

Tandem Operation LH / LHW series



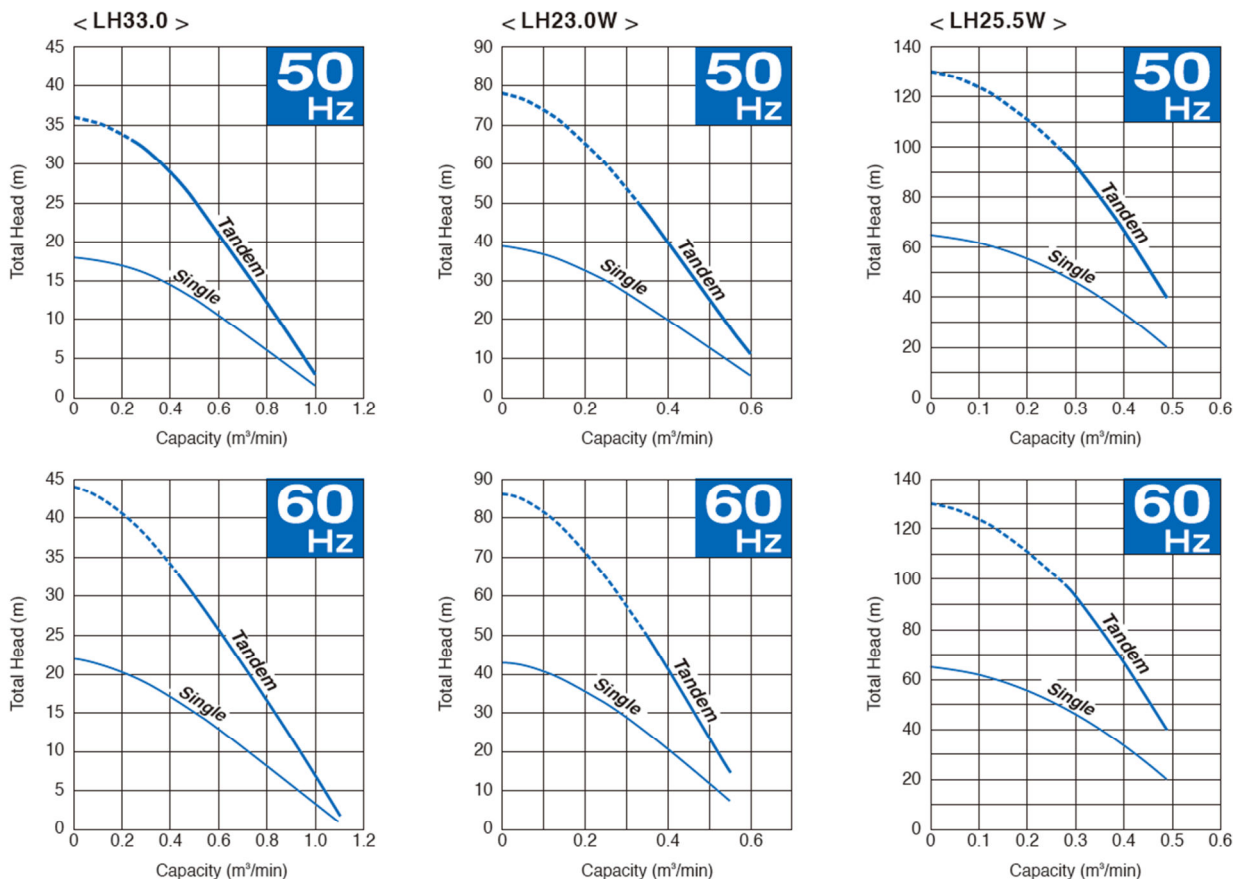
“Tandem operation” is an operation method that connects two pumps of the same model in series. This provides double pump head at the same flow rate in comparison with that of a single pump. The principle of tandem operation is the same as that with multistage pumps. The LH and LH-W series pumps adopt the center flange construction to align the discharge pipe with the cylindrical pump center axis.

