HARTFORD® COMPRESSORS

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**PRODUCT CHANGE ANNOUNCEMENT**

# NEW ("E" Style) UNLOADERS FOR RHC COMPRESSORS

This compressor contains the new style unloading heads. This design is more efficient than the earlier "U" style. The unloading manifold is no longer necessary.

This new style unloader has the additional benefit of providing two steps of unloading if required. The compressor will unload as follows:

3 cylinder compressors: *One cylinder unloads per cylinder head*

4 cylinder compressors: *One cylinder unloads per cylinder head*

6 cylinder compressors: *Two cylinders unload per cylinder head*

This will result in the following:

| Number of Cylinders | Number of Controlled Cylinders | Steps of Control | Capacity Steps (% of Full Load) | | | | |
|---|---|---|---|---|---|---|---|
| | | | 100 | 75 | 66 | 50 | 33 |
| | | | No. of Active Cylinders | | | | |
| 3 | 1 | 1 | 3 | - | 2 | - | - |
| 4 | 2 | 2 | 4 | 3 | - | 2 | - |
| 6 | 4 | 2 | 6 | - | 4 | - | 2 |

*Old "U" Style*

**IMPORTANT**

On the **"U"** style compressors, the unload solenoid must be energized to **unload** the compressor.

On the **"E"** style compressors, the unload solenoid(s) must be energized to **load** the compressor.

*New "E" Style*

The cylinders are unloaded with the solenoids de-energized. Unloading occurs when the solenoids are energized. When the compressor is operating with unloaded cylinders, gas flows by them to provide extra cooling and reduce the chance of cylinder overheating.

In order to load the compressor a pressure differential of 50 psid between suction and discharge must be obtained and the unloader solenoid(s) must be de-energized. The most common way to accomplish this would be via a thermostat(s) or pressure switch(es) with a minimum contact rating of 1 amp.

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