

POD-I 1200

The POD-I is a compact submersible mixer for smaller tanks where the dry content matter is typically 1-4%

APPLICATION EXAMPLES

- ▶ Selector tanks
- ▶ Anoxic and anaerobic tanks
- ▶ SBR reactors
- ▶ Pump wells
- ▶ Equalisation tanks



PROPELLER RPM

1,200 rpm

MATERIAL OF CONSTRUCTION

| | |
|-------------------------------|---|
| Motor housing and oil chamber | Cast iron AISI A48-40B |
| Propeller | Stainless steel AISI 304 |
| Protection collar | Plastic PE-HD 1000 |
| Shaft | AISI 4340 |
| Bolts | Acid-proof steel AISI 316 |
| Sealing set | Mechanical shaft seals: silicon carbide/silicon carbide |
| Oil type | 15W-40 Vario HDX (with moisture detection) |

SERVICE AND MAINTENANCE

| | |
|---|---|
| Recommended service interval/oil change | Maximum 2,500 operating hours/minimum once a year |
| Motor | Lifetime lubricated bearings |
| Oil chamber | Periodic oil change |

SURFACE TREATMENT

| | |
|---|------------|
| Machinery enamel: RAL 9005 (Jet Black) | Jet Black |
| 2-component coating: RAL 7005 (Mouse Grey) (optional) | Mouse Grey |

ELECTRICAL CABLE

Resistant to abrasion, oil and UV radiation.



Number of conductors:

SOOW 7AWG14

SOOW 10AWG10

23' (other lengths available upon request)

MONITORING FUNCTIONS

Bimetal thermal sensors 248 °F

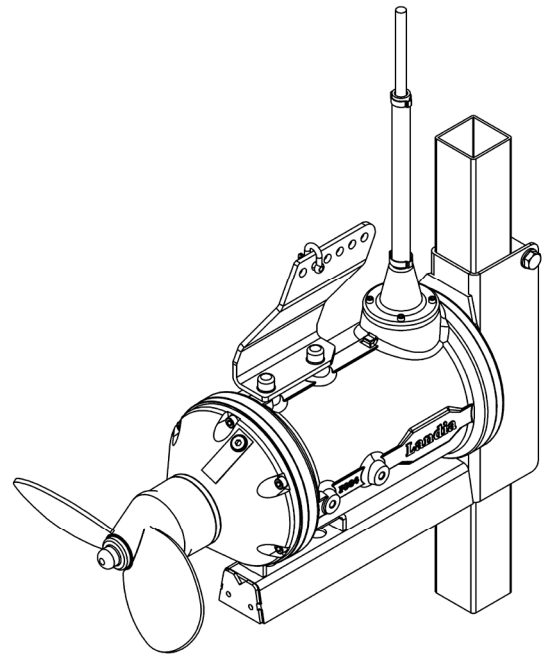
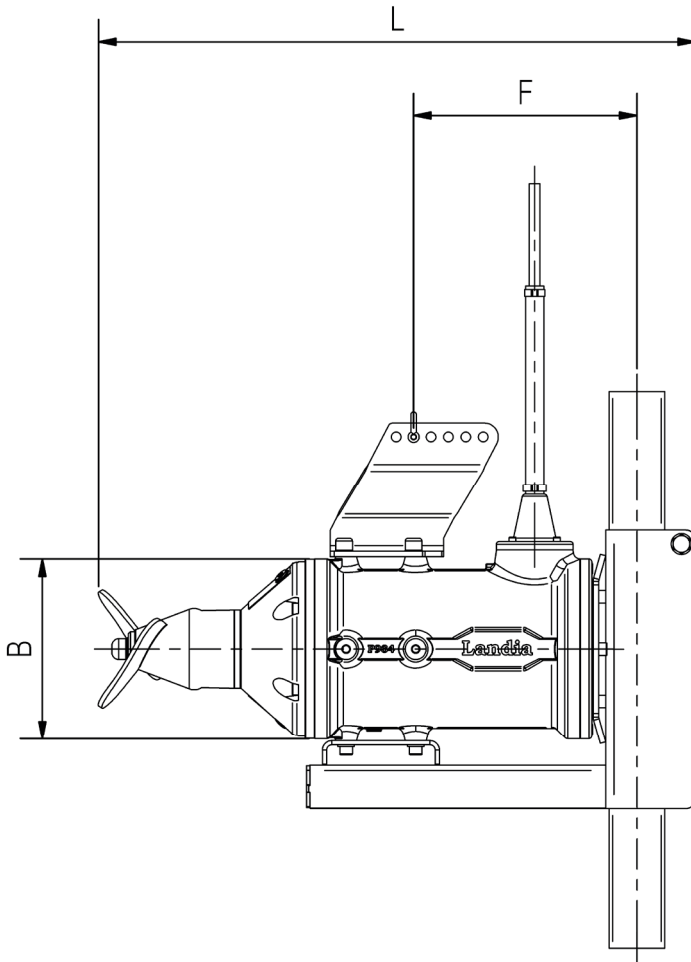
Moisture detection system (optional)

