



The Premium Pump

LKH Centrifugal Pump

Applications

The LKH pump is a highly efficient and economical centrifugal pump, which meets the requirements of sanitary and gentle product treatment and chemical resistance. LKH is available in eleven sizes, LKH-5, -10, -15, -20, -25, -35, -40, -45, -50, -60, -70 and -90

Standard design

The LKH pump consists of a standard motor, stub shaft, mechanical compression coupling (LKH-5 with set screws), adaptor, back plate, impeller, impeller screw, pump casing and shaft seal. (LKH-5 has clamp connection between pump casing and back plate). The LKH pump is designed for CIP with emphasis on large internal radii and cleanable seals.

Shaft seals

The LKH pump is equipped with either an external single or a flushed shaft seal. Both have stationary seal rings in acid-resistant steel AISI 329 with sealing surface in silicon carbide and rotating seal rings in carbon. The secondary seal of the flushed seal is a long lasting lip seal. The pump may also be equipped with a double mechanical shaft seal.

Materials

Product wetted steel parts: Acid-resistant steel AISI 316L and AISI 329L
 Other steel parts: Stainless steel AISI 304
 Finish: Polished $\leq 32Ra$. and 3A approved
 Product wetted seals: EPDM rubber.

Technical data

Max. inlet pressure (dynamic)
 LKH-5 87 PSI
 LKH-10 - LKH-60 145 PSI
 LKH-70 - LKH-90 72.52 PSI
 LKH-90 72.52 PSI
 Temperature range 14°F to +284° F (EPDM)
 Noise level (at 3.3 ft.): 60 - 85 dB (A).

Flushed shaft seal (LKH-5 to LKH-90):

Water pressure inlet: Max. 14.5 PSI.
 Water consumption: 4-8 usgph

Double mechanical shaft seal:

Water pressure inlet, LKH-5 to -60: Max. 72.5 PSI.
 Water pressure inlet, LKH-70 and -90: Max. 43.5 PSI.
 Water consumption: 4-8 usgph

Connections for FSS and DMSS

R 1/8" (BSP) external thread.



LKH-10

Motor

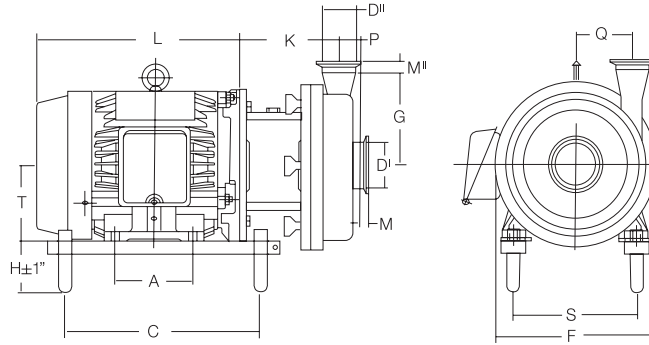
Standard C-faced, foot mounted motor according to NEMA standard. 3500 RPM or 1750 RPM. Standard efficiency, Class F. Note frame size per horsepower.

LKH-90 4 poles = 1500/1800 RPM at 72.52/145 PSI.

Voltage and frequency

3 phase, 60 HZ, 230/460V standard. Other voltages and frequencies available upon request.

Dimensions (in)



LKH-5

Size	Motor			
	1 Hp (56C)	1.5 Hp (143TC)	2 Hp (145TC)	3 HP (182TC)
A	4.00	4.00	5.00	4.50
C	9.53	9.53	9.53	12.60
F	7.87	7.87	7.87	7.87
G	6.22	6.22	6.22	6.22
H	3.50	3.50	3.50	3.50
K	5.31	5.31	5.31	5.90
L	16.53	16.53	17.52	18.01
P	0.866	0.866	0.866	0.866
Q	2.80	2.80	2.80	2.80
S	5.50	5.50	5.50	7.50
T	3.50	3.50	3.50	4.50
Approximate weight (lbs.)	69.00	79.90	79.90	99.90

