SEQUENCE OF OPERATIONS:FAN COIL UNITS

The fan coil unit will be enabled and disabled by the BAS in accordance with a predefined time of day schedule.

Unoccupied

During un-occupied periods the fan will be off and the valves are closed. Should the space temperature rise above or drop below night setback setpoint the fan will be cycled on and the heating or cooling valve will open. When the space temperature rises above setpoint, the fan will cycle off and the valve closed. If a manual override switch mounted on the space thermostat is depressed, the fan coil units shall be individually referenced to the occupied mode for a temporary period.

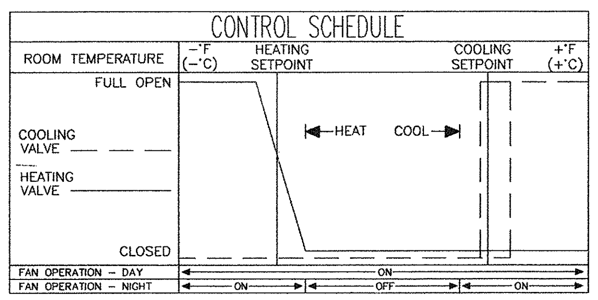
Occupied

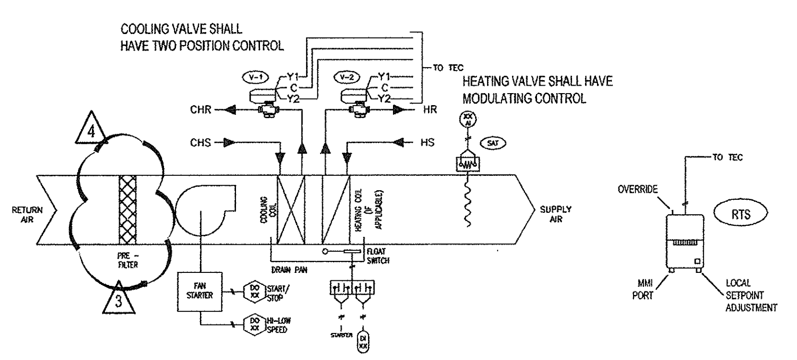
When the unit is in the occupied mode the fan will run continuously and the heating valve will modulate to maintain setpoint.
The cooling valve will fully open on a requirement for cooling and fully close when temperature reaches setpoint. Modulation of the cooling valve is prohibited. Fan speed shall be automatically selected by terminal equipment controller.

Alarms

A float switch located in the drain pan (auxilliary drain pan on concealed fan coils) shall turn the fan off and send an alarm to the BAS.

Note: Cooling coil control valve shall operate as a two position valve - full open or full closed. These valves shall not be included in the critical zone reset calculations.





1 FAN COIL UNIT CONTROL

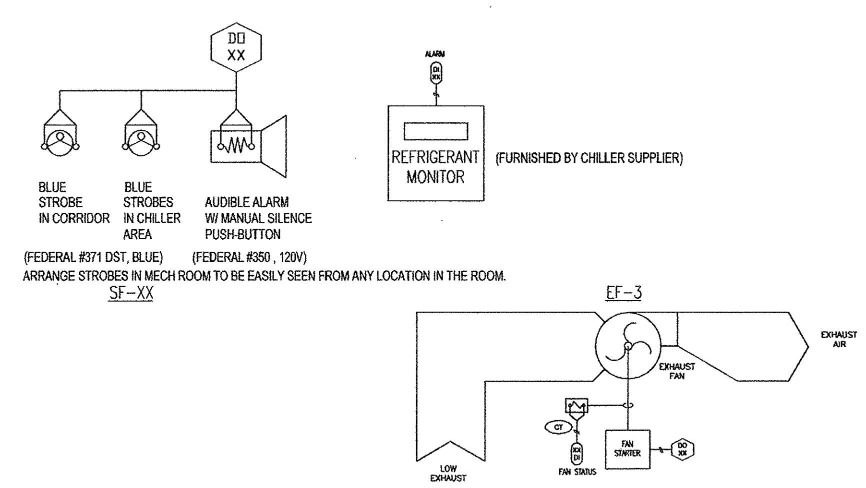
M405 | M405

NO SCALE

SEQUENCE OF OPERATIONS: REFRIGERANT EXHAUST SYSTEM

Emergency Mode

When the refrigerant sensor detects a refrigerant leak, an alarm shall be sent to the BAS. The BAS shall turn exhaust fan EF-3. An audible alarm will sound and strobes shall energize.



