

RHT D190

Turbine configurations

The RHT is available in 3 standard configurations:

- **Radial-inflow open-flume vertical or horizontal turbine:** flexible configuration for low-head projects, and ideal for drop-in retrofits of old low head Francis turbines
- **Axial-flow pit turbine:** both short, open-flow intakes, and pipeline configurations
- **Z type turbine:** for 6m-10m head, allows very compact powerhouse

Variable speed solutions are available for applications with substantial fluctuations in head.

	Max Head* (m)	Max Flow (cms)	Power** (kW)	A*** (mm)	B (mm)	Mass Turbine (kg)	Mass Total**** (kg)
Radial Open Flume	10	17.0	1,100	3,000	6,400	13,500	21,000
Axial Pit	10	17.0	1,100	3,000	7,100 - 9,500	18,000	25,000
Z Type	10	17.0	1,100	2,500	7,200	15,000	22,000

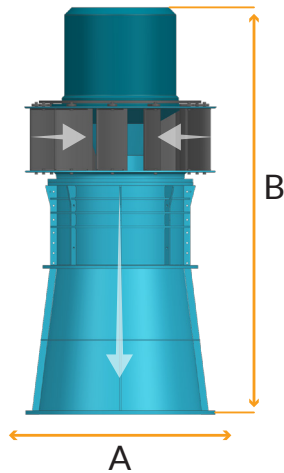
*units for 15 to 20m of net head may be considered - contact Natel Energy for more detail

**water to wire: inclusive of losses in generator and power electronics

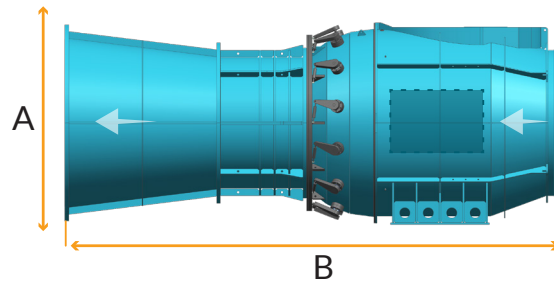
***max turbine diameter

****mass includes turbine and generator

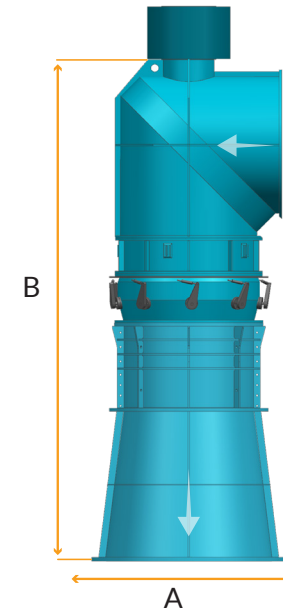
Radial Open Flume



Axial Pit



Z Type



RHT D130

Turbine configurations

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- **Axial-flow pit turbine:** both short, open-flow intakes, and pipeline configurations
- **Z type turbine:** for 6m-10m head, allows very compact powerhouse

Variable speed solutions are available for applications with substantial fluctuations in head.

	Max Head* (m)	Max Flow (cms)	Power** (kW)	A*** (mm)	B (mm)	Mass Turbine (kg)	Mass Total**** (kg)
Radial Open Flume	10	8.0	500	2,100	4,400	5,800	8,200
Axial Pit	10	8.0	500	2,100	5,300 - 6,700	7,300	10,000
Z Type	10	8.0	500	1,700	4,900	5,900	8,300

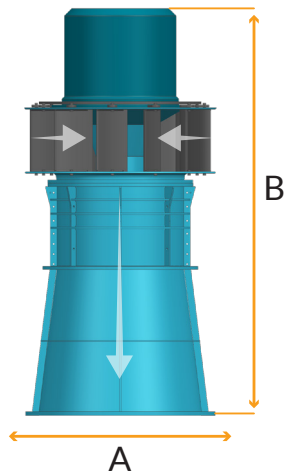
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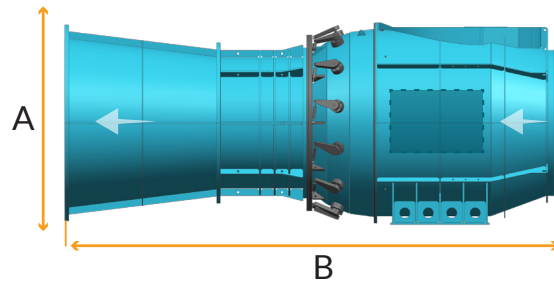
***max turbine diameter

****mass includes turbine and generator

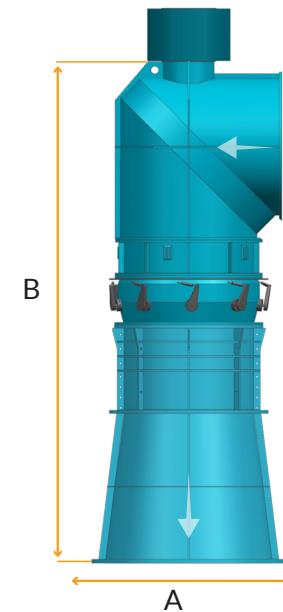
Radial Open Flume



Axial Pit



Z Type



RHT D055

Turbine configurations

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- **Axial-flow pit turbine:** both short, open-flow intakes, and pipeline configurations
- **Z type turbine:** for 6m-10m head, allows very compact powerhouse

Variable speed solutions are available for applications with substantial fluctuations in head.

	Max Head* (m)	Max Flow (cms)	Power** (kW)	A*** (mm)	B (mm)	Mass Turbine (kg)	Mass Total**** (kg)
Radial Open Flume	10	1.4	90	900	1,850	1,200	1,550
Axial Pit	10	1.4	90	1,000	3,100 - 4,200	1,200	1,500
Z Type	10	1.4	90	900	2,100	1,000	1,200

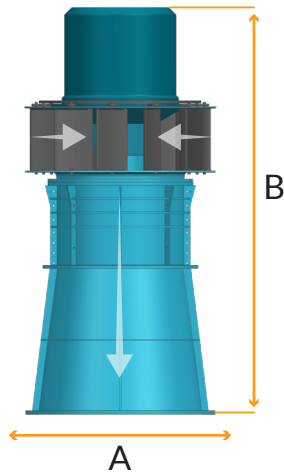
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**water to wire: inclusive of losses in generator and power electronics

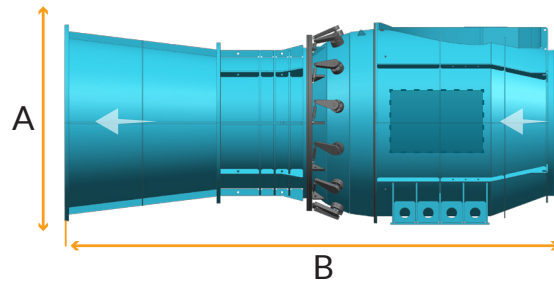
***max turbine diameter

****mass includes turbine and generator

Radial Open Flume



Axial Pit



Z Type

