

Dry Vacuum Pump

ULVAC

# LS Series



# High pumping speed and Low power consumption



## High pumping speed

High pumping speed at near atmospheric pressure, and pumping down time can be drastically reduced.



## Low power consumption

ECO-SHOCK technology realizes low power consumption. (C Type)  
Power consumption at the ultimate pressure is the industry-leading 0.6kW or less.(LS120A-C)



## Low noise

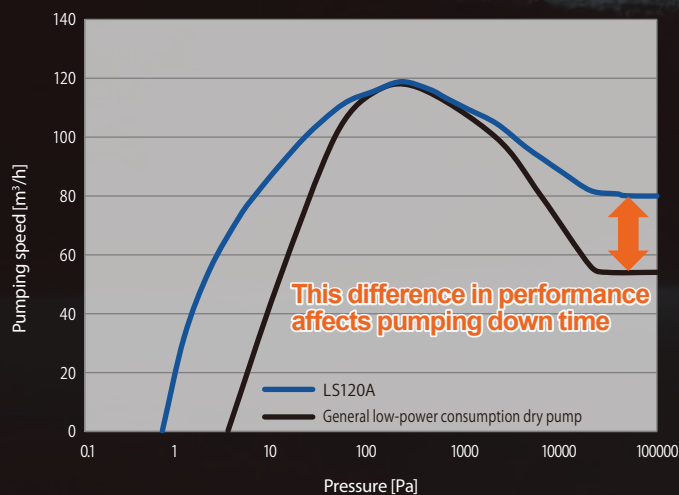
Built-in silencer achieves the noise level 61dB(A) or less.



## Low running-cost

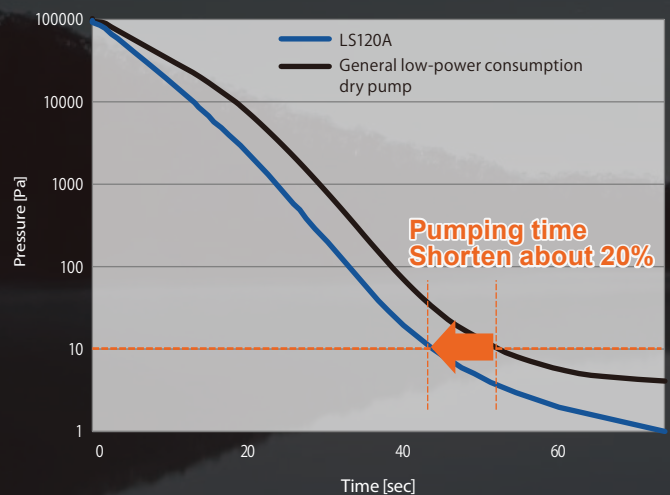
No shaft sealing gas.  
\*Purge gas is available with L Type.

## Difference in pumping speed



## Influence on pumping down time

Condition  
Chamber : 100L Piping : 2inches, 1m Target pressure : From ATM to 10Pa



\*This data is a calculated value. It may differ from the actual condition under the influence of the discharge Gas etc.



# 4 kinds of model

Pumping speed 120~1200m<sup>3</sup>/h Class \*With mecanical booster pump  
Model is selectable with the optimum pumping speed according to the application.



## LS120A



### LS300A



### LS600A



### LS1200A

## 2 types for specific application

C Type : Clean process (LS\*\*\*A-C)

Feature : Low power consumption model (with built-in ECO-SHOCK)

Applications : For clean process such as air and N<sub>2</sub>

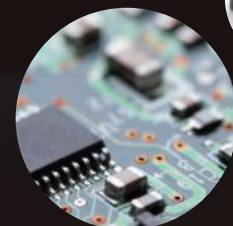
Sputtering / Vapor deposition / Lamination / Load lock room  
/ TMP backing pump etc.

