CLAIMS:

1. An air conditioning adapter for a wall sleeve of a protected space, comprising:

a. a cover-plate having at least one aperture, said cover-plate is permanently secured to a flange of the wall sleeve at the inner side of the wall, said at least one aperture being smaller in area than a cross sectional area of the wall sleeve;

b. an airtight door fitted to said cover-plate on the side mating said flange, said airtight door covers and seals said at least one aperture when closed, and exposes said at least one aperture when open;

c. a lock configured to affix said airtight door in said closed position;

wherein an internal volume of the wall sleeve is physically divided into a first volume and a second volume, the first volume serving as an entrance of air conditioned flow and the second volume serving as a safety outlet of potentially contaminated air; and

wherein said airtight door is selectively opened inwards the wall sleeve during normal times, permitting free airflow of a central air conditioning system, while preserving neat appearance of the protected space, and is closed and locked in an event of emergency, thereby providing blast protection and air tightness.

2. The air conditioning adapter as claimed in claim 1, further comprising a plurality of holes made to said cover-plate adjacent said at least one aperture, said holes are sized to accept cable glands for penetration of conduits of a split air conditioning system, while maintaining blast protection and air tightness.

3. The air conditioning adapter as claimed in claim 2, wherein said airtight door is closed and locked when a split air conditioning system is installed.

4. The air conditioning adapter as claimed in claim 1, wherein said internal volume of the wall sleeve is physically divided by a separator sheet attached to said cover plate and extends into the wall sleeve, and, wherein said first volume is larger than said second volume.

5. The air conditioning adapter as claimed in claim 4, wherein said separator sheet is partially cut-out or perforated and is perpendicularly attached to said cover-plate.

6. The air conditioning adapter as claimed in claim 5, wherein said airtight door is attached to said cover plate by a hinge positioned adjacent said separator sheet, such that when said airtight door is open it is resting about said separator sheet and substantially

blocking the cut-out or perforations of said separator sheet, thereby airflow separating said first volume and said second volume.

7. The air conditioning adapter as claimed in claim 6, further comprising a duct connector fitted to the wall sleeve at the outer side of the wall, said duct connector is airflow coupled to said first volume, while permitting free airflow from said second volume to the atmosphere, such that when said airtight door is closed, potentially contaminated air blown by a central air conditioning system is directed to the atmosphere through the cut-out or perforations of said separator sheet and said second volume.

8. The air conditioning adapter as claimed in claim 6, wherein said first volume is positioned above said second volume such that when said airtight door is opened and rested about said separator sheet, said airtight door is left open by the own weight of said airtight door.

9. The air conditioning adapter as claimed in claim 4, wherein said separator sheet further comprises elastomer seals fitted between the edged of said separator sheet and the wall sleeve.

10. The air conditioning adapter as claimed in claim 1, wherein a shape of said at least one aperture is selected from the group consisting of: circular; rectangular; oval; and arch gate.

11. The air conditioning adapter as claimed in claim 10, wherein said lock further comprises: a bolt fitted through and extending in front of said airtight door; a rotatable crossbar fitted to said bolt; and a wing nut fitted over said crossbar, wherein loosening said wing nut enable rotation of said crossbar to a position permitting passage of said crossbar through said at least one aperture and opening of said airtight door inwards the wall sleeve.

12. The air conditioning adapter as claimed in claim 1, wherein said airtight door is shaped as a round disk provided with a mounting bolt extending inwards the wall sleeve at the center of said airtight door and a locking handle fitted on the side facing the protected space, rotation of said locking handle, rotates said airtight door and said mounting bolt as well.

13. The air conditioning adapter as claimed in claim 12, further comprising an airflow permitting mounting frame carrying a central nut, said mounting frame being attached to said cover-plate at a set distance inwards the wall sleeve, wherein said mounting bolt is assembled into said central nut of said mounting frame such that said mounting frame carries the airtight door in a rotate-able and axially movable manner about the central axis of said mounting bolt.

14. The air conditioning adapter as claimed in claim 13, wherein said internal volume of the wall sleeve is divided by a funnel having a wide side fitted on top of said mounting frame and a narrow side extending inwards said wall sleeve.

