

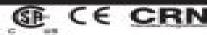


Advantal APM

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-PURGERS M is a compact and totally automatic, electronically-controlled, noncondensible gas refrigerant purger for reducing condensing pressure, and thereby assing electrical energy used by the refrigeration system. This deluce 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 th' (13 mm) port purge point solehold valves, which must be purchased separately. Up to four (4) purge points can be controlled by this purger. The AUTO-PURGERS 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 non-condensible loads will handle up to a 200 ten (700 kW) system. Each purps point will be active between 10 and 30 minutes, depending as the noncondensible gas presence (mostly sir) and the purper 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 12 for additional details.

MOUNTING INSTRUCTIONS

Mount the APM straight and securely on a wall or sturdy steel channels capable of supporting 350 lbs (166 kg). Eight mounting holes in the frame are provided to support the purger (See Pigure I). The APM should be located in an accessible area, but away from the movement of equipment that sould accidentally damage the purger. Elevation with respect to condensers or high-pressure receivers is not critical, however, purge point solesoid valves must be above the purger.

An APM is usually installed in the compresser reom where it can be monitored, but also may be installed outdoors where temperatures below freezing are not priticipated. The APM comes standard with a watertight NEMA 13 8P65. Category 2) control cabinet enclosure with sealed conduit wiring. Any unused electrical entrances to the enclosure must be sealed to protect electronics from meisture. A NEMA 4 cabinet enclosure is evaluable.

An optional valve package (VPM) for purger isolation is available from Hansen. This consists of three welded assembles which include shut-off valves, gauge valves, and making flanges. As illustration detailing this optional valve package is on page 12 (Figure 53).

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 noncondensible 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 to point (0.62 bar). The result would be that, even in the best of dirounstances, 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 toul gas line should not pass through cold areas where

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