L Type : Light process (LS\*\*\*A-L)

Features : Light process model (with surface treatment and purge function)

Applications : For light process such as steam and volatile liquid medicine

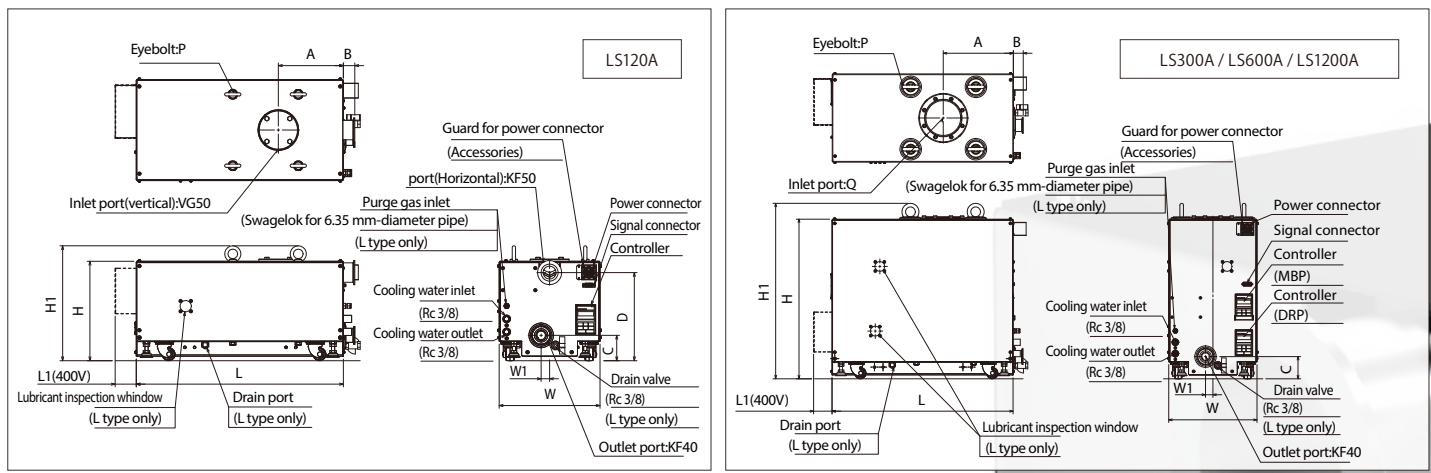
Vacuum drying / Freeze drying / Ashing / General industrial use etc.





