

CG APPLICATIONS

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Application Note : 14 July 2006

Market involved : HVAC

Product : RMD1H23D20..

Customer : ---

Subject : Noiseless Hot Water

CUSTOMER ISSUE :

Extreme cold weather conditions will decrease output water temperature and so auxiliary heaters are required to keep the water at the desired temperatures.

The efficiency of the heat-pump falls as the output water temperature rises and so auxiliary heaters make it more economic to heat stored water above 45°C.

Use of EMRs to control the auxiliary heater generated too much electrical noise and RC filters had to be installed.

Lack of space in control panel prevented use of complete SSR solution.

OUR SOLUTION:

After installing the RMD1H23D20..

Lifetime of the system increased tenfold compared to EMRs, due to the RMD >5million cycles capability.

RC Filter no longer required.

Multiple relays could be installed in the control panel with minimal space usage.

ACHIEVED BENEFITS:

- Longer lifetime than EMR
- Lower noise emission
- Runs cooler than SSR
- Compact dimensions
- No heatsink needed.

