

POSITION. WHEN SWITCH IS IN "AUTO" POSITION SYSTEM SUPPLIES AIR TO CORRIDOR.

HOTEL MAIN HOT WATER PUMP CONTROL. IN THE HOTEL MAIN MECHANICAL EQUIPMENT ROOM, THERE WILL BE A MAIN AND STANDBY HOT WATER PUMP. THE MAIN HOT WATER PUMP WILL RUN CONTINUOUSLY. FLOW SWITCH IN THE COMMON DISCHARGE OF THE TWO PUMPS, SO THAT WHEN THE MAIN PUMP IS INDEXED ON AND IF AFTER 60 SECONDS, FAILS TO PROVE FLOW, THE STANDBY PUMP WILL BE STARTED.

SWIMMING POOL SYSTEM. THE AIR HANDLING UNIT START/STOP SHALL BE ACCOMPLISHED THROUGH A MICROPROCESSOR PANEL LOCATED IN THE BUILDING ENGINEER'S OFFICE. DURING THE "ON" CYCLE OF OPERATION, THE UNIT SUPPLY FAN WILL RUN CONTINUOUSLY AND THE EXHAUST FAN WILL RUN CONTINUOUSLY ON LOW SPEED WITH THE UNIT CONTROLS FUNCTIONING. DURING THE "OFF" CYCLE OF OPERATION, THE OUTDOOR AIR DAMPER WILL REMAIN CLOSED, THE EXHAUST AIR DAMPER WILL BE CLOSED AND THE RETURN AIR DAMPER WILL SUPPLY AIR FAN AND THE EXHAUST AIR FAN WILL BE SHUT DOWN, THE FACE AND BYPASS DAMPERS WILL RETURN TO FULL FACE POSITION, AND THE HEATING COIL VALVE WILL BE OPEN. REDUCED UNOCCUPIED SPACE TEMPERATURE WILL BE MAINTAINED BY AN UNOCCUPIED SPACE THERMOSTAT CYCLING UNIT SUPPLY FAN WITH THE FACE AND BYPASS DAMPERS IN FULL FACE POSITION AND THE HEATING COIL VALVE OPEN. DURING THE INITIAL START-UP OF THE FAN SYSTEM WHEN GOING FROM "OFF" TO "ON" CYCLES OF OPERATION, THE OUTDOOR AIR DAMPER WILL ASSUME ITS MINIMUM POSITION (APPROXIMATELY 40% OUTDOOR AIR) WITH THE EXHAUST AIR AND RETURN AIR DAMPERS ASSUMING A CORRESPONDING POSITION. THE FACE AND BYPASS DAMPERS WILL BE PLACED UNDER CONTROL AND THE MIXED AIR CYCLE ENERGIZED.

A ROOM THERMOSTAT WILL MAINTAIN SPACE TEMPERATURE BY SEQUENCING HEATING COIL VALVE, FACE AND BYPASS DAMPER; OUTSIDE AIR, RETURN AIR AND EXHAUST AIR DAMPERS AND EXHAUST FAN SPEED. A LOW LIMIT THERMOSTAT WILL OVERRIDE FACE AND BYPASS DAMPER CONTROL AND OUTSIDE AIR, RETURN AIR AND EXHAUST AIR DAMPER CONTROL WHEN REQUIRED TO KEEP DISCHARGE AIR TEMPERATURE FROM DROPPING BELOW 50°F. WHEN FACE AND BYPASS DAMPERS MODULATE TO FULL BYPASS OPERATION, THE HEATING COIL VALVE WILL CLOSE AND THE THERMOSTAT WILL BEGIN TO MODULATE THE OUTSIDE AIR, RETURN AIR AND EXHAUST DAMPERS. WHEN THE OUTSIDE AIR, RETURN AIR AND EXHAUST DAMPERS HAVE REACHED 100% OUTSIDE AIR POSITION, AND THE ROOM TEMPERATURE RISES 3° ADJUSTABLE, ABOVE THERMOSTAT SETPOINT, THE EXHAUST FAN WILL SHIFT TO HIGH SPEED. MANUAL SPEED SELECTION SWITCH WITH OFF POSITION FOR EXHAUST FAN WHEN SUPPLY AIR SYSTEM IS INOPERATIVE FOR SUMMER VENTILATION.