ELECTRICAL DATA

| | |
|----------------------------|--|
| Motor type | 3-phase AC motor |
| Nominal voltage | 460 V |
| Minimum voltage allowed | 415 V |
| Nominal frequency | 60 Hz |
| Suitable for VFD-operation | Yes |
| Cage class | IP 68 |
| Insulation class | F |
| ATEX classification | Class I, Groups C & D (option for selected models) |
| Variable-speed drives | Inverter Duty Rated |

| Model | Nominal power | Motor | Full load current (460 V) | Connection method | | Start current (DOL) | cos phi | Efficiency (100%) |
|----------------------------|---------------|-------|------------------------------|----------------------|-----|------------------------|---------|----------------------|
| | [HP] | [rpm] | [A] | [V] | Y/Δ | [A] | | [%] |
| POD-I 4.9/2.4 HP-1200 rpm | 4.9 | 1165 | 6.8 | 460 | Δ | 47 | 0.79 | 84.0 |
| POD-I 12.2/9.0 HP-1200 rpm | 12.2 | 1170 | 15.5 | 460 | Δ | 88 | 0.81 | 89.0 |

OVERALL DIMENSIONS



| Model | Standard propeller diameter [inch] | B [inch] | F [inch] | L [inch] | Guide pipe [inch] | Weight [lb] |
|--------------------------------|------------------------------------|----------|----------|----------|-------------------|-------------|
| POD-I 4.9/2.4 HP-1200 rpm IE2 | ø9.6 | 8.4 | - | 27.2 | 3.1x3.1 | 165 |
| POD-I 4.9/2.4 HP-1200 rpm IE2 | ø10.4 | 8.4 | - | 27.2 | 3.1x3.1 | 165 |
| POD-I 4.9/2.4 HP-1200 rpm IE2 | ø11.0 | 8.4 | - | 27.2 | 3.1x3.1 | 165 |
| POD-I 12.2/9.0 HP-1200 rpm IE2 | ø12.8 | 12.5 | - | 35.8 | 3.9x3.9 | 408 |
| POD-I 12.2/9.0 HP-1200 rpm IE2 | ø14.4 | 12.5 | - | 35.8 | 3.9x3.9 | 408 |

We reserve the right to make technical alterations.

POD-I 1800

The POD-I is a compact submersible mixer for smaller tanks where the dry matter content is typically 1–4%.

