



## PRODUCT

### CAPN series pressure swing adsorption (PSA) nitrogen generator ◀



CAPN series pressure swing adsorption (PSA) nitrogen generator is an air separation unit that uses carbon molecular sieve as adsorbent, and utilizes the difference in adsorption rate of oxygen and nitrogen molecular by molecular sieve in compressed air, to directly produce nitrogen from compressed air by the principle of pressure adsorption and desorption. The CAPN Series Nitrogen Generator is a convenient, cost-effective on-site nitrogen generation system that is widely used in a variety of industries with time-proven reliability & durability.

#### Key Features :

- Fast and stable on-site nitrogen production, qualified nitrogen can be produced within a minimum time of 10~20 minutes after started ;
- Lower energy consumption by applying more efficient and stable molecular sieves and unique PSA energy-saving technology ;
- Longer time and higher reliability of high performance & operation under standard configuration of water level alarm and multi-protection technology on molecular sieve ;
- Air and nitrogen tanks are prefabricated in the same skid with nitrogen generator for easy & quick installation at customer jobsite. Easy & quick installation at customer jobsite through prefabricated air and nitrogen tanks in the same skid with nitrogen generator ;
- Local and remote controlling & monitoring can be realized by optional CANBUS multi-function monitoring system and Wi-Ctrl remote wireless monitoring system. The operating conditions of the system are under control ;
- Proprietary nitrogen purity control technology to meets the needs of a variety of nitrogen applications in different industries ;
- A number of patented technologies and original technology applications make the equipment upgraded entirely with energy saving and environmental friendly ;
- Beautiful and durable by powder electrostatic spray process applied in surface treatment ;
- 7\*24 hours comprehensive and professional service ;
- Special models can be customized for petrochemical, pharmaceutical and food, ASME, explosion-proof, Classification Society Certification and other special institutions.

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## Specifications (CAPN-10~80)

| Mainframe | Model    | Purity ( % )                  | 99.9           | 99.5 | 99 | 98   | 95             | Inlet | Outlet |
|-----------|----------|-------------------------------|----------------|------|----|------|----------------|-------|--------|
| CAPN-10   | CAPN-10  | N <sub>2</sub> Flow ( Nm³/h ) | 5              | 7.6  | 10 | 11.2 | 15.2           | DN15  | DN15   |
|           |          | Size ( mm )                   | 1000×1000×1640 |      |    |      |                |       |        |
|           |          | Weight ( KG )                 | 380            |      |    |      |                |       |        |
|           | CAPN-10C | Size ( mm )                   | 1100×1100×1700 |      |    |      |                |       |        |
|           |          | Weight ( KG )                 | 480            |      |    |      |                |       |        |
| CAPN-20   | CAPN-20  | N <sub>2</sub> Flow ( Nm³/h ) | 10             | 16   | 20 | 25.2 | 33.6           | DN20  | DN15   |
|           |          | Size ( mm )                   | 1450×1300×1450 |      |    |      |                |       |        |
|           |          | Weight ( KG )                 | 700            |      |    |      |                |       |        |
|           | CAPN-20C | Size ( mm )                   | 1550×1400×1500 |      |    |      |                |       |        |
|           |          | Weight ( KG )                 | 820            |      |    |      |                |       |        |
| CAPN-30   | CAPN-30  | N <sub>2</sub> Flow ( Nm³/h ) | 15             | 22.8 | 30 | 36   | 48             | DN25  | DN15   |
|           |          | Size ( mm )                   | 1500×1350×1700 |      |    |      |                |       |        |
|           |          | Weight ( KG )                 | 864            |      |    |      |                |       |        |
|           | CAPN-30C | Size ( mm )                   | 1600×1400×1750 |      |    |      |                |       |        |
|           |          | Weight ( KG )                 | 1034           |      |    |      |                |       |        |
| CAPN-40   | CAPN-40  | N <sub>2</sub> Flow ( Nm³/h ) | 20             | 30.4 | 40 | 48   | 64             | DN25  | DN20   |
|           |          | Size ( mm )                   | 1500×1400×2030 |      |    |      |                |       |        |
|           |          | Weight ( KG )                 | 900            |      |    |      |                |       |        |
|           | CAPN-40C | Size ( mm )                   | 1600×1500×2050 |      |    |      |                |       |        |
|           |          | Weight ( KG )                 | 1061           |      |    |      |                |       |        |
| CAPN-50   | CAPN-50  | N <sub>2</sub> Flow ( Nm³/h ) | 25             | 38   | 50 | 60   | 80             | DN25  | DN20   |
|           |          | Size ( mm )                   | 1600×1400×2100 |      |    |      | 1750×1500×2130 |       |        |
|           |          | Weight ( KG )                 | 1100           |      |    |      | 1160           |       |        |
|           | CAPN-50C | Size ( mm )                   | 1700×1500×2150 |      |    |      | 1850×1600×2150 |       |        |
|           |          | Weight ( KG )                 | 1330           |      |    |      | 1390           |       |        |
| CAPN-60   | CAPN-60  | N <sub>2</sub> Flow ( Nm³/h ) | 30             | 45.6 | 60 | 72   | 96             | DN40  | DN25   |
|           |          | Size ( mm )                   | 1750×1650×1900 |      |    |      | 1900×1800×1900 |       |        |
|           |          | Weight ( KG )                 | 1364           |      |    |      | 1414           |       |        |
|           | CAPN-60C | Size ( mm )                   | 1850×1700×1950 |      |    |      | 2000×1850×1950 |       |        |
|           |          | Weight ( KG )                 | 1464           |      |    |      | 1514           |       |        |
| CAPN-80   | CAPN-80  | N <sub>2</sub> Flow ( Nm³/h ) |                | 60.8 | 80 | 96   | 120            | DN40  | DN25   |
|           |          | Size ( mm )                   | 1700×1600×2250 |      |    |      |                |       |        |
|           |          | Weight ( KG )                 | 1544           |      |    |      |                |       |        |
|           | CAPN-80C | Size ( mm )                   | 1800×1700×2300 |      |    |      |                |       |        |
|           |          | Weight ( KG )                 | 1844           |      |    |      |                |       |        |

