

Жидкостно-кольцевые вакуумные пластинчатые насосы и компрессоры одноступенчатые ELRi, LR1

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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ELRi-INTELLIGENT LIQUID RING VACUUM PUMPS



EDWARDS THE PARTNER OF CHOICE

Edwards is a world leader in the design, technology and manufacture of vacuum pumps for industrial applications with over 100 years' history.

We believe in delivering results that bring value to our customers by using our breadth of industry experience to identify and apply solutions. Using the most innovative and up-to date modelling techniques, we can optimise the pumping configuration for customers to provide a system design giving the maximum performance in the most reliable and cost-effective way.

PROVEN TECHNOLOGY AND INTELLIGENCE IN A CLEVERLY ENGINEERED PACKAGE

Edwards range of liquid ring pumps continue to provide the optimum solutions for many rough vacuum applications in the chemical and process industries. Built to last, the general reliability and low maintenance of these pumps offer the best solution when it comes to pumping wet gases or particulates.

We have taken this proven liquid ring technology one-step further. By adding intelligence and an injecting innovation, we have now developed a new range of liquid ring pumps- ELRi series.

The ELRi is a single-stage, total recovery liquid ring vacuum pump available in pumping capacities - 750, 950 and 1050 m³/h. Based on proven Hick Hargreaves technology, the ELRi series is a compact powerhouse with improved performance.

The ELRi is available in two variants – Standard variant with Plates-type heat exchanger and the Heavy-Duty variant with a Tube and Shell heat exchanger for the more corrosive and dirty applications.



PUMP TECHNOLOGY

Revolutionising conventional Liquid Ring vacuum pump technology.

RELIABLE AND ROBUST

Cleverly engineered in a smart design

- Stainless steel impellers and end plates supplied as standard
- Integrated non-return valve protects against backflow



INNOVATIVE INTERNAL DESIGN

Highest degree of design build and quality

- Internal injection channels and mechanical seals for a stable sealing arrangement
- Lantern flange arrangement for ease of service



BUILT-IN INTELLIGENCE

Twin Variable Speed Drives (VSD) with patented algorithm

- VSD motor with set point control to maintain and match vacuum levels
- VSD for the water circulation pump to optimise water flow and maintain stable vacuum

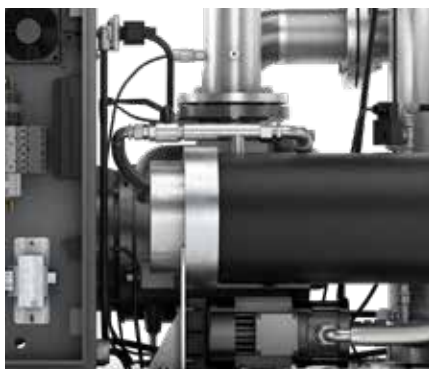
HIGH DEGREE OF PROTECTION

Patented Anti-Cavitation Algorithm

- Prevents the ELRi from operating in areas of cavitation
- Increases pump lifetime, reduces process downtime and maintenance costs

- Set point control
- VSD on main motor
- VSD driven circulation pump
- Spray nozzles
- Cavitation prevention
- Automatic seizure prevention
- Icon box and connectivity





IP RATED COMPACT CANOPY

Compact canopy without sacrificing performance

- Ergonomically designed IP 54 rated canopy with a small footprint
- Dust and splash-proof with noise containment up to 69 dB

REMOTE MONITORING VIA ICON BOX

Easily identify service requirements and plug gaps

- ICONS SERVICE - Remote information of machine status
- ICONS UPTIME - Be informed of pump performance and maintenance requirements via SMS/email notification
- ICONS ENERGY - Energy savings report provided monthly

IDEAL FOR HUMID APPLICATIONS

Integrated Spray Nozzles

- Water spray cools and condenses the inlet gas and vapour from the process
- Reduces energy consumption, increases impeller life and ensures stable pump temperature

PATENTED ANTI-SEIZURE ALGORITHM

Seizure Prevention after long periods of inactivity

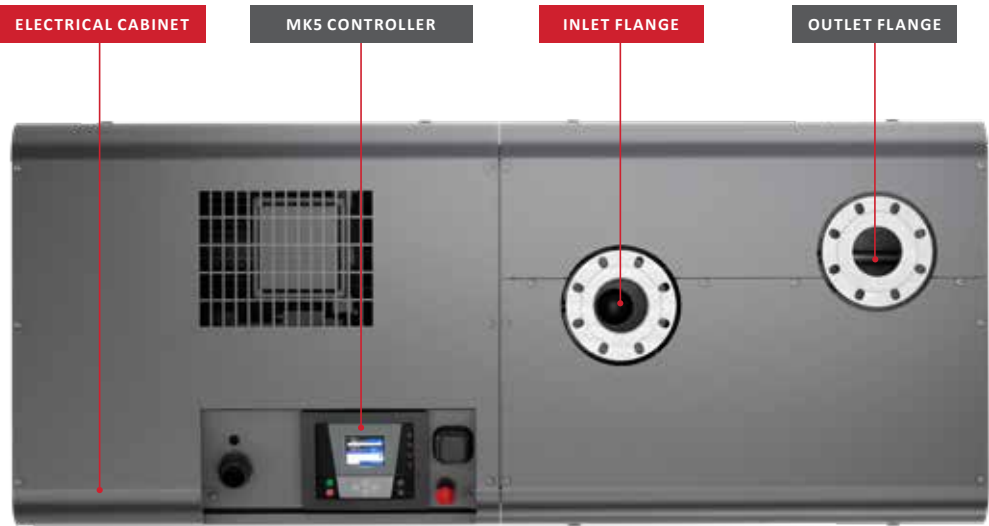
- Automatic turning off the pump for few seconds after long periods of inactivity
- Auto-restart after voltage failure



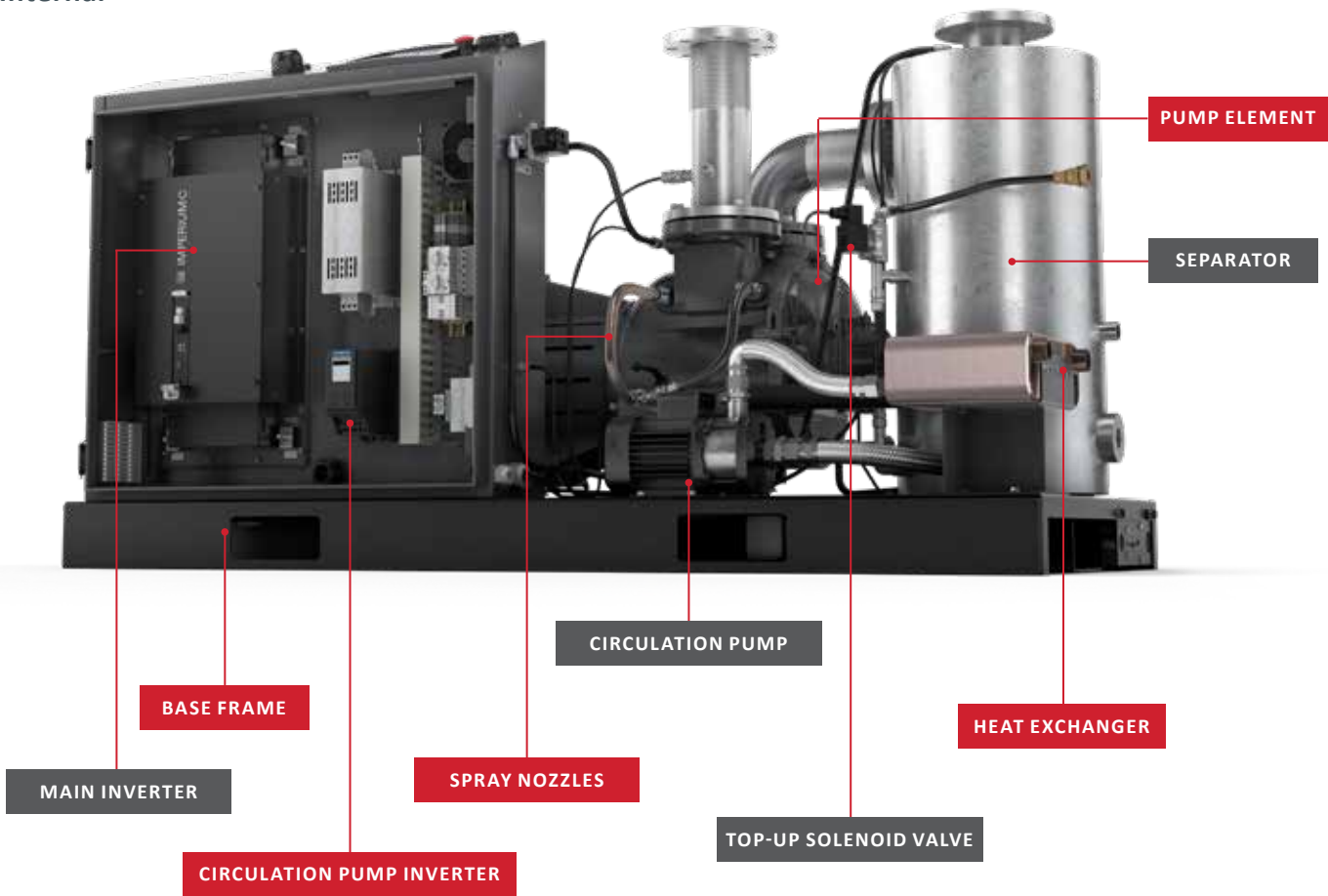
INTELLIGENCE
AND AN
INNOVATIVE
DESIGN WITH
AIRLOGIC®
CONTROL

ELRi PUMP MAIN COMPONENTS

Top canopy



Internal



*For the Heavy Duty ELRi vacuum pump, the plates-type heat exchanger is replaced with the Tube and Shell. The plugs, solenoid valves and connecting pipes are stainless steel. This is suited for the more corrosive and dirty applications.

EControl

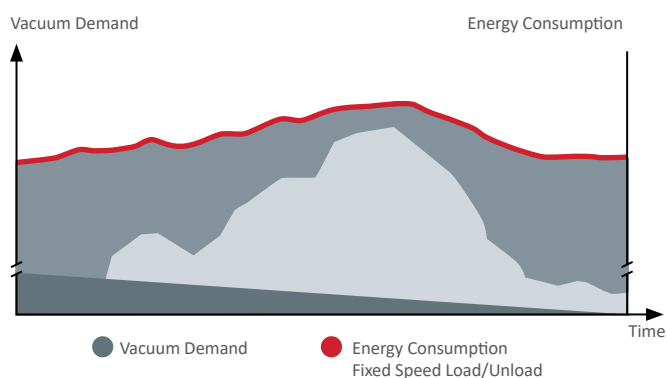
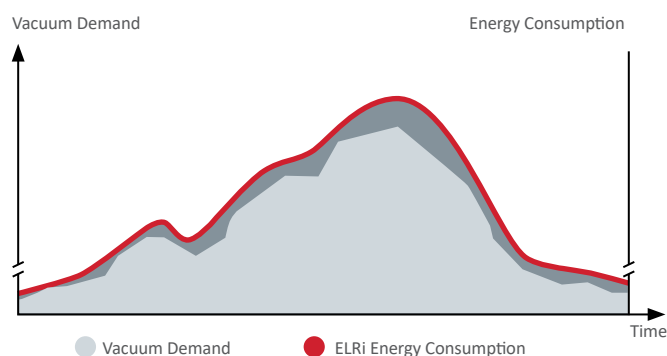


With our EControl Box, you can connect, monitor and control multiple ELRi pumps as well as competitor pumps. You get all the information for the everyday management of your vacuum pump as well as the alarms, safety shutdowns and maintenance:

- **Monitoring:** Vacuum pump operating status, recording of running/stopped hours, programmable timers, temperature/pressure read-outs, set point control and other settings
- **Safety:** Warning indications, fault and shutdown indications
- **Service:** Service operations, remote control (optional)

Fixed speed versus VSD

The need for vacuum fluctuates depending on different factors such as process changes, the time of day, week or even month. The intelligent ELRi can deliver peak performance only when required enabling significant energy and maintenance cost reductions. Optimising the energy used to maintain process vacuum level results in improved process efficiency and performance.



