smartDRIVE | PureWave

Nema 3R ESP Sine Wave Filter

OILDYNAMICS
Lifting Energy

The **smartDRIVE | PureWave** Nema 3R sine wave filter ensures reliable motor protection by converting the VFD's pulsed output into a clean sine wave. Designed to extend submersible motor lifespan, it reduces insulation stress, prevents overheating and bearing damage, and minimizes noise and EMI for smoother, more efficient operation.

Specification



Dimensions: 1340 × 850 × 1600 mm
Enclosure Material: Aluminium, 3mm
Air Capacity: 1680 m^3/h
Input voltage wave form: PWM
Switching frequency: 2-4 kHz
Output frequency: 20-60Hz, no de-rating
Ambient temperature: 0-50°C
Altitude: 1000 m without derating
Relative humidity: 0-99%, no condensation
Overload rating: 150% for 60 seconds
Audible noise level: 83 dBA
Approvals: CE
Max Downhole Cable length: 3000 m
Load:

- Induction and permanent magnet motors.
- Standard step-up transformer application (minimum 4% impedance)
- No load operation.

Insertion loss: 5-10% of rated voltage maximum

smartDRIVE Sd SWF

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Key Features

Anti-Corrosion Body: built to withstand harsh environments and extend service life.

Outdoor-Rated Enclosure: providing full protection against weather and external conditions.

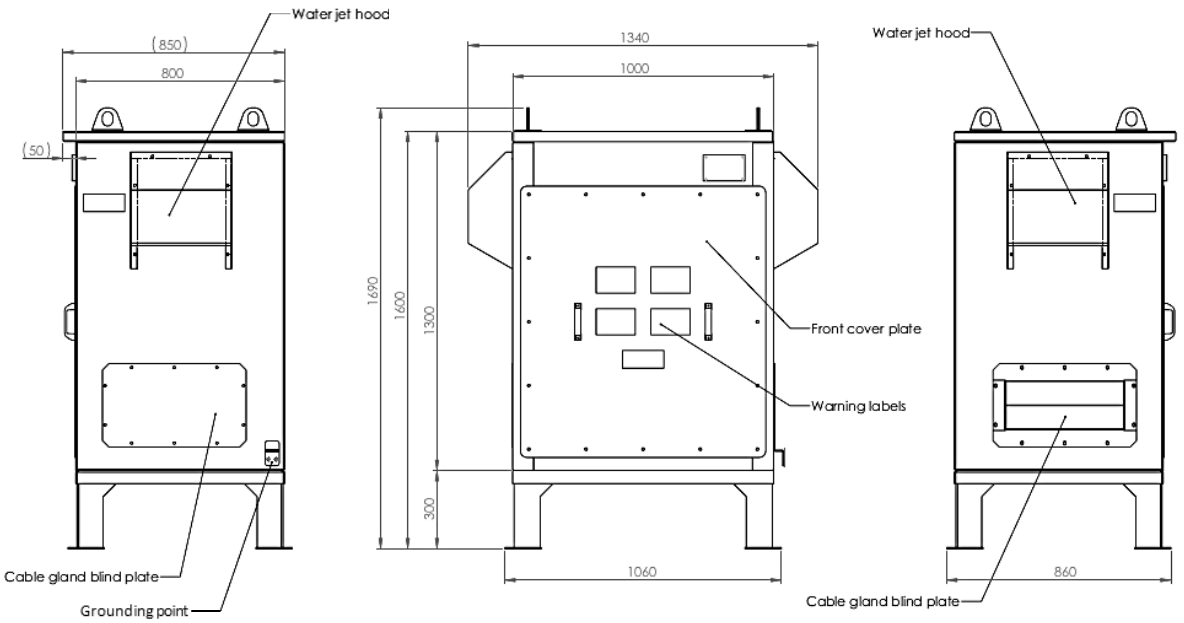
Simple Construction: designed for straightforward installation and maintenance.

Removable Gland Plates: ensuring flexible cable entry and easy field adaptation.

Ratings and Features

SWF CAPACITY, A	361	481	610
SWF CAPACITY, kVA(1)	237/287	316/383	401/485
HEAT DISSIPATION, kW	1,5	2,17	2,65
WEIGHT, kg	292	314	409

(1) – At 400/480 V input.



Clean Power. Longer Motor Life.

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