

1. Locate down stream duct static pressure pit-hood (see approximately 2/3 down duct). See floor plans for location.
2. Provide communications interface to the control system for diagnostic point information. Refer to pit-hood list for required parts to be shipped.
3. Provide multiple pressure-sensors as required to achieve 3ft of element for each 3,4 ft of duct face area.
4. Provide CHWV temperature ~~with~~ and sensor on all units with coil capacity greater than 10 tons. CO2 sensors for demand ventilation applications only.
5. Provide sensors for Space CO2 sensors for demand ventilation applications only.
6. Coordinate with mechanical design to ensure adequate filter/air lengths of duct and proper range on the sensor. OA AFMS is not necessary for demand ventilation applications.
7. Where applicable provide additional design details.

See sheet C-105 Mechanical Controls for additional equipment details.

POINTS LIST							
ADDRESS	POINT DESCRIPTION	POINT TYPE					REMARKS
		DI	AI	DO	AO	W	
	Supply Fan S/S	*		*			
	Supply Fan Statics						
	Supply Fan Speed		*				
	DD Static Press		*				
	Supply Temp						
	Smoke/Tra Alarm	*					
	Dash HI Static	*					
	Sect Lo Static	*					
	PH Cell DAT	*					
	Freeze/def	*					
	Mixed Air Temp	*					See Note 5
	Return Air Temp	*					See Note 5
	Return Air CO2	*					See Note 5
	Space CO2	*					See Note 6
	OA Flow	*					
	CHW Valve	*					
	CHW Temp	*					See Note 4
	HW Valve	*					
	Circ Pump S/S	*					See Note 7
	Circ Pump Statics	*					See Note 7
	Econ Dampers	*					
	OA Damper	*					
	VFD Alarm/Fault	*					Interface Point
	VFD Fault Code	*					Interface Point
	VFD Spd Feedback	*					Interface Point
	VFD KW	*					Interface Point
	VFD In Bypass	*					Interface Point

LOGIC VARIABLES		
BINARY	ANALOG	DESCRIPTION

RUN	ON WHEN UNIT COMMENCED TO START
SSO	ON WHEN SUPPLY FAN DECELERATED AND STATUS PROVEN
WAGO	ON WHEN OA CONDITIONS ALLOW ECONOMIZED CONTROL
LOPR	ON WHEN LO STATIC ALARM IS ACTIVE
TRZ	ON WHEN FREEZE/STAT IS IN ALARM
FIRE	ON WHEN FIRE ALARM IS ACTIVE
HTRP	ON WHEN IN STATIC ALARM IS ACTIVE
SELY	ON WHEN "TRZ", "THP", "HTRP" OR "SWAC" ARE ON
HST	VARIABLE OUTCALCULATED VALUE OF HIGHEST SPACE TEMPERATURE
LOAT	VARIABLE VALUE OF OUTSIDE AIR TEMPERATURE
SAT	VARIABLE VALUE OF SUPPLY AIR TEMPERATURE
PHI	VARIABLE VALUE OF RETURN AIR TEMPERATURE
WAT	VARIABLE VALUE OF MIXED AIR TEMPERATURE
MINDO	VARIABLE VALUE OF MIN ON DAMPER POSITION
DOSH	VARIABLE OUTCALCULATED VALUE OF DISCHARGE TEMPERATURE SETPOINT
CCCD	VARIABLE OUTCALCULATED VALUE OF CHW VALVE POSITION
HPCD	VARIABLE OUTCALCULATED VALUE OF HAW VALVE POSITION
EECD	VARIABLE OUTCALCULATED VALUE OF ECONOMIZER PD OUTPUT
DAVSP	VARIABLE OUTCALCULATED VALUE OF OUTSIDE AIR FLOW SETPOINT

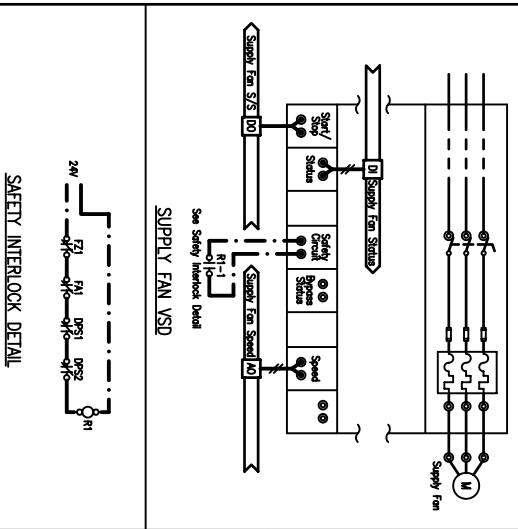
The University of North Carolina
Chapel Hill, North Carolina

Standard Control Drawings

Eng	HR
Dream	BMW
Chick	---
Aspd	---
Issued	06/05/2010
Job No.	---
Scots	N/A
Prod Costs	

REV. 5

SINGLE DUCT
VAV AH WITH
PREHEAT &
CHW COIL, NO
RETURN FAN



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