



When Higher Purity is the Issue

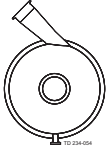
LKH UltraPure Centrifugal Pump

Application

The LKH UltraPure pump is a highly efficient and economical centrifugal pump, which meets the requirements of the pharmaceutical industries. It provides gentle product treatment and is chemically resistant. LKH UltraPure is available in five sizes, LKH UltraPure-10, -20, -25, -35, and -40.

Standard design

As standard the LKH UltraPure is delivered with a 45° outlet (counterclockwise).



45° outlet

The pump is designed for CIP and SIP with emphasis on large internal roundings and cleanable seals.



TECHNICAL DATA

Materials

Product wetted steel parts: W. 1.4404 (316L) with material traceability 3.1 acc. to EN 10204

Other steel parts: W. 1.4301 (304).

Product wetted seals: EPDM - USP Class 6.

Finish, product wetted surface: Bright (Ra 0.5 µm)

Finish, pump casing, external surface: . . Bright (Ra 0.8 µm)

Motor

Standard foot-flanged motor according to the IEC metric standard, 2 poles = 3000/3600 rpm. at 50/60 Hz, IP 55 (with drain hole with labyrinth plug), insulation class F.

Motor sizes

50 Hz: 1.5 - 22 kW.

60 Hz: 1.75 - 25 kW.

Warranty

Extended 3-years warranty on the LKH UltraPure Centrifugal Pump range. The warranty covers all non wear parts on the condition that genuine Alfa Laval Spare Parts are used.

OPERATING DATA

Pressure

Max. inlet pressure: Static: 600 kPa (6 bar).

Temperature

Temperature range: -10°C to +140°C (EPDM).

Noise level

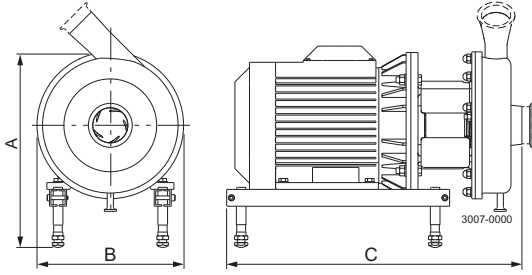
Noise level (at 1 m): 60 - 80 dB (A).

Double mechanical seal

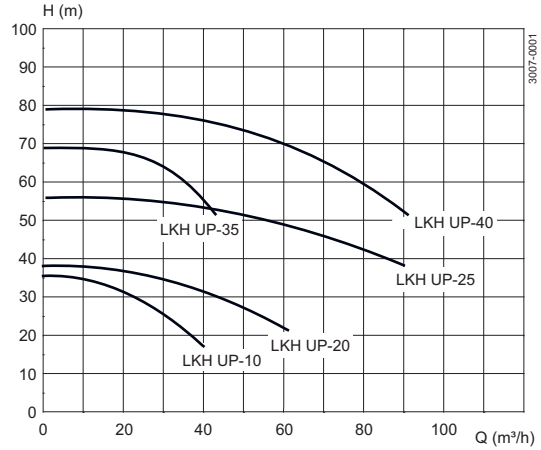
Water pressure: Max. 500 kPa (5 bar).

Water consumption: 0.25 - 0.5 l/min.

Dimensions (mm)



Flow chart



	LKH UltraPure-10				LKH UltraPure-20				LKH UltraPure-25		LKH UltraPure-35		LKH UltraPure-40			
	1.5	2.2	3	4	2.2	3	4	5.5/7.5	5.5/7.5	11/15	4	5.5/7.5	11/15	7.5	11/15/18.5	22
Motor kW	1.5	2.2	3	4	2.2	3	4	5.5/7.5	5.5/7.5	11/15	4	5.5/7.5	11/15	7.5	11/15/18.5	22
A min.	451	365	375	384	365	375	384	402	402	492	384	402	492	402	492	538
A max.	451	451	485	497	451	485	497	535	535	608	497	535	608	535	608	643
B	247	247	250	250	256	256	256	300	303	303	303	303	350	329	350	350
C	404	404	460	467	417	472	479	557	563	675	470	548	660	558	670	709

Options

- A. Impeller with reduced diameter.
- B. Motor for other voltage and/or frequency.
- C. 1500 rpm. motor.
- D. Motor with increased safety/explosion proof motor.
- E. ATEX approved - See LKH-EX for further information.
- F. Inducer.
- G. Double mechanical shaft seal.
- H. Pump with shroud.
- I. Pump without legs.
- J. No Drain
- K. Product wetted steel parts - ferrite max. 1% or 5%.
- L. Surface finish certificate.
- M. Finish product wetted surface Ra 0.8 µm
- N. Finish product wetted surface Ra 0.5 µm + electropolished
- The final surface value will change after electropolishing.
- O. Product wetted seals of FPM or FEP.
- P. Special flush arrangement with 1/2" and 3/4" diaphragm valve, needle valve and flow meter.
- Q. Hydrostatic testing with certificate
- R. Passivation
- S. 0° outlet, see drawing below.

Standard documentation package:

- 3.1 certificate according to EN10204
- FDA certificate of conformity for product wetted elastomers.
- USP class 6 certificate of conformity - EPDM only
- Pump performance test certificate

Ordering

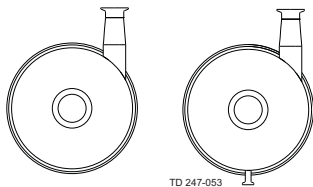
Please state the following when ordering:

- Pump size.
- Connections.
- Impeller diameter.
- Motor size.
- Voltage and frequency.
- Flow, pressure and temperature.
- Density and viscosity of the product.
- Options.

Note!

For further details, see also IM 70831.

This product has EHEDG certificate



No Drain

0° outlet

Alfa Laval reserves the right to change specifications without prior notification. ALFA LAVAL is a trademark registered and owned by Alfa Laval Corporate AB.

ESE00269EN 1201

© Alfa Laval

How to contact Alfa Laval

Contact details for all countries are continually updated on our website. Please visit www.alfalaval.com to access the information direct.