15. The air conditioning adapter as claimed in claim 14, further comprising a duct connector fitted to the outer side of the wall sleeve, said duct connector is cylindrical in shape, having a peripheral portion extending beyond the wall sleeve to accommodate a flexible duct of a central air conditioning system, said duct connector further comprises an internal cylindrical hollow vessel open at one end, said cylindrical hollow vessel is airflow coupled to the narrow side of said funnel, said hollow vessel is attached to said peripheral portion of the duct connector and vented to the atmosphere through at least one radial passage.

16. The air conditioning adapter as claimed in claim 15, wherein said funnel and said hollow vessel divides an internal volume of the wall sleeve into a first peripheral volume and a second central volume, said first peripheral volume serving as an entrance of air conditioned flow when said airtight door is open, and said second central volume, in conjunction with said at least one radial passage, is serving as a safety outlet of potentially contaminated air, when said airtight door is closed.

17. The air conditioning adapter as claimed in claim 2, further comprising a water valve fitted to one of said plurality of holes, said water valve being part of a water drain line of a split air conditioning system, enabling shut off of the drain line from within the protected space in event of emergency.

18. The air conditioning adapter as claimed in claim 2, provided with at least 4 holes, at least one of which is located below said at least one aperture, used for a water drain line, another 2 of which are located at one side of said at least one aperture, used for refrigerant

flow and return lines, and 1 of which is located at the opposite side of said at least one aperture used for an electric cable.

19. The air conditioning adapter as claimed in claim 1, wherein said wall sleeve is a standard tubular 8" wall sleeve and wherein said at least one aperture is shaped as an arch gate, width of said arch gate is selected between 130mm to 150mm and height of said arch gate is selected between 140mm to 160mm.

20. An air conditioning adapter for a wall sleeve of a protected space, comprising:

a. a cover-plate having at least one aperture, said cover-plate is permanently secured to a flange of said wall sleeve at the inner side of the wall;

b. an airtight door fitted to said cover-plate on the side facing the protected space, said airtight door covers and seals said at least one aperture when closed, and exposes said at least one aperture when open;

c. a lock configured to affix said airtight door in said closed position;

d. a separator sheet attached to said cover plate, extending into the wall sleeve, said separator sheet divides a volume of the wall sleeve into a first volume and a second volume, said separator sheet is further provided with an air passage;

e. a shutter being movable over said separator sheet; and

f. a linkage linking said shutter and said airtight door,

wherein said airtight door is selectively opened outwards the wall sleeve during normal times, permitting free airflow of a central air conditioning system, while preserving neat appearance of the protected space, and is closed and locked in an event of emergency, thus providing blast protection and air tightness, and wherein said linkage associates the location of said shutter to the position of said airtight door, such that when said airtight door is fully opened, said linkage pulls said shutter to fully cover said air passage thus airflow separating said first volume and said second volume.

21. The air conditioning adapter as claimed in claim 20, wherein in an event of emergency the airtight door is manually closed and said linkage pushes said shutter backwards, exposing said air passage thus permitting free airflow between said first volume and said second volume which is vented to the atmosphere.

22. The air conditioning adapter as claimed in claim 20, wherein said first volume is larger than said second volume.

23. The air conditioning adapter as claimed in claim 20, wherein said separator sheet is perpendicularly attached to said cover-plate.

24. The air conditioning adapter as claimed in claim 20, further comprising a plurality of holes made to said airtight door, said holes are sized to accept cable glands for penetration of conduits of a split air conditioning system, while maintaining blast protection and air tightness.

25. The air conditioning adapter as claimed in claim 24, wherein said airtight door is closed and locked when a split air conditioning system is installed.

26. The air conditioning adapter as claimed in claim 20, further comprising a duct connector fitted to the wall sleeve at the outer side of the wall, said duct connector is airflow coupled to said first volume, while permitting free airflow from said second volume to the atmosphere, such that when the airtight door is closed, potentially contaminated air blown by a central air conditioning system is directed to the atmosphere through said air passage of said separator sheet and through said second volume.

27. The air conditioning adapter as claimed in claim 20, wherein said airtight door is hinged to said cover plate.

28. The air conditioning adapter as claimed in claim 27, further comprising a swivel locking handle and a mating slot made to said airtight door near an edge distal from the hinge side, said locking handle is mounted in a rotatable manner over a fixed pin or bolt fitted to said cover plate, said locking handle is provided with a lock bar, narrow enough to pass through said slot when the lock bar is vertically positioned, said lock bar is longer than the slot width, such that when the lock bar is rotated to the horizontal position it rests over the edges of the slot and locks the airtight door in the closed position.