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## Specifications (CAPN HP-2~35)

| Mainframe  | Model       | Purity(%)                     | 99.999         | 99.995 | 99.99 | 99.9 | 99.5 | Inlet | Outlet |      |
|------------|-------------|-------------------------------|----------------|--------|-------|------|------|-------|--------|------|
| CAPN HP-2  | CAPN HP-2   | N <sub>2</sub> Flow ( Nm³/h ) | 1.1            | 1.8    | 2     | /    |      | DN15  | DN15   |      |
|            |             | Size ( mm )                   | 1120×950×1110  |        |       |      |      |       |        |      |
|            |             | Weight ( KG )                 | 397            |        |       |      |      |       |        |      |
|            | CAPN HP-2C  | Size ( mm )                   | 1200×1100×1150 |        |       |      |      |       |        |      |
|            |             | Weight ( KG )                 | 437            |        |       |      |      |       |        |      |
| CAPN HP-5  | CAPN HP-5   | N <sub>2</sub> Flow ( Nm³/h ) | 2.8            | 4.4    | 5     | /    |      | DN15  | DN15   |      |
|            |             | Size ( mm )                   | 1200×1050×1350 |        |       |      |      |       |        |      |
|            |             | Weight ( KG )                 | 500            |        |       |      |      |       |        |      |
|            | CAPN HP-5C  | Size ( mm )                   | 1300×1100×1400 |        |       |      |      |       |        |      |
|            |             | Weight ( KG )                 | 560            |        |       |      |      |       |        |      |
| CAPN HP-10 | CAPN HP-10  | N <sub>2</sub> Flow ( Nm³/h ) | 5.6            | 8.8    | 10    | /    |      | DN15  | DN15   |      |
|            |             | Size ( mm )                   | 1270×1030×1740 |        |       |      |      |       |        |      |
|            |             | Weight ( KG )                 | 550            |        |       |      |      |       |        |      |
|            | CAPN HP-10C | Size ( mm )                   | 1350×1100×1800 |        |       |      |      |       |        |      |
|            |             | Weight ( KG )                 | 600            |        |       |      |      |       |        |      |
| CAPN HP-20 | CAPN HP-20  | N <sub>2</sub> Flow ( Nm³/h ) | 11.2           | 17.6   | 20    | 32   | /    |       | DN20   | DN15 |
|            |             | Size ( mm )                   | 1500×1500×1700 |        |       |      |      |       |        |      |
|            |             | Weight ( KG )                 | 1000           |        |       |      |      |       |        |      |
|            | CAPN HP-20C | Size ( mm )                   | 1600×1550×1750 |        |       |      |      |       |        |      |
|            |             | Weight ( KG )                 | 1050           |        |       |      |      |       |        |      |
| CAPN HP-30 | CAPN HP-30  | N <sub>2</sub> Flow ( Nm³/h ) | 18.2           | 28.6   | 30    | 50   | /    |       | DN25   | DN15 |
|            |             | Size ( mm )                   | 1700×1500×2100 |        |       |      |      |       |        |      |
|            |             | Weight ( KG )                 | 1320           |        |       |      |      |       |        |      |
|            | CAPN HP-30C | Size ( mm )                   | 1800×1600×2150 |        |       |      |      |       |        |      |
|            |             | Weight ( KG )                 | 1400           |        |       |      |      |       |        |      |
| CAPN HP-35 | CAPN HP-35  | N <sub>2</sub> Flow ( Nm³/h ) | 19.6           | 30.8   | 35    | 56   | 64.4 |       | DN25   | DN15 |
|            |             | Size ( mm )                   | 1600×1450×1950 |        |       |      |      |       |        |      |
|            |             | Weight ( KG )                 | 1400           |        |       |      |      |       |        |      |
|            | CAPN HP-35C | Size ( mm )                   | 1700×1550×2000 |        |       |      |      |       |        |      |
|            |             | Weight ( KG )                 | 1450           |        |       |      |      |       |        |      |