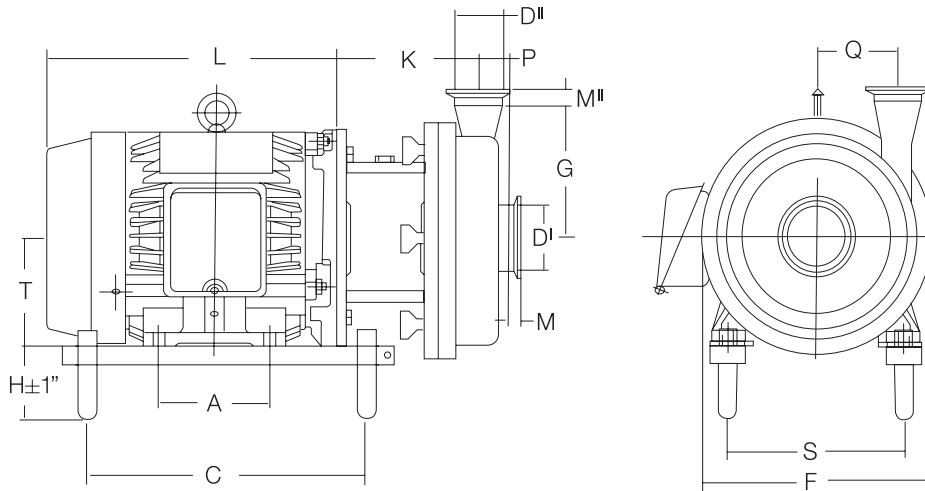
LKH-10

Size	Motor						
	1 Hp (143TC)	1.5 Hp (143TC)	2 Hp (145TC)	3 HP (182TC)	5 Hp (184TC)	7.5 Hp (213TC)	10 Hp (215TC)
A	4.00	4.00	5.00	4.50	5.50	5.50	7.00
C	9.53	9.53	9.53	12.60	12.60	14.17	14.17
F	9.72	9.72	9.72	9.72	9.72	9.72	9.72
G	5.59	5.59	5.59	5.59	5.59	5.59	5.59
H	3.50	3.50	3.50	3.50	3.50	3.50	3.50
K	5.35	5.35	5.35	5.87	5.87	5.87	5.87
L	16.91	16.91	18.22	19.41	19.69	23.20	24.74
P	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Q	3.43	3.43	3.43	3.43	3.43	3.43	3.43
S	5.51	5.51	5.51	7.48	7.48	8.50	8.50
T	3.50	3.50	3.50	4.50	4.50	5.25	5.25
Approximate weight (lbs.)	81.00	89.00	91.00	111.00	128.00	179.00	204.00

LKH-15

Size	Motor							
	1 Hp (143TC)	1.5 Hp (143TC)	2 Hp (145TC)	3 Hp (182TC)	5 Hp (184TC)	7.5 Hp (213TC)	10 Hp (215TC)	15 Hp (254TC)
A	4.00	4.00	5.00	4.50	5.50	5.50	7.00	7.00
C	9.53	9.53	9.53	12.60	12.60	14.17	14.17	19.02
F	9.72	9.72	9.72	9.72	9.72	9.72	9.72	9.72
G	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54
H	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
K	5.98	5.98	5.98	6.50	6.50	7.24	7.24	8.25
L	18.33	18.33	19.32	20.33	21.38	24.62	25.03	29.76
P	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70
Q	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61
S	5.51	5.51	5.51	7.48	7.48	8.50	8.50	8.50
T	3.50	3.50	3.50	4.50	4.50	5.25	5.25	5.25
Approximate weight (lbs.)	88.00	96.00	98.00	118.00	135.00	186.00	211.00	304.00

Dimensions (in)



