



CYLON

Building Management System

Sign On and Click This Button To Continue



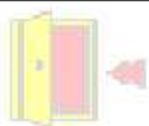


Startup
Screen

Rotunda Hospital - Menu



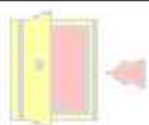
MCC1
Boilers



MCC1
Hot Water
Services



MCC1
Pumps



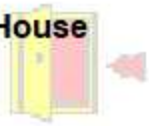
MCC1
Neo Natal ICU
Pumps



MCC1A
Basement Heating
Pumps



Boiler House
Alarms



MCC1 Meters



AHU Overview



SMALL BOILER
PLANT



Admin Boilerhouse



Post Mortem air
handling unit



NICU Small Boiler
Plant Heating



MCC-2
Lilly Suite Roof Vent
AHU



MCC-2
Lilly Suite Roof Vent
Ex Fans



MCC-3
Lilly Suite Op.
Theatre AHU



MCC-3 Lilly Suite Op.
Theatre CHW Pumps



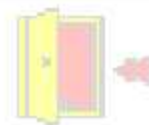
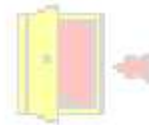
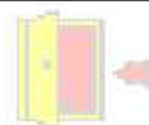
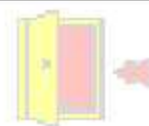
MCC-1
Boiler House Extract
Fan



MCC-7
Neo Natal - AHU 3



Main Entrance AHU



Next Page





Menu

MCC1 - Boiler House

Fire Alarm



Boiler
Setpoint



SET POINT

57.0°C

Time Schedule



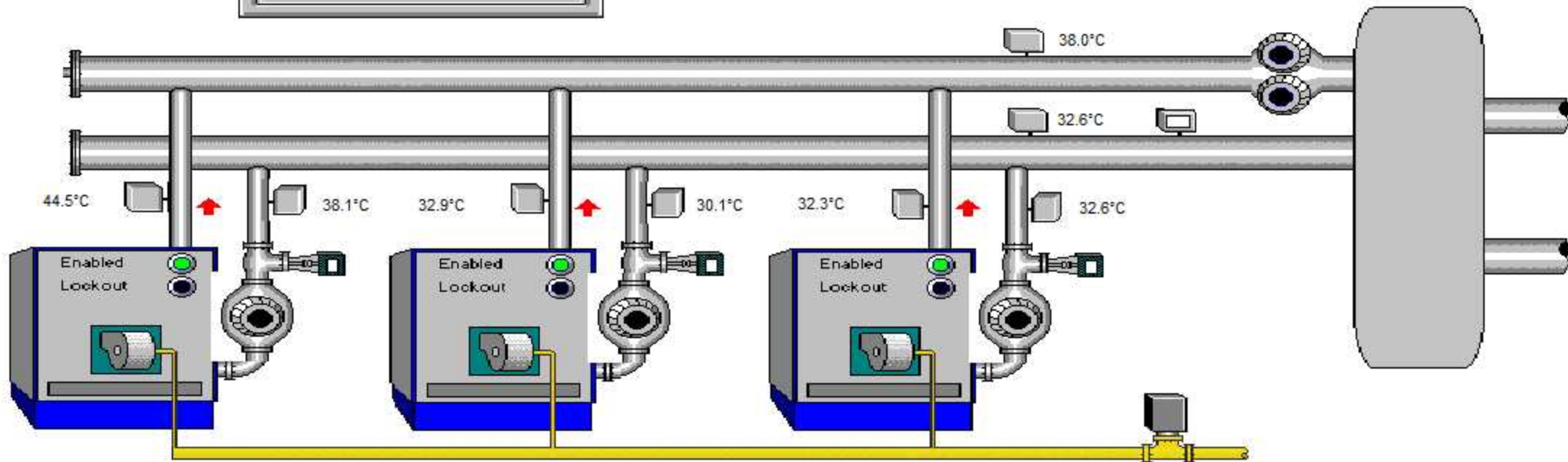
Edit

Outside Temp

21.4°C

Normal

Frost Stat



High Pressure Cut Out

Normal



Low Pressure Cut Out

Normal



PREV

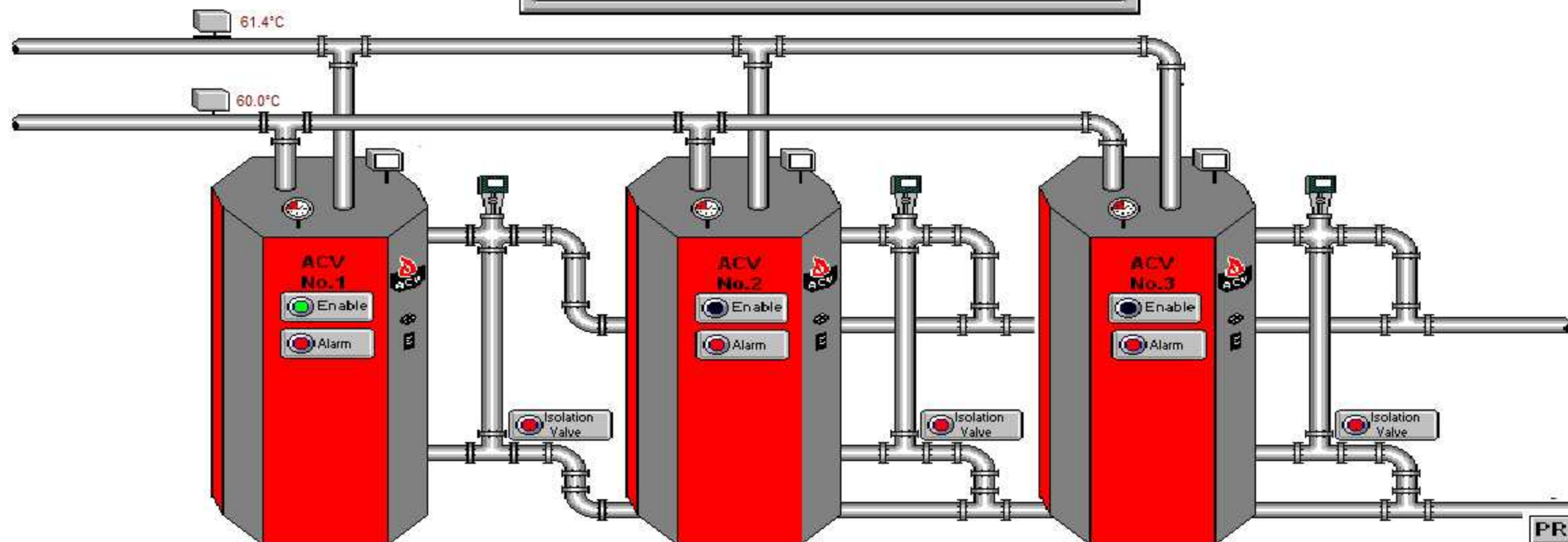
NEXT

Menu 1

MCC1 - Hot Water Services



Water Heater 1	Water Heater 2	Water Heater 3	Return Setpoint
Time Schedule Edit	Time Schedule Edit	Time Schedule Edit	 SET POINT
On	Off	Off	52.0°C



