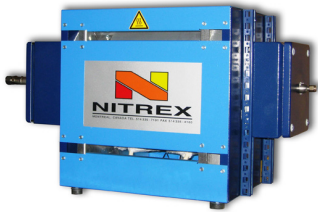


COST EFFECTIVE & ECOLOGICALLY FRIENDLY

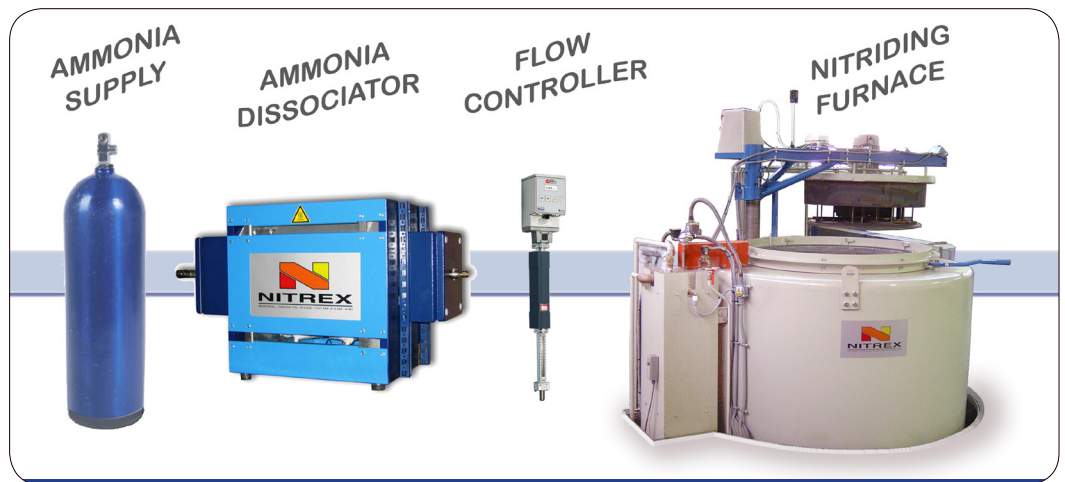


Since 1984, **Nitrex Metal** has been involved in the development of heat treatment technologies and a range of process equipment. Included in this range is our line of **Ammonia Dissociators** designed to generate process atmospheres.

COST-EFFECTIVE PROCESS DISSOCIATOR

The Nitrex Dissociator produces gases for processes requiring hydrogen by dissociating anhydrous ammonia. When dissociated ammonia is used as an additive gas for nitriding processes or as a principal component for protective and bright atmospheres, the Nitrex Dissociator provides high quality atmospheres at a low cost.

The Nitrex ammonia dissociator as a part of a nitriding installation



FEATURES

The Nitrex Dissociator is designed to function in a completely automatic mode. The dissociation retort, which houses the catalyst, is made of refractory alloy to effectively sustain service longevity.

- Compact, self-contained design
- High efficiency catalyst
- Embedded Kanthal elements
- Overheat protection
- PID heating control
- Light ceramic Insulation for high energy efficiency

IDEAL APPLICATIONS

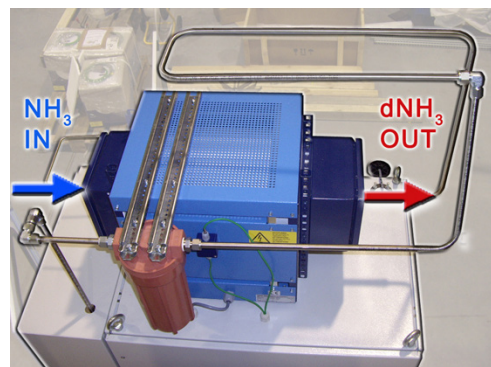
- Nitriding
- Bright copper and silver brazing
- Bright annealing
- Sintering

DESIGN & OPERATION

Anhydrous ammonia cracks into 75% hydrogen and 25% nitrogen when it passes through the retort and comes into contact with the catalyst heated between 1700-1740°F (925-950°C).

MOUNTING OPTIONS

The Nitrex dissociator can be mounted horizontally on top of a cabinet or vertically inside a cabinet.



Example of a Model DP-40 with a horizontally mounted retort on a free standing gas control cabinet.



Example of a Model DP-80 with a vertically mounted retort in a free standing gas control cabinet.

MODELS & SPECIFICATIONS

CHARACTERISTICS	DP-40
Max process gas flow output	85 cfh (40 l/min)
Working temperature	1700-1740 °F (925-950 °C)
Maximum temperature	1830 °F (1000 °C)
Supply voltage/frequency	220 - 240 VAC / 1 or 2 Phase / 50 - 60 Hz
Installed power	4 kW
Weight	42 kg / 93 lbs.

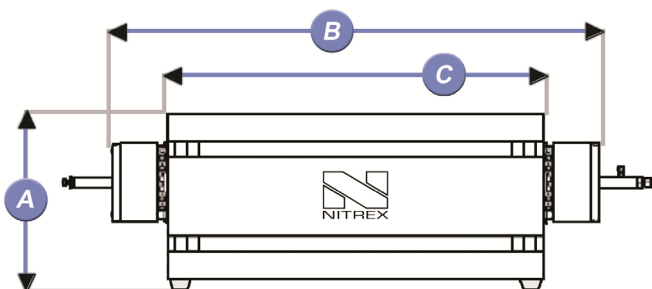
DIMENSIONS	
A	420 mm / 16.5"
B	650 mm / 25.5"
C	400 mm / 15.75"
D	350 mm / 14"
E	810 mm / 32"

CHARACTERISTICS	DP-80
Max process gas flow output	170 cfh (80 l/min)
Working temperature	1700-1740 °F (925-950 °C)
Maximum temperature	1830 °F (1000 °C)
Supply voltage/frequency	400 VAC / 1 or 2 Phase / 50 - 60 Hz
Installed power	9 kW
Weight	55 kg / 121 lbs.

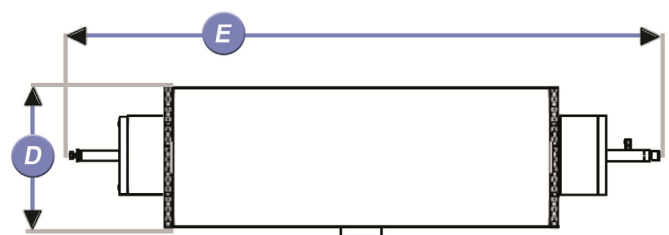
DIMENSIONS	
A	420 mm / 16.5"
B	1200 mm / 47.25"
C	950 mm / 37.5"
D	350 mm / 14"
E	1360 mm / 53.5"

Note: Other sizes available upon request. Please contact Nitrex for details.

SIDE VIEW



TOP VIEW



Green Solutions

Solutions that minimize emissions and energy usage and limit harmful waste products.

NORTH AMERICA
T: +1-514 335 7191
F: +1 514 335 4160
nitrex@nitrex.com

POLAND
T: +48 32 296 6630
F: +48 32 296 6620
nitrex.europe@nitrex.com

CHINA
T: +86 (0) 10 6257 3050
F: +86 (0) 10 6252 9914
nitrex.china@nitrex.com

