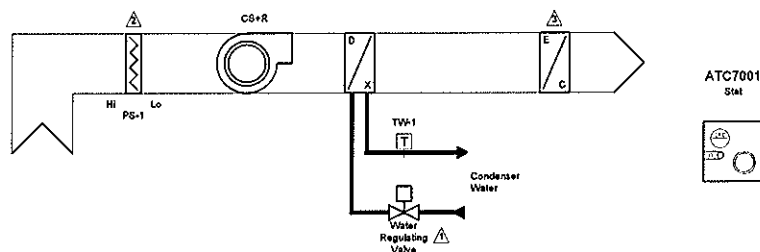
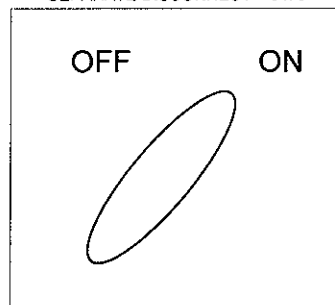


Device ID	Description	Part #	Manufacturer	Qty
T-Space	2% Space Temp Sensor	NS-ATC7001-0	Johnson Controls	1
CS+R	Auto Set Split Core Current Sensor	C-2330	Senva	1
	Command Relay	CR3-24V		
DIS	Disconnect	P1-32A2-SVB-SVA-NA	Mosler	1
TW-1	1kOhm Ni Immersion Temp 6"	TE200CM12CZA	Greystone	1
	304 SS Well 6"	T-1 1/2 P 6		
PS-1	Pressure Sensor	267110CLD11A1CD	Sefra	1

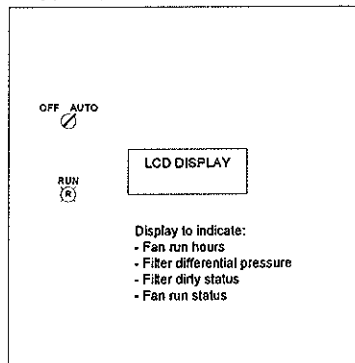


1. The control circuit is to have terminals to allow the unit to de-energize on fire. (Fire alarm device by other). See Specs

SEPARATE DISCONNECT - 6 x 6



CONTROL PANEL - NEMA 12 - 24 x 24

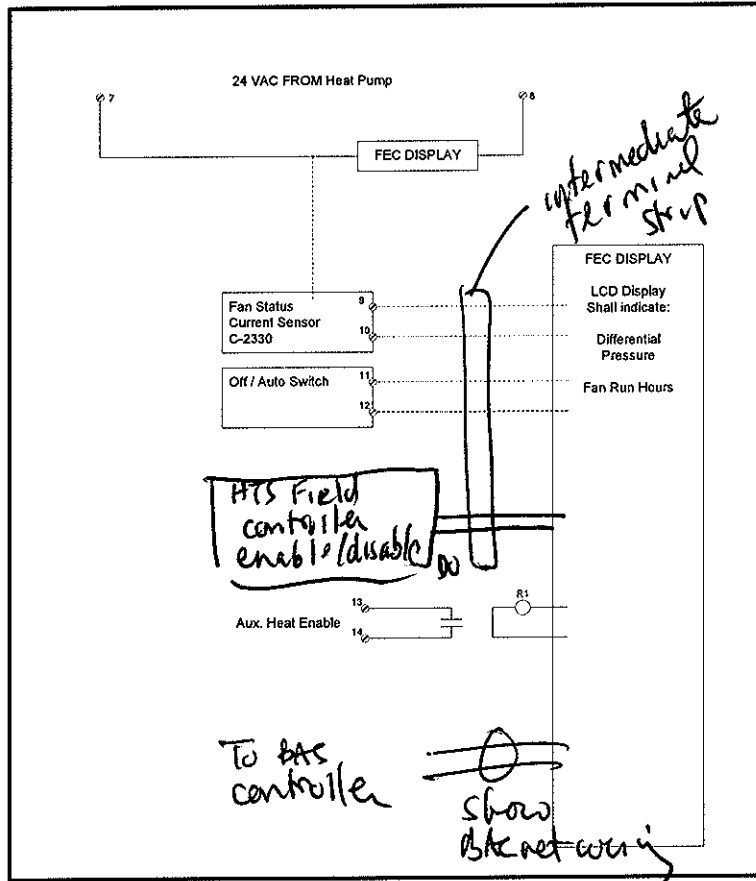


NOTES:

