

Hi-Velocity RBM I Refrigerant Base Module Instruction Manual

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Hi-Velocity RBM I Refrigerant Base Module

Product Information

RBM-I Refrigerant Base Module

The RBM-I Series cooling coil is a module designed for use with HVS-24, HVS-36, and HVS-60 Variable Speed Heat Pumps. It can be installed in the vertical or horizontal position on the return air side of the air handler. The RBM-I comes with T-mounting brackets, access port(s), an external freeze stat, and additional components for air sealing. All Energy Saving Products R-Series modules come standard with R-410A refrigerant components. This module does not come with a thermal expansion valve (TXV) as it is designed to be used with heat pumps that have internal EXVs. When installing the RBM-I Modules, it is important not to install with TXVs. The RBM-I module includes access port(s) for reading refrigerant pressures/temperatures at the Evaporator (RBM-I). The approximate installation locations for these components are shown in Fig. 01. The RBM-I module can be installed as a stand (return air base) for the air handler or as a side-mounted coil. It can be adapted to different orientations, such as left to up/right or right to up/left. Please refer to page 3 for steps on how to adapt the coil to up/left orientation.

There are four different configurations in which the RBM-I module can be installed:

- **A:** Entering air in through the left, leaving through the top.
- **B:** Entering air in through the left, leaving through the right.
- **C:** Entering air in through the right, leaving through the top.
- **D:** Entering air in through the right, leaving through the left.

It is important to note that the Freeze Stat (anti-ice control) must be used at all times to prevent severe icing of the coil in the event of an undercharge or low load. Failure to properly install the freeze stat will result in RBM-I related warranty issues being voided.

Note: Do not remove the protective bubble wrap from the Freeze Stat.

Product Usage Instructions

1. Determine the desired air inlet side for installation (left or right).
2. Choose the appropriate configuration (A, B, C, or D) based on the desired air inlet and outlet directions.

3. If necessary, adapt the RBM-I module to the up/left orientation by following the steps provided on page 3 of the manual.
4. Install the RBM-I module on the return air side of the air handler, either vertically or horizontally, using the included T-mounting brackets.
5. Ensure that the access port(s) are properly installed to allow for reading refrigerant pressures and temperatures at the Evaporator (RBM-I).
6. Connect the RBM-I module to the appropriate HVS-24, HVS-36, or HVS-60 Inverter Heat Pump Condensing Unit.
7. Make sure to use R-410A refrigerant components when connecting the RBM-I module to any R-410A condensing unit.
8. If using the RBM-I module with heat pumps other than HVS-24, HVS-36, or HVS-60, ensure that a thermal expansion valve (TXV) is installed in addition to the RBM-I module.
9. Properly seal the RBM-I module for air sealing using the additional components provided.
10. Test the RBM-I module to ensure proper functionality and adjust as necessary.

Documents / Resources



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RBM I Refrigerant Base Module, RBM I, Refrigerant Base Module, Base Module