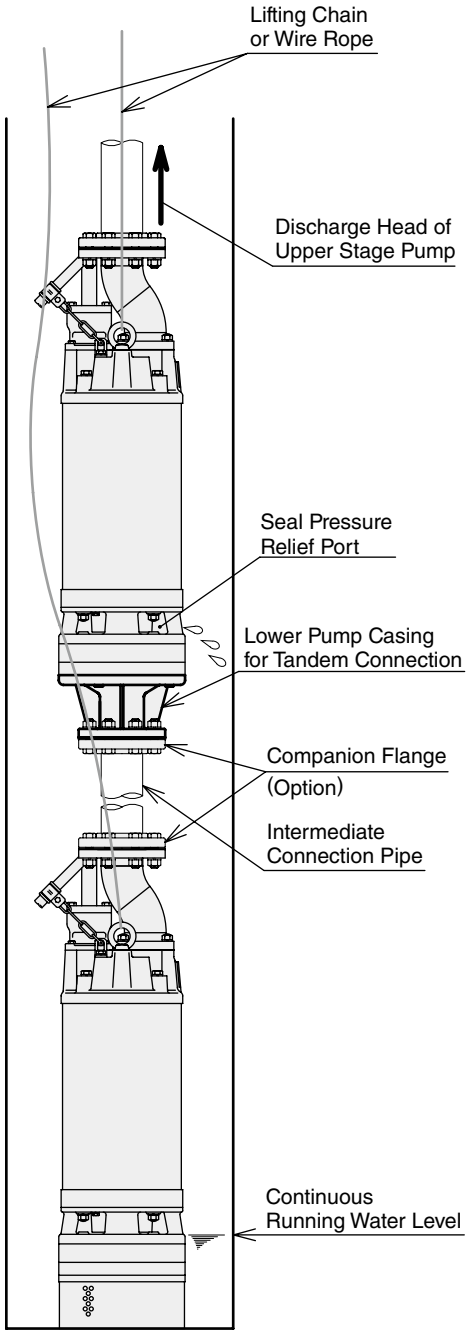
Series:	Discharge Bore:	Motor Output / Pole:
LH / LH-W (Tandem)	50 - 100mm	3 - 30kW / 2-pole

"Tandem operation" is an operation method that connects two pumps of the same model in series. This provides double pump head at the same flow rate in comparison with that of a single pump. The principle of tandem operation is the same as that with multistage pumps.

The LH and LH-W series pumps adopt the center flange construction to align the discharge pipe with the cylindrical pump center axis.*1 Connecting the pumps in series with the tandem connector can provide higher pump head without affecting the advantage of the slim design.

At construction sites, there are many cases where a higher pump head is required as construction work progresses. In such cases, the addition of a tandem pump may meet the required pump head, instead of using a new pump.

*1 Available as an option for separately purchased LH33.0 and LH23.0W.



Precautions for Selection and Use

For model selection, piping and installation procedure, be sure to consult Tsurumi distributors in advance.

1. If the required total head exceeds the maximum head of the pump without the intermediate connection pipe shown in the selection table, insert a intermediate connection pipe of a length corresponding to the excess amount or more, to reduce the pressure applied to the pump in the upper stage.
2. Check the approximate weight of one pump and the allowable load for two eyebolts (per pump) shown in the selection table, and determine the piping weight, installation method and lifting procedure so that the allowable load is not exceeded.
3. The pump in the lower stage should be installed at the bottom of the vertical hole, unless special measures are taken. Do not suspend the pump in midair. Do not allow the weight of the upper pump and piping to be applied to the lower pump.
4. Since a certain amount of water spouts from the seal pressure relief port,*2 both the upper- and lower-stage pumps should be installed in the vertical hole. Do not use the pumps as booster pumps in the middle of a horizontal line lying on the ground.
5. Do not connect pumps of different models in series. Do not use either of two connected pumps singly. Failure to observe these instructions may change the operating point improper, resulting in trouble.