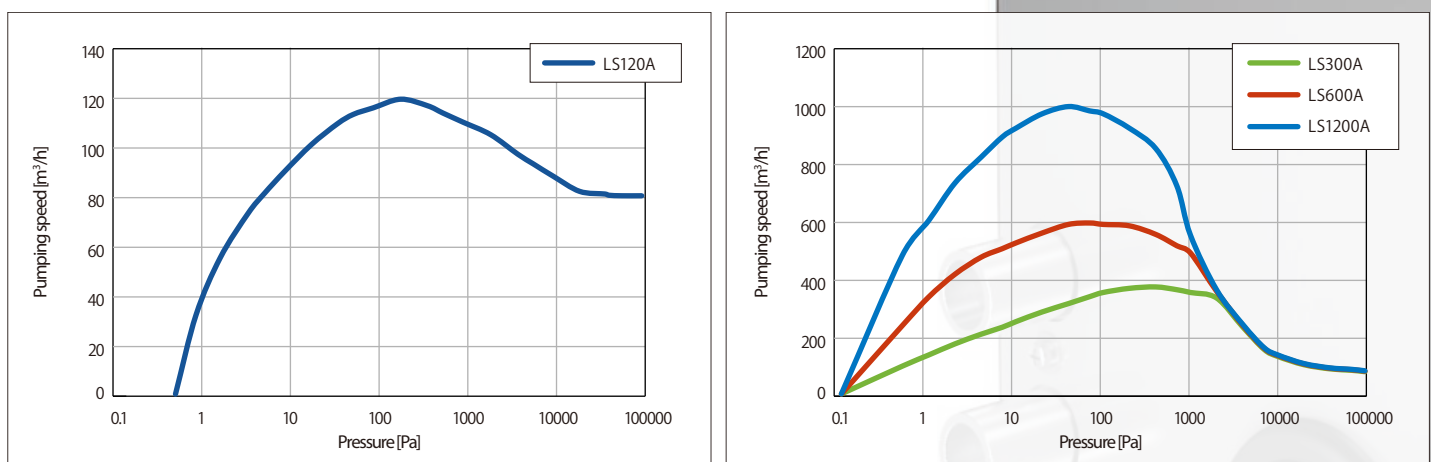
Model	(C : C Type) (L : L Type)	LS120A		LS300A		LS600A		LS1200A	
		C	L	C	L	C	L	C	L
Max. pumping speed	m <sup>3</sup> /h	120		380		600		1000	
Ultimate pressure	Pa	≤0.6				≤0.1			
Power supply		200V Class : 3Phase, 50/60Hz, AC200-240V or 400V Class : 3Phase, 50/60Hz, AC380-480V							
Power consumption *1	kW	0.6	2.0	1.0	2.5	1.3	2.6	1.3	2.7
Cooling water flow rate	L/min	>2.0				>4.0			
Purge gas flow rate *2	SLM	-	0~50	-	0~50	-	0~50	-	0~50
Max. water vapor tolerance *3	kg/h	-	1.5	-	1.5	-	1.5	-	1.5
Noise	dB(A)	61		61		62		64	
Inlet port		KF50(Horizontal)/VG50(Vertical)		ISO-F-50		ISO-F-80		ISO-F-100	
Outlet port		KF40							
Weight	kg	142		220		242		266	
Applicable standard		CE, cTUVus							
Standard accessory		Instruction manual(CD-R), Power connector, Waterproof cable clamp, Remote connector, Guard for power connector							
Pump head option		Power supply : 200V Class or 400V Class, Material of seal : FFKM(L type only)							
External option		MBP inlet flange adaptor, Packege Exhaust port, Earthquake-proof Bracket, LR compatible Unit(Inlet, Remote), Purge gas valve							

\*1 At ultimate pressure (reference only) \*2 Purge gas is not available with C Type. \*3 Max. water vapor tolerance is a value when purge gas is used. \*4 C type is not leakless.



MODEL	A	B	C	D	H	H1	L	L1	P	Q	W	W1
LS120A	201	35	78	272	307	355	639	65	4-M12	-	311	26
LS300A	226	35	78	-	537	593	639	65	2-M16	ISO-F50	311	26
LS600A	201	35	78	-	563	619	639	65	4-M16	ISO-F80	311	26
LS1200A	247	35	78	-	563	619	639	65	4-M16	ISO-F100	311	26

Unit : mm



## ULVAC, Inc. Components Division

Overseas Sales in Japan TEL +81-467-89-2261

USA : ULVAC Technologies, Inc.  
 GERMANY : ULVAC GmbH  
 CHINA : ULVAC (SHANGHAI) Trading Co., Ltd.  
 TAIWAN : ULVAC TAIWAN, Inc.  
 KOREA : ULVAC KOREA, Ltd.  
 SINGAPORE : ULVAC SINGAPORE PTE LTD

TEL +1-978-686-7550  
 TEL +49-89-960909-0  
 TEL +86-21-6127-6618  
 TEL +886-3-579-5688  
 TEL +82-31-683-2922  
 TEL +65-6542-2700

PHILIPPINES : ULVAC SINGAPORE PTE LTD Philippines Branch  
 VIETNAM : ULVAC SINGAPORE PTE LTD Vietnam Representative Office  
 INDONESIA : ULVAC SINGAPORE PTE LTD Indonesia Representative Office  
 THAILAND : ULVAC (THAILAND) LTD  
 MALAYSIA : ULVAC MALAYSIA SDN. BHD.  
 INDIA : ULVAC, Inc., India Branch

TEL +63-46-437-7700  
 TEL +84-8-6255-6762  
 TEL +62-21-8990-5070  
 TEL +66-2-7388883  
 TEL +60-3-5121-4700  
 TEL +91-40-27007006

[www.ulvac.co.jp/en/](http://www.ulvac.co.jp/en/)

