

PODR-I 1200

The PODR-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	Steel AISI 316
Propeller	Stainless steel AISI 304
Protection collar	Plastic PE-HD 1000
Shaft	AISI 316
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

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

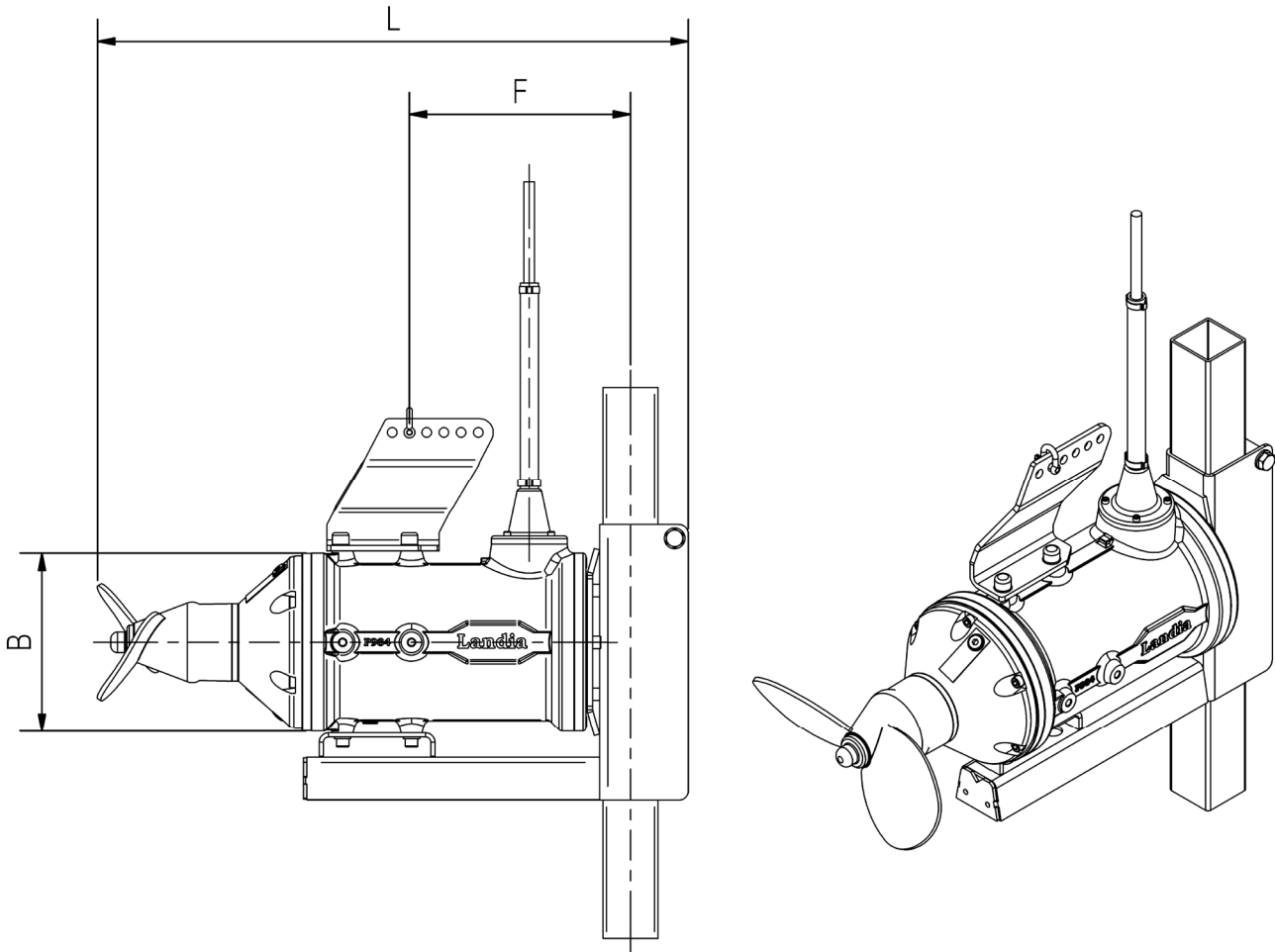
Moisture detection system (optional)

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	Not possible
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]		[%]
PODR-I 12.2/9.0 HP-1200 rpm I	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]
PODR-I 12.2/9.0 HP-1200 rpm	ø12.8	12.5	-	35.8	3.9x3.9	408
PODR-I 12.2/9.0 HP-1200 rpm	ø14.4	12.5	-	35.8	3.9x3.9	408

We reserve the right to make technical alterations.

