

1. DHW DUMP (Back Boiler)

Operation

Input 1:2 = Dump (Back Boiler) Enable (Board Type:R10i8s2)

Operation: Software Module Missing = No Back Boiler operation

DHW Dump : When Purchase , system drops in commands including Input 1:2 as Override
Input 1:2 then used as the Heat Dump Activation Signal
Input 1:2 “Short Circuit” = Dump Active (**Back Boiler Active**)
Input 1:2 “Open Circuit” = Dump Ignore
Relay 8 will operate (I/O#1 Only) &
Relay 10 -boiler overridden (On all I/Os)

Note

For DHW Dump to operate


Relay 8 (I/O#1 only) can only be used as Heat Dump Pump activation and not a Zone

Relay 10 (I/O#2-8) must be used as the Boiler

Overridden when DUMP in operation

This override of R10 applies to all relay board

```
# Activation .....
```



The screenshot shows a portion of the 'Ena' table. The 'Ena' column has dropdown menus with values like '-----'. The 'Ovr' column has dropdown menus with values like '-----'. A red box highlights the 'Rly' dropdown in the 'Ena' column, and another red box highlights the 'Inp' dropdown in the 'Ovr' column. Red lines connect the 'Rly' dropdown to the 'Inp' dropdown.

Relay Timers (Mins), Cycling Cycle Interval (hrs) 336 Cycle Duration (mins) 2

Relay	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
T ON								0		3		0				
T OFF								0		0		0				
Cycle								<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>				

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The screenshot shows a portion of the 'Ena' table. The 'Ena' column has a header 'Ena' and a dropdown menu. The 'Ovr' column has a header 'Ovr' and a dropdown menu. A red box highlights the 'Rly' dropdown menu in the 'Ovr' column, which is currently set to '12'. A red line connects the 'Ena' column header to the 'Rly' dropdown.

(I/O#3-8 DHW Dump Not included)

DHW Dump : When Purchase , system drops in item in red

Relay 10 must be used as the Boiler
Overridden when DUMP in operation
This override of R10 applies to all relay board

Relay 10 will appear as **Unused** (But internally will be set as the Boiler)
If installer attempts to assign this relay as another function, the system will
reset it back to **Unused** (Internally will be set as the Boiler)

DHW Dump only operation on I/O#1& 2
Not operation on I/O #3-8

[illegible]

I/O #2

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WARNING

Heat Dump used with a BACK Boiler

Valves used with the Controls system are "Normally Closed." If the power fails in the building the controls system will cease to control heating and all valves will CLOSE. In this instance, excess heat from a back boiler cannot be dissipated through the radiator heating system. The Back Boiler may EXPLODE if the system is not designed or modified to ensure the HEAT SOURCE HAS RELEASE MECHANISM TO VENT HEATED WATER SAFELY. It is ESSENTIAL that the plumbing layout includes a pressure release valve to safely vent back boiler over pressure.

The Heat Dump feature is NOT A SAFETY FEATURE as it WILL FAIL in the event of a power LOSS.

It is the sole responsibility of the installer to ensure the system is installed with a pressure release valve for safety. Controls take no responsibility for plumbing layout.