## HDX

0,017-18,667 m<sup>3</sup>/min



NITROGEN PURIFIER Systems

Hertz's brand new HDX Nitrogen Treatment System offers an extremely economic means of increasing the required nitrogen purity beyond 99.9% to 99.999%.

The HDX Series uses a specially designed catalyst with a large surface area to increase nitrogen purity. The oxygen left on the catalyst surface after the reaction is reduced to no more than 10 ppm. HDX Nitrogen Treatment Devices when used in conjunction with Nitrogen Generator System use small amounts of hydrogen to prevent compressed air loss and deliver very pure nitrogen. This system delivers very pure nitrogen while keeping power consumption to a minimum.

## Advantages

- Short payback period
- Small footprint
- Long-lasting efficiency ( > 10 years)
- Best quality high-performance solutions
- Investing in a lower capacity HDX system instead of a higher capacity HNG system for the same purity of nitrogen reduces costs and saves on energy
- Up to 99.999% nitrogen purity with minimum space and energy requirements
- Low energy consumption
- Low CO<sub>2</sub> emissions
- Heavy-duty build designed for hard conditions and industrial use
- High-quality and durable components
- System produces minimum 99.999% pure nitrogen with a very low air/nitrogen ratio (3.0 instead of 8.4).
- Compact design, fully automated system
- 24/7 nitrogen production at the desired purity
- High energy savings
- Low-cost and special production
- Minimum maintenance costs



## Working Principle

Compared with existing applications, Hertz's compact designed Nitrogen Treatment System can take nitrogen produced at 99.9% purity and convert it to 99.999% pure nitrogen while delivering considerable energy savings in nitrogen production costs.

The system uses a catalytic reaction to remove the oxygen left over from the HNG generator from the PSA Nitrogen Generator outlet by utilizing the reaction between the residual oxygen and hydrogen to produce 99.999% pure nitrogen. The only by-product of this catalytic reaction is water.

The low cost of the hydrogen needed for the reaction results in considerable long-term savings. In fact, this newly developed nitrogen purifier lets you produce extremely pure nitrogen using lower capacity air compressors and equipment.

As the reaction increases the temperature of the nitrogen, the HDX Nitrogen Purifying System is integrated into a High-Temperature Air Dryer, combining two products in a single unit for a complete solution.

| HDX 10 0,017   HDX 20 0,033   HDX 35 0,058   HDX 60 0,100   HDX 95 0,173   HDX 120 0,232   HDX 150 0,283   HDX 250 0,452   HDX 330 0,597   HDX 450 0,807   HDX 510 0,925   HDX 570 1,027   HDX 730 1,343   HDX 1110 1,998   HDX 1230 2,205   HDX 1370 2,443   HDX 1820 3,303   HDX 2550 4,618   HDX 2550 5,697   HDX 3540 6,675   HDX 4160 7,698 | Model     | N <sub>2</sub> Flow at 99.999%<br>Purity (m³/min) |
|--|-----------|---|
| HDX 35 0,058   HDX 60 0,100   HDX 95 0,173   HDX 120 0,232   HDX 150 0,283   HDX 250 0,452   HDX 330 0,597   HDX 450 0,807   HDX 510 0,925   HDX 570 1,027   HDX 730 1,343   HDX 1110 1,998   HDX 1230 2,205   HDX 1370 2,443   HDX 1820 3,303   HDX 2550 4,618   HDX 2950 5,697   HDX 3540 6,675   HDX 4160 7,698                               | HDX 10    | 0,017   |
| HDX 60 0,100   HDX 95 0,173   HDX 120 0,232   HDX 150 0,283   HDX 250 0,452   HDX 330 0,597   HDX 450 0,807   HDX 510 0,925   HDX 730 1,343   HDX 1110 1,998   HDX 1230 2,205   HDX 1370 2,443   HDX 1820 3,303   HDX 2550 4,618   HDX 2950 5,697   HDX 3540 6,675   HDX 4160 7,698  | HDX 20    | 0,033   |
| HDX 95 0,173   HDX 120 0,232   HDX 150 0,283   HDX 250 0,452   HDX 330 0,597   HDX 450 0,807   HDX 510 0,925   HDX 730 1,027   HDX 730 1,643   HDX 1110 1,998   HDX 1230 2,205   HDX 1370 2,443   HDX 2050 3,852   HDX 2950 4,618   HDX 3540 6,675   HDX 4160 7,698  | HDX 35    | 0,058   |
| HDX 120 0,232   HDX 150 0,283   HDX 250 0,452   HDX 330 0,597   HDX 450 0,807   HDX 510 0,925   HDX 570 1,027   HDX 730 1,343   HDX 1110 1,998   HDX 1230 2,205   HDX 1820 3,303   HDX 2550 4,618   HDX 2950 5,697   HDX 3540 6,675   HDX 4160 7,698   | HDX 60    | 0,100   |
| HDX 150 0,283   HDX 250 0,452   HDX 330 0,597   HDX 450 0,807   HDX 510 0,925   HDX 570 1,027   HDX 730 1,343   HDX 1110 1,998   HDX 1230 2,205   HDX 1820 3,303   HDX 2550 4,618   HDX 2950 5,697   HDX 3540 6,675   HDX 4160 7,698   | HDX 95    | 0,173   |
| HDX 250 0,452   HDX 330 0,597   HDX 450 0,807   HDX 510 0,925   HDX 570 1,027   HDX 730 1,343   HDX 910 1,643   HDX 1230 2,205   HDX 1820 3,303   HDX 2550 4,618   HDX 2950 5,697   HDX 3540 6,675   HDX 4160 7,698  | HDX 120   | 0,232   |
| HDX 330 0,597   HDX 450 0,807   HDX 510 0,925   HDX 570 1,027   HDX 730 1,343   HDX 910 1,643   HDX 1110 1,998   HDX 1230 2,205   HDX 1820 3,303   HDX 2050 3,852   HDX 2950 5,697   HDX 3540 6,675   HDX 4160 7,698   | HDX 150   | 0,283   |
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| HDX 510 0,925   HDX 570 1,027   HDX 730 1,343   HDX 910 1,643   HDX 1110 1,998   HDX 1230 2,205   HDX 1820 3,303   HDX 2050 3,852   HDX 2950 5,697   HDX 3540 6,675   HDX 4160 7,698   | HDX 330   | 0,597   |
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| HDX 1820   3,303     HDX 2050   3,852     HDX 2550   4,618     HDX 2950   5,697     HDX 3540   6,675     HDX 4160   7,698  | HDX 1230  | 2,205   |
| HDX 2050   3,852     HDX 2550   4,618     HDX 2950   5,697     HDX 3540   6,675     HDX 4160   7,698   | HDX 1370  | 2,443   |
| HDX 2550   4,618     HDX 2950   5,697     HDX 3540   6,675     HDX 4160   7,698  | HDX 1820  | 3,303   |
| HDX 2950   5,697     HDX 3540   6,675     HDX 4160   7,698   | HDX 2050  | 3,852   |
| HDX 3540   6,675     HDX 4160   7,698  | HDX 2550  | 4,618   |
| HDX 4160 7,698   | HDX 2950  | 5,697   |
|  | HDX 3540  | 6,675   |
|  | HDX 4160  | 7,698   |
| HUX 5560 9,267   | HDX 5560  | 9,267   |
| HDX 6050 11,438  | HDX 6050  | 11,438  |
| HDX 7500 13,607  | HDX 7500  | 13,607  |
| HDX 9170 15,283  | HDX 9170  | 15,283  |
| HDX 11200 18,667   | HDX 11200 | 18,667  |



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