MANUAL TYPE FREEZE PROTECTION THERMOSTAT WILL BE LOCATED ACROSS THE OUTLET SIDE OF THE HEATING COIL TO SHUT DOWN THE AIR HANDLING UNIT FAN, CLOSE THE OUTDOOR AIR AND EXHAUST AIR DAMPERS AND OPEN THE RETURN AIR DAMPER. THE HEATING COIL VALVE WILL GO TO THE FULL OPEN POSITION. ONE FREEZE PROTECTION THERMOSTAT FOR EACH 20 SQ. FT. OF COIL AREA. THERMOSTAT SETTING WILL BE AT 35°F, ADJUSTABLE. RELAYS AND EQUIPMENT TO ENABLE SYSTEM TO AUTOMATICALLY GO TO FIRE MODE UPON ACTIVATION OF FIRE ALARM SYSTEM, FIRE START IN RETURN AIR SYSTEM, OR FROM MANUAL OPERATION OF FIREMAN'S CONTROL PANEL. IN FIRE MODE OPERATION THE SUPPLY FAN WILL SHUT DOWN, THE EXHAUST FAN WILL SHUT DOWN, OUTSIDE AIR AND RETURN AIR DAMPERS WILL CLOSE AND THE EXHAUST DAMPER SHALL CLOSE. FIRE MODE OPERATION SHALL OVERRIDE ALL SAFETY AND OPERATING CONTROLS. FIRE MODE STAIR PRESSURIZATION FANS WILL BE STARTED FROM THE FIRE ALARM AND/OR THE FIREMAN'S CONTROL PANEL. PRESSURE IN THE SYSTEM STAIR WELLS WILL BE MAINTAINED BY POSITIONING MOTORIZED DAMPERS IN THE BYPASS DUCT AROUND THE SUPPLY AIR FAN AND IN THE FAN DISCHARGE DUCT.