PREV NEXT

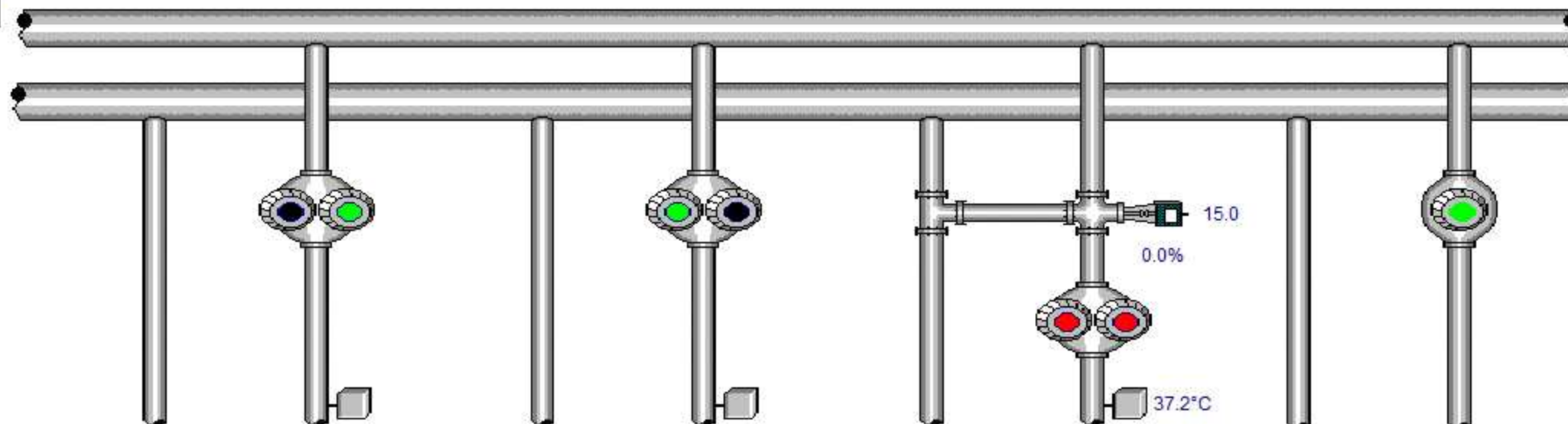


Menu

MCC1 - LPHW Pumps



Fire Alarm



Outside Temp
21.5°C
Normal
Frost Stat

Pump Set 1 - LPHW Primary Pump

Time Schedule
Pumps Enable
Pump Select
Pump 1 Status
Pump 1 Fault
Pump 2 Status
Pump 2 Fault

Pump Set 2 - LPHW Primary Pump

Time Schedule
Pumps Enable
Pump Select
Pump 1 Status
Pump 1 Fault
Pump 2 Status
Pump 2 Fault

Pump Set 3

Time Schedule
Pumps Enable
Pump Select
Pump 1 Status
Pump 1 Fault
Pump 2 Status
Pump 2 Fault

S/P @ 0°C
S/P @ 20°C
Calculated S/P

DHWS Secondary Pump

Pump Enable
Pump Status

PREV NEXT

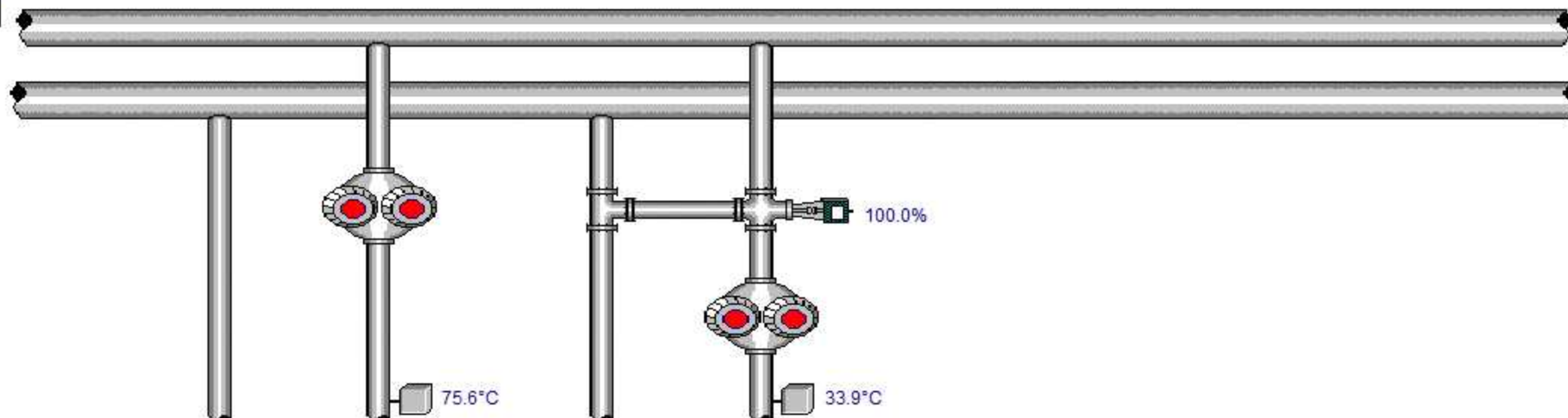


Menu

MCC1 - Neo Natal ICU Pumps



Fire Alarm



Outside Temp
21.4°C
Normal
Frost Stat

Pump Set 4 - Constant Temp - Lilly Suite



Pumps Enable ☒
Pump Select 1
Pump 1 Status ☐
Pump 1 Fault ☐
Pump 2 Status ☐
Pump 2 Fault ☐

Pump Set 5 - Lilly Suite Radiators



Pumps Enable ☒
Pump Select 2
Pump 1 Status ☐
Pump 1 Fault ☐
Pump 2 Status ☐
Pump 2 Fault ☐

