

Micro-turbine Reiffenstein

*Development Stage:
Commercially available*



Micro-turbine Reiffenstein for Small Water Power Plants

Product Description

The unit representing a compatible ecological solution is a horizontal arrangement. It is supplied in assembled state. The unit is provided with common frame for the turbine and the generator. The turbine runner is overhang seated on the generator shaft. The turbine is equipped with welded steel spiral case of a square profile and a regulating blade of welded construction. Stainless steel runner is of welded construction. The regulating blade is controlled by means of an electric servomotor. Emergency closing the regulating blade is ensured by means of weight on servomotor lever and electric shifted claw clutch. The platform of the unit is 2550 x 1300 mm and the unit height is 1150 mm. Weight of the unit without the generator is 1500 kg. The generator shaft is adapted for turbine runner overhang seating as well as for turbine guide bearing and shaft seal. The rotor is provided with speed sensor.

| Product Highlights | | |
|--|-----------------------------------|---|
| Standard Unit Design Capacity | 75 kW | Design Working Environment <input checked="" type="checkbox"/> Natural waterways <input checked="" type="checkbox"/> Water transmission systems <input type="checkbox"/> Effluent streams <input type="checkbox"/> Tidal estuaries <input type="checkbox"/> Near shore ocean <input type="checkbox"/> Off-shore ocean <input type="checkbox"/> Deep ocean <input type="checkbox"/> Other |
| Other sizes currently available | Yes | |
| Characteristic Dimension | 0.35 m | |
| Rotational Axis Orientation | Horizontal, perpendicular to flow | |

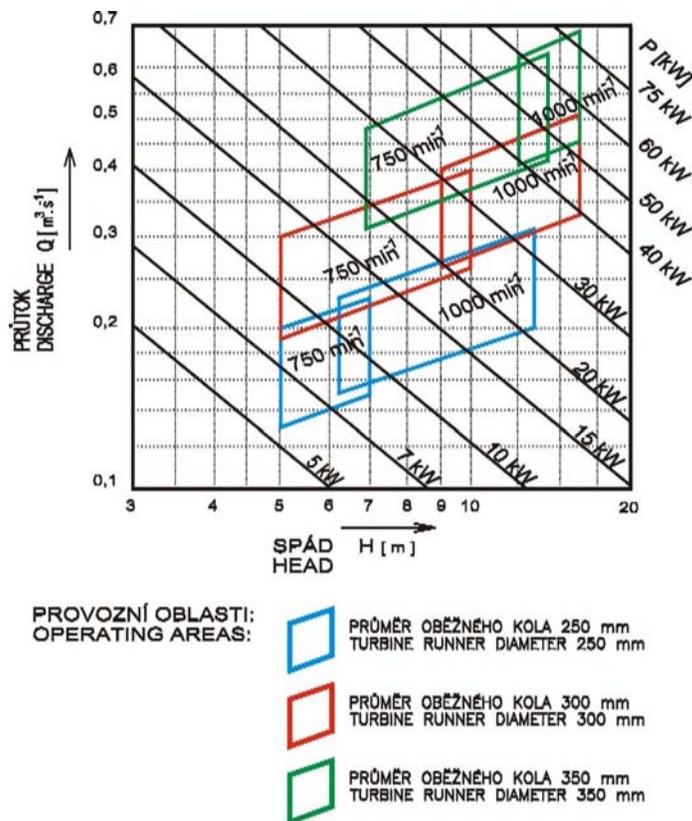
Product Specifications/Details (Standard Unit)

- Performance Specifications:

| Category | Minimum | Maximum | Units |
|----------------------|---------|---------|---------------------|
| Flow range | 0.31 | 0.68 | m ³ /sec |
| Hydraulic head range | 6.9 | 15 | m |
| Power output range | 16 | 75 | kW |
| Waterway depth | — | — | m |
| Waterway width | — | — | m |

- Efficiency: Turbine: — Total System: 90%

- Operating Curve/Envelope:



| | |
|-----------------------|---|
| Test Date: | February 2001 |
| Test Location: | Mech. & Hydro Laboratory, Blansko, Czech Republic |

- **Deployment Locations:** Nemilka Project, Zabreh, Czech Republic
- **System Dimensions (meters):** 2.55 (L) × 1.3 (W) × 1.15 (D)

Company Contact Information

| | |
|---------------------|---|
| Company Name | CKD Blansko Engineering, a.s. |
| Mailing Address | Capkova 2357/5 67801 Blansko Czech Republic |
| Website URL | www.cbeas.com |
| Contact's Name | Adolf Svoboda |
| Contact's Title | Commercial Director |
| Contact's Telephone | 00420-533 309 802 |
| Contact's Fax | 00420-533 309 588 |
| Contact's Email | or@cbeng.cz |

Company Profile

| | |
|------------------------|--------------------------|
| Years in Business | 6-10 years |
| Number of Employees | 51 or more employees |
| Annual Equipment Sales | greater than \$1,000,000 |

Affiliations/Alliances/Credentials/References/Publications

- Technical Academy of BRNO
- Memberships: IAHR, Europump, IEC, Czech Calibration Association