VARIABLE VOLUME SYSTEM START-STOP PROGRAMMING SHALL BE ACCOMPLISHED THROUGH THE MICROPROCESSOR LOCATED IN THE BUILDING MAINTENANCE ENGINEER'S OFFICE. THIS SYSTEM WILL NORMALLY OPERATE CONTINUOUSLY 24-HOURS A DAY. DURING THE "ON" CYCLE OF OPERATION, THE AIR HANDLING SUPPLY AIR FANS AND EXHAUST AIR FAN WILL RUN CONTINUOUSLY, WITH UNIT CONTROLS FUNCTIONING AS SPECIFIED. DURING THE "OFF" CYCLE OF OPERATION, THE OUTDOOR AIR DAMPERS AND EXHAUST AIR DAMPERS WILL REMAIN CLOSED AND THE RETURN AIR DAMPER WILL OPEN AND SUPPLY AND EXHAUST FANS WILL BE SHUT DOWN. DURING THE "ON" CYCLE OF OPERATION THE CONTROL OF THE PRIMARY AIR TEMPERATURE WILL BE ACCOMPLISHED BY POSITIONING OF THE RETURN AIR, OUTDOOR AIR AND EXHAUST AIR DAMPERS, AND THE CHILLED WATER COIL THREE-WAY VALVE IN SEQUENCE. DURING INITIAL START-UP OF THE FAN SYSTEM, THE MINIMUM OUTDOOR AIR DAMPER WILL OPEN. TWO-POSITION BUBB THERMOSTAT WITH ITS BUBB MOUNTED IN THE OUTSIDE AIR. THIS CONTROLLER WILL OVERRIDE THE DISCHARGE AIR CONTROL AND RETURN, OUTDOOR AIR AND EXHAUST DAMPERS TO MINIMUM OUTSIDE AIR POSITION AND SHUT OFF THE EXHAUST FAN WHEN THEN OUTDOOR AIR TEMPERATURE EXCEEDS 70°F. TRANSMITTER IN THE DISCHARGE AIR, THROUGH A PANEL MOUNTED RECEIVER-CONTROLLER, WILL POSITION THE OUTDOOR AIR AND RETURN AIR DAMPERS AND THE CHILLED WATER COIL THREE-WAY VALVE TO MAINTAIN A DISCHARGE AIR TEMPERATURE OF 53°F, ADJUSTABLE. LOW LIMIT THERMOSTAT IN THE MIXED AIR, WILL OVERRIDE ALL OTHER CONTROLS TO PREVENT THE MIXED AIR TEMPERATURE FROM DROPPING BELOW 45°F, ADJUSTABLE. PANEL MOUNTED RECEIVER-CONTROLLER WILL TAKE THE LOWEST SIGNAL FROM THREE (3) STATIC PRESSURE TRANSMITTERS. THE SUPPLY DUCT STATIC PRESSURE WILL MAINTAIN A PRESSURE OF 1.5" W.G., ADJUSTABLE, BY POSITIONING THE VARIABLE BLADE PITCH CONTROLLERS ON THE SUPPLY AIR FANS. A HIGH LIMIT PRESSURE CONTROL WITH ITS SENSOR IN THE IMMEDIATE DISCHARGE OF THE VARIABLE VOLUME SYSTEM WILL STOP THE FANS IF THE STATIC PRESSURE EXCEEDS THE PRESCRIBED SETPOINT. INDEX THE SUPPLY FAN VARIABLE BLADE PITCH CONTROLLERS TO ALWAYS START UP AT 0" AIR VOLUME. THE EXHAUST AIR DAMPER AND EXHAUST AIR FAN WILL BE INTERLOCKED TO OPERATE ONLY WHEN THE VAV SYSTEM SUPPLY AIR FAN IS IN OPERATION. EXHAUST AIR FAN OPERATION WILL BE CONTROLLED BY A STATIC PRESSURE CONTROLLER WITH ITS STATIC PRESSURE PROBE MONITORING THE CONTROLLED SPACE. WHEN THE SYSTEM IS IN OPERATION AND THE MAXIMUM OUTDOOR AIR DAMPER IS APPROXIMATELY 30% OPEN, THE EXHAUST DAMPER WILL OPEN, THE EXHAUST FAN WILL START AND EXHAUST STATIC CONTROL WILL BE PLACED IN OPERATION. THE STATIC PRESSURE CONTROL WILL MODULATE THE EXHAUST FAN VARIABLE PITCH BLADES AS REQUIRED TO MAINTAIN 1.0 to 1.5" W.G. STATIC PRESSURE. THE VARIABLE PITCH BLADES WILL BE INTERLOCKED TO ALWAYS START UP AT 0" AIR VOLUME. SUBRAY AIR FAN AND EXHAUST AIR FAN STATIC PRESSURE SENSORS (TRANSDUCERS) SHALL BOTH BE REFERENCED TO OUTDOOR ATMOSPHERIC PRESSURE.

A MANUAL RESET TYPE FREEZE PROTECTION THERMOSTAT WILL BE LOCATED ACROSS THE INLET SIDE OF THE HEATING COIL, TO SHUT DOWN THE AIR SYSTEM AND CLOSE THE OUTDOOR AND EXHAUST AIR DAMPERS IN THE EVENT THE INCOMING AIR TEMPERATURE SHOULD FALL BELOW 35°F, ADJUSTABLE. ONE (1) FREEZE PROTECTION THERMOSTAT FOR EACH TWENTY SQUARE FOOT OF COIL AREA.