PODR-I 1800

The PODR-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	Steel AISI 316
Propeller and protection collar	Stainless steel AISI 304
Shaft	AISI 316
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

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

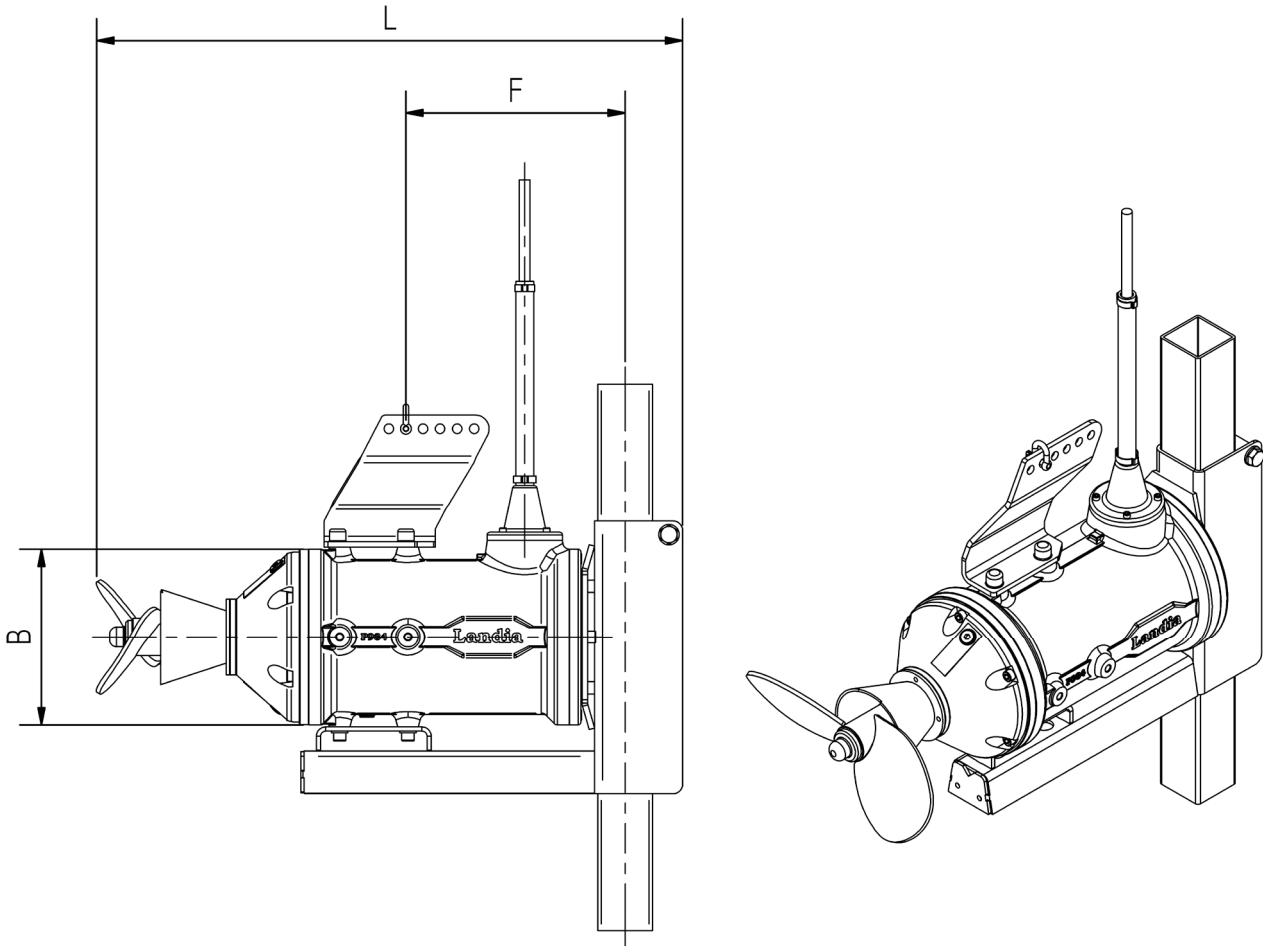
Moisture detection system (optional)

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	Not possible
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]		[%]
PODR-I 6.5 HP-1800 rpm	6.5	1735	9.0	460	Δ	66	0.78	85.0
PODR-I 17.9 HP-1800 rpm	17.9	1755	22.0	460	Δ	152	0.84	88.4
PODR-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]
PODR-I 6.5 HP-1800 rpm	ø9.1	8.4	9.5	27.2	3.1x3.1	137
PODR-I 17.9 HP-1800 rpm	ø10.8	10.4	10.6	32.7	3.1x3.1	276
PODR-I 30.2 HP-1800 rpm	ø12.8	12.5	13.0	35.8	3.1x3.1	401

We reserve the right to make technical alterations.