



Model APM

## Specifications, Applications, Service Instructions & Parts

**AUTO-PURGER® M**  
"Energy Saver"  
Compact, Non-condensible  
Gas (Air) Purger

For Models APM & APMF



## SECTION 1 MOUNTING & PIPING INSTALLATION

### INTRODUCTION

The AUTO-PURGER® M is a compact and totally automatic, electronically-controlled, noncondensable gas refrigerant purger for reducing condensing pressure, and thereby saving electrical energy used by the refrigeration system. This defuse purger is preassembled, prewired, tested, insulated, and includes an automatic water bubbler. Installation requires piping the foul gas line, liquid line, suction line, water line, drain line, and wiring the power connection and the remote "n" (13 mm) port purge point solenoid valves, which must be purchased separately. Up to four (4) purge points can be controlled by this purger. The AUTO-PURGER® M (APM) features welded piping and watertight electrical construction. The APM meets the requirements of the Canadian Standards Association (CSA certified).

A typical APM installed in a plant with normal-entering noncondensable loads will handle up to a 200 ton (750 kW) system. Each purge point will be active between 10 and 30 minutes, depending on the noncondensable gas presence (mostly air) and the purger mode of operation.

Model APMF AUTO-PURGERS are for use in halocarbon refrigeration systems. The installation and operation of these AUTO-PURGERS are similar to that of an ammonia AUTO-PURGER M. See page 13 for additional details.

### MOUNTING INSTRUCTIONS

Mount the APM straight and securely on a wall or sturdy steel channels capable of supporting 350 lbs (160 Kgf). Eight mounting holes in the frame are provided to support the purger (See Figure 1). The APM should be located in an accessible area, but away from the movement of equipment that could accidentally damage the purger. Elevation with respect to condensers or high-pressure receivers is not critical, however, purge point solenoid valves must be above the purger.

An APM is usually installed in the compressor room where it can be monitored, but also may be installed outdoors where temperatures below freezing are not anticipated. The APM comes standard with a watertight NEMA 13 (IP65, Category 2) control cabinet enclosure with sealed conduit wiring. Any unused electrical entrances to the enclosure must be sealed to protect electronics from moisture. A NEMA 4 cabinet enclosure is available.

An optional valve package (VPM) for purger isolation is available from Hansen. This consists of three welded assemblies which include shut-off valves, gauge valves, and mating flanges. An illustration detailing this optional valve package is on page 12 (Figure 13).

### FOUL GAS PIPING

Purging at several points, up to four with the APM, on the high-pressure side of the system is the best method for removing foul gas. Foul gas is refrigerant gas containing some air or other noncondensibles. Several points should be used because it is nearly impossible to predict where noncondensable gas will accumulate in a system.

Even for multipoint purging, only one purge point should be purged at a time. Connecting two purge points from two condensers or receivers may result in gas flowing from one condenser to another. This is due to an unequal pressure drop, even though the differences in pressure drop are very small, for example 1/4 psig (0.02 bar). The result would be that, even in the best of circumstances, only one point is effectively purged. The best practice is to purge each condenser and receiver circuit separately.

When utilizing multipoint purging, the purge point solenoid valves can be manifolded into one foul gas line to the purger. A "n" (13 mm) size line is the minimum and should be pitched toward the purger to drain any condensed liquid. Also, no liquid traps are allowed either before or after the purge point solenoid valves (See Figure 2). The foul gas line should not pass through cold areas where

# Hansen Purger Manual

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