THE BUILDING FIRE ALARM SYSTEM AND THE SMOKE DETECTOR WILL BE INTERLOCKED IN THE RETURN SYSTEM TO SHUT DOWN AIR SYSTEM IN UPON ACTIVATION OF EITHER FIRE ALARM SYSTEM OR SMOKE DETECTOR OR FROM MANUAL OPERATION OF FIREMAN'S CONTROL PANEL. SYSTEM WILL BE CAPABLE OF BEING PLACED IN FIRE MODE OPERATION FROM FIREMAN'S CONTROL PANEL. IN FIRE MODE OPERATION THE SUPPLY FAN WILL SHUT DOWN, THE EXHAUST FAN WILL OPERATE, THE OUTSIDE AIR AND RETURN AIR DAMPERS WILL CLOSE AND EXHAUST AIR DAMPER WILL OPEN. FIRE MODE OPERATION WILL OVERRIDE ALL SAFETY AND OPERATING CONTROLS.

KITCHEN SYSTEM. STARTING AND STOPPING OF THE KITCHEN SYSTEM WILL BE ACCOMPLISHED THROUGH A MICROPROCESSOR LOCATED IN THE BUILDING ENGINEER'S OFFICE. DURING THE "ON" CYCLE OF OPERATION THE UNIT SUPPLY FAN WILL RUN CONTINUOUSLY WITH THE UNIT CONTROLS FUNCTIONING. DURING THE "OFF" CYCLE OF OPERATION, THE OUTDOOR AIR DAMPER WILL REMAIN CLOSED, RETURN AIR DAMPERS WILL REMAIN OPEN, HEATING COIL HOT WATER VALVE WILL BE OPEN, THE COOLING COIL VALVE WILL BE CLOSED AND THE SUPPLY FAN WILL BE SHUT DOWN. DURING THE "ON" CYCLE OF OPERATION WITH THE MAIN KITCHEN HOOD OFF THE SUPPLY FAN WILL RUN CONTINUOUSLY, THE OUTDOOR AIR DAMPER WILL REMAIN FULLY CLOSED AND THE RETURN DAMPER FULLY OPEN. THE HEATING COIL VALVE WILL BE UNDER THE CONTROL OF ITS DISCHARGE AIR CONTROLLER AND THE ROOM THERMOSTAT. SPACE TEMPERATURE WILL BE MAINTAINED AT THE DESIRED SET POINT BY A PROPORTIONAL HEAT-COOL ROOM THERMOSTAT OPERATING THROUGH A DISCHARGE AIR LOW-LIMIT CONTROLLER MODULATING THE COOLING COIL 3-WAY VALVE AND THE HEATING COIL 3-WAY VALVE IN SEQUENCE. THE LOW LIMIT CONTROLLER WILL OVERRIDE THE ROOM THERMOSTAT WHEN REQUIRED TO PREVENT DISCHARGE TEMPERATURE FROM DROPPING BELOW 55°F.

WHEN THE MAIN KITCHEN HOOD EXHAUST FAN IS MANUALLY TURNED ON AND THE AIR HANDLING UNIT FAN IS ON, THE AIR HANDLING UNIT OUTDOOR AIR DAMPER WILL ASSUME A MINIMUM 50% OPEN POSITION. THE RETURN AIR DAMPER WILL CLOSE AN EQUAL AMOUNT. THE ROOM THERMOSTAT WILL CONTROL THE HEATING COIL AND COOLING COIL 3-WAY VALVES IN SEQUENCE. THE HOT WATER PUMPS FOR THE HEATING COIL WILL BE OPERABLE ANYTIME THE OUTDOOR AIR TEMPERATURE IS BELOW 70°F. THERE IS A MAIN AND STANDBY PUMP. IN THE EVENT OF MAIN HOT WATER PUMP FAILURE, THE STANDBY PUMP WILL AUTOMATICALLY START.