APPLICATIONS

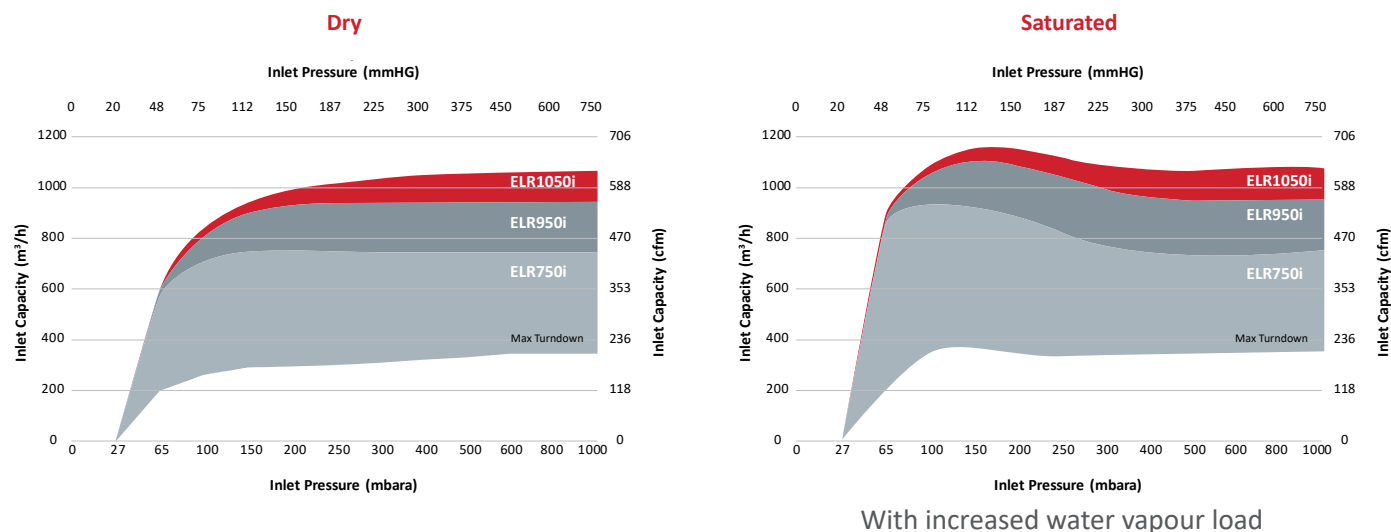
The ELRi pumps are suitable for a range of applications in various industries including:

- Plastic Extrusion
- Rubber Vulcanisation
- Pulp and paper
- Drying
- Sterilisation
- Evaporation
- Filtration
- Pneumatic Conveying
- Chemical industry
- Pet food industry
- EPS Forming



PERFORMANCE CURVES

ELRi PERFORMANCE CURVES

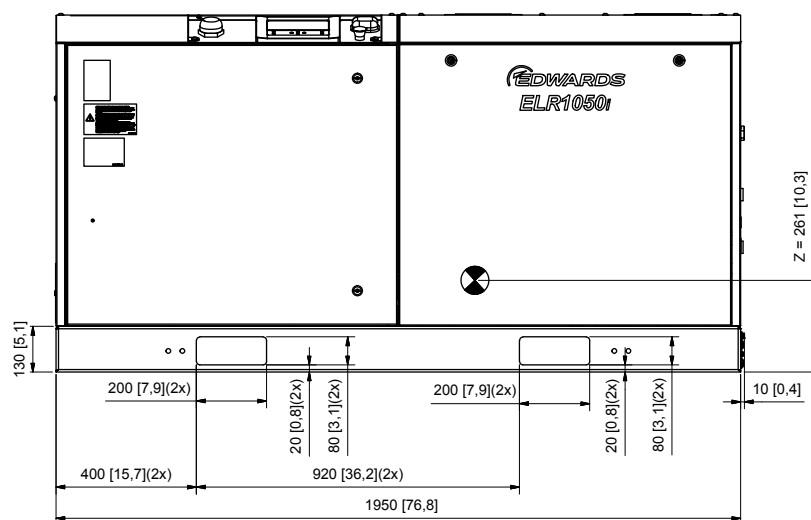


TECHNICAL SPECIFICATIONS

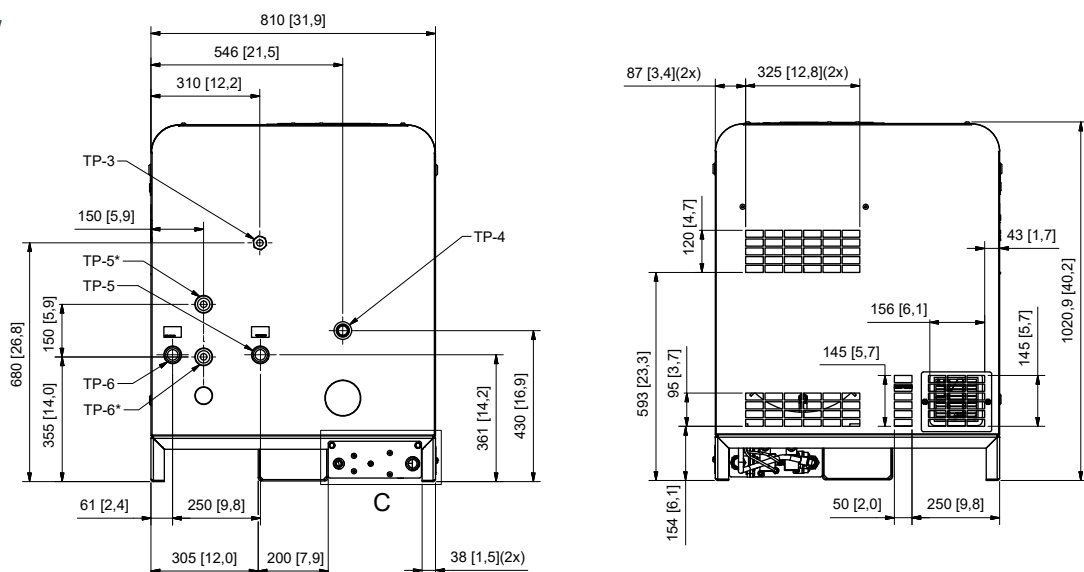
		ELR750i	ELR950i	ELR1050i
Nominal capacity	Dry-m³/h	740	940	1050
	Dry-cfm	436	553	618
	Saturated-m³/h	910	1090	1140
	Saturated-cfm	536	642	671
Ultimate pressure(Absolute)	mbar	25		
	inch Hg	0.7		
Nominal installed motor	kW	18.5	26	37
	hp	24.8	34.9	49.6
Footprint (WxDxH)	mm	1950 x 810 x 1020		
	inch	76,8 x 31,9 x 40,2		
	Inlet / Outlet	EN1092-1/01/B1/DN100/PN10		
Connection	Liquid fill / Manual drain	G 1/2" BSP(F)		
	Overflow	G 1/2" BSP(F)		
	Cooler inlet / Outlet	ISO 228/1-G1"		
Dry weight	kg	820	885	900

DRAWINGS AND DIMENSIONS

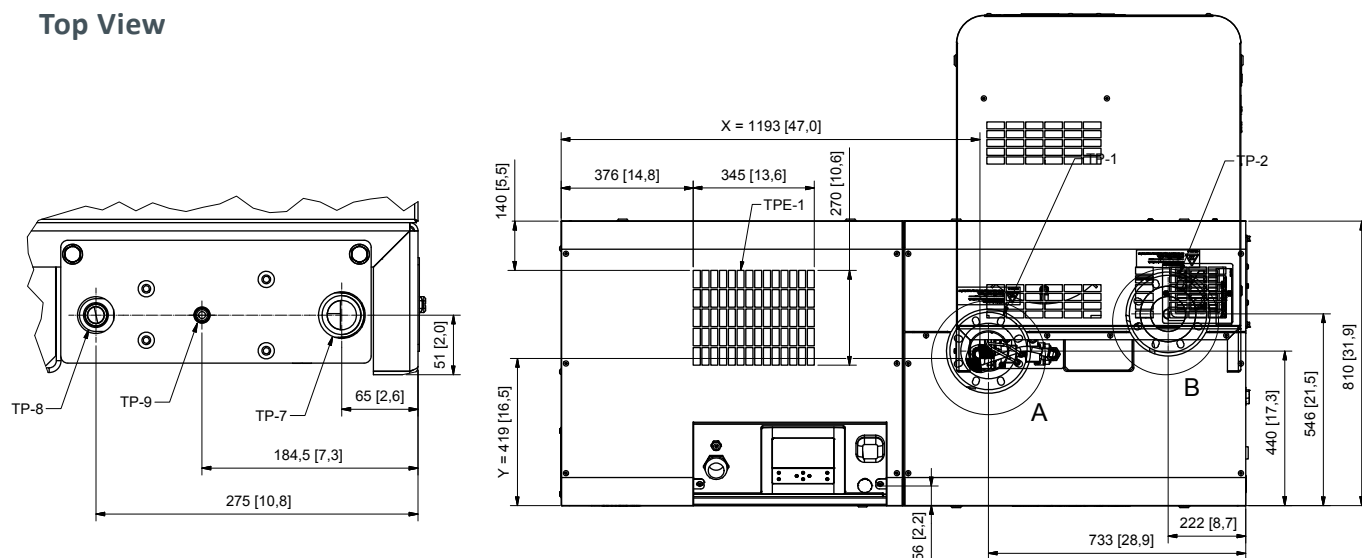
Front View



Side View



Top View



SERVICE AND SUPPORT

To ensure your ELRi Liquid Ring vacuum pump maintains optimal performance and reliability, we offer a wide range of service solutions, tailored to meet your needs. Our Preventative Maintenance service packages are designed to keep your pump optimised at all times.

Thanks to the incorporated AirLogic® controller and ICON box connectivity, many servicing and maintenance actions can now be performed by the operator. The modular and accessible design of the pump makes these actions simple and saves you time.

Annual Service

A more comprehensive Annual Service ensures that the heat exchanger and separator remain clean. We fine-tune performance to ensure operating costs are minimised.

Overhaul

When required, the pump element can be overhauled with the replacement of bearings, port plates and mechanical seals. This can be achieved with minimal impact to you and your operations.

Spare Parts

Kits are available to aid routine maintenance. Selecting original spare parts ensures reliability is never compromised. Our service engineers only fit 100% genuine parts to ensure you receive the best result from each service provided.



ORDERING INFORMATION

Part Number	Description
A75167100	ELR 750i Standard
A75167101	ELR 950i Standard
A75167102	ELR 1050i Standard
A75167110	ELR750i Heavy Duty, Stainless Steel version
A75167111	ELR950i Heavy Duty, Stainless Steel version
A75167112	ELR 1050i Heavy Duty, Stainless Steel version
A50862719	EControl6v IEC
A50862720	EControl6v UL,cUL
A50862721	EControl16v IEC
A50862722	EControl16v UL,cUL



LR1A8000 - Liquid Ring Vacuum Pump CI

Part Number: **LR1A8000BA10**

Specifications

Connection Vacuum Inlet Flange	DN 300
Connection vacuum outlet flange	DN 300
Cooling Method	Water Cooling
Pressure Ultimate	3300.00 <u>Pa</u> ▼
Power Total Rated	2.500×10^5 <u>W</u> ▼

Variant

Explore the range of variants given below to compare the product

	SHORT DESCRIPTION	PART NUMBER
☒	LR1A8000 CI	LR1A8000BA10
☐	LR1A8000 SS fitted	LR1A8000BA50
☐	LR1A8000 SS	LR1A8000BA70

Liquid Ring Pumps Single-Stage Plate

Liquid ring vacuum pumps are positive displacement pumps that use a ring of liquid to create a seal between the vanes or impeller and the pump housing, creating a vacuum and pumping gas or vapor out of a chamber. They are rugged, reliable and widely used in applications ranging from chemical processing, paper and pulp industry, power generation, and wastewater treatment. They excel at handling condensable vapors and liquid slugs, making them ideal for wet applications with high levels of contamination.

Discover our cutting-edge Liquid Ring Vacuum Pumps, EHR Series and SHR Series, meticulously designed by Edwards.

Tailored for the most demanding applications in process industries, our liquid ring pump range comprises both one and two-stage machines, ensuring optimum efficiency across a broad vacuum range. With capacities reaching up to 40,000 m³/h in one stage and 7,500 m³/h in two-stage models, these pumps deliver powerful performance.

LR1A

For rough vacuum applications in the chemical and allied process industries

The LR Series, including LR1A and LR1B single-stage models, are tolerant of particulates and operate with minimal maintenance and noise, making them ideal for your continuous operations in the power, chemical and process industries.

Features and Benefits

Efficiency and Power: Experience unparalleled efficiency with our one and two-stage liquid ring pumps, perfect for processes operating at various vacuum levels.