APPLICATION EXAMPLES

- ▶ Selector tanks
- ▶ Anoxic and anaerobic tanks
- ▶ SBR reactors
- ▶ Pump wells
- ▶ Equalisation tanks



PROPELLER RPM

1,800 rpm

MATERIAL OF CONSTRUCTION

| | |
|---------------------------------|--|
| Motor housing and oil chamber | Cast iron AISI A48-40B |
| Propeller and protection collar | Steel A 570 GR 36 Stainless steel AISI 304 (optional) |
| Shaft | AISI 4340 |
| Bolts | Steel AISI 316 |
| Sealing set | Mechanical shaft seals: silicon carbide/silicon carbide |
| Oil type | 15W-40 Vario HDX (with moisture detection) |

SERVICE AND MAINTENANCE

| | |
|---|---|
| Recommended service interval/oil change | Maximum 2,500 operating hours/minimum once a year |
| Motor | Lifetime lubricated bearings |
| Oil chamber | Periodic oil change |

SURFACE TREATMENT

| | |
|---|------------|
| Machinery enamel: RAL 9005 (Jet Black) | Jet Black |
| 2-component coating: RAL 7005 (Mouse Grey) (optional) | Mouse Grey |

ELECTRICAL CABLE

Resistant to abrasion, oil and UV radiation.



Number of conductors:

SOOW 7AWG14

SOOW 10AWG10

23' (other lengths available upon request)

MONITORING FUNCTIONS

Bimetal thermal sensors 248 °F

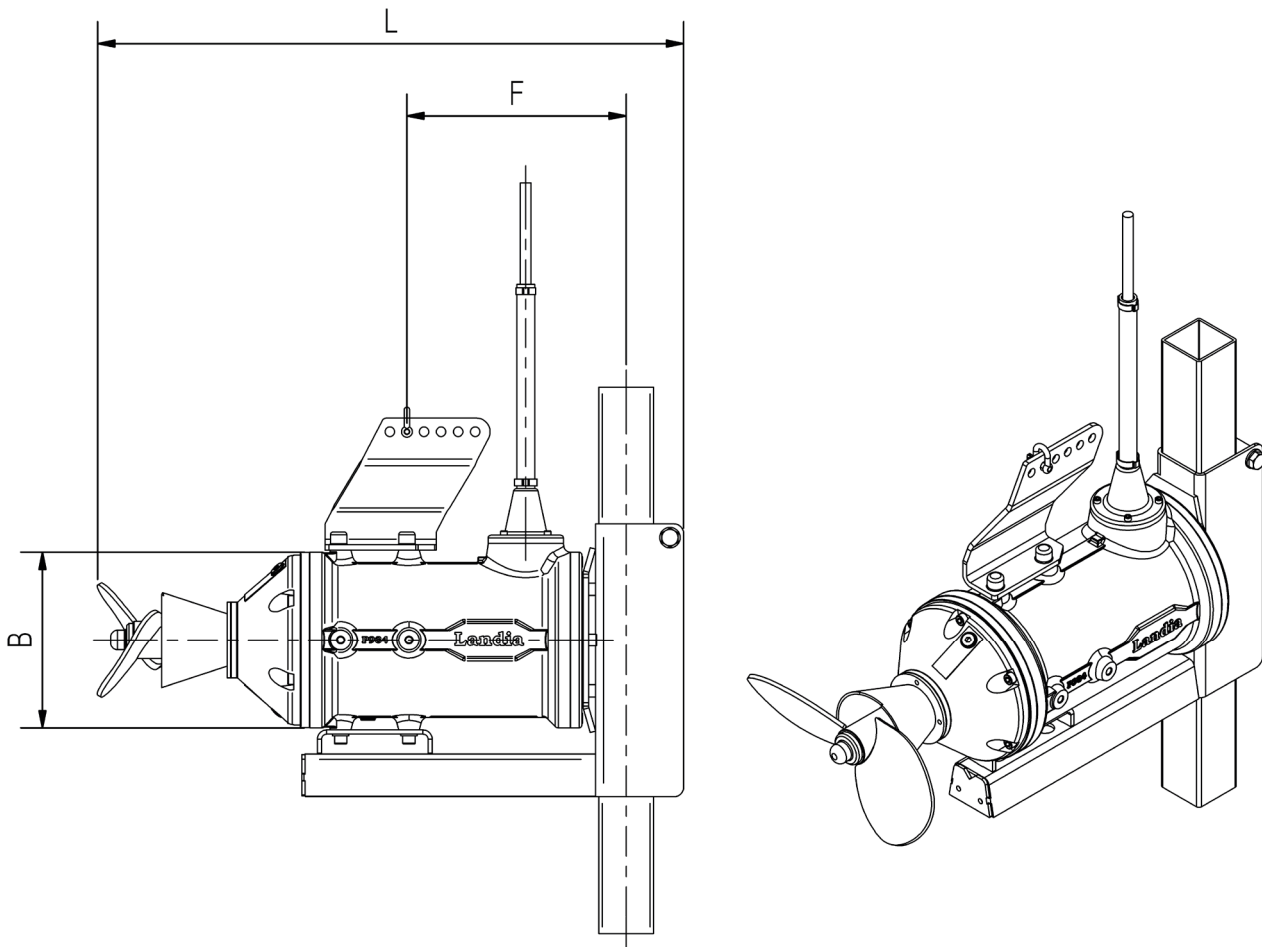
Moisture detection system (optional)