A MANUAL FREEZER SET AT 35°F WILL BE LOCATED ON THE ENTERING SIDE OF THE COOLING COIL TO STOP THE SUPPLY AIR FAN. CLOSE THE OUTSIDE AIR DAMPER, OPEN THE RETURN AIR DAMPER AND OPEN THE HEATING COIL CONTROL VALVE. DURING THE OFF CYCLE OF OPERATION THE OUTDOOR AIR DAMPER WILL REMAIN CLOSED, THE HEATING COIL VALVE WILL BE OPEN AND THE RETURN AIR DAMPER WILL BE OPEN. REDUCED UNOCCUPIED SPACE TEMPERATURE WILL BE MAINTAINED BY AN UNOCCUPIED SPACE THERMOSTAT LOCATED ADJACENT TO THE HEATING/COOLING COIL THERMOSTAT WHICH WILL CYCLE THE SUPPLY AIR FAN AS REQUIRED.

THIS SYSTEM WILL SHUT DOWN ON FIRE ALARM ACTIVATION.

KITCHEN MAKE-UP AIR UNIT

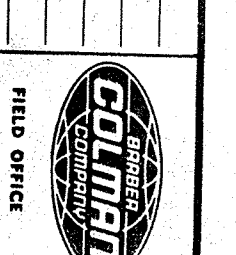
THE KITCHEN MAKE-UP AIR UNIT WILL BE STARTED WHENEVER THE MAIN KITCHEN HOOD EXHAUST FAN IS STARTED. THE OUTDOOR AIR DAMPER ON THE MAKE-UP AIR UNIT WILL OPEN. WHEN THE OUTDOOR AIR DAMPER REACHES THE FULL OPEN POSITION, THE SUPPLY AIR FAN WILL START. A CONSTANT 70°F, ADJUSTABLE, DISCHARGE AIR TEMPERATURE WILL BE MAINTAINED BY POSITIONING FACE AND BYPASS DAMPERS AROUND THE HEATING COIL. A TWO-WAY TWO POSITION CONTROL VALVE WILL SHUT OFF HOT WATER FLOW TO THE COIL WHEN THE FACE AND BYPASS DAMPERS REACH FULL BYPASS POSITION. WHEN THE KITCHEN EXHAUST HOOD IS STOPPED, THE OUTDOOR AIR DAMPER WILL CLOSE, THE FACE AND BYPASS DAMPERS WILL RETURN TO FULL FACE POSITION AND THE SUPPLY AIR FAN WILL STOP. SYSTEM WILL SHUT DOWN ON FIRE ALARM ACTIVATION.

DRIER MAKE-UP AIR SYSTEM (LAUNDRY AREA)

MAKE-UP AIR FAN WILL BE INTERLOCKED TO OPERATE ANYTIME ANY OF THE DRIERS OPERATE. OUTSIDE AIR DAMPER WILL OPEN WHEN FAN RUNS AND CLOSE WHEN IT STOPS. THE INLET VANE CONTROL WILL BE SEQUENCED ON THE MAKE-UP AIR FAN SO THAT THE INLET VANES GO 33% OPEN WHEN ANY ONE OF THE DRIERS ARE OPERATING, AND 100% OPEN WHEN ALL TWO OF THE DRIERS ARE OPERATING. THE FAN INLET VANES WILL ALWAYS START UP AT 0" AIR VOLUME.

Table with 2 columns: DATE, CHANGE. Row 1: 3-27-84, 1/45 Draw. Row 2: 3-27-84, 1/45 Draw. Row 3: 3-27-84, 1/45 Draw.

JOB NAME: CAPITOL PLAZA HOTEL. LOCATION: FRANKFORT, KY. ARCHITECT: N/A. ENGINEER: CARTER & ROSENER & ASSOCIATES. CONTRACTOR: STEWART MECHANICAL.



4694. Louisville Branch, 1651 Waterson Trail, Jeffersonville, Kentucky 40299, 502-267-5003.

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SEQUENCE OF OPERATION FOR CAPITOL PLAZA HOTEL, FRANKFORT, KY.