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## Specifications (CAPN HP-40~80)



| Mainframe  | Model       | Purity(%)                     | 99.999         | 99.99 | 99.9 | 99.5           | 99  | 98  | 95  | Inlet | Outlet |
|------------|-------------|-------------------------------|----------------|-------|------|----------------|-----|-----|-----|-------|--------|
| CAPN HP-40 | CAPN HP-40  | N <sub>2</sub> Flow ( Nm³/h ) | 22.4           | 40    | 64   | 80             | 96  | 112 | 160 | DN40  | DN25   |
|            |             | Size ( mm )                   | 1600×1450×2200 |       |      | 1600×800×2130  |     |     |     |       |        |
|            |             | Weight ( KG )                 | 1396           |       |      | 1020           |     |     |     |       |        |
|            | CAPN HP-40C | Size ( mm )                   | 1700×1500×2250 |       |      | /              |     |     |     |       |        |
|            |             | Weight ( KG )                 | 1456           |       |      |                |     |     |     |       |        |
| CAPN HP-50 | CAPN HP-50  | N <sub>2</sub> Flow ( Nm³/h ) | 28             | 50    | 80   | 100            | 120 | 140 | 200 | DN40  | DN25   |
|            |             | Size ( mm )                   | 1700×1550×2160 |       |      | 1700×1050×2060 |     |     |     |       |        |
|            |             | Weight ( KG )                 | 1550           |       |      | 1092           |     |     |     |       |        |
|            | CAPN HP-50C | Size ( mm )                   | 1800×1600×2200 |       |      | /              |     |     |     |       |        |
|            |             | Weight ( KG )                 | 1610           |       |      |                |     |     |     |       |        |
| CAPN HP-60 | CAPN HP-60  | N <sub>2</sub> Flow ( Nm³/h ) | 33.6           | 60    | 96   | 120            | 144 | 168 | 200 | DN40  | DN25   |
|            |             | Size ( mm )                   | 1860×1750×2100 |       |      | 1860×1100×2060 |     |     |     |       |        |
|            |             | Weight ( KG )                 | 2040           |       |      | 1640           |     |     |     |       |        |
|            | CAPN HP-60C | Size ( mm )                   | 1900×1800×2150 |       |      | /              |     |     |     |       |        |
|            |             | Weight ( KG )                 | 2100           |       |      |                |     |     |     |       |        |
| CAPN HP-70 | CAPN HP-70  | N <sub>2</sub> Flow ( Nm³/h ) | 39.2           | 70    | 112  | 140            | 144 | 196 | 280 | DN40  | DN25   |
|            |             | Size ( mm )                   | 1800×1750×2400 |       |      | 1600×800×2130  |     |     |     |       |        |
|            |             | Weight ( KG )                 | 1880           |       |      | 1450           |     |     |     |       |        |
|            | CAPN HP-70C | Size ( mm )                   | 1900×1800×2450 |       |      | /              |     |     |     |       |        |
|            |             | Weight ( KG )                 | 1940           |       |      |                |     |     |     |       |        |
| CAPN HP-80 | CAPN HP-80  | N <sub>2</sub> Flow ( Nm³/h ) | 44.8           | 80    | 128  | 160            | 192 | 224 | 320 | DN40  | DN25   |
|            |             | Size ( mm )                   | 2000×1800×2500 |       |      | 1900×1200×2350 |     |     |     |       |        |
|            |             | Weight ( KG )                 | 2036           |       |      | 1614           |     |     |     |       |        |
|            | CAPN HP-80C | Size ( mm )                   | 2100×1900×2600 |       |      | /              |     |     |     |       |        |
|            |             | Weight ( KG )                 | 2096           |       |      |                |     |     |     |       |        |