Innovation Redefined: Explore our ELRi range, a revolutionary line of intelligent and connected liquid ring vacuum pumps, integrating years of expertise and innovative technical advancements.

Customized Solutions: Benefit from our extensive experience in designing, engineering, and assembling bespoke liquid ring pump and hybrid vacuum systems. We provide tailored solutions for diverse process applications, meeting unique customer requirements.

Count on Edwards for top-quality Liquid Ring Pumps, designed to excel in the most challenging industrial environments. Enhance your processes with our reliable, efficient, and customized vacuum solutions.

SPECIFICATIONS

➤

Classification

Product Pressure Range	Rough Vacuum: 1000 mbar - 1 mbar
High / Medium / Rough Vacuum Classification	Rough Vacuum Pump
Dry or Wet Pump	Wet
Vacuum Pump Technology	Liquid Ring Pump

Variants

variantLrpMaterialOfConstruction	CI
	CI - Cast Iron

General Product Information

Connection Vacuum Inlet Flange	DN 300
Weight	3750.00 kg ▼
Connection vacuum outlet flange	DN 300
Dimension Length	2.02 m ▼
IP Rating	IP54

Supply Frequency	50 Hz
	60 Hz
Dimension Height	1.63 <u>m</u> ▼
Dimension Width	1.40 <u>m</u> ▼
Noise Level	85.00 db(A)
Cooling Method	Water Cooling
Connection Cooling	DN 65
connectionVacuumFlangeCombined	DN 300 / DN 300
dimensionComments	The dimensions length, width and height try to describe the outer shape of this particular product in its typical orientation when standing on the ground. We always recommend checking the detailed dimensions given in 2D drawings in the instruction manual or the 3D shapes given in 3D models.

Performance Data

Power Total Rated	2.500×10^5 <u>W</u> ▼
Power Total Rated @60Hz	2.500×10^5 <u>W</u> ▼
Power Total Rated @50Hz	2.500×10^5 <u>W</u> ▼
Rotational Speed @50Hz Nominal	8.83 <u>Hz</u> ▼
Pressure Ultimate	3300.00 <u>Pa</u> ▼
Rotational Speed @60Hz Nominal	8.83 <u>Hz</u> ▼

Capacity Air / Nitrogen @50Hz Nominal	2.25 <u>m³/s</u> ▼
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Capacity Air / Nitrogen @60Hz Nominal	2.25 <u>m³/s</u> ▼
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Operation Conditions - Limitations

Altitude Max.	1000.00 <u>m</u> ▼
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Temperature Inlet Gas Max.	353.15 <u>K</u> ▼
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pressureOutletMaxContinuous	1.200 × 10 ⁵ <u>Pa</u> ▼
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Environmental Conditions

Temperature Ambient Operation Max	323.15 <u>K</u> ▼
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Temperature Ambient Operation Min.	253.15 <u>K</u> ▼
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Temperature Ambient Storage Min.	243.15 <u>K</u> ▼
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Temperature Ambient Storage Max.	323.15 <u>K</u> ▼
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Material of Construction

Material Of Construction	Grey cast iron, Carbon steel, Spheroidal graphite (ductile) cast iron (6), carbon steel (7), Stainless steel 420, Silicon carbide, Nitrile, Stainless steel 316, Flap, Stainless steel 304, PTFE, Compressed fibre, Polyester urethane, Ball, Brass
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Lubricants

Grease Type	DIN51825 K2K-30
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LR1A6500 - Liquid Ring Vacuum Pump CI

Part Number: **LR1A6500BA10**

Specifications

Connection Vacuum Inlet Flange	DN 250
Connection vacuum outlet flange	DN 250
Cooling Method	Water Cooling
Pressure Ultimate	3300.00 <u>Pa</u> ▼
Power Total Rated	1.600×10^5 <u>W</u> ▼

Variant

Explore the range of variants given below to compare the product

	SHORT DESCRIPTION	PART NUMBER
☒	LR1A6500 CI	LR1A6500BA10
☐	LR1A6500 SS fitted	LR1A6500BA50
☐	LR1A6500 SS	LR1A6500BA70

Liquid Ring Pumps Single-Stage Plate

Liquid ring vacuum pumps are positive displacement pumps that use a ring of liquid to create a seal between the vanes or impeller and the pump housing, creating a vacuum and pumping gas or vapor out of a chamber. They are rugged, reliable and widely used in applications ranging from chemical processing, paper and pulp industry, power generation, and wastewater treatment. They excel at handling condensable vapors and liquid slugs, making them ideal for wet applications with high levels of contamination.

Discover our cutting-edge Liquid Ring Vacuum Pumps, EHR Series and SHR Series, meticulously designed by Edwards.

Tailored for the most demanding applications in process industries, our liquid ring pump range comprises both one and two-stage machines, ensuring optimum efficiency across a broad vacuum range. With capacities reaching up to 40,000 m³/h in one stage and 7,500 m³/h in two-stage models, these pumps deliver powerful performance.

LR1A

For rough vacuum applications in the chemical and allied process industries

The LR Series, including LR1A and LR1B single-stage models, are tolerant of particulates and operate with minimal maintenance and noise, making them ideal for your continuous operations in the power, chemical and process industries.

Features and Benefits

Efficiency and Power: Experience unparalleled efficiency with our one and two-stage liquid ring pumps, perfect for processes operating at various vacuum levels.

Innovation Redefined: Explore our ELRi range, a revolutionary line of intelligent and connected liquid ring vacuum pumps, integrating years of expertise and innovative technical advancements.

Customized Solutions: Benefit from our extensive experience in designing, engineering, and assembling bespoke liquid ring pump and hybrid vacuum systems. We provide tailored solutions for diverse process applications, meeting unique customer requirements.

Count on Edwards for top-quality Liquid Ring Pumps, designed to excel in the most challenging industrial environments. Enhance your processes with our reliable, efficient, and customized vacuum solutions.

SPECIFICATIONS

➤

Classification

Product Pressure Range	Rough Vacuum: 1000 mbar - 1 mbar
High / Medium / Rough Vacuum Classification	Rough Vacuum Pump
Dry or Wet Pump	Wet
Vacuum Pump Technology	Liquid Ring Pump

Variants

variantLrpMaterialOfConstruction	CI
	CI - Cast Iron

General Product Information

Connection Vacuum Inlet Flange	DN 250
Weight	2900.00 kg ▼
Connection vacuum outlet flange	DN 250
Dimension Length	1.89 m ▼
IP Rating	IP54

Supply Frequency	50 Hz
	60 Hz
Dimension Height	1.37 <u>m</u> ▼
Dimension Width	1.11 <u>m</u> ▼
Noise Level	85.00 db(A)
Cooling Method	Water Cooling
Connection Cooling	DN 50
connectionVacuumFlangeCombined	DN 250 / DN 250
dimensionComments	The dimensions length, width and height try to describe the outer shape of this particular product in its typical orientation when standing on the ground. We always recommend checking the detailed dimensions given in 2D drawings in the instruction manual or the 3D shapes given in 3D models.

Performance Data

Power Total Rated	1.600×10^5 <u>W</u> ▼
Power Total Rated @60Hz	1.600×10^5 <u>W</u> ▼
Power Total Rated @50Hz	1.600×10^5 <u>W</u> ▼
Rotational Speed @50Hz Nominal	9.83 <u>Hz</u> ▼
Pressure Ultimate	3300.00 <u>Pa</u> ▼
Rotational Speed @60Hz Nominal	9.83 <u>Hz</u> ▼

Capacity Air / Nitrogen @50Hz Nominal	1.67 <u>m³/s</u> ▼
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Capacity Air / Nitrogen @60Hz Nominal	1.67 <u>m³/s</u> ▼
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Operation Conditions - Limitations

Altitude Max.	1000.00 <u>m</u> ▼
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Temperature Inlet Gas Max.	353.15 <u>K</u> ▼
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pressureOutletMaxContinuous	1.200 × 10 ⁵ <u>Pa</u> ▼
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Environmental Conditions

Temperature Ambient Operation Max	323.15 <u>K</u> ▼
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Temperature Ambient Operation Min.	253.15 <u>K</u> ▼
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Temperature Ambient Storage Min.	243.15 <u>K</u> ▼
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Temperature Ambient Storage Max.	323.15 <u>K</u> ▼
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Material of Construction

Material Of Construction	Grey cast iron, Carbon steel, Spheroidal graphite (ductile) cast iron (6), carbon steel (7), Stainless steel 420, Silicon carbide, Nitrile, Stainless steel 316, Flap, Stainless steel 304, PTFE, Compressed fibre, Polyester urethane, Ball, Brass
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Lubricants

Grease Type	DIN51825 K2K-30
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LR1A5500 - Liquid Ring Vacuum Pump CI

Part Number: **LR1A5500BA10**

Specifications

Connection Vacuum Inlet Flange	DN 250
Connection vacuum outlet flange	DN 250
Cooling Method	Water Cooling
Pressure Ultimate	3300.00 <u>Pa</u> ▼
Power Total Rated	1.600×10^5 <u>W</u> ▼

Variant

Explore the range of variants given below to compare the product

	SHORT DESCRIPTION	PART NUMBER
☒	LR1A5500 CI	LR1A5500BA10
☐	LR1A5500 SS fitted	LR1A5500BA50
☐	LR1A5500 SS	LR1A5500BA70

Liquid Ring Pumps Single-Stage Plate

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SPECIFICATIONS



Classification

Product Pressure Range	Rough Vacuum: 1000 mbar - 1 mbar
High / Medium / Rough Vacuum Classification	Rough Vacuum Pump
Dry or Wet Pump	Wet
Vacuum Pump Technology	Liquid Ring Pump

Variants

variantLrpMaterialOfConstruction	CI
	CI - Cast Iron

Material of Construction

Material Of Construction	Grey cast iron, Carbon steel, Spheroidal graphite (ductile) cast iron, Stainless steel 420, Silicon carbide, Nitrile, Stainless steel 316, Flap, Stainless steel 304, PTFE, Compressed fibre, Polyester urethane, Ball, Brass
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Lubricants

Grease Type	DIN51825 K2K-30
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General Product Information

Connection Vacuum Inlet Flange	DN 250
Weight	2400.00 <u>kg</u> ✓
Connection vacuum outlet flange	DN 250
Dimension Length	1.75 <u>m</u> ✓
IP Rating	IP54
Dimension Height	1.37 <u>m</u> ✓
Dimension Width	1.11 <u>m</u> ✓
Noise Level	85.00 db(A)
Cooling Method	Water Cooling
Connection Cooling	DN 50
connectionVacuumFlangeCombined	DN 250 / DN 250
dimensionComments	The dimensions length, width and height try to describe the outer shape of this particular product in its typical orientation when standing on the ground. We always recommend checking the detailed dimensions given in 2D drawings in the instruction manual or the 3D shapes given in 3D models.

Performance Data

Power Total Rated	1.600×10^5 <u>W</u> ✓
Power Total Rated @60Hz	1.600×10^5 <u>W</u> ✓
Power Total Rated @50Hz	1.600×10^5 <u>W</u> ✓
Rotational Speed @50Hz Nominal	9.83 <u>Hz</u> ✓
Pressure Ultimate	3300.00 <u>Pa</u> ✓

Rotational Speed @60Hz Nominal	9.83 <u>Hz</u> ▼
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Capacity Air / Nitrogen @50Hz Nominal	1.47 <u>m³/s</u> ▼
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Capacity Air / Nitrogen @60Hz Nominal	1.47 <u>m³/s</u> ▼
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Operation Conditions - Limitations

Altitude Max.	1000.00 <u>m</u> ▼
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Temperature Inlet Gas Max.	353.15 <u>K</u> ▼
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pressureOutletMaxContinuous	1.200×10^5 <u>Pa</u> ▼
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Environmental Conditions

Temperature Ambient Operation Max	323.15 <u>K</u> ▼
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Temperature Ambient Operation Min.	253.15 <u>K</u> ▼
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Temperature Ambient Storage Min.	243.15 <u>K</u> ▼
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Temperature Ambient Storage Max.	323.15 <u>K</u> ▼
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LR1A5000 - Liquid Ring Vacuum Pump CI/SS

Part Number: **LR1A5000BA50**

Specifications

Connection Vacuum Inlet Flange	DN 200
Connection vacuum outlet flange	DN 200
Cooling Method	Water Cooling
Pressure Ultimate	3300.00 <u>Pa</u> ▼
Power Total Rated	1.320×10^5 <u>W</u> ▼

Variant

Explore the range of variants given below to compare the product

	SHORT DESCRIPTION	PART NUMBER
☐	LR1A5000 CI	LR1A5000BA10
☒	LR1A5000 SS fitted	LR1A5000BA50
☐	LR1A5000 SS	LR1A5000BA70

PRODUCT DETAILS



Liquid Ring Pumps Single-Stage Plate

Liquid ring vacuum pumps are positive displacement pumps that use a ring of liquid to create a seal between the vanes or impeller and the pump housing, creating a vacuum and pumping gas or vapor out of a chamber. They are rugged, reliable and widely used in applications ranging from chemical processing, paper and pulp industry, power generation, and wastewater treatment. They excel at handling condensable vapors and liquid slugs, making them ideal for wet applications with high levels of contamination.

