

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 with stable operation
- Energy consumption remains consistent between 22.02 kWh and 28.33 kWh
- Temperature readings at both drive end and non-drive end are stable with flat trends
- Vibration levels at both ends maintain flat trends with low standard deviation indicating stable mechanical condition
- Asset demonstrates consistent operational performance throughout 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 remains within acceptable limits with maximum 5.66 mm/s RMS, approaching but not exceeding the danger zone
- Pump drive end temperature and pump non drive end temperature show elevated readings with maximum values of 72.22°C and 72.58°C respectively, requiring monitoring for thermal management
- Pump operating power consumption remains stable within normal operating range
- The asset operates within acceptable vibration limits per API 610 standards for pumps below 300 kW, though vibration peaks approach alert levels and warrant continued monitoring for preventive maintenance planning