S/P @ 0°C
S/P @ 20°C
Calculated S/P

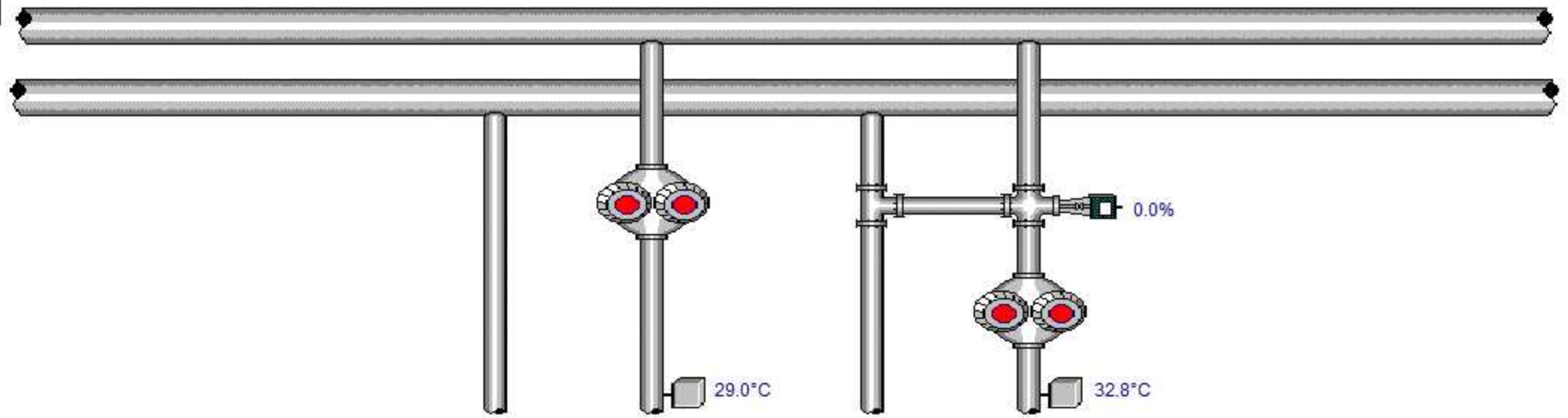
PREV NEXT

 Menu

MCC1A Basement Heating Pumps



Fire Alarm 



Outside Temp
21.4°C
Normal
Frost Stat

Constant Temperature Circuit

Time Schedule   

Pumps Enable 

Pump Select

Pump 1 Status 

Pump 1 Fault 

Pump 2 Status 

Pump 2 Fault 

Radiator Circuit

Time Schedule   

Pumps Enable 

Pump Select

Pump 1 Status 

Pump 1 Fault 

Pump 2 Status 

Pump 2 Fault 

S/P @ 0°C 

S/P @ 20°C 

Calculated S/P

 Menu

Rotunda Hospital - Boiler House Alarm Menu

 Boiler 1 Lockout	 Pump 2A Alarm	 Pump 5A Alarm	 Gas Heater 1 Alarm	 Booster Set 1 Alarm	 Booster Set 7 Lilly Suite Alarm
 Boiler 2 Lockout	 Pump 2B Alarm	 Pump 5B Alarm	 Gas Heater 2 Alarm	 Booster Set 2 Alarm	 Pump 1A Alarm MCC1A
 Boiler 3 Lockout	 Pump 3A Alarm	 Low Pressure Alarm	 Gas Heater 3 Alarm	 Booster Set 3 Alarm	 Pump 1B Alarm MCC1A
 Warmac Booster Set	 Pump 3B Alarm	 High Pressure Alarm	 Gas Heater 1 High Limit Alarm	 Booster Set 4 Kitchen Alarm	 Pump 2A Alarm MCC1A
 Pump 1A Alarm	 Pump 4A Alarm	 Cold Water Booster Set	 Gas Heater 2 High Limit Alarm	 Booster Set 5 Alarm	 Pump 2B Alarm MCC1A
 Pump 1B Alarm	 Pump 4B Alarm	 MEDICAL GAS ALARM PANEL No.1	 Gas Heater 3 High Limit Alarm	 Booster Set 6 Tower Alarm	 MEDICAL GAS ALARM PANEL No.2



