

HB HEATED BLOWER DESICCANT AIR DRYER

HB150 – HB8000

Industrial Technologies
Davidson, NC 28036

Date: 1-May-2010
Cancels: All Previous

STANDARD CONTROL PANEL

The standard control panel on all HB dryers provides control and status indication of the dryer. The high voltage and low voltage control panels are in separate enclosures.

A 24Vdc power supply reduces line voltage for all the inputs and outputs of the control panel. The pilot solenoid valves, lights, switches and relays are operating on a 24V DC power supply.

A microprocessor controller with integral keypad and 2 line display controls the functions of the dryer. The control panel uses status lamps and a digital text display to provide the status of the dryer.

Text display allows for more troubleshooting capabilities.

Display will show time and date when alarm occurred.

The status lamps on the control panel indicate the following:

- Power On
- Alarm

The digital text display provides indication of the following:

- Left / Right Chamber Drying
- Left /Right Chamber Regenerating
- Heater Outlet Temperature

The digital text display provides information for which component triggered the Alarm condition.

The displayed alarms are:

- Blower Failure
- Switching Failure
- High Humidity (with EMS option only)

- Heater Failure
- Heater Sheath Overtemperature

The dryer power on-off switch is on the keypad. The alarm reset is on the keypad. The controls include a manual step circuit that will allow for fast cycling of the dryer steps for troubleshooting purposes. The operation of manual stepping is done through the text display.

The pilot solenoid valves are located externally to the control panel in a manifold block configuration. The valves operate on 24V.

The dryer has dual mode operation that allows it to be operated as a heatless dryer in the unlikely event of a blower or heater failure.

The controls are located on a NEMA 4 electrical enclosure.