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# Specifications (CAPN HP 90-500)

| Mainframe   | Model        | Purity(%)                     | 99.999         | 99.99 | 99.9           | 99.5  | 99   | 98    | 95   | Inlet | Outlet |  |
|-------------|--------------|-------------------------------|----------------|-------|----------------|-------|------|-------|------|-------|--------|--|
| CAPN HP-90  | CAPN HP-90   | N <sub>2</sub> Flow ( Nm³/h ) | 50.4           | 90    | 144            | 180   | 216  | 252   | 360  | DN40  | DN40   |  |
|             |              | Size ( mm )                   | 2000×1800×2500 |       | 2000×1150×2500 |       |      |       |      |       |        |  |
|             |              | Weight ( KG )                 | 2380           |       | 1802           |       |      |       |      |       |        |  |
|             | CAPN HP-90C  | Size ( mm )                   | 2100×1900×2550 |       | /              |       |      |       |      |       |        |  |
|             |              | Weight ( KG )                 | 2440           |       |                |       |      |       |      |       |        |  |
| CAPN HP-100 | CAPN HP-100  | N <sub>2</sub> Flow ( Nm³/h ) | 52.5           | 100   | 150            | 187.5 | 225  | 262.5 | 375  | DN40  | DN40   |  |
|             |              | Size ( mm )                   | 2100×1950×2250 |       | 2100×1200×2250 |       |      |       |      |       |        |  |
|             |              | Weight ( KG )                 | 2730           |       | 2180           |       |      |       |      |       |        |  |
|             | CAPN HP-100C | Size ( mm )                   | 2200×2000×2300 |       | /              |       |      |       |      |       |        |  |
|             |              | Weight ( KG )                 | 2800           |       |                |       |      |       |      |       |        |  |
| CAPN HP-120 | CAPN HP-120  | N <sub>2</sub> Flow ( Nm³/h ) | 67.2           | 120   | 192            | 240   | 288  | 336   | 480  | DN50  | DN40   |  |
|             |              | Size ( mm )                   | 2100×1950×2670 |       | 2100×1200×2500 |       |      |       |      |       |        |  |
|             |              | Weight ( KG )                 | 2900           |       | 2240           |       |      |       |      |       |        |  |
|             | CAPN HP-120C | Size ( mm )                   | 2200×2000×2750 |       | /              |       |      |       |      |       |        |  |
|             |              | Weight ( KG )                 | 2980           |       |                |       |      |       |      |       |        |  |
| CAPN HP-150 | CAPN HP-150S | N <sub>2</sub> Flow ( Nm³/h ) | 88.2           | 150   | 252            | 315   | 378  | 441   | 630  | DN50  | DN40   |  |
|             |              | Size ( mm )                   |                |       | 2200×1300×2700 |       |      |       |      |       |        |  |
|             |              | Weight ( KG )                 |                |       | 3150           |       |      |       |      |       |        |  |
| CAPN HP-200 | CAPN HP-200S | N <sub>2</sub> Flow ( Nm³/h ) | 112            | 200   | 320            | 400   | 480  | 560   | 800  | DN65  | DN50   |  |
|             |              | Size ( mm )                   |                |       | 2200×1400×2850 |       |      |       |      |       |        |  |
|             |              | Weight ( KG )                 |                |       | 4120           |       |      |       |      |       |        |  |
| CAPN HP-250 | CAPN HP-250S | N <sub>2</sub> Flow ( Nm³/h ) | 140            | 250   | 440            | 500   | 600  | 700   | 1000 | DN65  | DN50   |  |
|             |              | Size ( mm )                   |                |       | 2200×1500×3050 |       |      |       |      |       |        |  |
|             |              | Weight ( KG )                 |                |       | 4170           |       |      |       |      |       |        |  |
| CAPN HP-300 | CAPN HP-300S | N <sub>2</sub> Flow ( Nm³/h ) | 168            | 300   | 480            | 600   | 720  | 840   | 1200 | DN80  | DN50   |  |
|             |              | Size ( mm )                   |                |       | 2200×1500×3400 |       |      |       |      |       |        |  |
|             |              | Weight ( KG )                 |                |       | 4260           |       |      |       |      |       |        |  |
| CAPN HP-400 | CAPN HP-400S | N <sub>2</sub> Flow ( Nm³/h ) | 224            | 400   | 640            | 800   | 960  | 1120  | 1600 | DN80  | DN80   |  |
|             |              | Size ( mm )                   |                |       | 2200×1500×3900 |       |      |       |      |       |        |  |
|             |              | Weight ( KG )                 |                |       | 5260           |       |      |       |      |       |        |  |
| CAPN HP-500 | CAPN HP-500S | N <sub>2</sub> Flow ( Nm³/h ) | 280            | 500   | 800            | 1000  | 1200 | 1400  | 2000 | DN80  | DN80   |  |
|             |              | Size ( mm )                   |                |       | 2200×1600×4400 |       |      |       |      |       |        |  |
|             |              | Weight ( KG )                 |                |       | 6130           |       |      |       |      |       |        |  |

Note: for more models, welcome to consult our sales engineer.

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