*2 excluding LH33.0 and LH23.0W

Series:	Discharge Bore:	Motor Output / Pole:
LH / LH-W (Tandem)	50·80mm	3·5.5kW / 2-pole

"Tandem operation" is an operation method that connects two pumps of the same model in series. This provides double pump head at the same flow rate in comparison with that of a single pump. The principle of tandem operation is the same as that with multistage pumps.
The LH and LH-W series pumps adopt the center flange construction to align the discharge pipe with the cylindrical pump center axis.* Connecting the pumps in series with the tandem connector can provide higher pump head without affecting the advantage of the slim design.
At construction sites, there are many cases where a higher pump head is required as construction work progresses. In such cases, the addition of a tandem pump may meet the required pump head, instead of using a new pump.
* Available as an option for separately purchased LH33.0 and LH23.0W.

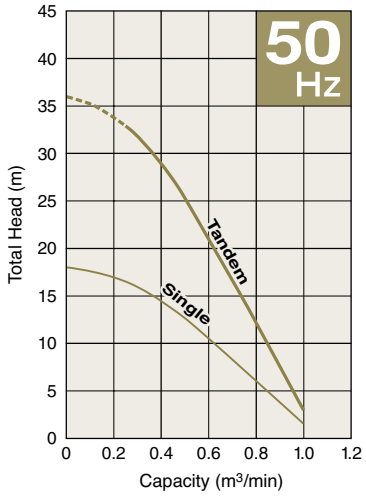
Selection Table 50/60Hz

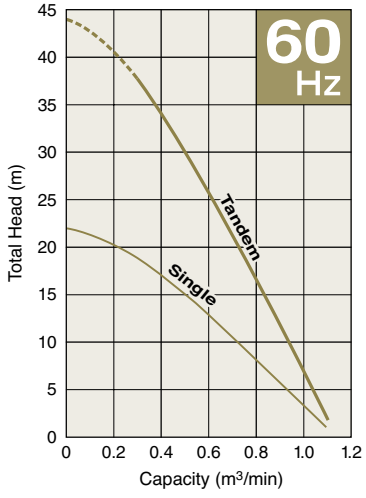
Model	Discharge Bore mm	Motor Output kW	Outer Diameter mm	Max. Head in Tandem m	Max. Head w/o Intermediate Connection Pipe m	Approx. Weight kg	Allowable Load on Eyebolts kg
LH33.0	80	3	185	36 / 44	33	54	150
LH23.0W	50	3	185	78 / 86	50	59	150
LH25.5W	50	5.5	254	130	97.5	96	220
● For specifications of individual models, refer to the pages for LH or LH-W series.							

Performance Curves

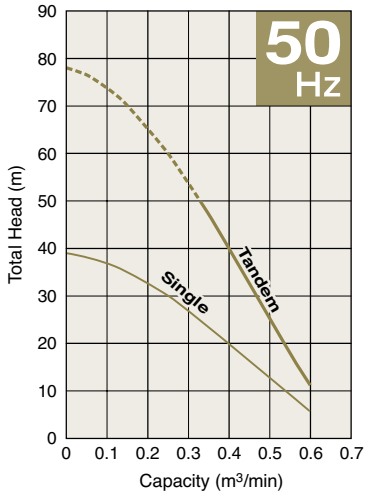
The intermediate connection pipe is not required in the range indicated as a bold line on curves.
If the required total head exceeds the maximum head of the pump without an intermediate connection pipe (indicated as dashed line), an intermediate connection pipe of a length corresponding to the excess amount or more is required.

