

JLM HORIZONTAL PIPELINE PUMP SERIES

WORKING PRINCIPLE

The series consists of pumps with a single centrifugal impeller. These pumps have an essential form and are the result of precise design choices, made to obtain specific performance characteristics. The impeller, mounted on the end of the motor shaft, directly faces the suction opening machined in the pump body. The shape of the impeller transmits a radial motion to the fluid from the centre outwards, with minimum hydraulic losses. The blades inside the impeller channel transfer energy to the fluid both in the form of pressure and an increase in speed. After leaving the impeller the fluid passes to the volute and tapered diffuser which transform part of the kinetic energy into pressure energy.

- PUMP BODY:
 - cast iron, with UIN ISO 228/1 gas threaded suction and delivery openings.
- MOTOR BRACKET: cast iron,
- IMPELLER: cast iron crass, centrifugal radial flow.
- MOTOR SHAFT: AISI 314 stainless steel,
- MECHANICAL SEAL: ceramic and graphite,
- MOTOR:
 - the pumps are coupled to an asynchronous, high efficiency USR induction motor of suitable size, which is quiet, closed and externally ventilated, suitable for continuous duty. INSULATION class B (Class F)
 - The thermal cutout relay (motor protector) is incorporated in all single phase motors.**
 - Three phase motors require an adequate external motor protector, with connections according to current standards.
- PROTECTION: IP 44.

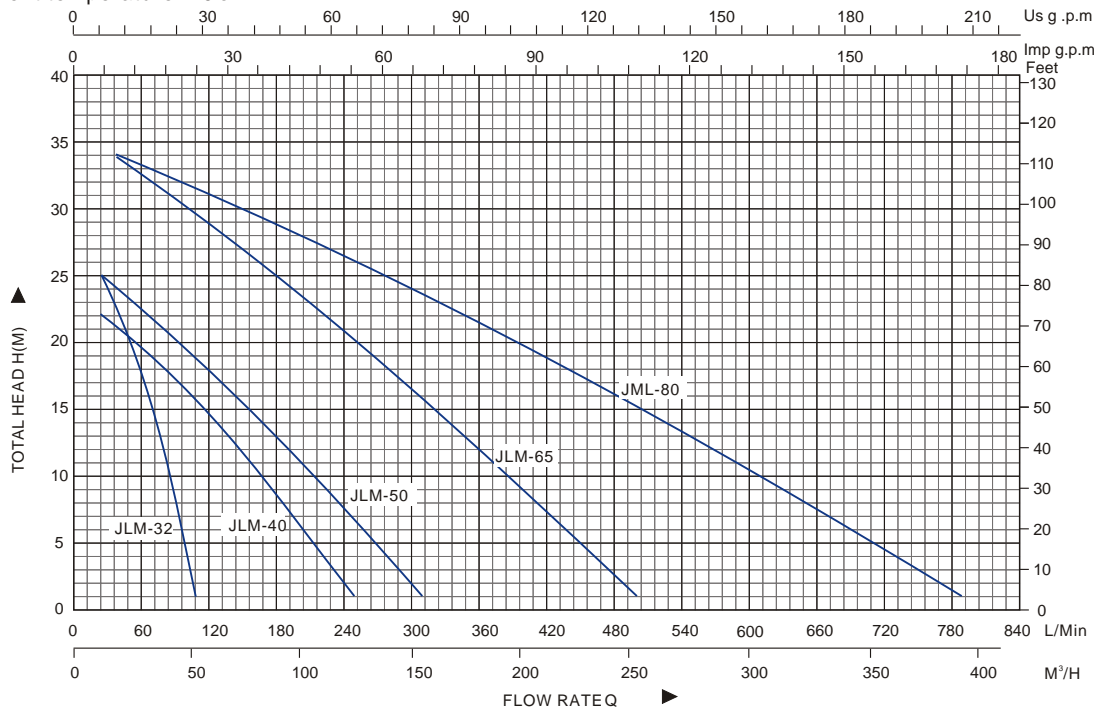


WARRANTY: 1 YEAR

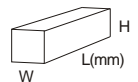
(according to our general sales conditions),

OPERATING LIMITS: Fluid temperature up to +40°C

Maximum ambient temperature +40°C



Model	Power		Q.max. L/min	H.max. m	Suct. Max. m	Speed r.p.m	Pump dia. inch	PACKAGE DIMENSIONS & GW			
	HP	W						L	W	H	Kg
JLM-32	0.5	0.37	110	25	9	2850	1 1/4" x 1 1/4"	380	225	240	32.0
JLM-40	1.0	0.75	250	22			1 1/2" x 1 1/2"	410	225	250	40.0
JLM-50	2.0	1.50	310	24			2" x 2"	415	250	290	45.0
JLM-65	3.0	2.20	500	34	8	2850	2 1/2" x 2 1/2"	470	260	285	55.5
JLM-80	5.5	4.00	790	34			3" x 3"	575	320	330	63.2



