CLAIMS

1. A clean air apparatus at least comprising:

a work space formed on an inner side of a front face shutter and configured to maintain a state of negative pressure; and

a circulation flow path formed of a lower face side of the work space, a side face side of the work space, a back face side of the work space, and an outer side portion of a body of the apparatus, and configured to discharge air flowing into the work space,

wherein transparent windows are respectively provided on a portion of a back wall or a side wall of the work space and on a portion of a rear wall or a side wall of the body of the clean air apparatus separated by the circulation flow path from the back wall or the side wall of the work space,

wherein a display device is placed on an outer side portion of the transparent window provided on the portion of the rear wall or the side wall of the body of the clean air apparatus, and

wherein an operator can see information displayed on the display device through both walls via the transparent windows.

2. The clean air apparatus according to claim 1,

wherein at least one of the transparent windows is formed of a glass material.

3. The clean air apparatus according to claim 1,

wherein an imaging device is provided adjacent to the display device.

4. The clean air apparatus according to claim 1,

wherein a voice input device or a voice output device is provided.

5. The clean air apparatus according to claim 1,

wherein if a completion notice of a work content displayed on the display device is entered, a screen indicating a next operation process is switched and displayed.

6. The clean air apparatus according to claim 4,

wherein if it is detected based on a dust measurement within the work space that a cleanliness required in the work space is not maintained, at least one of the display device and the voice output device is used to inform abnormality of the cleanliness by at least either a display color or a voice output, and if color is used, either by lighting or blinking the color display.

7. The clean air apparatus according to claim 1,

wherein immediately below the respective transparent windows at an inner side wall of the circulation flow path, a slit having a predetermined width or an endpiece plate separated by the predetermined width is provided at a center in a depth direction, and a shielding plate having a length at least corresponding to a width of the transparent window is provided.

8. The clean air apparatus according to claim 1,

wherein the transparent window provided at a portion of a back wall or a side wall of the work space is configured to be removable from the work space side, and the transparent window provided at a portion of a rear wall or a side wall of the body of the clean air apparatus is configured to be removable from the outer side of the body of the clean air apparatus.

9. A clean air apparatus comprising:

a work space comprising a work table;

a supply system configured to supply cleaned air to the work space through a first air cleaning means by an air blowing means;

a front face shutter formed on a front face of the work space;

a work opening connected to a work space on a lower portion of the front face shutter;

a discharge system configured to take in air from the work opening and discharge air via a second air cleaning means to an outer side of the apparatus; and

a pressure chamber connected to the first air cleaning means, the second air cleaning means and the air blowing means,

wherein a flow path for contaminated air is provided between the work opening and the second air cleaning means,

the flow path for contaminated air is separated from the work space by a first partition wall arranged adjacent to the work space, and further separated by a second partition wall opposed to the work space and arranged adjacent to outer air, and

transparent windows are provided on the second partition wall and the first partition wall,

wherein a display means is provided on the second partition wall, and

information displayed on the display means is transmitted through the transparent window,

wherein an operator can see information displayed on the display means through both partition walls via the transparent windows.

10. The clean air apparatus according to claim 9,

wherein the transparent windows are formed of glass.

11. The clean air apparatus according to claim 9,
wherein the display means displays a work content to be performed by an operator.

12. The clean air apparatus according to claim 9,
further comprising an input means provided to determine a state of an operator.

13. The clean air apparatus according to claim 12,
wherein if information indicating completion of operation performed by an operator displayed on the display means is entered from the input means, the display means displays a work content that differs from the operation to be performed by the operator displayed on the display means.