



OPERATION PRINCIPLE

The system, BK-368, supports 2 operation types: automatic type and manual type. In automatic type, the system can be turned ON or turned OFF according to the preset programs. In manual type, users can press POWER button to unlock the safety lock then the system can be turned ON or OFF.

When system is turned ON, in both automatic and manual type, the system will perform a preliminary safety check, if there exists any abnormal simulated flame, then the system will be locked out. Otherwise, the system will then start a timer to countdown the safety timing. While the system starts the igniter and opens the first valve to let gas flow into pilot burner. The pilot burner must be lit within the safety time period; otherwise the system will be locked out.

If the system is operated by battery, the system will check the battery voltage level before the preliminary safety check. If the battery voltage has fallen in a setting range, the power indicator will flash, it tells the users that the system will be run out of battery soon.

Once pilot burner is lit, flame sensor will check and prove the flame has been established. Then igniter will stop igniting, while pilot burner keeps the flame running. Then system opens the second valves to let gas flow into the main burner. The main burner can be operated in following 2 modes:

- Flame levels mode: in three levels, High, Medium and Low levels.
- Fuzzy mode: in six flame levels and sequences to keep users comfortable and constant temperatures.

The main burner lights and runs, any abnormal turned OFF, system will restart immediately, until users press the Power button to turn OFF; alternatively, it can be turned off automatically by preset programs. Then the system stops all functions, closes the first valve to cut the gas for pilot burner. There will be no standing pilot burner running during the system is in the OFF state in order to save energy. closes the second valves to cut gas for main burner. stops igniter. System is then locked out.

Auto & Remote Gas Control Operation Principle			NDK 368-3