Discover our cutting-edge Liquid Ring Vacuum Pumps, EHR Series and SHR Series, meticulously designed by Edwards.

Tailored for the most demanding applications in process industries, our liquid ring pump range comprises both one and two-stage machines, ensuring optimum efficiency across a broad vacuum range. With capacities reaching up to 40,000 m³/h in one stage and 7,500 m³/h in two-stage models, these pumps deliver powerful performance.

LR1A

For rough vacuum applications in the chemical and allied process industries

The LR Series, including LR1A and LR1B single-stage models, are tolerant of particulates and operate with minimal maintenance and noise, making them ideal for your continuous operations in the power, chemical and process industries.

Features and Benefits

Efficiency and Power: Experience unparalleled efficiency with our one and two-stage liquid ring pumps, perfect for processes operating at various vacuum levels.

Innovation Redefined: Explore our ELRi range, a revolutionary line of intelligent and connected liquid ring vacuum pumps, integrating years of expertise and innovative technical advancements.

Customized Solutions: Benefit from our extensive experience in designing, engineering, and assembling bespoke liquid ring pump and hybrid vacuum systems. We provide tailored solutions for diverse process applications, meeting unique customer requirements.

Count on Edwards for top-quality Liquid Ring Pumps, designed to excel in the most challenging industrial environments. Enhance your processes with our reliable, efficient, and customized vacuum solutions.



Classification

Product Pressure Range	Rough Vacuum: 1000 mbar - 1 mbar
High / Medium / Rough Vacuum Classification	Rough Vacuum Pump
Dry or Wet Pump	Wet
Vacuum Pump Technology	Liquid Ring Pump

Variants

variantLrpMaterialOfConstruction	CI/SS
	CI/SS - Stainless Fitted

Material of Construction

Material Of Construction	Grey cast iron, Stainless steel 316, Carbon steel (3), Silicon carbide, FPM, Flap, PTFE, Anaerobic, Ball
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General Product Information

Connection Vacuum Inlet Flange	DN 200
Weight	1886.00 kg ▼
Connection vacuum outlet flange	DN 200
Dimension Length	1.70 m ▼
IP Rating	IP54

Supply Frequency	50 Hz
	60 Hz
Dimension Height	1.19 <u>m</u> ▼
Dimension Width	1.01 <u>m</u> ▼
Noise Level	85.00 db(A)
Cooling Method	Water Cooling
Connection Cooling	DN 40
connectionVacuumFlangeCombined	DN 200 / DN 200
dimensionComments	The dimensions length, width and height try to describe the outer shape of this particular product in its typical orientation when standing on the ground. We always recommend checking the detailed dimensions given in 2D drawings in the instruction manual or the 3D shapes given in 3D models.

Performance Data

Power Total Rated	1.320×10^5 <u>W</u> ▼
Power Total Rated @60Hz	1.320×10^5 <u>W</u> ▼
Power Total Rated @50Hz	1.320×10^5 <u>W</u> ▼
Rotational Speed @50Hz Nominal	12.33 <u>Hz</u> ▼
Pressure Ultimate	3300.00 <u>Pa</u> ▼
Rotational Speed @60Hz Nominal	12.33 <u>Hz</u> ▼

Capacity Air / Nitrogen @50Hz Nominal	1.26 <u>m³/s</u> ▼
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Capacity Air / Nitrogen @60Hz Nominal	1.26 <u>m³/s</u> ▼
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Operation Conditions - Limitations

Altitude Max.	1000.00 <u>m</u> ▼
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Temperature Inlet Gas Max.	353.15 <u>K</u> ▼
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pressureOutletMaxContinuous	1.200 × 10 ⁵ <u>Pa</u> ▼
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Environmental Conditions

Temperature Ambient Operation Max	323.15 <u>K</u> ▼
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Temperature Ambient Operation Min.	253.15 <u>K</u> ▼
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Temperature Ambient Storage Min.	243.15 <u>K</u> ▼
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Temperature Ambient Storage Max.	323.15 <u>K</u> ▼
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Lubricants

Grease Type	DIN51825 K2K-30
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LR1A4000 - Liquid Ring Vacuum Pump CI

Part Number: **LR1A4000BA10**

Specifications

Connection Vacuum Inlet Flange	DN 200
Connection vacuum outlet flange	DN 200
Cooling Method	Water Cooling
Pressure Ultimate	3300.00 <u>Pa</u> ▼
Power Total Rated	1.100×10^5 <u>W</u> ▼

Variant

Explore the range of variants given below to compare the product

	SHORT DESCRIPTION	PART NUMBER
☒	LR1A4000 CI	LR1A4000BA10
☐	LR1A4000 SS fitted	LR1A4000BA50
☐	LR1A4000 SS	LR1A4000BA70

Liquid Ring Pumps Single-Stage Plate

Liquid ring vacuum pumps are positive displacement pumps that use a ring of liquid to create a seal between the vanes or impeller and the pump housing, creating a vacuum and pumping gas or vapor out of a chamber. They are rugged, reliable and widely used in applications ranging from chemical processing, paper and pulp industry, power generation, and wastewater treatment. They excel at handling condensable vapors and liquid slugs, making them ideal for wet applications with high levels of contamination.

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Tailored for the most demanding applications in process industries, our liquid ring pump range comprises both one and two-stage machines, ensuring optimum efficiency across a broad vacuum range. With capacities reaching up to 40,000 m³/h in one stage and 7,500 m³/h in two-stage models, these pumps deliver powerful performance.

LR1A

For rough vacuum applications in the chemical and allied process industries

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Features and Benefits

Efficiency and Power: Experience unparalleled efficiency with our one and two-stage liquid ring pumps, perfect for processes operating at various vacuum levels.

Innovation Redefined: Explore our ELRi range, a revolutionary line of intelligent and connected liquid ring vacuum pumps, integrating years of expertise and innovative technical advancements.

Customized Solutions: Benefit from our extensive experience in designing, engineering, and assembling bespoke liquid ring pump and hybrid vacuum systems. We provide tailored solutions for diverse process applications, meeting unique customer requirements.

Count on Edwards for top-quality Liquid Ring Pumps, designed to excel in the most challenging industrial environments. Enhance your processes with our reliable, efficient, and customized vacuum solutions.

SPECIFICATIONS

Classification

Product Pressure Range	Rough Vacuum: 1000 mbar - 1 mbar
High / Medium / Rough Vacuum Classification	Rough Vacuum Pump
Dry or Wet Pump	Wet
Vacuum Pump Technology	Liquid Ring Pump

Variants

variantLrpMaterialOfConstruction	CI
	CI - Cast Iron

Material of Construction

Material Of Construction	Grey cast iron, Carbon steel, Spheroidal graphite (ductile) cast iron, Stainless steel 420, Silicon carbide, Nitrile, Stainless steel 316, Flap, Stainless steel 304, PTFE, Compressed fibre, Polyester urethane, Ball, Brass
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General Product Information

Connection Vacuum Inlet Flange	DN 200
Weight	1620.00 kg ▼

Connection vacuum outlet flange	DN 200
Dimension Length	1.58 <u>m</u> ▼
IP Rating	IP54
Supply Frequency	50 Hz
	60 Hz
Dimension Height	1.19 <u>m</u> ▼
Dimension Width	1.01 <u>m</u> ▼
Noise Level	85.00 db(A)
Cooling Method	Water Cooling
Connection Cooling	DN 40
connectionVacuumFlangeCombined	DN 200 / DN 200
dimensionComments	The dimensions length, width and height try to describe the outer shape of this particular product in its typical orientation when standing on the ground. We always recommend checking the detailed dimensions given in 2D drawings in the instruction manual or the 3D shapes given in 3D models.

Performance Data

Power Total Rated	1.100 × 10 ⁵ <u>W</u> ▼
Power Total Rated @60Hz	1.100 × 10 ⁵ <u>W</u> ▼
Power Total Rated @50Hz	1.100 × 10 ⁵ <u>W</u> ▼
Rotational Speed @50Hz Nominal	12.33 <u>Hz</u> ▼

Pressure Ultimate	3300.00 <u>Pa</u> ▼
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Rotational Speed @60Hz Nominal	12.33 <u>Hz</u> ▼
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Capacity Air / Nitrogen @50Hz Nominal	1.11 <u>m³/s</u> ▼
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Capacity Air / Nitrogen @60Hz Nominal	1.11 <u>m³/s</u> ▼
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Operation Conditions - Limitations

Altitude Max.	1000.00 <u>m</u> ▼
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Temperature Inlet Gas Max.	353.15 <u>K</u> ▼
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pressureOutletMaxContinous	1.200 × 10 ⁵ <u>Pa</u> ▼
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Environmental Conditions

Temperature Ambient Operation Max	323.15 <u>K</u> ▼
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Temperature Ambient Operation Min.	253.15 <u>K</u> ▼
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Temperature Ambient Storage Min.	243.15 <u>K</u> ▼
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Temperature Ambient Storage Max.	323.15 <u>K</u> ▼
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Lubricants

Grease Type	DIN51825 K2K-30
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LR1A2500 - Liquid Ring Vacuum Pump CI

Part Number: **LR1A2500BA10**

Specifications

Connection Vacuum Inlet Flange	DN 150
Connection vacuum outlet flange	DN 150
Cooling Method	Water Cooling
Pressure Ultimate	3300.00 <u>Pa</u> ▼
Power Total Rated	75000.00 <u>W</u> ▼

Variant

Explore the range of variants given below to compare the product

	SHORT DESCRIPTION	PART NUMBER
☒	LR1A2500 CI	LR1A2500BA10
☐	LR1A2500 SS fitted	LR1A2500BA50
☐	LR1A2500 SS	LR1A2500BA70

Liquid Ring Pumps Single-Stage Plate

Liquid ring vacuum pumps are positive displacement pumps that use a ring of liquid to create a seal between the vanes or impeller and the pump housing, creating a vacuum and pumping gas or vapor out of a chamber. They are rugged, reliable and widely used in applications ranging from chemical processing, paper and pulp industry, power generation, and wastewater treatment. They excel at handling condensable vapors and liquid slugs, making them ideal for wet applications with high levels of contamination.

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LR1A

For rough vacuum applications in the chemical and allied process industries

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Features and Benefits

Efficiency and Power: Experience unparalleled efficiency with our one and two-stage liquid ring pumps, perfect for processes operating at various vacuum levels.

Innovation Redefined: Explore our ELRi range, a revolutionary line of intelligent and connected liquid ring vacuum pumps, integrating years of expertise and innovative technical advancements.

Customized Solutions: Benefit from our extensive experience in designing, engineering, and assembling bespoke liquid ring pump and hybrid vacuum systems. We provide tailored solutions for diverse process applications, meeting unique customer requirements.

Count on Edwards for top-quality Liquid Ring Pumps, designed to excel in the most challenging industrial environments. Enhance your processes with our reliable, efficient, and customized vacuum solutions.

SPECIFICATIONS



Classification

Product Pressure Range	Rough Vacuum: 1000 mbar - 1 mbar
High / Medium / Rough Vacuum Classification	Rough Vacuum Pump
Dry or Wet Pump	Wet
Vacuum Pump Technology	Liquid Ring Pump

Variants

variantLrpMaterialOfConstruction	CI
	CI - Cast Iron

Material of Construction

Material Of Construction	Grey cast iron, Carbon steel, Spheroidal graphite (ductile) cast iron, Stainless steel 420 (1), Stainless steel 420 (2), Tungsten (4), Nitrile, Stainless steel 316, Stainless steel 304, PTFE, Compressed fibre, Polyester urethane, Ball, Brass
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General Product Information

Connection Vacuum Inlet Flange	DN 150
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Weight	924.00 <u>kg</u> ▼
Connection vacuum outlet flange	DN 150
Dimension Length	1.38 <u>m</u> ▼
IP Rating	IP54
Supply Frequency	50 Hz
	60 Hz
Dimension Height	1.04 <u>m</u> ▼
Dimension Width	0.720 <u>m</u> ▼
Noise Level	85.00 db(A)
Cooling Method	Water Cooling
Connection Cooling	1" BSPP (G) Female
connectionVacuumFlangeCombined	DN 150 / DN 150
dimensionComments	The dimensions length, width and height try to describe the outer shape of this particular product in its typical orientation when standing on the ground. We always recommend checking the detailed dimensions given in 2D drawings in the instruction manual or the 3D shapes given in 3D models.