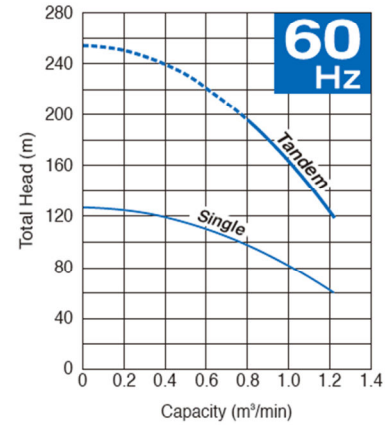
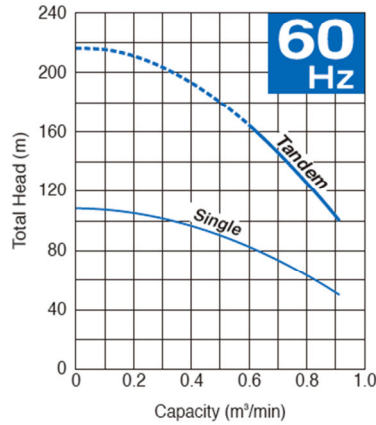
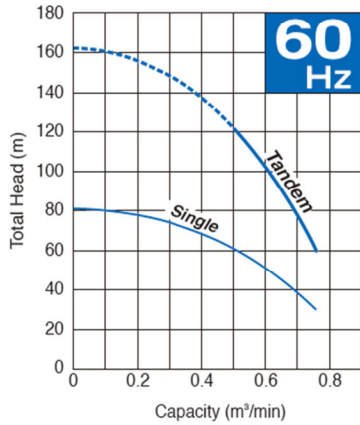
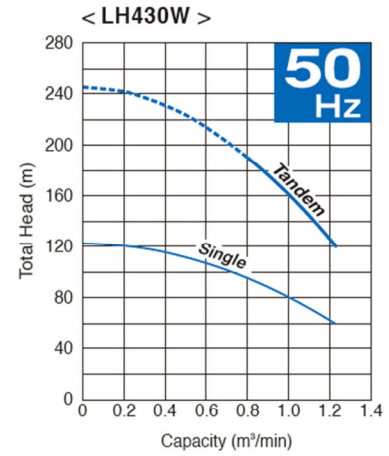
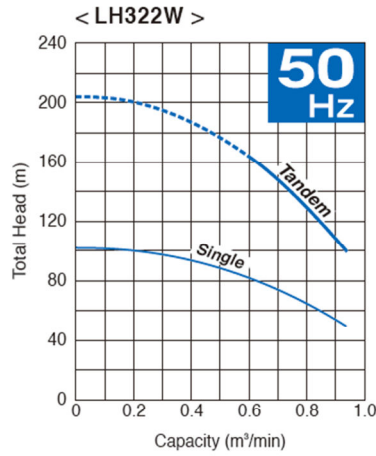
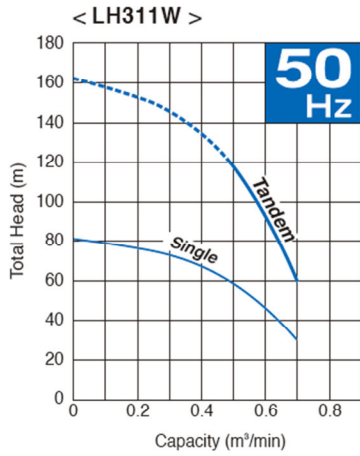
* Connecting the pumps in series with the tandem connector can provide higher pump head without affecting the advantage of the slim design.

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.

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.





Model	Max. Head in Tandem (m)	Max. Head w/o Intermediate Connection Pipe (m)	Dry Weight (kg)	Allowable Load on Eyebolts (kg)
LH33.0	36 / 44	33	54	150
LH23.0W	78 / 86	50	59	150
LH25.5W	130	97.5	96	220
LH311W	162	121.5	125	450
LH322W	204 / 216	162	365	950
LH430W	246 / 254	190.5	389	950

Ex.1) In case of duty point: 0.6 m³/min @ 100m, 60Hz

LH311W in tandem is available. **The intermediate connection pipe is not required.**

* The pipe is not required = 100(Head) < 121.5(Max. Head w/o Intermediate pipe)

Ex.2) In case of duty point: 0.2 m³/min @ 110m, 50Hz

LH25.5W in tandem is available, but **a 12.5m intermediate connection pipe is required.**

*12.5(Required pipe length) = 110(Head) - 97.5(Max. Head w/o Intermediate pipe)