

ENGINEERING TOMORROW

Danfoss Industrial Refrigeration | Intelligent Purger System

See air purging in a new light Straightforward installation and continuous efficiency and safety

The Danfoss Intelligent Air Purger, IPS 8 for Industrial Refrigeration ammonia plants includes the natural environmentally friendly green refrigerant, Propane (R290).

With less then 150 gram R290 refrigerant charge and a very low GWP it continues to demonstrate a very high efficiency.

With its compact design, easy installation and automatic purging functionality, the new Danfoss IPS helps improve the operational safety, efficiency and cost-effectiveness of industrial refrigeration systems.





Advanced air purger solution for **industrial refrigeration**

The new Danfoss Intelligent Purger System (IPS) is an automatic, self-contained operating unit that helps remove non-condensable gases in a safe and energy-efficient way. This helps maintain an optimum refrigeration capacity and system efficiency, allowing professionals to achieve maximum system performance.



Technical data

Supply voltage	230 V AC, 50 Hz / 230 V AC, 60 Hz / 115V AC, 60Hz
Current	3.7 A
Power consumption	1.3 kW
Ambient temp, operation	-10°C to +43°C (14°F to 109°F)
Ambient temp, transport	-30°C to 55°C (-22°F to 131°F)
Enclosure	IP55
Weight	90 kg (199 lbs)
Dimensions (LxWxH)	1051 x 441 x 703 mm (41.4 x 17.4 x 27.7 inches)
Purger refrigerant	R290 below 150 gram (5.3 oz)
System refrigerant	R717 minimum 6 bar (87 psi)
Max operating pressure (R717)	40 bar (580 psi)
Operating temperature (R717)	-40°C to +60°C (-40°F to +140°F)

Benefits of the Danfoss IPS 8



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- Cost-effective design with few mechanical and electrical connection interfaces
- Minimizes the risk of leakage thanks to the fully brazed internal cooling system
- Plug and play, stand-alone unit eases installation and commissioning – low risk of potential error
- No need for any advanced settings
- Easy to handle with its compact design
- Fast and easy pump down before service



Maximize system performance

- Automatic purging response to non-condensable gases in the refrigeration system
- Constant high pressure differential pressure between refrigerant and purger refrigerant independent of system suction or condensing pressure
- Reduction of plant power consumption
- 8 point purger functionality



Improve operational safety

- Advanced Bubbler support functions included
- LLS 4000 support increase system protection level
- Electronic purging helps reduce the risk of refrigerant release to the environment
- Self-contained operating unit functions independently from the main plant
- Easy monitoring of past purging cycles data with operation log
- Self-diagnostics for unit and system operation to shut down in case of malfunction of air purger components

Visit **IPS.danfoss.com** to discover more about the new Danfoss IPS

Any information, including, but not limited to information on selection of product, its application or use, product design, weight, dimensions, capacity or any other technical data in product manuals, catalogues descriptions, advertisements, etc. and whether made available in writing, orally, electronically, online or via download, shall be considered informative, and is only binding if and to the extent, explicit reference is made in a quotation or order confirmation. Danfoss cannot accept any responsibility for possible errors in catalogues, brochures, videos and other material. Danfoss reserves the right to alter its products without notice. This also applies to products ordered but not delivered provided that such alterations can be made without changes to form, fit or function of the product. All trademarks in this material are property of Danfoss A/S or Danfoss group companies. Danfoss logo are trademarks of Danfoss A/S. All rights reserved.