Performance Data

Power Total Rated	75000.00 <u>W</u> ▼
Power Total Rated @60Hz	90000.00 <u>W</u> ▼
Power Total Rated @50Hz	75000.00 <u>W</u> ▼

Rotational Speed @50Hz Nominal	12.33 <u>Hz</u> ▼
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Pressure Ultimate	3300.00 <u>Pa</u> ▼
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Rotational Speed @60Hz Nominal	14.83 <u>Hz</u> ▼
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Capacity Air / Nitrogen @50Hz Nominal	0.681 <u>m³/s</u> ▼
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Capacity Air / Nitrogen @60Hz Nominal	0.772 <u>m³/s</u> ▼
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Operation Conditions - Limitations

Altitude Max.	1000.00 <u>m</u> ▼
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Temperature Inlet Gas Max.	353.15 <u>K</u> ▼
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pressureOutletMaxContinuous	1.200 × 10 ⁵ <u>Pa</u> ▼
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Environmental Conditions

Temperature Ambient Operation Max	323.15 <u>K</u> ▼
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Temperature Ambient Operation Min.	253.15 <u>K</u> ▼
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Temperature Ambient Storage Min.	243.15 <u>K</u> ▼
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Temperature Ambient Storage Max.	323.15 <u>K</u> ▼
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Lubricants

Grease Type	DIN51825 K2K-30
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LR1A1600 - Liquid Ring Vacuum Pump CI

Part Number: **LR1A1600BA10**

Specifications

Connection Vacuum Inlet Flange	DN 150
Connection vacuum outlet flange	DN 150
Cooling Method	Water Cooling
Pressure Ultimate	3300.00 <u>Pa</u> ▼
Power Total Rated	45000.00 <u>W</u> ▼

Variant

Explore the range of variants given below to compare the product

SHORT DESCRIPTION	PART NUMBER
☒ LR1A1600 CI	LR1A1600BA10
☐ LR1A1600 SS fitted	LR1A1600BA50
☐ LR1A1600 SS	LR1A1600BA70

PRODUCT DETAILS



Liquid Ring Pumps Single-Stage Plate

Liquid ring vacuum pumps are positive displacement pumps that use a ring of liquid to create a seal between the vanes or impeller and the pump housing, creating a vacuum and pumping gas or vapor out of a chamber. They are rugged, reliable and widely used in

applications ranging from chemical processing, paper and pulp industry, power generation, and wastewater treatment. They excel at handling condensable vapors and liquid slugs, making them ideal for wet applications with high levels of contamination.

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Tailored for the most demanding applications in process industries, our liquid ring pump range comprises both one and two-stage machines, ensuring optimum efficiency across a broad vacuum range. With capacities reaching up to 40,000 m³/h in one stage and 7,500 m³/h in two-stage models, these pumps deliver powerful performance.

LR1A

For rough vacuum applications in the chemical and allied process industries

The LR Series, including LR1A and LR1B single-stage models, are tolerant of particulates and operate with minimal maintenance and noise, making them ideal for your continuous operations in the power, chemical and process industries.

Features and Benefits

- Efficiency and Power: Experience unparalleled efficiency with our one and two-stage liquid ring pumps, perfect for processes operating at various vacuum levels.
- Innovation Redefined: Explore our ELRi range, a revolutionary line of intelligent and connected liquid ring vacuum pumps, integrating years of expertise and innovative technical advancements.
- Customized Solutions: Benefit from our extensive experience in designing, engineering, and assembling bespoke liquid ring pump and hybrid vacuum systems. We provide tailored solutions for diverse process applications, meeting unique customer requirements.
- Count on Edwards for top-quality Liquid Ring Pumps, designed to excel in the most challenging industrial environments. Enhance your processes with our reliable, efficient, and customized vacuum solutions.

SPECIFICATIONS ➤

Classification

Product Pressure Range	Rough Vacuum: 1000 mbar - 1 mbar
High / Medium / Rough Vacuum Classification	Rough Vacuum Pump
Dry or Wet Pump	Wet
Vacuum Pump Technology	Liquid Ring Pump

Variants

variantLrpMaterialOfConstruction	CI
	CI - Cast Iron

General Product Information

Connection Vacuum Inlet Flange	DN 150
Weight	887.00 kg 
Connection vacuum outlet flange	DN 150
Dimension Length	1.23 m 
IP Rating	IP54
Supply Frequency	50 Hz
	60 Hz
Dimension Height	1.04 m 
Dimension Width	0.720 m 
Noise Level	85.00 db(A)
Cooling Method	Water Cooling
Connection Cooling	1" BSPP (G) Female
connectionVacuumFlangeCombined	DN 150 / DN 150
dimensionComments	The dimensions length, width and height try to describe the outer shape of this particular product in its typical orientation when standing on the ground. We always recommend checking the detailed dimensions given in 2D drawings in the instruction manual or the 3D shapes given in 3D models.

Performance Data

Power Total Rated	45000.00 W 
Power Total Rated @60Hz	75000.00 W 

Power Total Rated @50Hz	45000.00 <u>W</u> ▼
Rotational Speed @50Hz Nominal	12.33 <u>Hz</u> ▼
Pressure Ultimate	3300.00 <u>Pa</u> ▼
Rotational Speed @60Hz Nominal	14.67 <u>Hz</u> ▼
Capacity Air / Nitrogen @50Hz Nominal	0.472 <u>m³/s</u> ▼
Capacity Air / Nitrogen @60Hz Nominal	0.556 <u>m³/s</u> ▼

Operation Conditions - Limitations

Altitude Max.	1000.00 <u>m</u> ▼
Temperature Inlet Gas Max.	353.15 <u>K</u> ▼
pressureOutletMaxContinuous	1.200 × 10 ⁵ <u>Pa</u> ▼

Environmental Conditions

Temperature Ambient Operation Max	323.15 <u>K</u> ▼
Temperature Ambient Operation Min.	253.15 <u>K</u> ▼
Temperature Ambient Storage Min.	243.15 <u>K</u> ▼
Temperature Ambient Storage Max.	323.15 <u>K</u> ▼

Material of Construction

Material Of Construction	Grey cast iron, Carbon steel, Spheroidal graphite (ductile) cast iron, Stainless steel 420 (1), Stainless steel 420 (2), Tungsten (4), Nitrile, Stainless steel 316, Stainless steel 304, PTFE, Compressed fibre, Polyester urethane, Ball, Brass
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Lubricants

Grease Type	DIN51825 K2K-30
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LR1A1300 - Liquid Ring Vacuum Pump CI

Part Number: **LR1A1300BA10**

Specifications

Connection Vacuum Inlet Flange	DN 125
Connection vacuum outlet flange	DN 125
Cooling Method	Water Cooling
Pressure Ultimate	3300.00 <u>Pa</u> ▼
Power Total Rated	37000.00 <u>W</u> ▼

Variant

Explore the range of variants given below to compare the product

SHORT DESCRIPTION	PART NUMBER
☒ LR1A1300 CI	LR1A1300BA10
☐ LR1A1300 SS fitted	LR1A1300BA50
☐ LR1A1300 SS	LR1A1300BA70

PRODUCT DETAILS



Liquid Ring Pumps Single-Stage Plate

Liquid ring vacuum pumps are positive displacement pumps that use a ring of liquid to create a seal between the vanes or impeller and the pump housing, creating a vacuum and pumping gas or vapor out of a chamber. They are rugged, reliable and widely used in

applications ranging from chemical processing, paper and pulp industry, power generation, and wastewater treatment. They excel at handling condensable vapors and liquid slugs, making them ideal for wet applications with high levels of contamination.

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LR1A

For rough vacuum applications in the chemical and allied process industries

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Features and Benefits

Efficiency and Power: Experience unparalleled efficiency with our one and two-stage liquid ring pumps, perfect for processes operating at various vacuum levels.

Innovation Redefined: Explore our ELRi range, a revolutionary line of intelligent and connected liquid ring vacuum pumps, integrating years of expertise and innovative technical advancements.

Customized Solutions: Benefit from our extensive experience in designing, engineering, and assembling bespoke liquid ring pump and hybrid vacuum systems. We provide tailored solutions for diverse process applications, meeting unique customer requirements.

Count on Edwards for top-quality Liquid Ring Pumps, designed to excel in the most challenging industrial environments. Enhance your processes with our reliable, efficient, and customized vacuum solutions.

SPECIFICATIONS

➤

General Product Information

Connection Vacuum Inlet Flange	DN 125
Weight	550.00 <u>kg</u> ▼
Connection vacuum outlet flange	DN 125
Dimension Length	1.13 <u>m</u> ▼
IP Rating	IP54

Supply Frequency	50 Hz
	60 Hz
Dimension Height	0.840 <u>m</u> ▼
Dimension Width	0.560 <u>m</u> ▼
Noise Level	85.00 db(A)
Cooling Method	Water Cooling
Connection Cooling	3/4" BSPP (G) Female
connectionVacuumFlangeCombined	DN 125 / DN 125
dimensionComments	The dimensions length, width and height try to describe the outer shape of this particular product in its typical orientation when standing on the ground. We always recommend checking the detailed dimensions given in 2D drawings in the instruction manual or the 3D shapes given in 3D models.

Performance Data

Power Total Rated	37000.00 <u>W</u> ▼
Power Total Rated @60Hz	55000.00 <u>W</u> ▼
Power Total Rated @50Hz	37000.00 <u>W</u> ▼
Rotational Speed @50Hz Nominal	16.33 <u>Hz</u> ▼
Pressure Ultimate	3300.00 <u>Pa</u> ▼
Rotational Speed @60Hz Nominal	19.50 <u>Hz</u> ▼
Capacity Air / Nitrogen @50Hz Nominal	0.342 <u>m³/s</u> ▼
Capacity Air / Nitrogen @60Hz Nominal	0.403 <u>m³/s</u> ▼

Operation Conditions - Limitations

Altitude Max.	1000.00 <u>m</u> ▼
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Temperature Inlet Gas Max.	353.15 <u>K</u> ▼
pressureOutletMaxContinous	1.200 × 10 ⁵ <u>Pa</u> ▼
Environmental Conditions	
Temperature Ambient Operation Max	323.15 <u>K</u> ▼
Temperature Ambient Operation Min.	253.15 <u>K</u> ▼
Temperature Ambient Storage Min.	243.15 <u>K</u> ▼
Temperature Ambient Storage Max.	323.15 <u>K</u> ▼
Classification	
Product Pressure Range	Rough Vacuum: 1000 mbar - 1 mbar
High / Medium / Rough Vacuum Classification	Rough Vacuum Pump
Dry or Wet Pump	Wet
Vacuum Pump Technology	Liquid Ring Pump
Material of Construction	
Material Of Construction	Grey cast iron, Carbon steel, Spheroidal graphite (ductile) cast iron, Stainless steel 420 (1), Stainless steel 420 (2), Tungsten (4), Nitrile, Stainless steel 316, Stainless steel 304, PTFE, Compressed fibre, Polyester urethane, Ball, Brass
Lubricants	
Grease Type	DIN51825 K2K-30
Variants	
variantLrpMaterialOfConstruction	CI
	CI - Cast Iron



LR1A1200 - Liquid Ring Vacuum Pump CI

Part Number: **LR1A1200BA10**

Specifications

Connection Vacuum Inlet Flange	DN 125
Connection vacuum outlet flange	DN 125
Cooling Method	Water Cooling
Pressure Ultimate	3300.00 <u>Pa</u> ▼
Power Total Rated	37000.00 <u>W</u> ▼

Variant

Explore the range of variants given below to compare the product

	SHORT DESCRIPTION	PART NUMBER
☒	LR1A1200 CI	LR1A1200BA10
☐	LR1A1200 SS fitted	LR1A1200BA50
☐	LR1A1200 SS	LR1A1200BA70

PRODUCT DETAILS



Liquid Ring Pumps Single-Stage Plate

Liquid ring vacuum pumps are positive displacement pumps that use a ring of liquid to create a seal between the vanes or impeller and the pump housing, creating a vacuum and pumping gas or vapor out of a chamber. They are rugged, reliable and widely used in applications ranging from chemical processing, paper and pulp industry, power generation, and wastewater treatment. They excel at handling condensable vapors and liquid slugs, making them ideal for wet applications with high levels of contamination.