MCC1 Meters



PRESS UNIT BREAK TANK METER



Total Usage
7072.0L/s

Last 15 Mins
0.0L/s

MAIN BOILER PLANT



Total Usage
3175405.0m3

Last 15 Mins
4.0m3

SMALL BOILER PLANT



Total Usage
16155873.0m3

Last 15 Mins
0.0m3

ACV PLANT



Total Usage
876190.0m3

Last 15 Mins
0.0m3

PU WATER HEAT METER



Total Usage
23139.0kWh

Last 15 Mins
0.0kWh

MAIN HOSPITAL HEAT METER



Total Usage
554800.0kWh

SECOND HOSPITAL HEAT METER



Total Usage
343600.0kWh

THEATRE CIRCUIT ENERGY METER



Total Usage
252806.0kWh

NICU CIRCUIT ENERGY METER



Total Usage
230.0kWh

HWS SECONDARY HEAT METER



Total Usage
2072300.0kWh

ELECTRICITY METER

Total 19.0kWh

Last 15 0.0kWh



Menu

Rotunda Hospital - AHU Overview



Lilly Suite Roof Ventilation AHU

Average Room Temperature 6.0°C

Supply Fan Enable

Supply Fan Trip

Supply Fan Airflow

Frost Stat

Bag Filter Status

Panel Filter Status

Neonatal ICU Wing - AHU No. 2

Supply Air Temperature 6.0°C

Supply Fan 1 Enable

Supply Fan 1 Trip

Supply Fan 2 Enable

Supply Fan 2 Trip

Supply Fan Airflow

Frost Stat

Bag Filter Status

Panel Filter Status

Lilly Suite - Operating Theatre AHU

Supply Air Temperature 6.0

Supply Fan Low Speed Enable

Supply Fan Low Speed Trip

Supply Fan High Speed Enable

Supply Fan High Speed Trip

Supply Fan Airflow

Return Fan Low Speed Enable

Return Fan Low Speed Trip

Return Fan High Speed Enable

Return Fan High Speed Trip

Return Fan Airflow

Frost Stat

Bag Filter Status

Panel Filter Status

Isolation rooms Ahu

Supply Air Temperature 6.0°C

Supply Enable

Supply Airflow

Heating Enable

DX Enable

Bag Filter Status

Panel Filter Status

Main Neonatal ICU - AHU No. 3

Supply Air Temperature 6.0°C

Supply Fan 1 Enable

Supply Fan 1 Trip

Supply Fan 2 Enable

Supply Fan 2 Trip

Supply Fan Airflow

Frost Stat

Bag Filter Status

Panel Filter Status

Neonatal ICU Changing rooms - AHU No. 1

Supply Air Temperature 6.0°C

Supply Fan Enable

Supply Fan Trip

Supply Fan Airflow

Frost Stat

Bag Filter Status

Panel Filter Status

PREV

NEXT

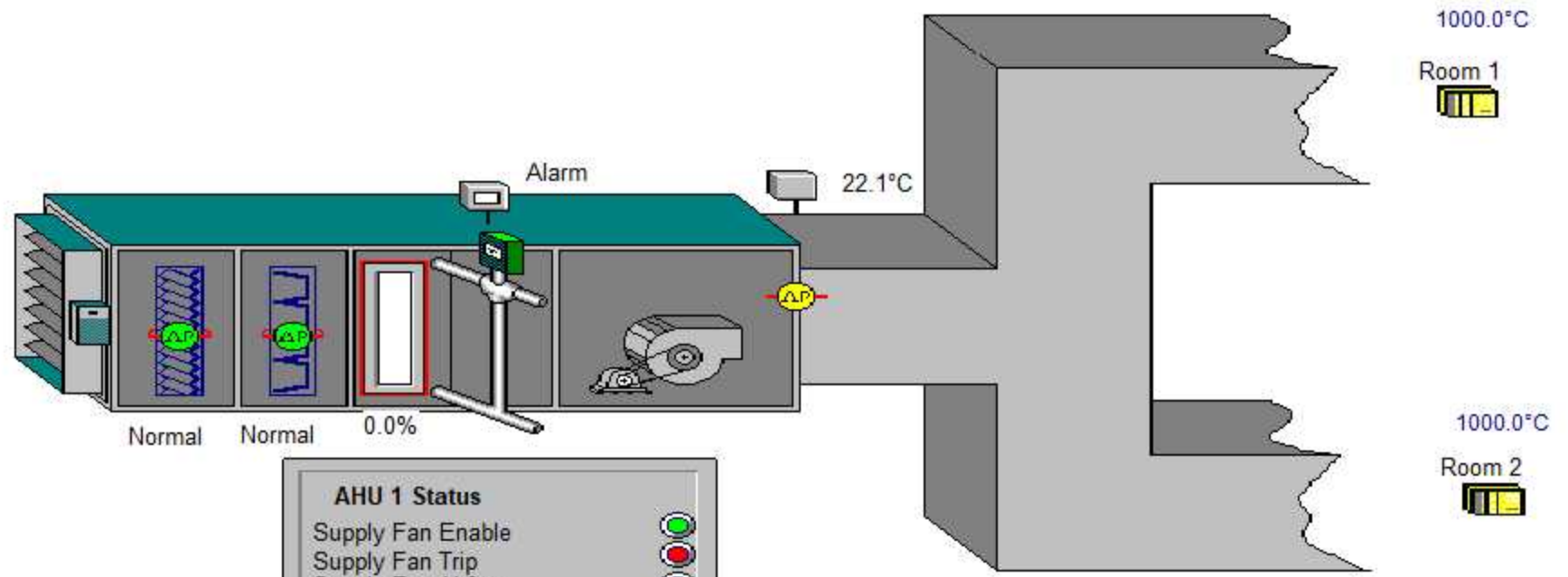
 Menu

Roof Ventilation - AHU No. 1



Fire Alarm 

Room Temp S/P	Supply Low Limit	Time Schedule   Edit
		
16.0°C	10.0°C	



AHU 1 Status

Supply Fan Enable	
Supply Fan Trip	
Supply Fan Airflow	
Panel Filter Status	
Bag Filter Status	

 Menu

Lilly Suite - Roof Ventilation Extracts



Fire Alarm 

Extract Fan 1

Time Schedule

Time Schedule



Edit

On

EF1 Enable 

EF1 Duty Select 

EF1 Common Alarm 

EF1 Airflow 

Extract Fan 2

Time Schedule

Time Schedule



Edit

On

EF2 Enable 

EF2 Trip 

EF2 Airflow 

Extract Fan 3

Time Schedule

Time Schedule



Edit

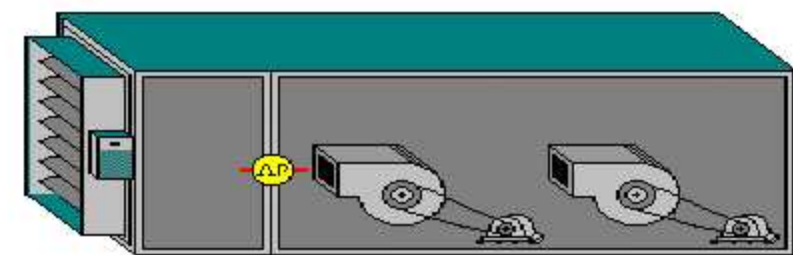
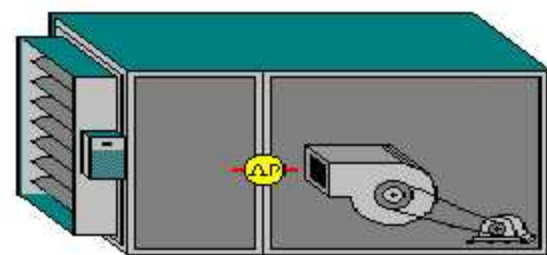
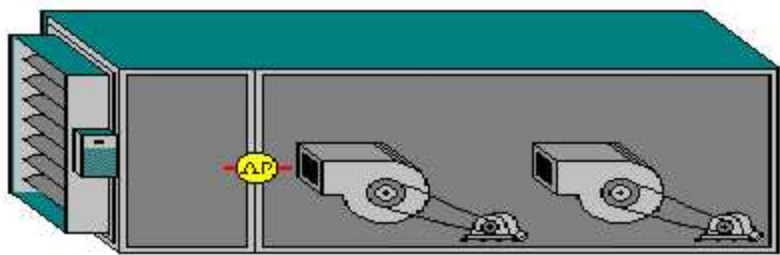
On

