## **Refrigerator State Transition Diagram**

	Open fridge door	Close fridge door	Open freezer door	Close freezer door	Set room temp	Set fridge temp	Set freezer temp
Fridge	Fridge	Fridge	Fridge	Fridge	Fridge	Fridge	Fridge
door open	door open	door closed	door open	door open	door open	door open	door open
Fridge door closed	Fridge door open	Fridge door closed	Fridge door closed	Fridge door closed	Fridge door closed	Fridge door closed	Fridge door closed
Freezer	Freezer	Freezer	Freezer	Freezer	Freezer	Freezer	Freezer
door open	door open	door open	door open	door closed	door open	door open	door open
Freezer door closed	Freezer door closed	Freezer door closed	Freezer door open	Freezer door closed	Freezer door closed	Freezer door closed	Freezer door closed
Fridge	Fridge	Fridge	Fridge	Fridge	Fridge	Fridge	Fridge
light on	light on	light off	light off	light off	light on	light on	light on
Fridge	Fridge	Fridge	Fridge	Fridge	Fridge	Fridge	Fridge
light off	light on	light off	light off	light off	light off	light off	light off
Freezer	Freezer	Freezer	Freezer	Freezer	Freezer	Freezer	Freezer
light on	light off	light off	light on	light off	light on	light on	light on
Fridge	Freezer	Freezer	Freezer	Freezer	Freezer	Freezer	Freezer
light off	light off	light off	light on	light off	light off	light off	light off
Fridge	Fridge	Fridge	Fridge	Fridge	Fridge	Fridge	Fridge cooling
cooling	cooling	cooling	cooling	cooling	cooling	cooling	
Fridge idle	Fridge idle	Fridge idle	Fridge idle	Fridge idle	Fridge idle	Fridge idle	Fridge idle
Freezer cooling	Freezer cooling	Freezer cooling	Freezer cooling	Freezer cooling	Freezer cooling	Freezer cooling	Freezer cooling
Freezer	Freezer	Freezer	Freezer	Freezer	Freezer	Freezer	Freezer
idle	idle	idle	idle	idle	idle	idle	idle