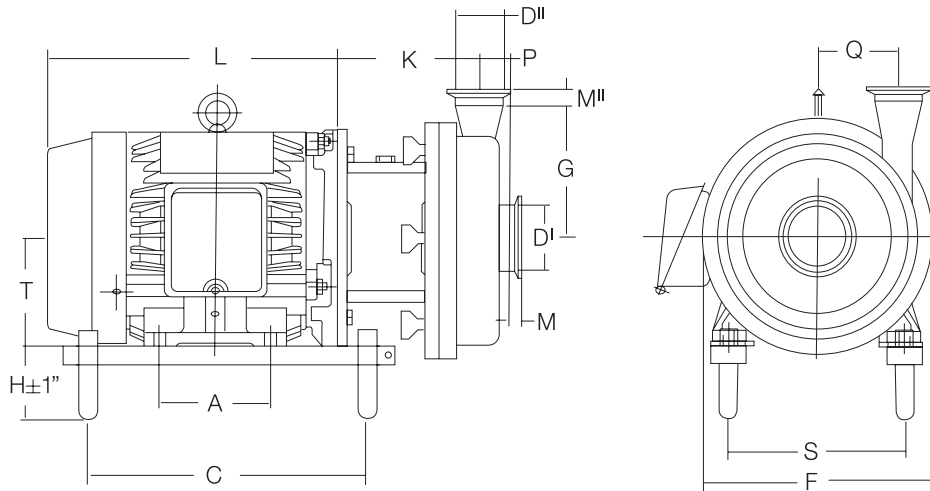
LKH-20

Size	Motor							
	1 Hp (143TC)	1.5 Hp (143TC)	2 Hp (145TC)	3 HP (182TC)	5 Hp (184TC)	7.5 Hp (213TC)	10 Hp (215TC)	15 Hp (254TC)
A	4.00	4.00	5.00	4.50	5.50	5.50	7.00	8.25
C	9.53	9.53	9.53	12.60	12.60	14.17	14.17	19.02
F	9.96	9.96	9.96	9.96	9.96	9.96	9.96	9.96
G	7.09	7.09	7.09	7.09	7.09	7.09	7.09	7.09
H	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
K	5.67	5.67	5.67	6.18	6.18	6.93	6.93	7.95
L	17.38	17.38	18.28	19.37	20.42	23.67	25.21	28.82
P	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
Q	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47
S	5.51	5.51	5.51	7.48	7.48	8.50	8.50	10.00
T	3.50	3.50	3.50	4.50	4.50	5.25	5.25	5.25
Approximate weight (lbs.)	85.00	93.00	95.00	115.00	132.00	183.00	208.00	301.00

LKH-25

Size	Motor										
	1 Hp (143TC)	1.5 Hp (143TC)	2 Hp (145TC)	3 HP (182TC)	5 Hp (184TC)	7.5 Hp (213TC)	10 Hp (215TC)	15 Hp (254TC)	20 Hp (256TC)	25 Hp (284TSC)	30 Hp (286TSC)
A	4.00	5.00	5.00	4.50	5.50	5.50	7.00	8.25	10.00	9.50	11.00
C	9.53	9.53	9.53	12.60	12.60	14.17	14.17	19.02	19.02	20.00	20.00
F	11.93	11.93	11.93	11.93	11.93	11.93	11.93	11.93	11.93	11.93	11.93
G	7.60	7.60	7.60	7.60	7.60	7.60	7.60	7.60	7.60	7.60	7.60
H	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
K	5.98	5.98	5.98	6.50	6.50	7.24	7.24	8.07	8.07	8.07	8.07
L	17.91	17.91	18.90	19.91	20.96	24.20	25.74	29.16	30.91	32.91	34.41
P	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28
Q	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
S	5.51	5.51	5.51	7.48	7.48	8.50	8.50	10.00	10.00	11.00	11.00
T	3.50	3.50	3.50	4.50	4.50	5.25	5.25	6.25	6.25	7.00	7.00
Approximate weight (lbs.)	95.00	103.00	105.00	125.00	142.00	193.00	218.00	311.00	361.00	442.00	473.00

Dimensions (in)