GENERAL NOTES AND EQUIPMENT SCHEDULE

FAN POWERED VAV BOXES WITH HOT WATER HEAT EACH FAN POWERED VAV BOX, WILL HAVE A DUAL PRESSURE DAY-NIGHT, HEAT-COOL ROOM THERMOSTAT AND DAMPER CONTROL MOTOR.

DURING THE "DAY" (OCCUPIED) CYCLE, THE VAV BOX FAN WILL BE ENERGIZED, AND RUN CONTINUOUSLY, THRU FROM THE MICROPROCESSOR PANEL LOCATED IN THE BUILDING ENGINEER'S OFFICE. SIX (6) ZONES OF OCCUPIED-UNOCCUPIED FOR THE FAN POWERED BOXES. PE SWITCH AND SIGNAL LINE WILL BE FURNISHED TO POSITIVELY TURN ON AND OFF VAV BOX FAN.

RETURN AIR FANS. THE RETURN AIR FANS SERVING THE THREE TWO-BAY SUITES ON THE SECOND FLOOR WILL BE PLACED ON THE SAME CONTROL ZONE AS THEIR RESPECTIVE FAN TERMINAL UNITS. THIS WILL RUN WHEN THEIR FAN TERMINAL UNITS RUN AND STOP WHEN THEY STOP.

DURING THE "DAY" (OCCUPIED) CYCLE THE ROOM THERMOSTAT WILL MAINTAIN SPACE TEMPERATURE BY MODULATING THE BOX DAMPER AND POSITIONING THE TWO-WAY PROPORTIONAL HOT WATER VALVE. UPON DEMAND FOR MAXIMUM AIR THROUGH THE BOX INTO THE CONTROLLED SPACE. WHEN SPACE TEMPERATURE BEGINS TO FALL BELOW THE SETTING OF THE ROOM THERMOSTAT THE PRIMARY AIR DAMPER WILL MODULATE TO ITS MINIMUM POSITION. IF THE SPACE TEMPERATURE CONTINUES TO FALL BELOW ROOM THERMOSTAT SETTING, THE THERMOSTAT WILL POSITION THE HEATING COIL VALVE OPEN.

DURING "NIGHT" (UNOCCUPIED) CYCLE THE VAV BOX PRIMARY AIR DAMPER WILL BE 100% CLOSED AND ITS FAN SHUT DOWN THROUGH THE PRESSURE-ELECTRIC SWITCH AND DAY/NIGHT SIGNAL LINE. WHEN THE SPACE TEMPERATURE FALLS BELOW THE "NIGHT" SETTING OF THE ROOM THERMOSTAT, THE THERMOSTAT WILL CYCLE THE BOX FAN AND HEATING COIL VALVE OPEN TO PROVIDE HEATED RECIRCULATED AIR TO MAINTAIN THE DESIRED "NIGHT" SPACE TEMPERATURE. ROOM THERMOSTATS WILL BE INDEXED FROM "DAY-NIGHT" CYCLES OF OPERATION BY A ZONE "DAY-NIGHT" CONTROL LINE.

HOTEL - MAKE-UP AIR SYSTEM. THE HOTEL MAKE-UP AIR SYSTEM WILL BE STARTED AND STOPPED FROM THE MICROPROCESSOR PANEL LOCATED IN THE BUILDING ENGINEER'S OFFICE. THIS SYSTEM WILL NORMALLY OPERATE CONTINUOUSLY 24 HOURS A DAY. DURING THE "ON" CYCLE OF OPERATION, THE MAKE-UP AIR UNIT SUPPLY FAN AND THE TOILET EXHAUST FANS WILL RUN CONTINUOUSLY. UPON INITIAL START-UP WHEN GOING FROM "OFF" CYCLE TO "ON" CYCLE OF OPERATION, THE OUTDOOR AIR DAMPER AND THE EXHAUST DAMPERS ON THE TOILET EXHAUST ON THE 1ST FLOOR WILL FIRST OPEN TO 100% OPEN POSITION THEN THE SUPPLY AIR FAN AND THE EXHAUST FANS ON THE 1ST FLOOR AND THE REMAINING TOILET EXHAUST FANS WILL BE ALLOWED TO START.

