

**Asset Details**

- Asset ID: PMP01
- Asset Name: Water treatment pump 1
- Maker: Ebara
- Model: EVMSL64-5\_2-30
- Rated Power: 30 kW
- Rated Voltage: 400 V
- Location: PUB Station Bedok

**Performance Summary**

- Data Period: 2025-10-01 to 2025-11-30
- Total power consumption: No data available
- Daily average power consumption: No data available

Parameter	Average	Min	Max	Std Dev
Energy	23.2 kWh	22.02 kWh	28.33 kWh	1.28 kWh
Temperature DE	59.03°C	55.0°C	72.22°C	3.53°C
Temperature NDE	59.32°C	55.28°C	72.58°C	3.55°C
Vibration DE	3.89 mm/s RMS	3.3 mm/s RMS	5.55 mm/s RMS	0.46 mm/s RMS
Vibration NDE	3.97 mm/s RMS	3.37 mm/s RMS	5.66 mm/s RMS	0.47 mm/s RMS

**Operational Status**

- All monitored parameters show flat trends indicating stable operation
- Energy consumption remains consistent with low variability (std 1.28 kWh)
- Temperature readings at both drive end and non-drive end are stable with similar patterns
- Vibration levels at both ends maintain steady performance within normal operating ranges
- Asset demonstrates reliable operational stability across the monitoring period

**Risk Assessment**

- Pump drive end overall vibration velocity RMS operates within API 610 Preferred Operating Region with maximum 5.55 mm/s RMS below the 6.5 mm/s RMS danger threshold
- Pump non drive end overall vibration velocity RMS shows maximum 5.66 mm/s RMS, approaching but not exceeding API 610 Alert - Allowable Operating Region threshold of 6.5 mm/s RMS
- Pump drive end temperature and pump non drive end temperature readings show elevated levels with maximums of 72.22°C and 72.58°C respectively, requiring monitoring for thermal management
- Ebara threshold standards are not available for comparison
- Current vibration levels indicate acceptable mechanical condition though NDE side approaches alert zone
- Temperature levels warrant continued monitoring to prevent thermal degradation