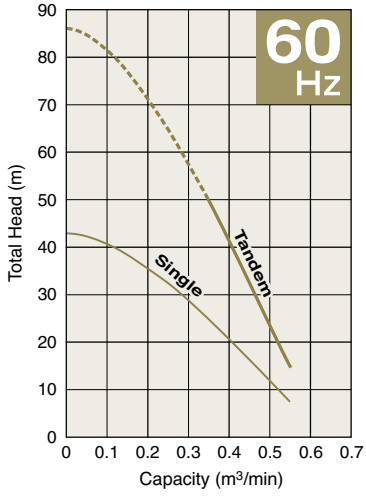
〈LH33.0〉



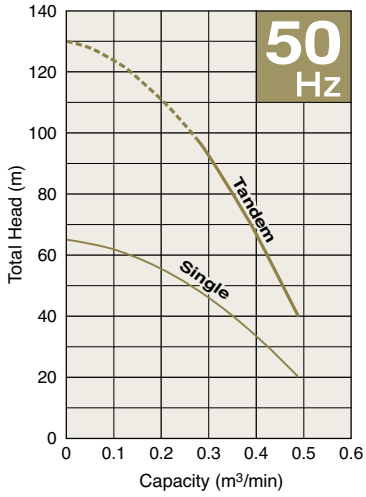


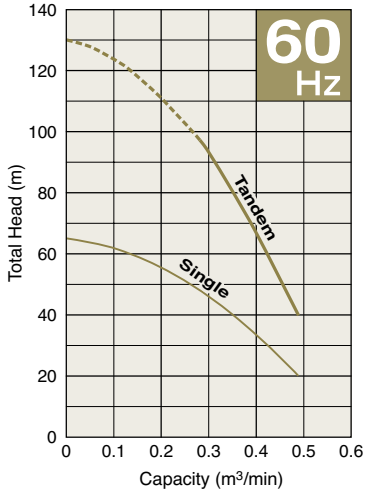
〈LH23.0W〉





〈LH25.5W〉





Series:	Discharge Bore:	Motor Output / Pole:
LH-W (Tandem)	80·100mm	11 - 30kW / 2-pole

"Tandem operation" is an operation method that connects two pumps of the same model in series. This provides double pump head at the same flow rate in comparison with that of a single pump. The principle of tandem operation is the same as that with multistage pumps.
The LH and LH-W series pumps adopt the center flange construction to align the discharge pipe with the cylindrical pump center axis. Connecting the pumps in series with the tandem connector can provide higher pump head without affecting the advantage of the slim design.
At construction sites, there are many cases where a higher pump head is required as construction work progresses. In such cases, the addition of a tandem pump may meet the required pump head, instead of using a new pump.

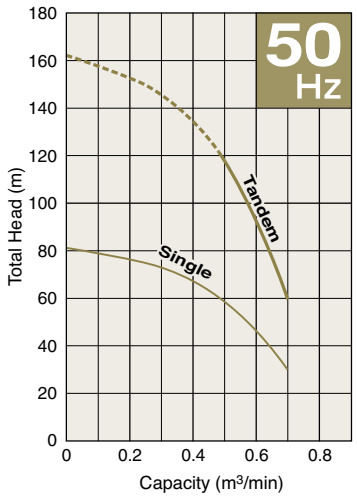
Selection Table 50/60Hz

Model	Discharge Bore mm	Motor Output kW	Outer Diameter mm	Max. Head in Tandem m	Max. Head w/o Intermediate Connection Pipe m	Approx. Weight kg	Allowable Load on Eyebolts kg
LH311W	80	11	270	162	121.5	156	450
LH322W	80	22	330	204 / 216	162	365	950
LH430W	100	30	365	246 / 254	190.5	289	950
● For specifications of individual models, refer to the pages for LH or LH-W series.							

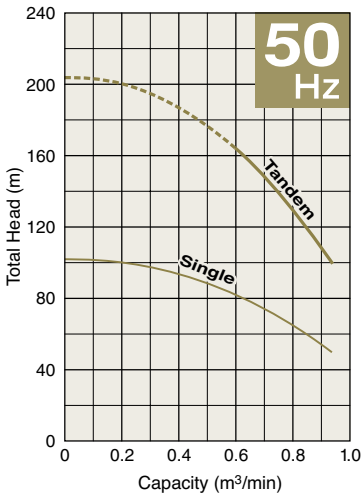
Performance Curves

The intermediate connection pipe is not required in the range indicated as a bold line on curves.
If the required total head exceeds the maximum head of the pump without an intermediate connection pipe (indicated as dashed line), an intermediate connection pipe of a length corresponding to the excess amount or more is required.