EF3 Enable 

EF3 Duty Select 

EF3 Common Alarm 

EF3 Airflow 



Menu

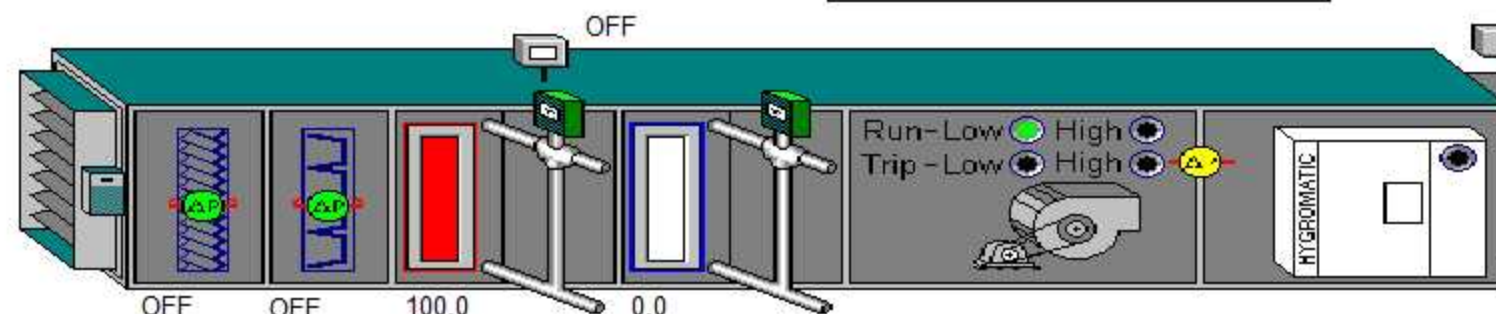
Lilly Suite - AHU Operating Theatre



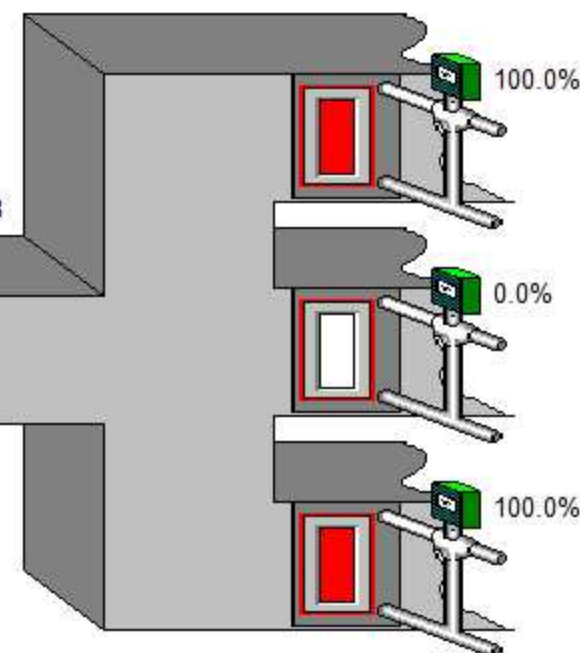
Fire Alarm



Supply Temp S/P	Supply Low Limit
 SET POINT	 SET POINT
18.0	12.0



15.8



20.3

20.5

21.8

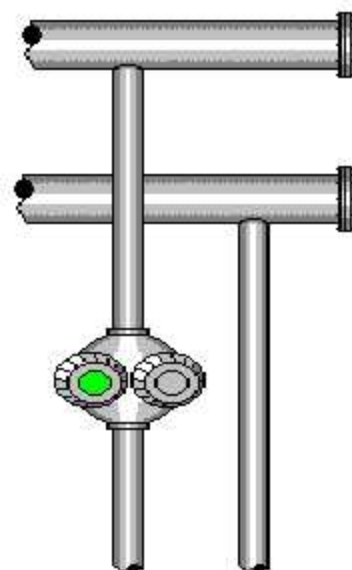
Theatre 1 (LOCAL)
 SET POINT
22.6°C
Theatre 2 (LOCAL)
 SET POINT
20.4°C
Recovery
 SET POINT
24.0

PREV NEXT



Menu

Lilly Suite - Chilled Water Pumps



CHW Pump Set

Enable

Pump 1 Enable ☐

Pump 1 Status ☒

Pump 2 Enable ☒

Pump 2 Status ☐

Pump 1/2 Trip ☐

 Menu

Isolation Room - AHU

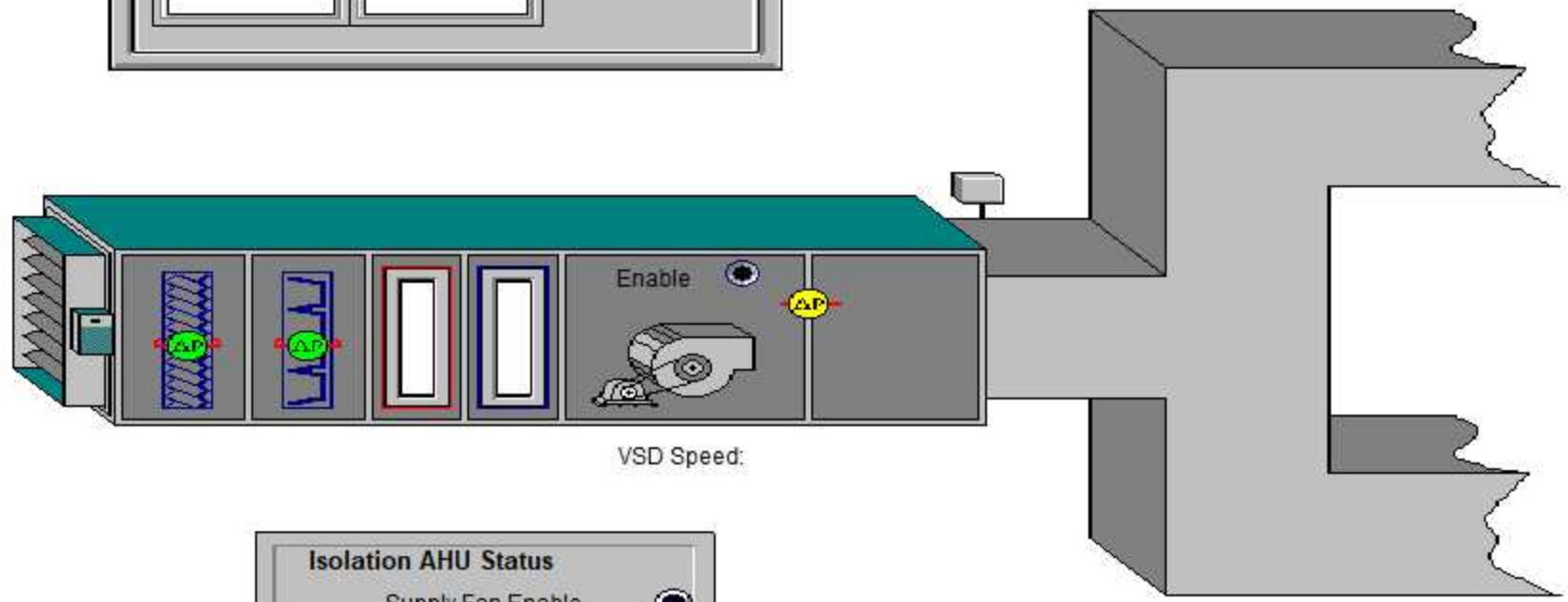


Fire Alarm 

Supply Air S/P	AHU Low Limit S/P
	
SET POINT	SET POINT

 Time Schedule

Outside Temp 



Room 1 

Room 2 

VSD Speed:

Isolation AHU Status

- Supply Fan Enable 
- Supply Air Flow 
- Heating Enable 
- DX Enable 
- Panel Filter Status 
- Bag Filter Status 



