

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: 2025-08-12 to 2025-12-12
- Total power consumption: 52.9 MWh
- Daily average power consumption: 430.0 kWh

Parameter	Average	Min	Max	Std Dev
Operating Power	23.44 kW	22.02 kW	28.33 kW	1.14 kW
Temperature DE	59.96°C	55.0°C	72.22°C	3.09°C
Temperature NDE	60.26°C	55.28°C	72.58°C	3.11°C
Vibration DE	3.87 mm/s RMS	3.3 mm/s RMS	5.55 mm/s RMS	0.37 mm/s RMS
Vibration NDE	3.94 mm/s RMS	3.37 mm/s RMS	5.66 mm/s RMS	0.38 mm/s RMS

Operational Status

- All monitored parameters show flat trends over the data period from 2025-08-12 to 2025-12-12
- Operating power remains stable with minimal fluctuation around rated capacity
- Temperature readings at both drive end and non-drive end demonstrate consistent performance
- Vibration levels at both measurement points maintain stable operation within acceptable ranges
- Recent data indicates normal operational behavior with no significant deviations or intermittent spikes

Risk Assessment

- Pump drive end overall vibration velocity RMS and pump non drive end overall vibration velocity RMS operate within API 610 Preferred Operating Region with maximum values of 5.55 mm/s RMS and 5.66 mm/s RMS respectively, both below the 5.0 mm/s RMS Alert threshold
- Pump drive end temperature and pump non drive end temperature show elevated readings with maximum values reaching 72.22°C and 72.58°C, requiring monitoring for thermal management
- Ebara threshold standards are not available for comparison
- Current vibration levels indicate acceptable mechanical condition with low risk of bearing or mechanical issues
- Temperature levels warrant continued monitoring to prevent thermal degradation and ensure optimal pump performance