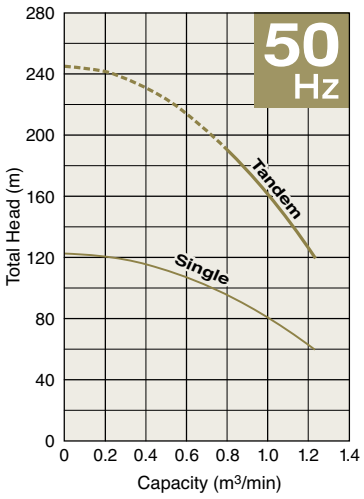
〈LH311W〉

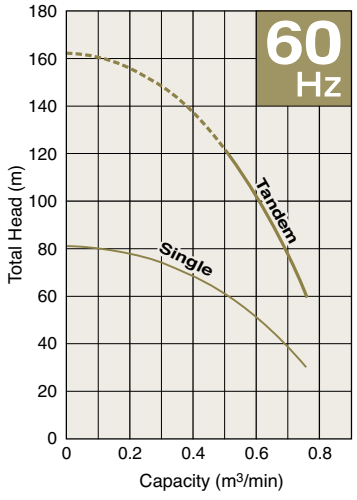


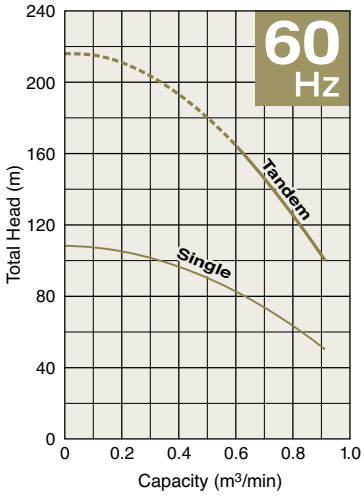
〈LH322W〉

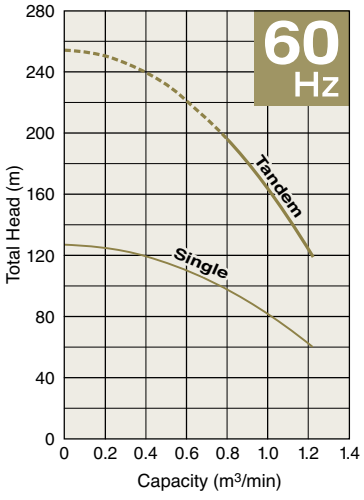


〈LH430W〉



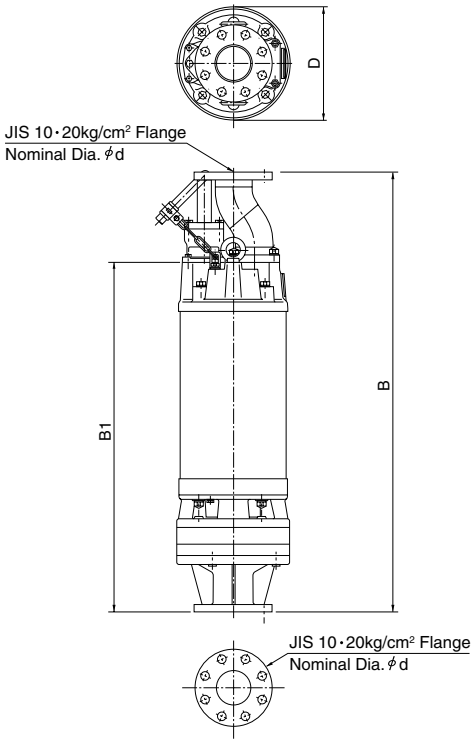






DIMENSIONS | Model LH33.0 to LH430W

LH / LH-W-series
50 - 100mm



Unit: mm

Model	d	B	B1	D
LH33.0	80	731	510	185
LH23.0W	50	759	558	185
LH25.5W	50	808	632	254
LH311W	80	1043	828	270
LH322W	80	1255	998	330
LH430W	100	1400	1043	365