2 CHILLER ROOM VENTILATION CONTROL

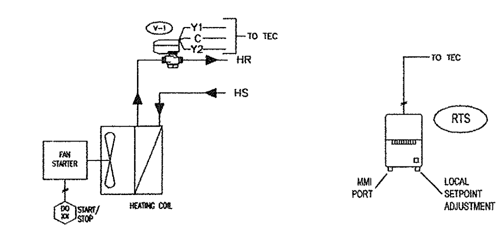
M405 | M405

NO SCALE

SEQUENCE OF OPERATIONS: UNIT HEATERS

As space temperature falls below 65 °F, the heating valve will modulate open.
The space thermostat shall energize the fan as space temperature falls below setpoint.

△1



3 TYPICAL UNIT HEATER CONTROL

M405 | M405

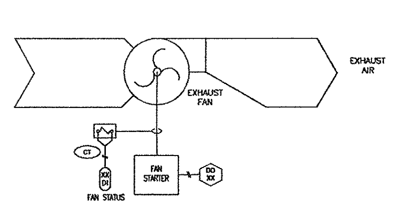
NO SCALE

△1

SEQUENCE OF OPERATION: TOILET AND GENERAL EXHAUST FANS

1. System Run

Exhaust fans shall be start/stopped on an owner defined schedule.



4 TOILET AND GENERAL EXHAUST FANS EF 7,8,9,10

M405 | M405

NO SCALE

△2 △1

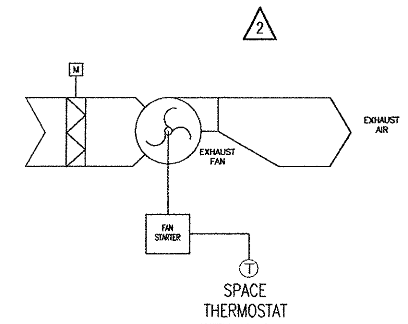
SEQUENCE OF OPERATION: EXHAUST FANS (T-STAT CONTROLLED)

1. System Run

Exhaust fans shall be start/stopped and the damper opened/closed by the space thermostat or the "hand" switch located at the space thermostat.

EF-4,5,6, Damper shall open when space temperature reaches 60°F, fan shall start when space temperature reaches 80°f.

△2



5 EXHAUST FANS (T-STAT CONTROLLED) EF 1,2,6,

M405 | M405

NO SCALE

△4 △2 △1 △1

POLK
STANLEY
YEARY
ARCHITECTS, LTD.

700 SOUTH SCHILLER
LITTLE ROCK, AR 72201
501 378-0878
FAX 372-7629

21 W. MOUNTAIN, SUITE 227
FAYETTEVILLE, AR 72701
479-444-0473

CONSULTANTS:

OWNER'S PROJECT ADVISOR:
MOSES TUCKER REAL ESTATE, INC.

CIVIL ENGINEER:
McCLELLAND ENGINEERS

LANDSCAPE ARCHITECT:
LARSON BURNS SMITH

STRUCTURAL ENGINEER:
CROMWELL ENGINEERS INC.

MECH., ELEC., PLUMB. ENGINEER:
CROMWELL ENGINEERS INC.

SUSTAINABLE CONSULTANT:
BNIM / ELEMENTS

GLOBAL VILLAGE CONSULTANT
CAMBRIDGE SEVEN ASSOCIATES

INTERIOR DESIGNER:
POLK STANLEY YEARY

GENERAL CONTRACTOR:
CDI

GENERAL NOTES:

NOTES:

ISSUE DATE:
DECEMBER 15, 2003
CORE/SHELL
PACKAGE #5

REVISIONS:

#	DATE	DESCRIPTION
△1	1-16-04	ADDENDUM #1
△2	1-23-04	PACKAGE 5-ADDM. 02
△3	7-1-04	PACKAGE 7, 100% ROLL UP
△4	11-29-04	ASI #27

HEIFER INTERNATIONAL CENTER OFFICE BUILDING

LITTLE ROCK, ARKANSAS

PSY PROJECT NUMBER:
431C

CERTIFICATE OF AUTHORIZATION CROMWELL ENGINEERS ARKANSAS ENGINEERS

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER TODD A. KUHN

CONTENTS:
HVAC CONTROLS

SHEET NUMBER: △1

M405