

DGR-I

The DGR-I pump is a highly efficient chopper pump made entirely of acid-proof steel. It is ideal for aggressive liquids with low or high pH values, as well as liquids with a high dry matter content.

All DGR-I pumps are equipped with a knife system at the inlet to the pump, which ensures problem-free operation under conditions where many other pumps have problems with clogging.



APPLICATION EXAMPLES

- ▶ Chemical industry
- ▶ Paper industry
- ▶ Food industry
- ▶ Biogas plants
- ▶ Pumping abrasive or aggressive liquids

PUMP RPM

1,500 rpm

MATERIAL OF CONSTRUCTION

Motor housing and oil chamber	W1.4404/AISI316
Pump housing	W1.4408/AISI316
Pump impeller	W1.4408/AISI316
Pump shaft	W1.4404/AISI316
Bolts	A4
Sealing system	Mechanical shaft seals: silicon carbide/silicon carbide
Knife system	W1.4404/AISI316
Extended knife system	W1.4404/AISI316 (optional)
Oil type	15W-40 Vario HDX (with moisture detection)

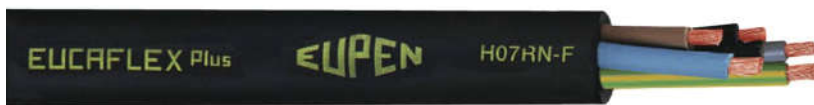
SERVICE AND MAINTENANCE

Recommended service interval/oil change	Maximum 2,000 operating hours/minimum once a year
Motor	Lifetime lubricated bearings
Oil chamber	Periodic oil change

ELECTRICAL CABLE

H07RN-F/S07RN-F EUCAFLEX^{Plus} Cable.

Resistant to oil and UV radiation.



Number of conductors:

H07RN-F 7G1.5 mm² (Not used in United Kingdom)

H07RN-F 7G2.5 mm² (Only United Kingdom. Motor ≤ 5,5 kW)

S07RN-F 7G4+3x1.5 mm²

S07RN-F 7G6+3x1.5 mm²

As standard supplied with 7 m of cable (extra length available upon request).

MONITORING FUNCTIONS

Bimetal thermal sensors 120 °C

Moisture detection system (optional)

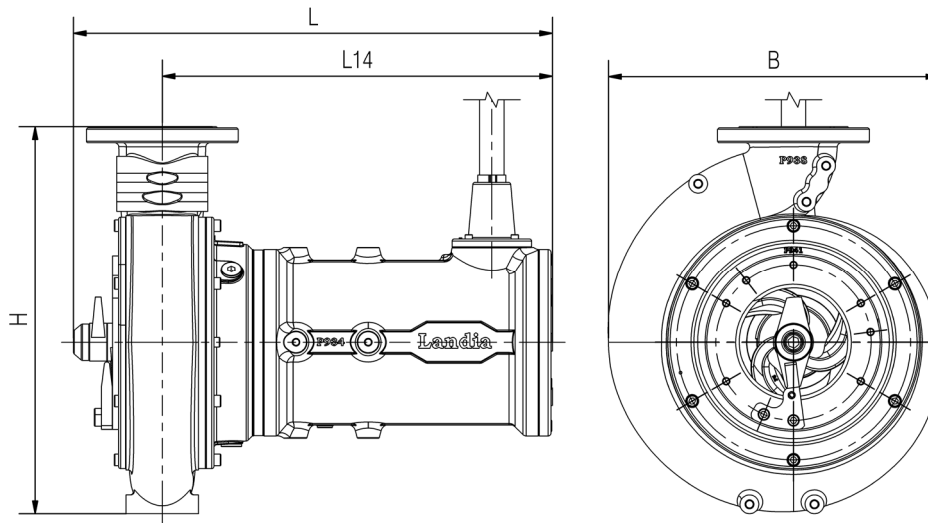
ELECTRICAL DATA

Motor type	3-phase AC motor
Nominal voltage	400 V
Minimum voltage allowed	360 V
Nominal frequency	50 Hz
Applicable for VFD operation	Yes
Ingress protection rating	IP 68
Insulation class	F
ATEX classification	Not possible

Model	Nominal power	Motor	Full load current (400 V)	Connection method	Start current (DOL)	cos phi	Efficiency
	[kW]	[rpm]	[A]	Y/Δ	[A]		[%]
Medium pressure							
DGR-I 80 4.0 kW-1,500 rpm	4.0	1,435	8.8	Δ	61	0.78	84.1
DGR-I 105 11.0 kW-1,500 rpm	11	1,455	21.5	Δ	146	0.84	87.9
DGR-I 105 18.5 kW-1,500 rpm	18.5	1,460	35.0	Δ	238	0.85	89.3

For voltages others than 400 V/50 Hz please refer to the attached Appendix.

OVERALL DIMENSIONS



Model	B [mm]	H [mm]	L [mm]	L14 [mm]	Weight [kg]
Medium pressure					
DGR-I 80 4.0 kW-1,500 rpm	370	432	550	445	100
DGR-I 105 11.0 kW-1,500 rpm	460	534	665	540	160
DGR-I 105 18.5 kW-1,500 rpm	460	534	710	585	210

We reserve the right to make technical changes.