Menu

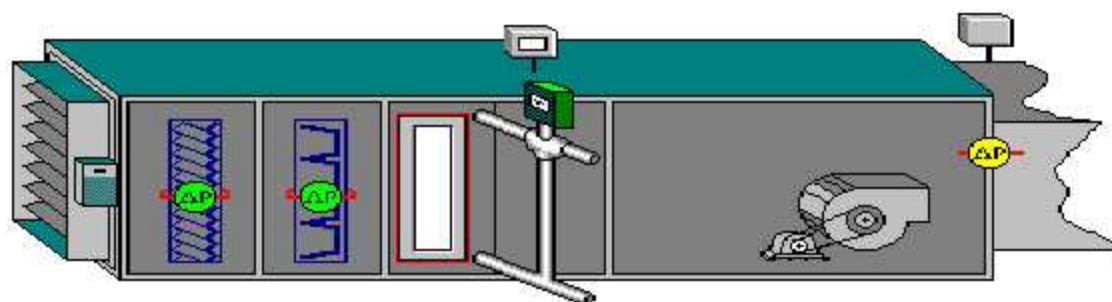
Neonatal ICU - AHU No. 1



Fire Alarm



Room Temp S/P	Supply Low Limit
 SET POINT	 SET POINT
	Time Schedule Edit



AHU No.1 Status

Supply Fan Enable
Supply Fan Trip
Supply Fan Airflow
Panel Filter Status
Bag Filter Status



PREV

NEXT



Menu

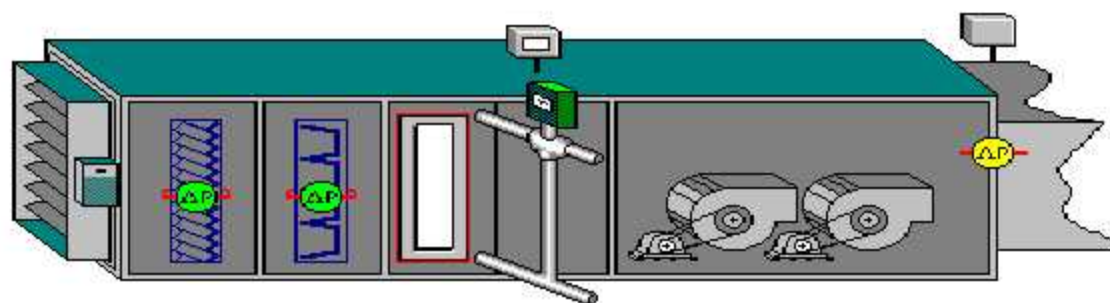
Neonatal ICU - AHU No. 2



Fire Alarm



Room Temp S/P	Supply Low Limit	Time Schedule Edit
 SET POINT	 SET POINT	



AHU No.2 Status

Supply Fan 1 Enable
Supply Fan 1 Trip
Supply Fan 2 Enable
Supply Fan 2 Trip
Supply Fan Airflow
Panel Filter Status
Bag Filter Status



