



## Operator Installation & Instruction Manual

### AUTO-PURGER® PLUS, APP Non-condensable Gas (Air) & Water Purger for Ammonia

### Operator Installation & Instruction Manual for Models APP08, APP16, APP24 and APPC

## SECTION 1 INTRODUCTION

The AUTO-PURGER Plus is a totally automatic, electronically controlled refrigerant noncondensable gas (air) and water purger for reducing the energy costs of operating an ammonia refrigeration system. All models are preassembled, pre-wired, insulated, and include an automatic water bubbler, a relief valve, and an isolation service valve package. Installation requires piping the foul gas line, low-pressure pumped-liquid line, low-pressure liquid return line, suction line, water bubbler fill and drain lines, relief valve vent line, water purge line to a customer supplied container, and power connection, and wiring the remote purge point solenoid valves. Purge point solenoid valves must be purchased separately and must be a minimum of 1/2" (13 mm) port size.

In addition, a computerized model—APPC—is available where a separate plant computer or programmable logic controller (PLC) is used to independently operate the various remote purge point solenoid valves.

Water contamination in an industrial ammonia refrigeration system can lower system efficiency, and increase the electrical costs required to run the system's refrigeration compressors. Ammonia refrigerant that is contaminated with water requires a lower suction pressure to maintain the same evaporator temperature than would pure ammonia refrigerant. The requirement to maintain a lower suction pressure than would be necessary if the water contamination were removed is a waste of electrical energy.

For water removal, the AUTO-PURGER Plus has the following capacities:

1% system water concentration – 1/2 gallon of water removed per week,

5% system water concentration – 1 gallon of water removed per day,

10% system water concentration – 3 gallons of water removed per day,

20% or more system water concentration – 5 gallons of water removed per day.

In a system with normal noncondensable loads, all models will handle a 750 ton (2600 kW) ammonia plant at suction pressures below atmospheric pressure or a 1500 ton (5300 kW) ammonia plant at positive suction pressures. The amount of non-condensibles in the system is based on many factors including age, maintenance practices, and operating temperature.

The number of purgers required for a system depends on the number of installed purge points. Twenty-four purge points is the maximum practical number per purger. For example, a system with 24 points at 10 minutes per point requires a 240 minute (4 hour) cycle. Each purge point can be purged 6 times a day. This may, or may not, be adequate. Therefore, a second purger should be used and the purge points divided equally between the two purgers.

The AUTO-PURGER Plus can operate over a wide range of condensing pressures. This is important for refrigeration systems that operate at low condensing pressures during cold ambient conditions.

## MATERIAL SPECIFICATIONS

Material of construction: steel, ASTM A53 Grade B, ASTM A106 Grade B, ASTM A234 Grade WPB, ASTM A105.

Maximum allowable working pressure: 400 psig (27 bar).

Minimum design metal temperature: -60F (-50C).

Internal volume: 6.5 cubic feet (14 liters).

Normal refrigerant inventory: 9.27 cubic feet (7.5 liters)

# Hansen Auto Purger Manual

**G Orfield**



## **Hansen Auto Purger Manual:**

**Refrigeration Systems and Applications** Ibrahim Dinçer, 2017-03-22 The definitive text reference for students researchers and practicing engineers This book provides comprehensive coverage on refrigeration systems and applications ranging from the fundamental principles of thermodynamics to food cooling applications for a wide range of sectoral utilizations Energy and exergy analyses as well as performance assessments through energy and exergy efficiencies and energetic and exergetic coefficients of performance are explored and numerous analysis techniques models correlations and procedures are introduced with examples and case studies There are specific sections allocated to environmental impact assessment and sustainable development studies Also featured are discussions of important recent developments in the field including those stemming from the author's pioneering research Refrigeration is a uniquely positioned multi disciplinary field encompassing mechanical chemical industrial and food engineering as well as chemistry Its wide ranging applications mean that the industry plays a key role in national and international economies And it continues to be an area of active research much of it focusing on making the technology as environmentally friendly and sustainable as possible without compromising cost efficiency and effectiveness This substantially updated and revised edition of the classic text reference now features two new chapters devoted to renewable energy based integrated refrigeration systems and environmental impact sustainability assessment All examples and chapter end problems have been updated as have conversion factors and the thermophysical properties of an array of materials Provides a solid foundation in the fundamental principles and the practical applications of refrigeration technologies Examines fundamental aspects of thermodynamics refrigerants as well as energy and exergy analyses and energy and exergy based performance assessment criteria and approaches Introduces environmental impact assessment methods and sustainability evaluation of refrigeration systems and applications Covers basic and advanced and hence integrated refrigeration cycles and systems as well as a range of novel applications Discusses crucial industrial technical and operational problems as well as new performance improvement techniques and tools for better design and analysis Features clear explanations numerous chapter end problems and worked out examples Refrigeration Systems and Applications Third Edition is an indispensable working resource for researchers and practitioners in the areas of Refrigeration and Air Conditioning It is also an ideal textbook for graduate and senior undergraduate students in mechanical chemical biochemical industrial and food engineering disciplines **ASHRAE Journal** ,1986

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## **Table of Contents Hansen Auto Purger Manual**

1. Understanding the eBook Hansen Auto Purger Manual
  - The Rise of Digital Reading Hansen Auto Purger Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Hansen Auto Purger Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Hansen Auto Purger Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Hansen Auto Purger Manual
  - Personalized Recommendations
  - Hansen Auto Purger Manual User Reviews and Ratings
  - Hansen Auto Purger Manual and Bestseller Lists
5. Accessing Hansen Auto Purger Manual Free and Paid eBooks
  - Hansen Auto Purger Manual Public Domain eBooks
  - Hansen Auto Purger Manual eBook Subscription Services
  - Hansen Auto Purger Manual Budget-Friendly Options

6. Navigating Hansen Auto Purger Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Hansen Auto Purger Manual Compatibility with Devices
  - Hansen Auto Purger Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Hansen Auto Purger Manual
  - Highlighting and Note-Taking Hansen Auto Purger Manual
  - Interactive Elements Hansen Auto Purger Manual
8. Staying Engaged with Hansen Auto Purger Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Hansen Auto Purger Manual
9. Balancing eBooks and Physical Books Hansen Auto Purger Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Hansen Auto Purger Manual
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Hansen Auto Purger Manual
  - Setting Reading Goals Hansen Auto Purger Manual
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Hansen Auto Purger Manual
  - Fact-Checking eBook Content of Hansen Auto Purger Manual
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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