REDUNDANT EQUIPMENT ALLOWS FOR BOTH RESILIENCY & MAINTENANCE WITHOUT BSL SHUTDOWN

FANS RUN IN PARALLEL TO MAINTAIN DUCT PRESSURE. IF ONE FAN FAILS, AN ALARM IS PROVIDED AND THE OTHER FAN INCREASES SPEED TO MAINTAIN DUCT PRESSURE.

KEY TO BSL PRESSURIZATION CONTROL

DUCTS ARE 0 LEAKAGE ON ROOM SIDE OF DECON DAMPERS

SUPPLY AIR (CAN BE HOUSE SOURCE)

FLOW TRACKING (SUPPLY TRACKS EXHAUST)

EXHAUST VALE
SUPPLY VALVE
REHEAT COIL

EMER. & DECON. ISOLATION DAMPERS (SUPPLY SHUTS OFF AUTOMATICALLY UPON LOSS OF EXHAUST)

DUCTS ARE 0 LEAKAGE ON ROOM SIDE OF DECON DAMPERS

BSC WITH THIMBLE EXHAUST CONN.

BSL-3 ROOM

EXHAUST DUCTS ARE ALL WELDED STAINLESS STEEL, PRESSURE TESTED POST-INSTALLATION

PRESSURE SENSOR (controls fan speed)

HEPA FILTERS WITH BUBBLE-TIGHT ISOL. DAMPERS AND FILTER TEST PORTS

FANS RUN IN PARALLEL TO MAINTAIN DUCT PRESSURE. IF ONE FAN FAILS, AN ALARM IS PROVIDED AND THE OTHER FAN INCREASES SPEED TO MAINTAIN DUCT PRESSURE.

AUTOMATIC ISOLATION DAMPERS

PRESSURE SENSOR (controls fan speed)

VFD

~2,600-3,000
Feet per minute

STACK DRAIN

ROOF

FLOW TRACKING (SUPPLY TRACKS EXHAUST)