PREV NEXT



Menu

Neonatal ICU - AHU No. 3



Fire Alarm



Room Temp S/P

Supply Low Limit

10 20 30

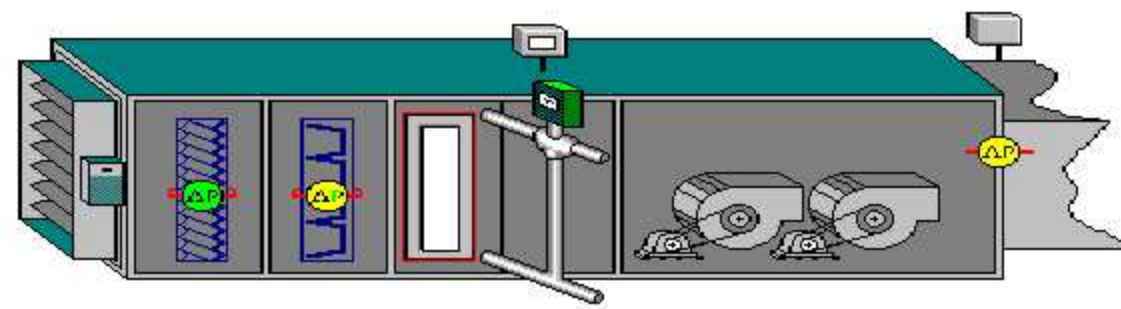
SET POINT

10 20 30

SET POINT

Time Schedule

Edit



AHU No.3 Status

Supply Fan 1 Enable

Supply Fan 1 Trip

Supply Fan 2 Enable

Supply Fan 2 Trip

Supply Fan Airflow

Panel Filter Status

Bag Filter Status

PREV NEXT

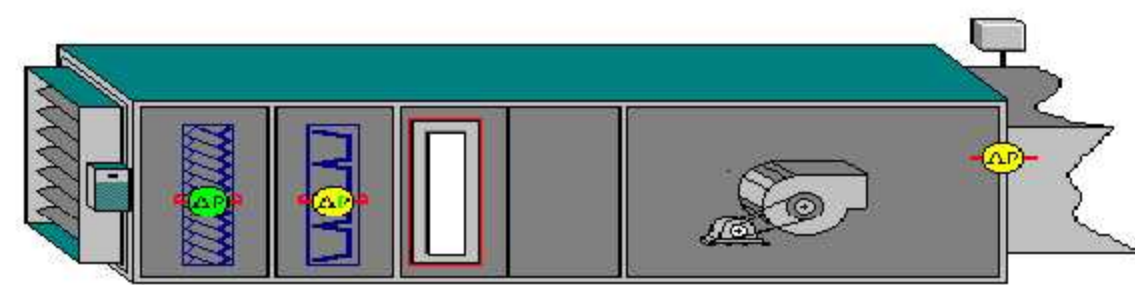


Menu

Main Entrance AHU



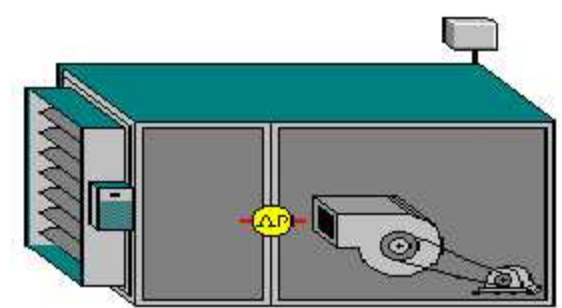
Fire Alarm



Main Entrance AHU

Supply Fan Status

Return Fan Status



Room Temp



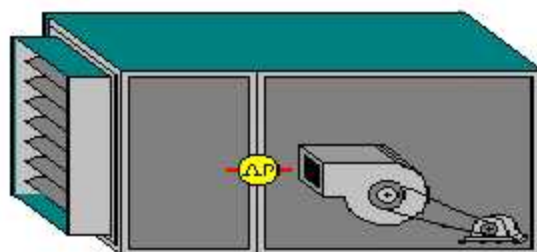


Menu

Boiler House Extract Fan



Fire Alarm



Boiler House Extract

Enable



Time Schedule



Edit

PREV

NEXT



Ahu fresh air temperature
15.9

Supply fan speed

Ahu electric heater
22.9

Ahu supply air temperature
20.1



Ahu a/c cooling
0.0

Run around pump

Ahu return air temperature
23.1

Return fan speed



Run around immersion
temperature 15.2

Ahu supply air control setpoint
20.0

Ahu supply fan speed control
60.0

Ahu return fan speed control
70.0



Rotunda Hospital - Menu 2



NNICU AHU 1 MH/S/14, 15, 16, 17, 18, 20	NNICU IPS Signals	DELIVERY SUITE AHU 3	THEATRE 01 AHU 01	THEATRE 02 AHU 02	OFFICE AREA AHU 04	ANNEX ROOFTOP AHU 05	
NNICU AHU 2 MH/S/49, 50, 51, 52, 55 MH/S/C7 EAST & WEST	Door Curtains	DELIVERY SUITE AHU 3 Extract Fans	THEATRE 01 AHU 01 Extract Fan	THEATRE 02 AHU 02 Extract Fan	OFFICE AREA AHU 04 Extract Fan	ANNEX ROOFTOP EXTRACT FAN EF-05 & EF-08	
NNICU Main Extract Fan EF-01	NNICU AHU MH/S/53 & 53A & 54	DELIVERY SUITE Alarm Monitoring	MCC 01 Alarm Monitoring			ANNEX ROOFTOP ALARMS & MONITORING	
NNICU Single Cot Extract Fan EF-02							
NNICU UPS Switch Room Extract Fan EF-03							
NNICU Alarms							



Main
Menu

Rotunda Hospital - NNICU Air Handling Unit One

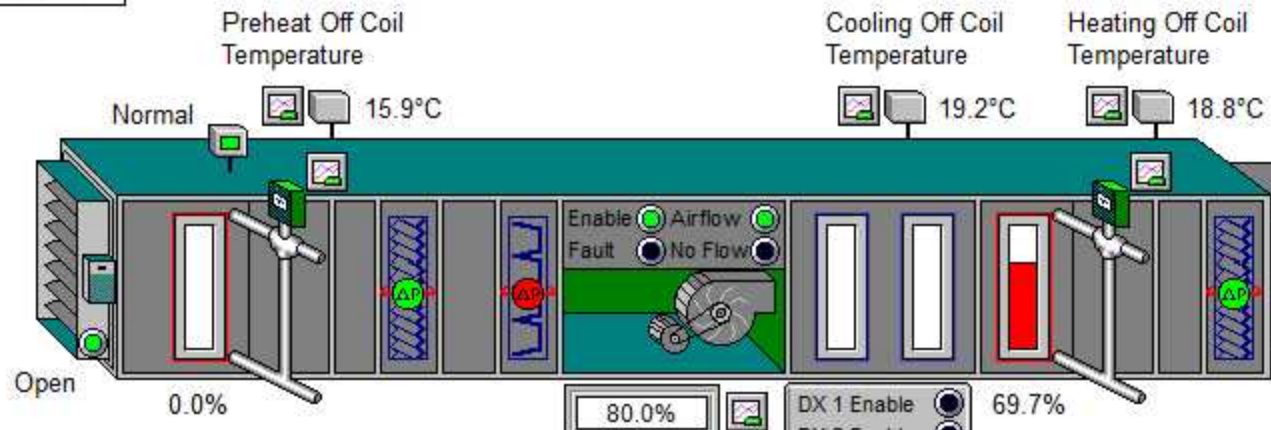


NNICU
AHU 2

Control Setpoint	Low Limit Setpoint	Preheat Setpoint	Fan Speed Setpoint	Time Schedule Edit
16.0°C	4.0°C	4.0°C	80.0%	

