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BULLETIN

LITERATURE FILE NO.

HCOM-SB-26

**GENERAL
SERVICE BULLETIN**

Since the Trane Company has a policy of continuous product improvement, it reserves the right to change specifications and design without notice. The installation and servicing of the equipment referred to in this booklet should be done by qualified, experienced technicians.

8/11/78
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SUBJECT: MODEL M COMPRESSOR, UNLOADER VALVE RATTLE

INTRODUCTION:

The purpose of this bulletin is to identify unloader solenoid valves on Model M compressors that do not fully unload the compressor. These valves may be found in the field on units that are not factory run-in, such as split systems and commercial self-contained units with Model M compressors and on replacement compressors. CGAA, CGWA and rooftop units should not be affected since these units are run-in at the factory and the valves that do not operate properly are replaced at that time.

DISCUSSION:

The green colored Asco solenoid valve used on the Model M compressor may not fully unload the compressor due to a restricted feedport. Valves that may have this condition are identified by a valve nameplate serial number below 75855E.

Symptoms of a restricted solenoid valve feedport are:

1. The compressor will not fully unload.
2. Unloader valve chatter accompanied by a rattling sound in the area of the compressor head which can be misdiagnosed as compressor mechanical failure.

The incomplete compressor unloading is the result of a restricted discharge gas feedport in the Asco valve body. The restricted feedport prevents passage of sufficient gas volume to completely displace the unloader valve to the unload position. This is further aggravated if the unloader valve-to-valve bore clearance is at maximum tolerance. This allows additional leakage and the restricted port cannot provide sufficient gas volume to overcome the leakage.

CORRECTIVE ACTION:

Do not attempt to rework the valve in the field. Critical drill depth must be maintained to have proper valve operation.

All Asco valves, Trane part number VAL-985, with serial numbers prior to 75855E should be purged from parts stock. All Asco unloader valves should be checked on all "M" compressors in stock for possible replacement.