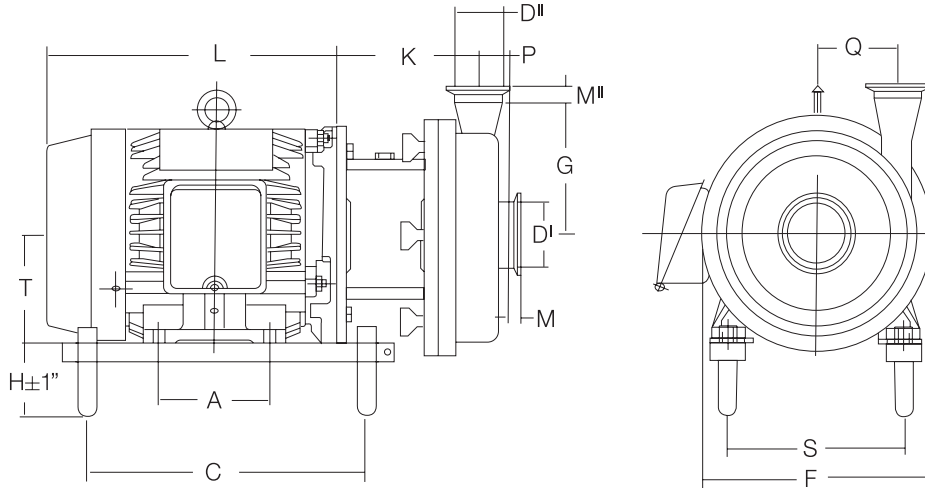
LKH-35

Size	Motor									
	1.5 Hp (143TC)	2 Hp (145TC)	3 HP (182TC)	5 Hp (184TC)	7.5 Hp (213TC)	10 Hp (215TC)	15 Hp (254TC)	20 Hp (256TC)	25 Hp (284TSC)	30 Hp (286TSC)
A	4.00	5.00	4.50	5.50	5.50	7.00	8.27	10.00	9.49	11.00
C	9.53	9.53	12.60	12.60	14.17	14.17	19.02	19.02	20.00	20.00
F	11.93	11.93	11.93	11.93	11.93	11.93	11.93	11.93	11.93	11.93
G	7.60	7.60	7.60	7.60	7.60	7.60	7.60	7.60	7.60	7.60
H	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
K	5.55	5.55	6.06	6.06	6.81	6.81	7.83	7.83	7.83	7.83
L	17.11	18.10	19.10	20.15	20.15	24.94	28.55	30.30	32.30	33.80
P	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Q	4.68	4.68	4.68	4.68	4.68	4.68	4.68	4.68	4.68	4.68
S	5.51	5.51	7.48	7.48	8.50	8.50	10.00	11.00	11.00	11.00
T	3.50	3.50	4.50	4.50	5.25	5.25	6.25	6.25	7.00	7.00
Approximate weight (lbs.)	99.00	101.00	121.00	138.00	189.00	214.00	307.00	357.00	438.00	469.00

LKH-40

Size	Motor									
	1.5 Hp (143TC)	2 Hp (145TC)	3 HP (182TC)	5 Hp (184TC)	7.5 Hp (213TC)	10 Hp (215TC)	15 Hp (254TC)	20 Hp (256TC)	25 Hp (284TSC)	30 Hp (286TSC)
A	4.00	5.00	4.50	5.50	5.50	7.00	8.25	10.00	9.50	11.00
C	9.53	9.53	12.60	12.60	14.17	14.17	19.02	19.02	20.00	20.00
F	12.95	12.95	12.95	12.95	12.95	12.95	12.95	12.95	12.95	12.95
G	8.35	8.35	8.35	8.35	8.35	8.35	8.35	8.35	8.35	8.35
H	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
K	5.75	5.75	6.26	6.26	7.01	7.01	8.03	8.03	8.03	8.03
L	17.50	18.49	19.49	22.54	23.79	25.33	28.94	30.69	32.69	34.19
P	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Q	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96
S	5.51	5.51	7.48	7.48	8.50	8.50	10.00	10.00	11.00	11.00
T	3.50	3.50	4.50	4.50	5.25	5.25	6.25	6.25	7.00	7.00
Approximate weight (lbs.)	108.00	110.00	130.00	147.00	198.00	223.00	316.00	366.00	447.00	487.00

Dimensions (in)



