**Refrigerator Minimized State Transition Table**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Open fridge door** | **Close fridge door** | **Open freezer door** | **Close freezer door** | **Set room temp** | **Set fridge temp** | **Set freezer temp** |
| **Fridge door open; Freezer door open** | Fridge door open; Freezer door open | Fridge door closed; Freezer door open | Fridge door open; Freezer door open | Fridge door open; Freezer door closed | Fridge door open; Freezer door open | Fridge door open; Freezer door open | Fridge door open; Freezer door open |
| **Fridge door closed; Freezer door open** | Fridge door open; Freezer door open | Fridge door closed; Freezer door open | Fridge door closed; Freezer door open | Fridge door closed; Freezer door closed | Fridge door closed; Freezer door open | Fridge door closed; Freezer door open | Fridge door closed; Freezer door open |
| **Fridge door open; Freezer door closed** | Fridge door open; Freezer door closed | Fridge door closed; Freezer door closed | Fridge door open; Freezer door open | Fridge door open; Freezer door closed | Fridge door open; Freezer door closed | Fridge door open; Freezer door closed | Fridge door open; Freezer door closed |
| **Fridge door closed; Freezer door closed** | Fridge door open; Freezer door closed | Fridge door closed; Freezer door closed | Fridge door closed; Freezer door open | Fridge door closed; Freezer door closed | Fridge door closed; Freezer door closed | Fridge door closed; Freezer door closed | Fridge door closed; Freezer door closed |