



**Submersible motor pumps  
DN 50 to 100  
50 Hz**

## Fields of Application

Amarex N pumps are used for handling all types of waste water, e.g.:  
waste water / sewage, waste water containing long fibres and solid substances as well as fluids containing gas/air; raw, activated and digested sludge; drainage /water extraction, drainage of rooms and areas subject to a flooding risk on municipal, industrial and commercial premises.

## Operating Data

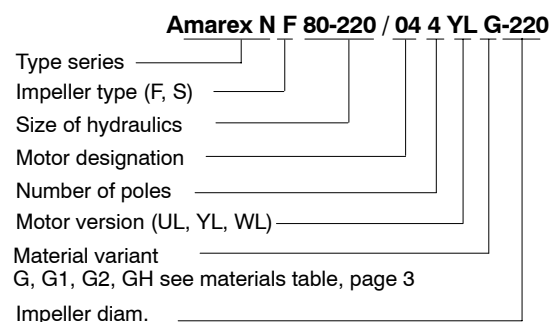
Capacity	Q up to 155 m <sup>3</sup> /h, 43 l/s
Discharge head	H up to 47 m
Motor rating	P <sub>2</sub> from 0.8 kW to 4.2 kW
Temperature of fluid handled	t up to 40 °C <sup>1)</sup>
Type of enclosure	IP 68 to EN 60 529 / IEC 529

<sup>1)</sup> For short periods (3 - 5 min or until the temperature guards trip) the UL and WL model can be operated up to 80 °C.

## Design

Stationary and transportable design for wet well installation. Amarex N pumps are submersible single-stage, single-entry close-coupled units which are not self-priming. They can be delivered with free flow impellers (F) and, in the case of Amarex N S 50, with cutter (S).

## Designation



## Drive

Three-phase asynchronous motor; in compliance with ATEX 100a LCIE 03 ATEX 6428X, explosion-proof EEx d IIB T4; 400 V, starting method: d.o.l., up to 30 start-ups per hour (max.)

## Shaft seal

**Always** two **bi-rotational** mechanical seals, with oil reservoir and environmentally-friendly oil.

## Bearings

Grease-packed rolling element bearings.

## Motor design

UL ⇒ non-explosion-proof (55 °C)  
YL ⇒ explosion-proof T4 (40 °C)  
WL ⇒ non-explosion-proof (max. 60 °C)  
Operating mode S1 - submerged (max. 25 m)  
Operating mode S3 - not submerged (see dimension table)

CE - EN 12 050-1

Pumps with cutter-type impeller S, DN 50  
Type approval pending  
Pumps with free flow impeller F, DN 50, 65, 80, 100  
Type approval pending

In countries stipulating explosion-proof units for handling sewage with faeces, the motor design YL must be used.