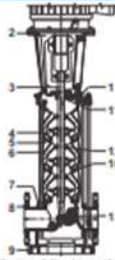


FIG. 6 LCR 120 AND 150

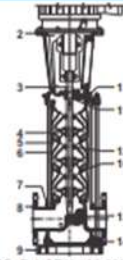


FIG. 7 LCRN 120 AND 150

POS.	COMPONENT	MATERIAL	LCR 120 & 150		LCRN 120 & 150	
			EN/DIN	AISI/ASTM	EN/DIN	AISI/ASTM
1	Pump head	Cast iron EN-GJS-500-7	EN-JS1050	A 536 65-45-12	-	-
2	Motor stool (11-45 kW)	Stainless steel	-	-	1.4408	CF 8M eq. to AISI 316
2	Motor stool (55-75 kW)	Cast iron EN-GJL-200	EN-JL 1030	A48-30 B	EN-JL 1030	A48-30 B
3	Shaft	Cast iron EN-GJS-500-7	EN-JS1050	A 536 65-45-12	EN-JS1050	A 536 65-45-12
		Stainless steel	1.4057	AISI 431	1.4402	-
					1.4401	-
4	Impeller	Stainless steel	1.4301	AISI 304	1.4401	AISI 316
5	Chamber	Stainless steel	1.4301	AISI 304	1.4401	AISI 316
6	Outlet sleeve	Stainless steel	1.4301	AISI 304	1.4401	AISI 316
7	O ring for outer sleeve	EPDM or FRM	-	-	-	-
8	Base	Cast iron EN-GJS-500-7	EN-JS1050	A 536 65-45-12	-	-
		Stainless steel	-	-	1.4408	CF 8M eq. to AISI 316
9	Base plate	Cast iron EN-GJS-500-7	EN-JS1050	A 536 65-45-12	EN-JS1050	A 536 65-45-12
10	Neck ring	Carbon-Graphite filled PTFE/NBR	-	-	-	-
11	Shaft seal	Cartridge type	-	-	-	-
12	Support bearing	Carbon-graphite filled PTFE	-	-	-	-
13	Bearing ring	Tungsten carbide	-	-	-	-
14	Base plate	Cast iron EN-GJS-500-7	-	-	EN-JS1050	A 536 65-45-12
	Rubber parts	NBR or FRM	-	-	-	-

Note: * Ø22 mm shaft - 11 to 45 kW
Ø32 mm shaft - 55 to 75 kW

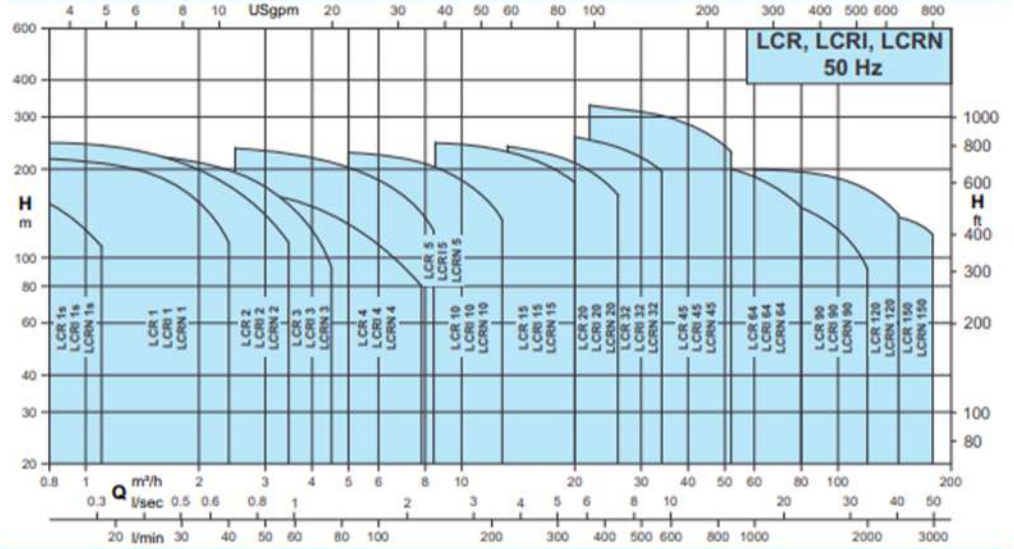


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شرکت ایمن داتیس آسیا با اتکا بر دانش روز، فعالیت مستمر و با همکاری نیروهای فوق تخصص، هم اینک در زمره شرکت های برتر بخش خصوصی در زمینه صنعت ایمنی و آتش نشانی شناخته می شود. این مجموعه همواره در تلاش است که به صورت مستمر و پویا در گسترش زیرساخت های ایمنی و آتش نشانی کشور عزیزمان ایران ایفای نقش نموده و در راستای تحقق اهدافی همچون توسعه و صنعتی سازی فناوری های نوین گام هایی بزرگ بردارد.

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