ELECTRICAL DATA

| | |
|----------------------------|--|
| Motor type | 3-phase AC motor |
| Nominal voltage | 460 V |
| Minimum voltage allowed | 415 V |
| Nominal frequency | 60 Hz |
| Suitable for VFD-operation | Yes |
| Cage class | IP 68 |
| Insulation class | F |
| ATEX classification | Class I, Groups C & D (option for selected models) |
| Variable-speed drives | Inverter Duty Rated |

| Model | Nominal power | Motor | Full load current (460 V) | Connection method | | Start current (DOL) | cos phi | Efficiency (100%) |
|------------------------|---------------|-------|------------------------------|----------------------|-----|------------------------|---------|----------------------|
| | [HP] | [rpm] | [A] | [V] | Y/Δ | [A] | | [%] |
| POD-I 3.6 HP-1800 rpm | 3.6 | 1720 | 5.3 | 460 | Y | 34 | 0.75 | 81.0 |
| POD-I 6.5 HP-1800 rpm | 6.5 | 1735 | 9.0 | 460 | Δ | 66 | 0.78 | 85.0 |
| POD-I 9.0 HP-1800 rpm | 9.0 | 1745 | 11.0 | 460 | Δ | 72 | 0.88 | 86.0 |
| POD-I 17.9 HP-1800 rpm | 17.9 | 1755 | 22.0 | 460 | Δ | 152 | 0.84 | 88.4 |
| POD-I 30.2 HP-1800 rpm | 30.2 | 1760 | 36.0 | 460 | Δ | 241 | 0.85 | 90.0 |

OVERALL DIMENSIONS



| Model | Standard propeller diameter [inch] | B [inch] | F [inch] | L [inch] | Guide pipe [inch] | Weight [lb] |
|------------------------|------------------------------------|----------|----------|----------|-------------------|-------------|
| POD-I 3.6 HP-1800 rpm | ø7.5 | 7.4 | 7.5 | 21.9 | 2.4x2.4 | 84 |
| POD-I 6.5 HP-1800 rpm | ø9.1 | 8.4 | 9.5 | 27.2 | 3.1x3.1 | 137 |
| POD-I 9.0 HP-1800 rpm | ø10.2 | 8.9 | - | 28.5 | 3.1x3.1 | 154 |
| POD-I 17.9 HP-1800 rpm | ø10.8 | 10.4 | 11.6 | 32.7 | 3.1x3.1 | 262 |
| POD-I 30.2 HP-1800 rpm | ø12.8 | 12.5 | 13.0 | 35.8 | 3.1x3.1 | 390 |

We reserve the right to make technical alterations.