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LR1A

For rough vacuum applications in the chemical and allied process industries

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Features and Benefits

- Efficiency and Power: Experience unparalleled efficiency with our one and two-stage liquid ring pumps, perfect for processes operating at various vacuum levels.
- Innovation Redefined: Explore our ELRi range, a revolutionary line of intelligent and connected liquid ring vacuum pumps, integrating years of expertise and innovative technical advancements.
- Customized Solutions: Benefit from our extensive experience in designing, engineering, and assembling bespoke liquid ring pump and hybrid vacuum systems. We provide tailored solutions for diverse process applications, meeting unique customer requirements.
- Count on Edwards for top-quality Liquid Ring Pumps, designed to excel in the most challenging industrial environments. Enhance your processes with our reliable, efficient, and customized vacuum solutions.

SPECIFICATIONS

▼

Classification

Product Pressure Range	Rough Vacuum: 1000 mbar - 1 mbar
High / Medium / Rough Vacuum Classification	Rough Vacuum Pump
Dry or Wet Pump	Wet
Vacuum Pump Technology	Liquid Ring Pump

Variants

variantLrpMaterialOfConstruction	CI
	CI - Cast Iron

General Product Information

Connection Vacuum Inlet Flange	DN 125
Weight	515.00 <u>kg</u> ▼
Connection vacuum outlet flange	DN 125
Dimension Length	1.09 <u>m</u> ▼
IP Rating	IP54
Supply Frequency	50 Hz
	60 Hz
Dimension Height	0.840 <u>m</u> ▼
Dimension Width	0.560 <u>m</u> ▼
Noise Level	85.00 db(A)
Cooling Method	Water Cooling
Connection Cooling	3/4" BSPP (G) Female
connectionVacuumFlangeCombined	DN 125 / DN 125
dimensionComments	The dimensions length, width and height try to describe the outer shape of this particular product in its typical orientation when standing on the ground. We always recommend checking the detailed dimensions given in 2D drawings in the instruction manual or the 3D shapes given in 3D models.

Performance Data

Power Total Rated	37000.00 <u>W</u> ▼
Power Total Rated @60Hz	45000.00 <u>W</u> ▼
Power Total Rated @50Hz	37000.00 <u>W</u> ▼
Rotational Speed @50Hz Nominal	16.33 <u>Hz</u> ▼
Pressure Ultimate	3300.00 <u>Pa</u> ▼
Rotational Speed @60Hz Nominal	19.50 <u>Hz</u> ▼
Capacity Air / Nitrogen @50Hz Nominal	0.300 <u>m³/s</u> ▼
Capacity Air / Nitrogen @60Hz Nominal	0.367 <u>m³/s</u> ▼

Operation Conditions - Limitations

Altitude Max.	1000.00 <u>m</u> ▼
Temperature Inlet Gas Max.	353.15 <u>K</u> ▼
pressureOutletMaxContinuous	1.200×10^5 <u>Pa</u> ▼

Environmental Conditions

Temperature Ambient Operation Max	323.15 <u>K</u> ▼
Temperature Ambient Operation Min.	253.15 <u>K</u> ▼
Temperature Ambient Storage Min.	243.15 <u>K</u> ▼
Temperature Ambient Storage Max.	323.15 <u>K</u> ▼

Material of Construction

Material Of Construction	Grey cast iron, Carbon steel, Spheroidal graphite (ductile) cast iron, Stainless steel 420 (1), Stainless steel 420 (2), Tungsten (4), Nitrile, Stainless steel 316, Stainless steel 304, PTFE, Compressed fibre, Polyester urethane, Ball, Brass
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Lubricants

Grease Type	DIN51825 K2K-30
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LR1A1200 - Liquid Ring Vacuum Pump CI

Part Number: **LR1A1200BA10**

Specifications

Connection Vacuum Inlet Flange	DN 125
Connection vacuum outlet flange	DN 125
Cooling Method	Water Cooling
Pressure Ultimate	3300.00 <u>Pa</u> ▼
Power Total Rated	37000.00 <u>W</u> ▼

Variant

Explore the range of variants given below to compare the product

	SHORT DESCRIPTION	PART NUMBER
☒	LR1A1200 CI	LR1A1200BA10
☐	LR1A1200 SS fitted	LR1A1200BA50
☐	LR1A1200 SS	LR1A1200BA70

PRODUCT DETAILS



Liquid Ring Pumps Single-Stage Plate

Liquid ring vacuum pumps are positive displacement pumps that use a ring of liquid to create a seal between the vanes or impeller and the pump housing, creating a vacuum and pumping gas or vapor out of a chamber. They are rugged, reliable and widely used in applications ranging from chemical processing, paper and pulp industry, power generation, and wastewater treatment. They excel at handling condensable vapors and liquid slugs, making them ideal for wet applications with high levels of contamination.

Discover our cutting-edge Liquid Ring Vacuum Pumps, EHR Series and SHR Series, meticulously designed by Edwards.

Tailored for the most demanding applications in process industries, our liquid ring pump range comprises both one and two-stage machines, ensuring optimum efficiency across a broad vacuum range. With capacities reaching up to 40,000 m3/h in one stage and 7,500 m3/h in two-stage models, these pumps deliver powerful performance.

LR1A

For rough vacuum applications in the chemical and allied process industries

The LR Series, including LR1A and LR1B single-stage models, are tolerant of particulates and operate with minimal maintenance and noise, making them ideal for your continuous operations in the power, chemical and process industries.

Features and Benefits

- Efficiency and Power: Experience unparalleled efficiency with our one and two-stage liquid ring pumps, perfect for processes operating at various vacuum levels.
- Innovation Redefined: Explore our ELRi range, a revolutionary line of intelligent and connected liquid ring vacuum pumps, integrating years of expertise and innovative technical advancements.
- Customized Solutions: Benefit from our extensive experience in designing, engineering, and assembling bespoke liquid ring pump and hybrid vacuum systems. We provide tailored solutions for diverse process applications, meeting unique customer requirements.
- Count on Edwards for top-quality Liquid Ring Pumps, designed to excel in the most challenging industrial environments. Enhance your processes with our reliable, efficient, and customized vacuum solutions.

SPECIFICATIONS ➤

Classification

Product Pressure Range	Rough Vacuum: 1000 mbar - 1 mbar
High / Medium / Rough Vacuum Classification	Rough Vacuum Pump
Dry or Wet Pump	Wet
Vacuum Pump Technology	Liquid Ring Pump

Variants

variantLrpMaterialOfConstruction	CI
	CI - Cast Iron

General Product Information

Connection Vacuum Inlet Flange	DN 125
Weight	515.00 <u>kg</u> ▼
Connection vacuum outlet flange	DN 125
Dimension Length	1.09 <u>m</u> ▼
IP Rating	IP54
Supply Frequency	50 Hz
	60 Hz
Dimension Height	0.840 <u>m</u> ▼
Dimension Width	0.560 <u>m</u> ▼
Noise Level	85.00 db(A)
Cooling Method	Water Cooling
Connection Cooling	3/4" BSPP (G) Female
connectionVacuumFlangeCombined	DN 125 / DN 125
dimensionComments	The dimensions length, width and height try to describe the outer shape of this particular product in its typical orientation when standing on the ground. We always recommend checking the detailed dimensions given in 2D drawings in the instruction manual or the 3D shapes given in 3D models.

Performance Data

Power Total Rated	37000.00 <u>W</u> ▼
Power Total Rated @60Hz	45000.00 <u>W</u> ▼
Power Total Rated @50Hz	37000.00 <u>W</u> ▼
Rotational Speed @50Hz Nominal	16.33 <u>Hz</u> ▼
Pressure Ultimate	3300.00 <u>Pa</u> ▼
Rotational Speed @60Hz Nominal	19.50 <u>Hz</u> ▼
Capacity Air / Nitrogen @50Hz Nominal	0.300 <u>m³/s</u> ▼
Capacity Air / Nitrogen @60Hz Nominal	0.367 <u>m³/s</u> ▼

Operation Conditions - Limitations

Altitude Max.	1000.00 <u>m</u> ▼
Temperature Inlet Gas Max.	353.15 <u>K</u> ▼
pressureOutletMaxContinuous	1.200×10^5 <u>Pa</u> ▼

Environmental Conditions

Temperature Ambient Operation Max	323.15 <u>K</u> ▼
Temperature Ambient Operation Min.	253.15 <u>K</u> ▼
Temperature Ambient Storage Min.	243.15 <u>K</u> ▼
Temperature Ambient Storage Max.	323.15 <u>K</u> ▼

Material of Construction

Material Of Construction	Grey cast iron, Carbon steel, Spheroidal graphite (ductile) cast iron, Stainless steel 420 (1), Stainless steel 420 (2), Tungsten (4), Nitrile, Stainless steel 316, Stainless steel 304, PTFE, Compressed fibre, Polyester urethane, Ball, Brass
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Lubricants

Grease Type	DIN51825 K2K-30
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LR1A800 - Liquid Ring Vacuum Pump CI

Part Number: **LR1A0800BA10**

Specifications

Connection Vacuum Inlet Flange	DN 125
Connection vacuum outlet flange	DN 125
Cooling Method	Water Cooling
Pressure Ultimate	3300.00 Pa
Power Total Rated	22000.00 W

Variant

Explore the range of variants given below to compare the product

	SHORT DESCRIPTION	PART NUMBER
☒	LR1A800 CI	LR1A0800BA10
☐	LR1A800 SS fitted	LR1A0800BA50
☐	LR1A800 SS	LR1A0800BA70

Liquid Ring Pumps Single-Stage Plate

Liquid ring vacuum pumps are positive displacement pumps that use a ring of liquid to create a seal between the vanes or impeller and the pump housing, creating a vacuum and pumping gas or vapor out of a chamber. They are rugged, reliable and widely used in applications ranging from chemical processing, paper and pulp industry, power generation, and wastewater treatment. They excel at handling condensable vapors and liquid slugs, making them ideal for wet applications with high levels of contamination.

Discover our cutting-edge Liquid Ring Vacuum Pumps, EHR Series and SHR Series, meticulously designed by Edwards.

Tailored for the most demanding applications in process industries, our liquid ring pump range comprises both one and two-stage machines, ensuring optimum efficiency across a broad vacuum range. With capacities reaching up to 40,000 m³/h in one stage and 7,500 m³/h in two-stage models, these pumps deliver powerful performance.

LR1A

For rough vacuum applications in the chemical and allied process industries

The LR Series, including LR1A and LR1B single-stage models, are tolerant of particulates and operate with minimal maintenance and noise, making them ideal for your continuous operations in the power, chemical and process industries.

Features and Benefits

Efficiency and Power: Experience unparalleled efficiency with our one and two-stage liquid ring pumps, perfect for processes operating at various vacuum levels.

Innovation Redefined: Explore our ELRi range, a revolutionary line of intelligent and connected liquid ring vacuum pumps, integrating years of expertise and innovative technical advancements.

Customized Solutions: Benefit from our extensive experience in designing, engineering, and assembling bespoke liquid ring pump and hybrid vacuum systems. We provide tailored solutions for diverse process applications, meeting unique customer requirements.

Count on Edwards for top-quality Liquid Ring Pumps, designed to excel in the most challenging industrial environments. Enhance your processes with our reliable, efficient, and customized vacuum solutions.

SPECIFICATIONS

➤

Classification

Product Pressure Range	Rough Vacuum: 1000 mbar - 1 mbar
High / Medium / Rough Vacuum Classification	Rough Vacuum Pump
Dry or Wet Pump	Wet
Vacuum Pump Technology	Liquid Ring Pump

Variants

variantLrpMaterialOfConstruction	CI
	CI - Cast Iron

General Product Information

Connection Vacuum Inlet Flange	DN 125
Weight	433.00 <u>kg</u> ▼
Connection vacuum outlet flange	DN 125
Dimension Length	0.960 <u>m</u> ▼

Supply Frequency	50 Hz
	60 Hz
Dimension Height	0.840 <u>m</u> ▼
Dimension Width	0.560 <u>m</u> ▼
Noise Level	85.00 db(A)
Cooling Method	Water Cooling
Connection Cooling	3/4" BSPP (G) Female
connectionVacuumFlangeCombined	DN 125 / DN 125
dimensionComments	The dimensions length, width and height try to describe the outer shape of this particular product in its typical orientation when standing on the ground. We always recommend checking the detailed dimensions given in 2D drawings in the instruction manual or the 3D shapes given in 3D models.