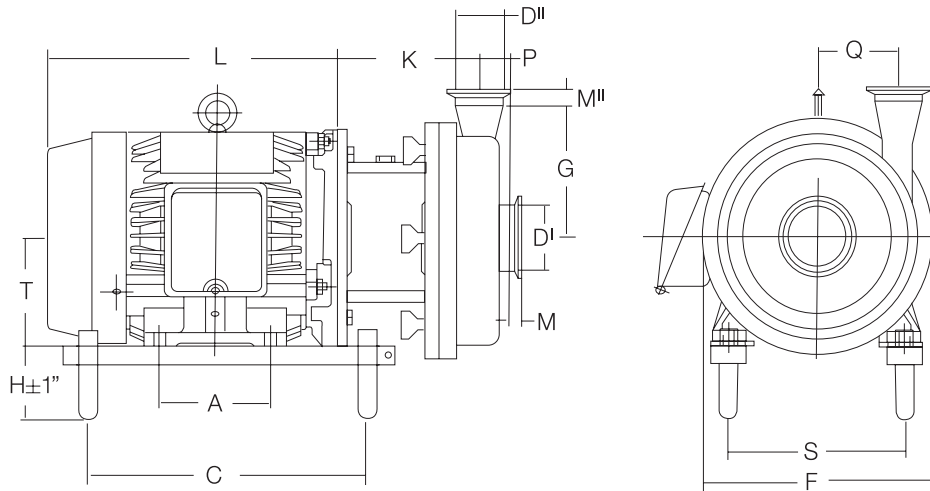
LKH-45

Size	Motor									
	1.5 Hp (143TC)	2 Hp (145TC)	3 Hp (182TC)	5 Hp (184TC)	7.5 Hp (213TC)	10 Hp (215TC)	15 Hp (254TC)	20 Hp (256TC)	25 Hp (284TSC)	30 Hp (286TSC)
A	4.00	5.00	4.50	5.50	5.50	7.00	8.25	10.00	9.50	11.00
C	9.53	9.53	12.60	12.60	14.17	14.17	19.02	19.02	20.00	20.00
F	11.93	11.93	11.93	11.93	11.93	11.93	11.93	11.93	11.93	11.93
G	7.60	7.60	7.60	7.60	7.60	7.60	7.60	7.60	7.60	7.60
H	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
K	6.03	6.03	6.54	6.54	7.29	7.29	8.31	8.31	8.31	8.31
L	18.27	19.26	20.26	21.31	24.56	26.10	29.71	31.46	33.46	34.96
P	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
Q	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83
S	5.51	5.51	7.48	7.48	8.50	8.50	10.00	10.00	11.00	11.00
T	3.50	3.50	4.50	4.50	5.25	5.25	6.25	6.25	7.00	7.00
Approximate Weight (lbs.)	105.00	107.00	127.00	144.00	195.00	220.00	313.00	363.00	444.00	475.00

LKH-50

Size	Motor									
	1.5 Hp (143TC)	2 Hp (145TC)	3 Hp (182TC)	5 Hp (184TC)	7.5 Hp (213TC)	10 Hp (215TC)	15 Hp (254TC)	20 Hp (256TC)	25 Hp (284TSC)	30 Hp (286TSC)
A	4.00	5.00	4.50	5.50	5.50	7.00	8.25	10.00	9.50	11.00
C	9.53	9.53	12.60	12.60	14.17	14.17	19.02	19.02	20.00	20.00
F	12.95	12.95	12.95	12.95	12.95	12.95	12.95	12.95	12.95	12.95
G	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
H	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
K	5.91	5.91	6.42	6.42	7.17	7.17	8.27	8.27	8.27	8.27
L	17.98	18.97	19.97	21.02	24.27	26.06	29.50	31.25	33.25	34.75
P	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42
Q	4.61	4.61	4.61	4.61	4.61	4.61	4.61	4.61	4.61	4.61
S	5.51	5.51	7.48	7.48	8.50	8.50	10.00	10.00	11.00	11.00
T	3.50	3.50	4.50	4.50	5.25	5.25	6.25	6.25	7.00	7.00
Approximate weight (lbs.)	108.00	110.00	130.00	147.00	198.00	223.00	316.00	366.00	447.00	487.00

Dimensions (in)