PREHEAT COIL DISCHARGE AIR TEMPERATURE WILL BE MAINTAINED BY MODULATING THE 3-WAY MIXING VALVE SHOULD EITHER THE MAIN PUMP FAIL TO START AS SENSED BY A FLOW SWITCH IN THE COMMON HOT WATER SUPPLY AFTER A PERIOD OF 60 SECONDS, THE STANDBY PUMP WILL START. THE PREHEAT COIL PUMPS WILL OPERATE BELOW 50°F OUTSIDE AIR TEMPERATURE AND WILL BE OFF ABOVE 50°F. A DISCHARGE AIR THERMOSTAT WILL MAINTAIN A CONSTANT COOLING COIL LEAVING AIR TEMPERATURE BY MODULATING THE CHILLED WATER COIL THREE-WAY VALVE.

SPACE TEMPERATURE FOR THE MAKE-UP AIR SYSTEM WILL BE MAINTAINED BY A ROOM THERMOSTAT LOCATED IN ONE OF THE GUEST ROOM FLOOR CORRIDORS AS SHOWN ON THE DRAWINGS. THE THERMOSTAT WILL MODULATE THE HEATING COIL 3-WAY VALVE AS REQUIRED TO MAINTAIN DESIRED CONDITIONS.

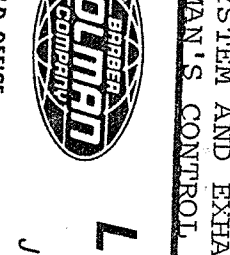
A MANUAL TYPE FREEZE PROTECTION TYPE THERMOSTAT WILL BE LOCATED ACROSS THE INLET SIDE OF THE COOLING COIL TO SHUT DOWN THE MAKE-UP AIR UNIT SUPPLY FAN, CLOSE THE OUTDOOR AIR INTAKE DAMPER, OPEN THE PREHEAT COIL VALVE, AND THE HEATING COIL VALVE FOR FULL FLOW OF WATER THROUGH THEIR RESPECTIVE COILS IN THE EVENT INCOMING AIR TEMPERATURE WILL FALL BELOW 35°F, ADJUSTABLE. ONE FREEZE PROTECTION THERMOSTAT FOR EACH 20 SQ. FT. OF COIL AREA.

RELAYS AND EQUIPMENT TO ENABLE SYSTEM TO SHUT DOWN UPON ACTIVATION OF FIRE ALARM SYSTEM, FIRE START IN FIRST FLOOR TOILET EXHAUST SYSTEM, OR FROM MANUAL OPERATION OF FIREMAN'S CONTROL PANEL. SYSTEM WILL BE CAPABLE OF BEING PLACED IN FIRE MODE OPERATION FROM THE FIREMAN'S CONTROL PANEL OR AUTOMATICALLY WHEN THE FIRE ALARM SYSTEM IS ACTIVATED. IN FIRE MODE OPERATION THE FIRST FLOOR TOILET EXHAUST FANS AND ALL THE POWER ROOF VENTILATORS WILL SHUT DOWN AND THE SUPPLY FAN WILL RUN CONTINUOUSLY.

THE MOTORIZED DAMPERS AT THE AIR HANDLING UNIT WILL POSITION THEMSELVES SO THAT THE SUPPLY FAN DRAWS AIR FROM THE SUPPLY DUCT SYSTEM AND EXHAUST IT TO THE FAN ROOM OUTSIDE THE AIR INTAKE. ONLY IF SWITCH ON FIREMAN'S CONTROL PANEL IS IN THE "MANUAL" POSITION.

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