

Inverter Drive NCP/NNP Series Energy-saving Variable Pump Unit with Inverter Drive

By adding an inverter drive to our NCP/NNP series standard variable pump unit, we created the inverter drive NCP/NNP series hydraulic units to achieve great energy savings.

They are great for jobs that need to dwell for long periods.

Features

Low increase in hydraulic fluid temperature

- Maintained at room temperature +2.5°C.
- NNP-60E-55P35N1-10
 - 7MPa maintained while dwelling

Quiet

- Sound level is 52dB (A).
- NNP-20E-22P16N1-10
 - 7MPa while dwelling
 - One meter behind pump

Easy Operation

- Can start as soon as power is turned on.
Absolutely no external commands or delicate electrical adjustments needed.
◎ Operates even with the inverter removed in emergencies.

40% energy savings compared to the NCP unit

- NCP-60E-3.7PV16N3-C1R2-12
- 21MPa while dwelling (in contrast to standard unit)

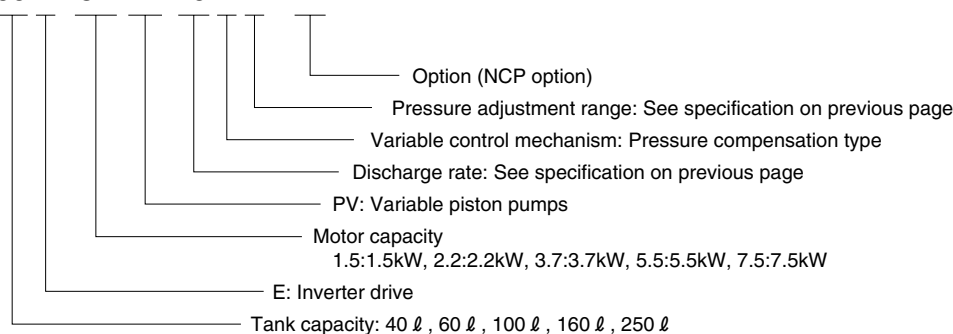
Specifications

1. Power Supply Rated Input Current	3φ AC200 to 220V, 50/60Hz 9.8A/1.5kW (NCP series only) 13.5A/2.2kW 22.5A/3.7kW 21.4A/5.5kW 29.1A/7.5kW (NCP series only)
2. Pressure Adjustment Range	N0: 2.0 to 3.5MPa N1: 2.0 to 7.0MPa N2: 3.0 to 14.0MPa N3: 3.0 to 21.0MPa
3. Output Flow (Theoretical Value at No-load)	8: 14.4 ℓ /min 16: 29.7 ℓ /min 22: 39.6 ℓ /min 35: 63.0 ℓ /min 45: 81.0 ℓ /min
4. Hydraulic Fluid	Standard mineral-based hydraulic fluid ISO VG32 or 46
5. Hydraulic Fluid Temperature	0 to 60°C
6. Ambient Temperature/Humidity	10 to 35°C/20 to 85%RH (non-condensation)
7. Color of Inverter Box	Munsell no. 2.5Y9/1 (cream)

Understanding Model Numbers

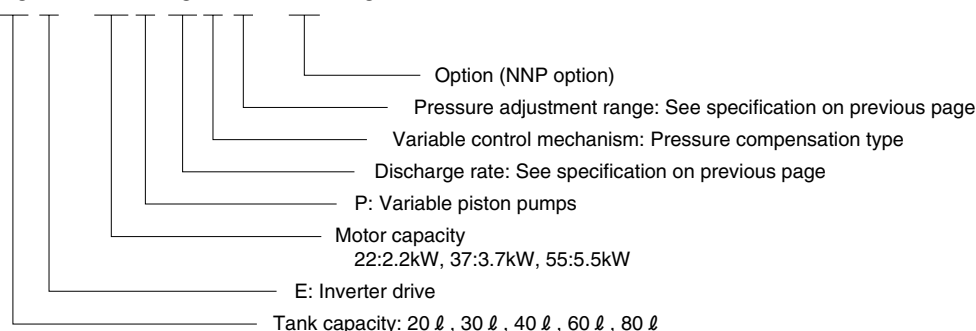
Inverter Drive NCP Series

NCP – 60 E– 3.7 PV 16 N 2 – **– 12



Inverter Drive NNP Series

NNP – 20 E – 22 P 16 N 2 – **– 10



Design Drawings, Dimension Tables

Contact us for more information.

Precautions

- Turning the inverter on and off by cutting the main power supply (circuit breaker) significantly reduces the life of the inverter and should be limited to once an hour.
Contact us if you need to start and stop operations frequently.
- Do not change or adjust any switches except the inverter parameter settings and the pressure setting switches.
- Allow for sufficient flexibility in the piping between the hydraulic unit, external manifold, and actuator.
(Recommended: Flexible hose that is at least 1 meter long)
- Some options are not compatible with the inverter drive models, contact us for more information.
- Contact us if excessive leakage in the external hydraulic circuit limits energy saving efficiency.