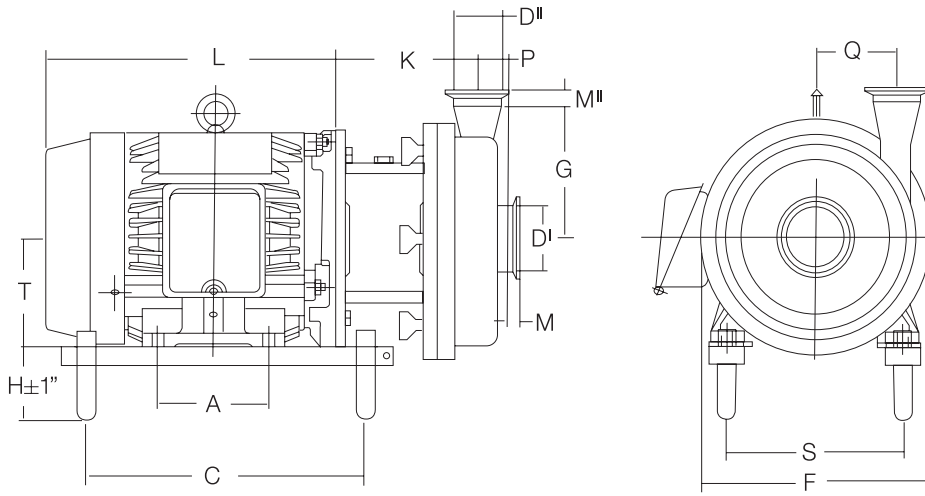
LKH-60

Size	Motor									
	1.5 Hp (143TC)	2 Hp (145TC)	3 Hp (182TC)	5 Hp (184TC)	7.5 Hp (213TC)	10 Hp (215TC)	15 Hp (254TC)	20 Hp (256TC)	25 Hp (284TSC)	30 Hp (286TSC)
A	4.00	5.00	4.50	5.50	5.50	7.00	8.25	10.00	9.50	11.00
C	9.53	9.53	12.60	12.60	14.17	14.17	19.02	19.02	20.00	20.00
F	12.95	12.95	12.95	12.95	12.95	12.95	12.95	12.95	12.95	12.95
G	10.31	10.31	10.31	10.31	10.31	10.31	10.31	10.31	10.31	10.31
H	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
K	5.96	5.96	6.47	6.47	7.22	7.22	8.32	8.32	8.32	8.32
L (4 x 4)	19.05	20.04	21.04	22.09	25.34	26.88	30.57	32.32	34.32	35.82
L (6 x 4)	20.63	21.62	22.62	23.67	26.92	28.46	32.15	33.90	35.90	37.40
P (4 x 4)	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44
P (6 x 4)	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
Q	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
S	5.51	5.51	7.48	7.48	8.50	8.50	10.00	10.00	11.00	11.00
T	3.50	3.50	4.50	4.50	5.25	5.25	6.25	6.25	7.00	7.00
Approximate weight (lbs.)	113.00	115.00	135.00	152.00	209.00	228.00	321.00	371.00	452.00	483.00

LKH-70

Size	Motor								
	15 Hp (254TC)	20 Hp (256TC)	25 Hp (284TSC)	30 Hp (286TSC)	40 Hp (324TSC)	50 Hp (326TSC)	60 Hp (364TSC)	75 Hp (365TSC)	100 Hp (405TSC)
A	8.25	10.00	9.50	11.00	10.50	12.00	11.25	12.25	13.75
C	19.02	19.02	20.00	20.00	20.00	21.00	21.00	21.00	21.00
F	16.13	16.13	16.13	16.13	16.13	16.13	16.13	16.13	16.13
G	10.04	10.04	10.04	10.04	10.04	10.04	10.04	10.04	10.04
H	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
K	8.21	8.21	8.21	8.21	11.25	11.25	11.25	11.25	11.25
L (4 x 3)	29.52	31.27	33.27	34.77	37.21	38.70	40.31	41.31	47.83
P 4"	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
Q	5.79	5.79	5.79	5.79	5.79	5.79	5.79	5.79	5.79
S	10.00	10.00	11.00	11.00	12.50	12.50	14.00	14.00	16.00
T	6.25	6.25	7.00	7.00	8.00	8.00	9.00	9.00	10.00
Approximate weight (lbs.)	113.00	115.00	135.00	152.00	209.00	228.00	321.00	371.00	452.00