Performance Data

Power Total Rated	22000.00 <u>W</u> ▼
Power Total Rated @60Hz	30000.00 <u>W</u> ▼
Power Total Rated @50Hz	22000.00 <u>W</u> ▼
Rotational Speed @50Hz Nominal	16.33 <u>Hz</u> ▼
Pressure Ultimate	3300.00 <u>Pa</u> ▼
Rotational Speed @60Hz Nominal	19.50 <u>Hz</u> ▼

Capacity Air / Nitrogen @50Hz Nominal	0.208 <u>m³/s</u> ▼
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Capacity Air / Nitrogen @60Hz Nominal	0.247 <u>m³/s</u> ▼
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Operation Conditions - Limitations

Altitude Max.	1000.00 <u>m</u> ▼
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Temperature Inlet Gas Max.	353.15 <u>K</u> ▼
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pressureOutletMaxContinuous	1.200 × 10 ⁵ <u>Pa</u> ▼
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Environmental Conditions

Temperature Ambient Operation Max	323.15 <u>K</u> ▼
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Temperature Ambient Operation Min.	253.15 <u>K</u> ▼
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Temperature Ambient Storage Min.	243.15 <u>K</u> ▼
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Temperature Ambient Storage Max.	323.15 <u>K</u> ▼
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Material of Construction

Material Of Construction	Grey cast iron, Carbon steel, Spheroidal graphite (ductile) cast iron, Stainless steel 420 (1), Stainless steel 420 (2), Tungsten (4), Nitrile, Stainless steel 316, Stainless steel 304, PTFE, Compressed fibre, Polyester urethane, Ball, Brass
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LR1A700 - Liquid Ring Vacuum Pump CI

Part Number: **LR1A0700BA10**

Specifications

Connection Vacuum Inlet Flange	DN 100
Connection vacuum outlet flange	DN 100
Cooling Method	Water Cooling
Pressure Ultimate	3300.00 Pa 

Power Total Rated	18500.00 W 
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Variant

Explore the range of variants given below to compare the product

	SHORT DESCRIPTION	PART NUMBER
☒	LR1A700 CI	LR1A0700BA10
☐	LR1A700 SS fitted	LR1A0700BA50
☐	LR1A700 SS	LR1A0700BA70

Liquid Ring Pumps Single-Stage Plate

Liquid ring vacuum pumps are positive displacement pumps that use a ring of liquid to create a seal between the vanes or impeller and the pump housing, creating a vacuum and pumping gas or vapor out of a chamber. They are rugged, reliable and widely used in applications ranging from chemical processing, paper and pulp industry, power generation, and wastewater treatment. They excel at handling condensable vapors and liquid slugs, making them ideal for wet applications with high levels of contamination.

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LR1A

For rough vacuum applications in the chemical and allied process industries

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Features and Benefits

Efficiency and Power: Experience unparalleled efficiency with our one and two-stage liquid ring pumps, perfect for processes operating at various vacuum levels.

Innovation Redefined: Explore our ELRi range, a revolutionary line of intelligent and connected liquid ring vacuum pumps, integrating years of expertise and innovative technical advancements.

Customized Solutions: Benefit from our extensive experience in designing, engineering, and assembling bespoke liquid ring pump and hybrid vacuum systems. We provide tailored solutions for diverse process applications, meeting unique customer requirements.

Count on Edwards for top-quality Liquid Ring Pumps, designed to excel in the most challenging industrial environments. Enhance your processes with our reliable, efficient, and customized vacuum solutions.

SPECIFICATIONS

➤

Classification

Product Pressure Range	Rough Vacuum: 1000 mbar - 1 mbar
High / Medium / Rough Vacuum Classification	Rough Vacuum Pump
Dry or Wet Pump	Wet
Vacuum Pump Technology	Liquid Ring Pump

Variants

variantLrpMaterialOfConstruction	CI
	CI - Cast Iron

General Product Information

Connection Vacuum Inlet Flange	DN 100
Weight	260.00 <u>kg</u> ▼
Connection vacuum outlet flange	DN 100
Dimension Length	0.900 <u>m</u> ▼
IP Rating	IP54

Supply Frequency	50 Hz
	60 Hz
Dimension Height	0.610 <u>m</u> ▼
Dimension Width	0.480 <u>m</u> ▼
Noise Level	85.00 db(A)
Cooling Method	Water Cooling
Connection Cooling	1/2" BSPP (G) Female
connectionVacuumFlangeCombined	DN 100 / DN 100
dimensionComments	The dimensions length, width and height try to describe the outer shape of this particular product in its typical orientation when standing on the ground. We always recommend checking the detailed dimensions given in 2D drawings in the instruction manual or the 3D shapes given in 3D models.

Performance Data

Power Total Rated	18500.00 <u>W</u> ▼
Power Total Rated @60Hz	30000.00 <u>W</u> ▼
Power Total Rated @50Hz	18500.00 <u>W</u> ▼
Rotational Speed @50Hz Nominal	24.17 <u>Hz</u> ▼
Pressure Ultimate	3300.00 <u>Pa</u> ▼
Rotational Speed @60Hz Nominal	29.17 <u>Hz</u> ▼

Capacity Air / Nitrogen @50Hz Nominal	0.167 <u>m³/s</u> ▼
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Capacity Air / Nitrogen @60Hz Nominal	0.194 <u>m³/s</u> ▼
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Operation Conditions - Limitations

Altitude Max.	1000.00 <u>m</u> ▼
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Temperature Inlet Gas Max.	353.15 <u>K</u> ▼
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pressureOutletMaxContinuous	1.200 × 10 ⁵ <u>Pa</u> ▼
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Environmental Conditions

Temperature Ambient Operation Max	323.15 <u>K</u> ▼
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Temperature Ambient Operation Min.	253.15 <u>K</u> ▼
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Temperature Ambient Storage Min.	243.15 <u>K</u> ▼
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Temperature Ambient Storage Max.	323.15 <u>K</u> ▼
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Material of Construction

Material Exposed To Vacuum	Grey cast iron, Carbon steel, Spheroidal graphite (ductile) cast iron, Stainless steel 420 (1), Stainless steel 420 (2), Tungsten (4), Nitrile, Stainless steel 316, Stainless steel 304, PTFE, Compressed fibre, Polyester urethane, Ball, Brass
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Lubricants

Grease Type	DIN51825 K2K-30
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LR1A500 - Liquid Ring Vacuum Pump CI

Part Number: **LR1A0500BA10**

Specifications

Connection Vacuum Inlet Flange	DN 100
Connection vacuum outlet flange	DN 100
Cooling Method	Water Cooling

Variant

Explore the range of variants given below to compare the product

	SHORT DESCRIPTION	PART NUMBER
☒	LR1A500 CI	LR1A0500BA10
☐	LR1A500 SS fitted	LR1A0500BA50
☐	LR1A500 SS	LR1A0500BA70

Liquid Ring Pumps Single-Stage Plate

Liquid ring vacuum pumps are positive displacement pumps that use a ring of liquid to create a seal between the vanes or impeller and the pump housing, creating a vacuum and pumping gas or vapor out of a chamber. They are rugged, reliable and widely used in applications ranging from chemical processing, paper and pulp industry, power generation, and wastewater treatment. They excel at handling condensable vapors and liquid slugs, making them ideal for wet applications with high levels of contamination.

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Tailored for the most demanding applications in process industries, our liquid ring pump range comprises both one and two-stage machines, ensuring optimum efficiency across a broad vacuum range. With capacities reaching up to 40,000 m³/h in one stage and 7,500 m³/h in two-stage models, these pumps deliver powerful performance.

LR1A

For rough vacuum applications in the chemical and allied process industries

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Features and Benefits

Efficiency and Power: Experience unparalleled efficiency with our one and two-stage liquid ring pumps, perfect for processes operating at various vacuum levels.

Innovation Redefined: Explore our ELRi range, a revolutionary line of intelligent and connected liquid ring vacuum pumps, integrating years of expertise and innovative technical advancements.

Customized Solutions: Benefit from our extensive experience in designing, engineering, and assembling bespoke liquid ring pump and hybrid vacuum systems. We provide tailored solutions for diverse process applications, meeting unique customer requirements.

Count on Edwards for top-quality Liquid Ring Pumps, designed to excel in the most challenging industrial environments. Enhance your processes with our reliable, efficient, and customized vacuum solutions.

SPECIFICATIONS



Classification

Product Pressure Range	Rough Vacuum: 1000 mbar - 1 mbar
High / Medium / Rough Vacuum Classification	Rough Vacuum Pump
Dry or Wet Pump	Wet
Vacuum Pump Technology	Liquid Ring Pump

Variants

variantLrpMaterialOfConstruction	CI
	CI - Cast Iron

General Product Information

Connection Vacuum Inlet Flange	DN 100
Weight	225.00 <u>kg</u> ▼
Connection vacuum outlet flange	DN 100
Dimension Length	0.840 <u>m</u> ▼
IP Rating	IP54

Supply Frequency	50 Hz
	60 Hz
Dimension Height	0.610 m 
Dimension Width	0.480 m 
Noise Level	85.00 db(A)
Cooling Method	Water Cooling
Connection Cooling	1/2" BSPP (G) Female
connectionVacuumFlangeCombined	DN 100 / DN 100
dimensionComments	The dimensions length, width and height try to describe the outer shape of this particular product in its typical orientation when standing on the ground. We always recommend checking the detailed dimensions given in 2D drawings in the instruction manual or the 3D shapes given in 3D models.

Material of Construction

Material Of Construction	Grey cast iron, Carbon steel, Spheroidal graphite (ductile) cast iron, Stainless steel 420 (1), Stainless steel 420 (2), Tungsten (4), Nitrile, Stainless steel 316, Stainless steel 304, PTFE, Compressed fibre, Polyester urethane, Ball, Brass
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Lubricants

Grease Type	DIN51825 K2K-30
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LR1A400 - Liquid Ring Vacuum Pump SS

Part Number: **LR1A0400BA70**

Specifications

Connection Vacuum Inlet Flange	DN 65
Connection vacuum outlet flange	DN 65
Cooling Method	Water Cooling
Pressure Ultimate	3300.00 <u>Pa</u> ▼
Power Total Rated	11000.00 <u>W</u> ▼

PRODUCT DETAILS



Liquid Ring Pumps Single-Stage Plate

Liquid ring vacuum pumps are positive displacement pumps that use a ring of liquid to create a seal between the vanes or impeller and the pump housing, creating a vacuum and pumping gas or vapor out of a chamber. They are rugged, reliable and widely used in applications ranging from chemical processing, paper and pulp industry, power generation, and wastewater treatment. They excel at handling condensable vapors and liquid slugs, making them ideal for wet applications with high levels of contamination.

Discover our cutting-edge Liquid Ring Vacuum Pumps, EHR Series and SHR Series, meticulously designed by Edwards.

Tailored for the most demanding applications in process industries, our liquid ring pump range comprises both one and two-stage machines, ensuring optimum efficiency across a broad vacuum range. With capacities reaching up to 40,000 m³/h in one stage and 7,500 m³/h in two-stage models, these pumps deliver powerful performance.

LR1A

For rough vacuum applications in the chemical and allied process industries

The LR Series, including LR1A and LR1B single-stage models, are tolerant of particulates and operate with minimal maintenance and noise, making them ideal for your continuous operations in the power, chemical and process industries.

Features and Benefits

Efficiency and Power: Experience unparalleled efficiency with our one and two-stage liquid ring pumps, perfect for processes operating at various vacuum levels.

Innovation Redefined: Explore our ELRi range, a revolutionary line of intelligent and connected liquid ring vacuum pumps, integrating years of expertise and innovative technical advancements.

Customized Solutions: Benefit from our extensive experience in designing, engineering, and assembling bespoke liquid ring pump and hybrid vacuum systems. We provide tailored solutions for diverse process applications, meeting unique customer requirements.

Count on Edwards for top-quality Liquid Ring Pumps, designed to excel in the most challenging industrial environments. Enhance your processes with our reliable, efficient, and customized vacuum solutions.