JL VERTICAL PIPELINE PUMP SERIES

PUMPS INSTALLATION AND APPLICATIONS

JL Plumbing pump featured its high efficiency, compact in construction and being well-sealed, is suitable for pressurized/long distance water supply for high-risings, cooling towers, as well as for garden/orchard spray irrigation. Adopting a series parallel connection system adjustable to the required and flow rate, it is suitable also for car washing and refrigerator.

- PUMP BODY: **cast iron**, with UIN ISO 228/1 gas threaded suction and delivery openings.
- MOTOR BRACKET: **cast iron**,
- IMPELLER: **cast iron cross**, centrifugal radial flow.
- MOTOR SHAFT: **AISI 314 stainless steel**,
- MECHANICAL SEAL: **ceramic and graphite**,
- MOTOR:
 - the pumps are coupled to an asynchronous, high efficiency **USR** induction motor of suitable size, which is quiet, closed and externally ventilated, suitable for continuous duty. INSULATION class B (Class F)
 - The thermal cutout relay (motor protector) is incorporated in all single phase motors.**
 - Three phase motors require an adequate external motor protector, with connections according to current standards.
- PROTECTION: **IP 44**.

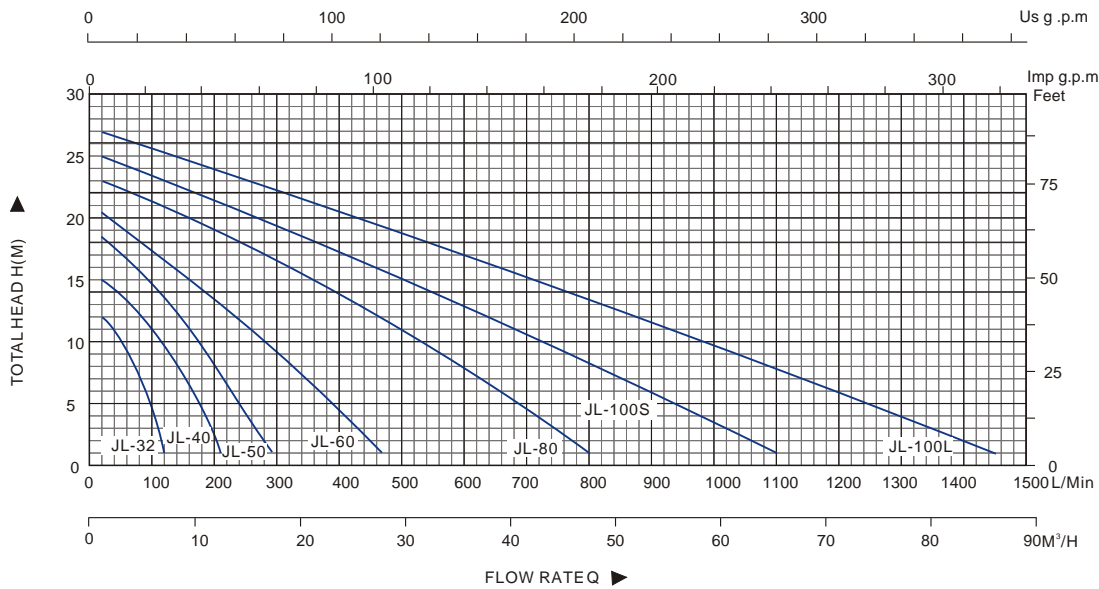


WARRANTY: 1 YEAR

(according to our general sales conditions),

OPERATING LIMITS: Fluid temperature up to +40°C
Maximum ambient temperature +40°C

PERFORMANCE CURVE



Model	Power		Q.max. L/min	H.max. m	Suct. Max. m	Speed r.p.m	Pump dia. mm	PACKAGE DIMENSIONS&GW			
	HP	W						L	W	H	Kg
JL-32	0.5	0.37	120	12	9	2850	32	320	250	410	33
JL-40	1.0	0.75	210	15.5			40	470	380	270	42
JL-50	2.0	1.50	295	18.5			50	400	290	460	45
JL-60	3.0	2.20	475	20.5			65	400	290	475	50
JL-80	5.0	3.80	800	23			80	420	320	490	55
JL-100S	7.5	5.50	1100	25			100	430	340	510	65
JL-100L	10.0	7.50	1450	27			100	430	340	510	75