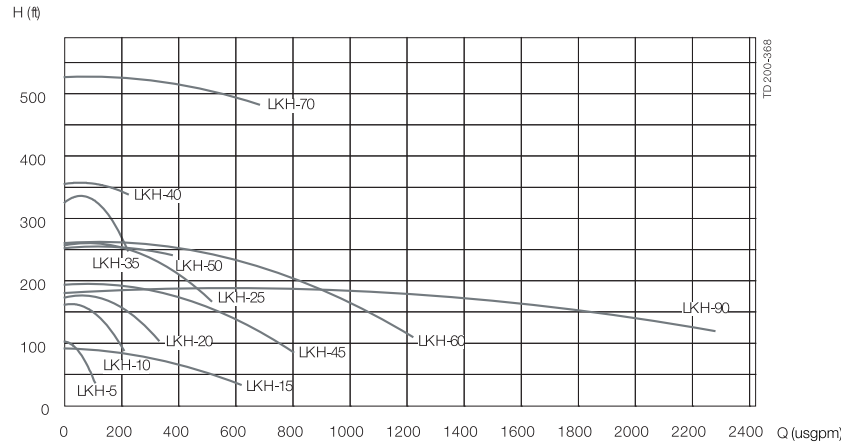
Dimensions (in)
(900315/0)



LKH-90

Size	Motor-Sterling					
	30Hp	40Hp	50Hp	60Hp	75Hp	100Hp
B	11.00	10.50	12.00	11.25	12.25	13.75
C	9.37	9.86	9.86	12.88	12.88	13.87
E	2.56	2.56	2.56	2.56	2.56	2.56
F	11.92	12.92	12.92	13.92	13.92	14.92
G	20.00	21.00	21.00	21.00	21.00	21.00
H	12.20	12.20	12.20	12.20	12.20	12.20
J	11.00	12.50	12.50	14.00	14.00	16.00
Q	15.37	15.87	15.87	16.50	16.50	17.49
R	9.84	9.84	9.84	9.84	9.84	9.84
S	24.02	24.10	26.32	26.92	27.90	33.35
T	7.00	8.00	8.00	9.00	9.00	10.00
U	8.38	8.79	8.79	9.79	9.79	10.79
Z	21.69	21.69	21.69	23.42	23.42	26.86
K	26.16	27.48	27.48	30.44	30.44	33.99
L	34.89	34.97	37.19	37.79	38.77	44.22
Weight (lbs)	939	974	1084	1236	1424	1497

Technical Data Volumetric Flow



Inlet/Outlet Connections - Tri-Clamp® (inches)

Refer to dimensional drawings

	LKH-5	LKH-10 LKH-20 LKH-35	LKH-25	LKH-40	LKH-15 LKH-45 LKH-50 LKH-70	LKH-60	LKH-60 LKH-70*	LKH-90
DI	2.00	2.50	3.00	3.00	4.00	4.00	6.00	6.00
DII	1.50	2.00	2.50	2.00	3.00	4.00	4.00	6.00
MI	1.13	1.13	1.13	1.13	1.13	1.13	1.50	1.5
MII	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.5

* = LKH-60, -70 are with reducer on DI.

Options

Equipment

- Impeller with reduced diameter.
- Motor for other voltage and/or frequency.
- Motor enclosures: washdown, TEFC, explosion proof, inverter duty and others upon request.
- Inducer (only LKH-10 to -50)
- Flushed shaft seal.
- Double mechanical shaft seal.
- Counter flanges, seal rings and bolts for flanged connections (industrial version).
- Standard clearance is 0.02" (0.04" for LKH-70) and can be made up to 0.098").

Material grades

- Surface roughness, product wetted parts: unpolished, 32Ra.
- Product wetted seals of Buna (NBR), Fluoroelastomer (FPM) or FEP.
- Rotating seal ring of silicon carbide.

Ordering

Please state the following when ordering:

- Pump size.
- Version, sanitary or industrial.
- Connections.
- Seal and Elastomer Type
- Impeller diameter.
- Motor size.
- Voltage and frequency.
- Flow, pressure and temperature.
- Density and viscosity of the product.
- Options.

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The information contained herein is correct at the time of issue, but may be subject to change without prior notice.

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.