Classification

Product Pressure Range	Rough Vacuum: 1000 mbar - 1 mbar
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High / Medium / Rough Vacuum Classification	Rough Vacuum Pump
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Dry or Wet Pump	Wet
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Vacuum Pump Technology	Liquid Ring Pump
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Material of Construction

Material Of Construction	Stainless steel 316, Stainless steel 316 (1) / carbon steel (2, 3), Stainless steel 316 (2), Silicon carbide, FPM, PTFE, Anaerobic, Ball
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Variants

variantLrpMaterialOfConstruction	SS
	SS - Stainless Steel

General Product Information

Connection Vacuum Inlet Flange	DN 65
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Weight	190.00 kg ▼
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Connection vacuum outlet flange	DN 65
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Dimension Length	0.800 m ▼
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IP Rating	IP54
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Supply Frequency	50 Hz
	60 Hz
Dimension Height	0.560 <u>m</u> ▼
Dimension Width	0.400 <u>m</u> ▼
Noise Level	85.00 db(A)
Cooling Method	Water Cooling
Connection Cooling	1/2" BSPP (G) Female
connectionVacuumFlangeCombined	DN 65 / DN 65
dimensionComments	The dimensions length, width and height try to describe the outer shape of this particular product in its typical orientation when standing on the ground. We always recommend checking the detailed dimensions given in 2D drawings in the instruction manual or the 3D shapes given in 3D models.

Performance Data

Power Total Rated	11000.00 <u>W</u> ▼
Power Total Rated @60Hz	15000.00 <u>W</u> ▼
Power Total Rated @50Hz	11000.00 <u>W</u> ▼
Rotational Speed @50Hz Nominal	24.17 <u>Hz</u> ▼
Pressure Ultimate	3300.00 <u>Pa</u> ▼
Rotational Speed @60Hz Nominal	29.17 <u>Hz</u> ▼

Capacity Air / Nitrogen @50Hz Nominal	0.094 <u>m³/s</u> ▼
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Capacity Air / Nitrogen @60Hz Nominal	0.114 <u>m³/s</u> ▼
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Operation Conditions - Limitations

Altitude Max.	1000.00 <u>m</u> ▼
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Temperature Inlet Gas Max.	353.15 <u>K</u> ▼
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pressureOutletMaxContinuous	1.200 × 10 ⁵ <u>Pa</u> ▼
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Environmental Conditions

Temperature Ambient Operation Max	323.15 <u>K</u> ▼
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Temperature Ambient Operation Min.	253.15 <u>K</u> ▼
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Temperature Ambient Storage Min.	243.15 <u>K</u> ▼
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Temperature Ambient Storage Max.	323.15 <u>K</u> ▼
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Lubricants

Grease Type	DIN51825 K2K-30
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LR1A300 - Liquid Ring Vacuum Pump SS

Part Number: **LR1A0300BA70**

Specifications

Connection Vacuum Inlet Flange	DN 65
Connection vacuum outlet flange	DN 65
Cooling Method	Water Cooling
Pressure Ultimate	3300.00 <u>Pa</u> ▼
Power Total Rated	7500.00 <u>W</u> ▼

PRODUCT DETAILS



Liquid Ring Pumps Single-Stage Plate

Liquid ring vacuum pumps are positive displacement pumps that use a ring of liquid to create a seal between the vanes or impeller and the pump housing, creating a vacuum and pumping gas or vapor out of a chamber. They are rugged, reliable and widely used in applications ranging from chemical processing, paper and pulp industry, power generation, and wastewater treatment. They excel at handling condensable vapors and liquid slugs, making them ideal for wet applications with high levels of contamination.

Discover our cutting-edge Liquid Ring Vacuum Pumps, EHR Series and SHR Series, meticulously designed by Edwards.

Tailored for the most demanding applications in process industries, our liquid ring pump range comprises both one and two-stage machines, ensuring optimum efficiency across a broad vacuum range. With capacities reaching up to 40,000 m³/h in one stage and 7,500 m³/h in two-stage models, these pumps deliver powerful performance.

LR1A

For rough vacuum applications in the chemical and allied process industries

The LR Series, including LR1A and LR1B single-stage models, are tolerant of particulates and operate with minimal maintenance and noise, making them ideal for your continuous operations in the power, chemical and process industries.

Features and Benefits

Efficiency and Power: Experience unparalleled efficiency with our one and two-stage liquid ring pumps, perfect for processes operating at various vacuum levels.

Innovation Redefined: Explore our ELRi range, a revolutionary line of intelligent and connected liquid ring vacuum pumps, integrating years of expertise and innovative technical advancements.

Customized Solutions: Benefit from our extensive experience in designing, engineering, and assembling bespoke liquid ring pump and hybrid vacuum systems. We provide tailored solutions for diverse process applications, meeting unique customer requirements.

Count on Edwards for top-quality Liquid Ring Pumps, designed to excel in the most challenging industrial environments. Enhance your processes with our reliable, efficient, and customized vacuum solutions.

Classification

Product Pressure Range	Rough Vacuum: 1000 mbar - 1 mbar
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High / Medium / Rough Vacuum Classification	Rough Vacuum Pump
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Dry or Wet Pump	Wet
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Vacuum Pump Technology	Liquid Ring Pump
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Material of Construction

Material Of Construction	Stainless steel 316, Stainless steel 316 (1) / carbon steel (2, 3), Stainless steel 316 (2), Silicon carbide, FPM, PTFE, Anaerobic, Ball
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Performance Data

Power Total Rated	7500.00 <u>W</u> ▼
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Power Total Rated @60Hz	11000.00 <u>W</u> ▼
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Power Total Rated @50Hz	7500.00 <u>W</u> ▼
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Rotational Speed @50Hz Nominal	24.17 <u>Hz</u> ▼
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Pressure Ultimate	3300.00 <u>Pa</u> ▼
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Rotational Speed @60Hz Nominal	29.17 <u>Hz</u> ▼
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Capacity Air / Nitrogen @50Hz Nominal	0.041 <u>m³/s</u> ▼
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Capacity Air / Nitrogen @60Hz Nominal	0.081 <u>m³/s</u> ▼
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Variants

variantLrpMaterialOfConstruction	SS
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SS - Stainless Steel

General Product Information

Connection Vacuum Inlet Flange	DN 65
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Weight	175.00 <u>kg</u> ▼
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Connection vacuum outlet flange	DN 65
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Dimension Length	0.750 <u>m</u> ▼
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IP Rating	IP54
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Supply Frequency	50 Hz
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60 Hz

Dimension Height	0.560 <u>m</u> ▼
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Dimension Width	0.400 <u>m</u> ▼
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Noise Level	85.00 db(A)
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Cooling Method	Water Cooling
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Connection Cooling	1/2" BSPP (G) Female
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connectionVacuumFlangeCombined	DN 65 / DN 65
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dimensionComments	The dimensions length, width and height try to describe the outer shape of this particular product in its typical orientation when standing on the ground. We always recommend checking the detailed dimensions given in 2D drawings in the instruction manual or the 3D shapes given in 3D models.
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Operation Conditions - Limitations

Altitude Max.	1000.00 <u>m</u> ▼
Temperature Inlet Gas Max.	353.15 <u>K</u> ▼
pressureOutletMaxContinuous	1.200×10^5 <u>Pa</u> ▼

Environmental Conditions

Temperature Ambient Operation Max	323.15 <u>K</u> ▼
Temperature Ambient Operation Min.	253.15 <u>K</u> ▼
Temperature Ambient Storage Min.	243.15 <u>K</u> ▼
Temperature Ambient Storage Max.	323.15 <u>K</u> ▼

Lubricants

Grease Type	DIN51825 K2K-30
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LR1A200 - Liquid Ring Vacuum Pump SS

Part Number: **LR1A0200BA70**

Specifications

Connection Vacuum Inlet Flange	DN 50
Connection vacuum outlet flange	DN 50
Cooling Method	Water Cooling
Pressure Ultimate	3300.00 <u>Pa</u> ▼
Power Total Rated	5500.00 <u>W</u> ▼

Variant

Explore the range of variants given below to compare the product

	SHORT DESCRIPTION	PART NUMBER
☐	LR1A200 CI	LR1A0200BA10
☐	LR1A200 SS fitted	LR1A0200BA50
☒	LR1A200 SS	LR1A0200BA70

Liquid Ring Pumps Single-Stage Plate

Liquid ring vacuum pumps are positive displacement pumps that use a ring of liquid to create a seal between the vanes or impeller and the pump housing, creating a vacuum and pumping gas or vapor out of a chamber. They are rugged, reliable and widely used in applications ranging from chemical processing, paper and pulp industry, power generation, and wastewater treatment. They excel at handling condensable vapors and liquid slugs, making them ideal for wet applications with high levels of contamination.

Discover our cutting-edge Liquid Ring Vacuum Pumps, EHR Series and SHR Series, meticulously designed by Edwards.

Tailored for the most demanding applications in process industries, our liquid ring pump range comprises both one and two-stage machines, ensuring optimum efficiency across a broad vacuum range. With capacities reaching up to 40,000 m³/h in one stage and 7,500 m³/h in two-stage models, these pumps deliver powerful performance.

LR1A

For rough vacuum applications in the chemical and allied process industries

The LR Series, including LR1A and LR1B single-stage models, are tolerant of particulates and operate with minimal maintenance and noise, making them ideal for your continuous operations in the power, chemical and process industries.

Features and Benefits

Efficiency and Power: Experience unparalleled efficiency with our one and two-stage liquid ring pumps, perfect for processes operating at various vacuum levels.

Innovation Redefined: Explore our ELRi range, a revolutionary line of intelligent and connected liquid ring vacuum pumps, integrating years of expertise and innovative technical advancements.

Customized Solutions: Benefit from our extensive experience in designing, engineering, and assembling bespoke liquid ring pump and hybrid vacuum systems. We provide tailored solutions for diverse process applications, meeting unique customer requirements.

Count on Edwards for top-quality Liquid Ring Pumps, designed to excel in the most challenging industrial environments. Enhance your processes with our reliable, efficient, and customized vacuum solutions.

SPECIFICATIONS



Classification

Product Pressure Range	Rough Vacuum: 1000 mbar - 1 mbar
High / Medium / Rough Vacuum Classification	Rough Vacuum Pump
Dry or Wet Pump	Wet
Vacuum Pump Technology	Liquid Ring Pump

Material of Construction

Material Of Construction	Stainless steel 316, Stainless steel 316 (1) / carbon steel (2, 3), Stainless steel 316 (2), Silicon carbide, FPM, PTFE, Anaerobic, Ball
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Variants

variantLrpMaterialOfConstruction	SS
	SS - Stainless Steel

General Product Information

Connection Vacuum Inlet Flange	DN 50
Weight	90.00 kg
Connection vacuum outlet flange	DN 50

Dimension Length	0.650 <u>m</u> ▼
IP Rating	IP54
Supply Frequency	50 Hz
Dimension Height	0.360 <u>m</u> ▼
Dimension Width	0.520 <u>m</u> ▼
Noise Level	85.00 db(A)
Cooling Method	Water Cooling
Connection Cooling	1/2" BSPP (G) Female
connectionVacuumFlangeCombined	DN 50 / DN 50
dimensionComments	The dimensions length, width and height try to describe the outer shape of this particular product in its typical orientation when standing on the ground. We always recommend checking the detailed dimensions given in 2D drawings in the instruction manual or the 3D shapes given in 3D models.

Performance Data

Power Total Rated	5500.00 <u>W</u> ▼
Power Total Rated @60Hz	7500.00 <u>W</u> ▼
Power Total Rated @50Hz	5500.00 <u>W</u> ▼
Rotational Speed @50Hz Nominal	24.17 <u>Hz</u> ▼
Pressure Ultimate	3300.00 <u>Pa</u> ▼
Rotational Speed @60Hz Nominal	29.17 <u>Hz</u> ▼

Capacity Air / Nitrogen @50Hz Nominal	0.047 <u>m³/s</u> ▼
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Capacity Air / Nitrogen @60Hz Nominal	0.056 <u>m³/s</u> ▼
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Operation Conditions - Limitations

Altitude Max.	1000.00 <u>m</u> ▼
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Temperature Inlet Gas Max.	353.15 <u>K</u> ▼
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pressureOutletMaxContinuous	1.200 × 10 ⁵ <u>Pa</u> ▼
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Environmental Conditions

Temperature Ambient Operation Max	323.15 <u>K</u> ▼
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Temperature Ambient Operation Min.	253.15 <u>K</u> ▼
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Temperature Ambient Storage Min.	243.15 <u>K</u> ▼
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Temperature Ambient Storage Max.	323.15 <u>K</u> ▼
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Lubricants

Grease Type	DIN51825 K2K-30
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