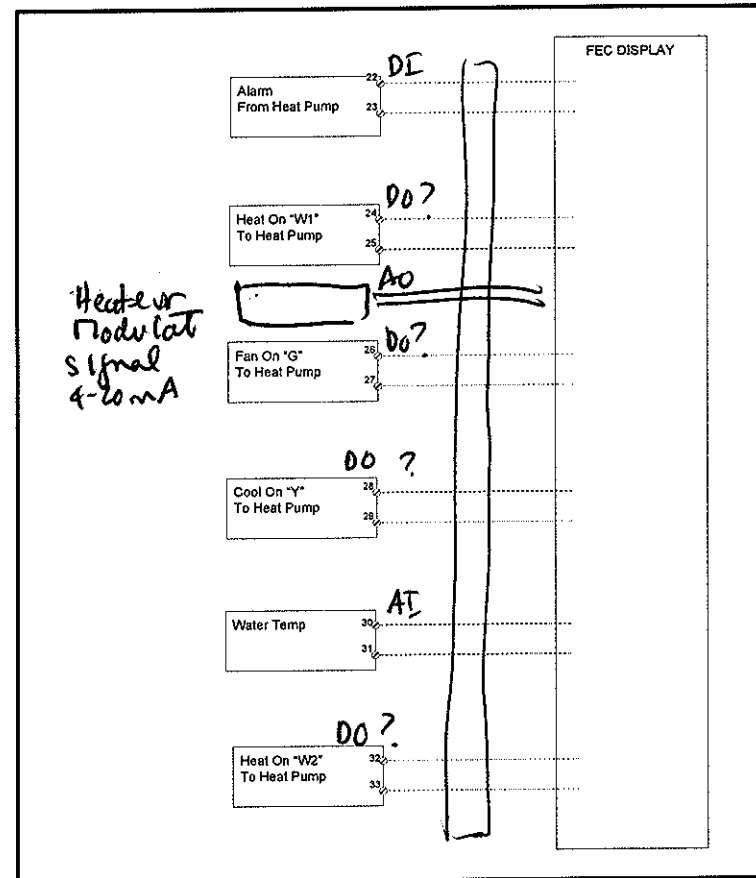
- 1 - Water regulating valve (self-contained) requires no wiring.
- 2 - Filter monitoring transmitter by others.
- 3 - Duct electric coil controls field wired by HTS.

System Name:	Library ID:	E			
		D			
		C			
		B	April 26, 2010	For Approval	RHJ
		A	Feb 18, 2010	Revised	WS
Shop Drawing Revision Information		Submittal	Rev:	3	April 26, 2010
AHU-0203 (HU-4)		HTS Engineering Ltd.			
RL Clark WTP		HTS Engineering Ltd. 115 Norfench Drive North York, Ontario M2N 1W8 Tel: 416.661.3400 Fax: 416.661.0100			
		HTS PROJECT NUMBER 2052311			
		DRAWING NUMBER Schematics - 8			


CONTROL PANEL



CONTROL PANEL (CONTINUED)



Notes

System Name:	Library ID:	E			
		D			
		C			
AHU-0203 Wiring (HU-4)		B	April 26, 2010	For Approval	RHJ
		A	April 26, 2010	Revised	WES
Shop Drawing Revision Information			Submit	Rev.	3 April 26, 2010
RL Clark WTP			HTS Engineering Ltd. 115 Horsfield Drive North York, Ontario M2H 1G6 Tel: 416.661.3400 Fax: 416.661.0100		HTS PROJECT NUMBER: 2052311 DRAWING NUMBER: Schematics - 9

HU-4

SEQUENCE OF OPERATION


Space sensor shall call for heat stage 1, heat stage 2, cool, or fan operation.

Fan operation – Fan shall operate. LCD display shall indicate information as directed on schematic.

Cool operation – On a call for cooling from the space sensor, heat pump shall operate compressor in cooling mode.

Heat operation – On a call for heating from the space sensor, heat pump shall operate compressor in heating mode (stage 1). On a further call for heating from the space sensor, the duct electric coil (supplied & wired by others) shall energize (stage 2).

Unit has night setback capability as programmed by BAS TT-0203A.

System Name:	Library ID:	E				
		D				
		C				
AHU-0203 Sequence (HU-4)		B	April 26, 2010	For Approval		RHJ
		A	Feb 18, 2010	Revised		WS
Shop Drawing Revision Information		Submital	Rev:	3	April 26, 2010	
RL Clark WTP				HTS Engineering Ltd. 115 Norfinch Drive North York, Ontario M3N 1Y6 Tel: 416.661.3400 Fax: 416.661.0100		
				HTS PROJECT NUMBER 2052311		
				DRAWING NUMBER Schematics - 10		