Fire Alarm

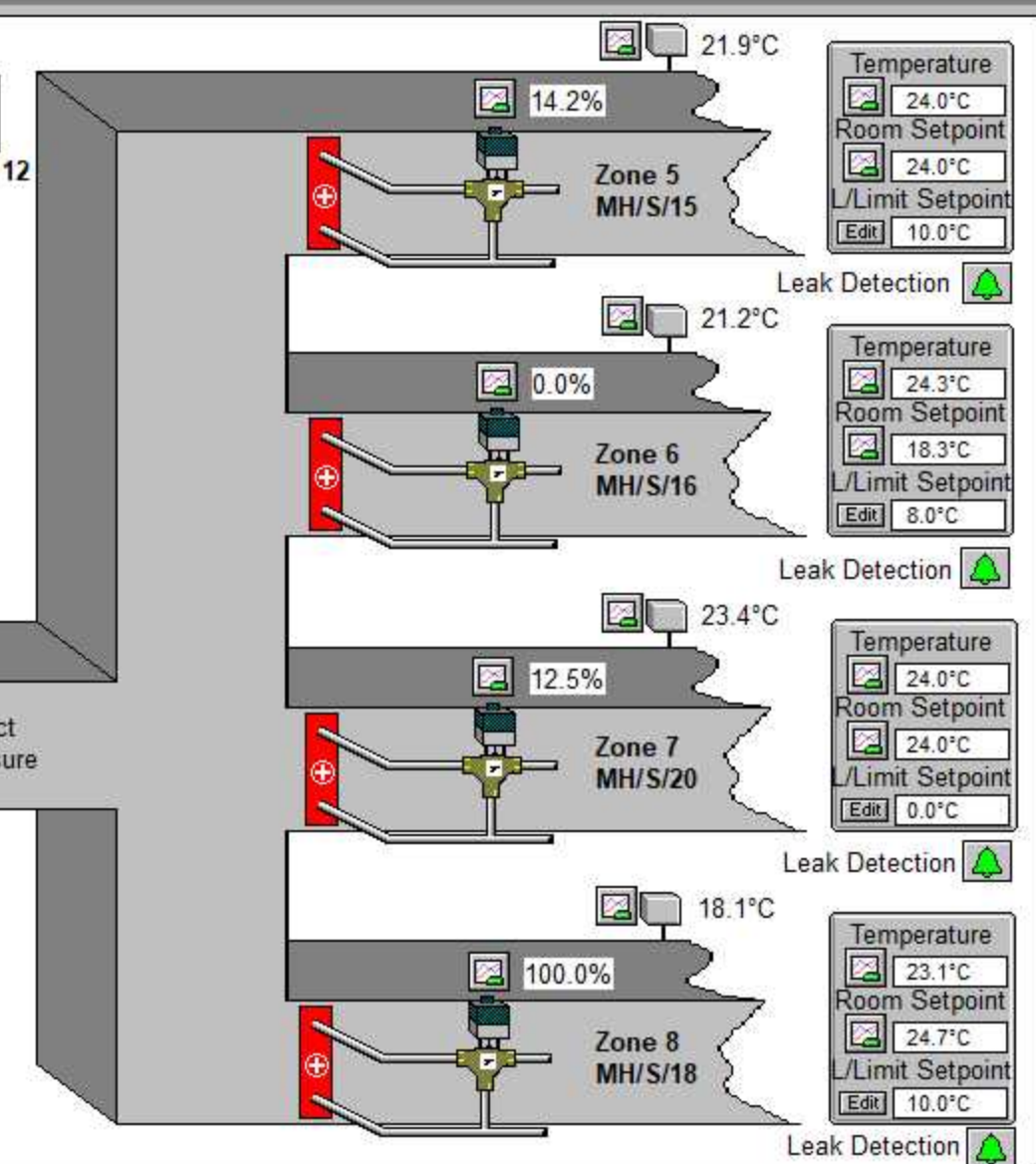
Normal



☒ DX 1 Enable
☒ DX 2 Enable
☐ DX 1 Fault
☐ DX 2 Fault
☐ Leak Detect
 DX 1 % 0.0%
 DX 2 % 0.0%

MORE

Re-Heat 9 To 12





Main
Menu

Rotunda Hospital - NNICU Air Handling Unit One



NNICU
AHU 2

Control Setpoint	Low Limit Setpoint	Preheat Setpoint	Fan Speed Setpoint	Time Schedule Edit
16.0°C	4.0°C	4.0°C	80.0%	

Fire Alarm

Normal

15.2°C

Preheat Off Coil Temperature 15.9°C

Cooling Off Coil Temperature 19.2°C

Heating Off Coil Temperature 18.7°C

Supply Duct Temperature & Humidity
 69.8%rh
 17.2°C

Supply Duct High Pressure

Re-Heat 5 To 8

Open 0.0%

Enable Airflow No Flow

80.0%

DX 1 Enable

DX 2 Enable

DX 1 Fault

DX 2 Fault

Leak Detect

DX 1 % 0.0%

DX 2 % 0.0%

69.4%

Zone 9 MH/S/14 21.4°C

0.0%

Temperature 25.6°C

Room Setpoint 18.1°C

L/Limit Setpoint 12.0°C

Edit

Leak Detection

Zone 10 MH/S/17 18.0°C

0.0%

Temperature 23.6°C

Room Setpoint 21.9°C

L/Limit Setpoint 12.0°C

Edit

Leak Detection

FUTURE -1000.0°C

100.0%

Temperature -1000.0°C

Room Setpoint 18.0°C

L/Limit Setpoint 14.0°C

Edit

FUTURE -1000.0°C

100.0%

Temperature -1000.0°C

Room Setpoint 18.0°C

L/Limit Setpoint 14.0°C

Edit

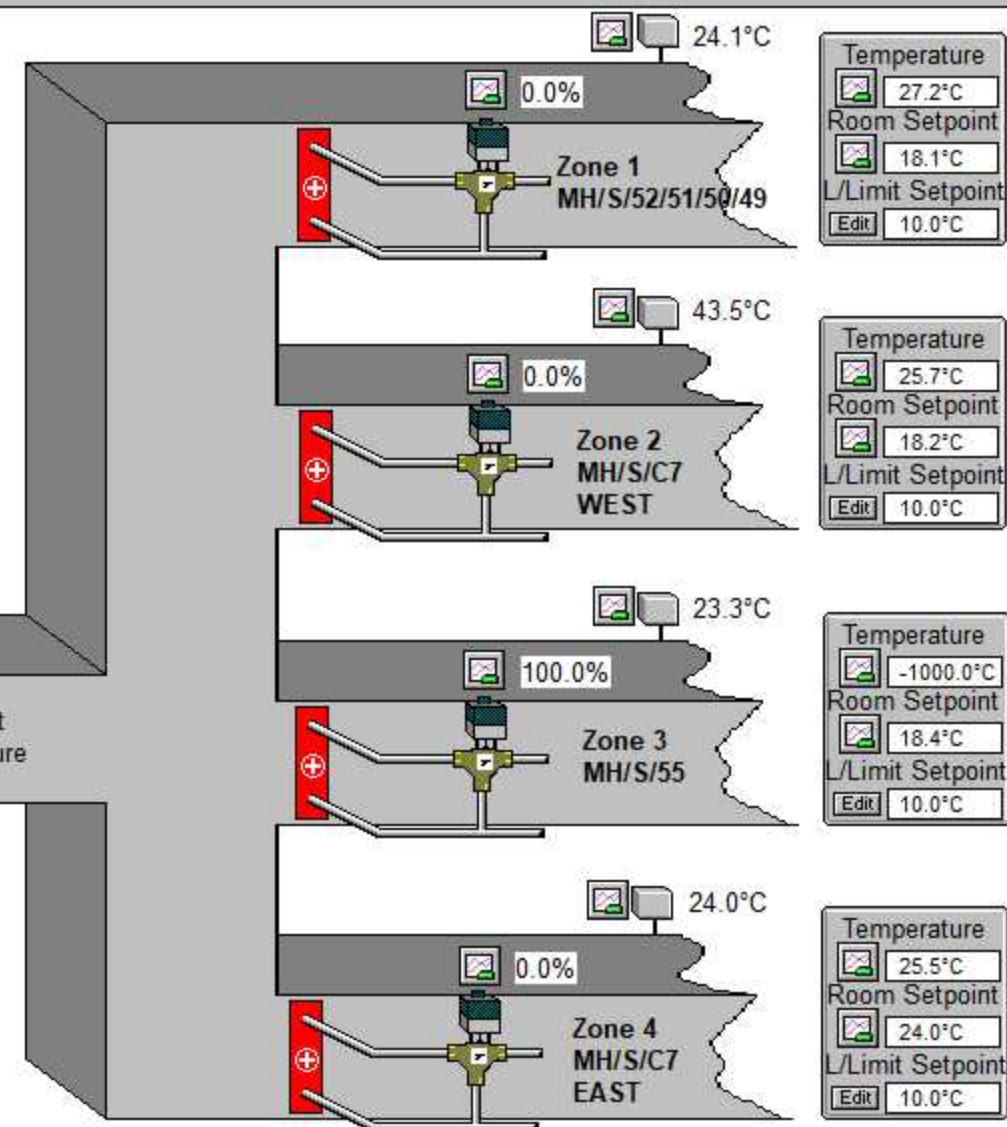
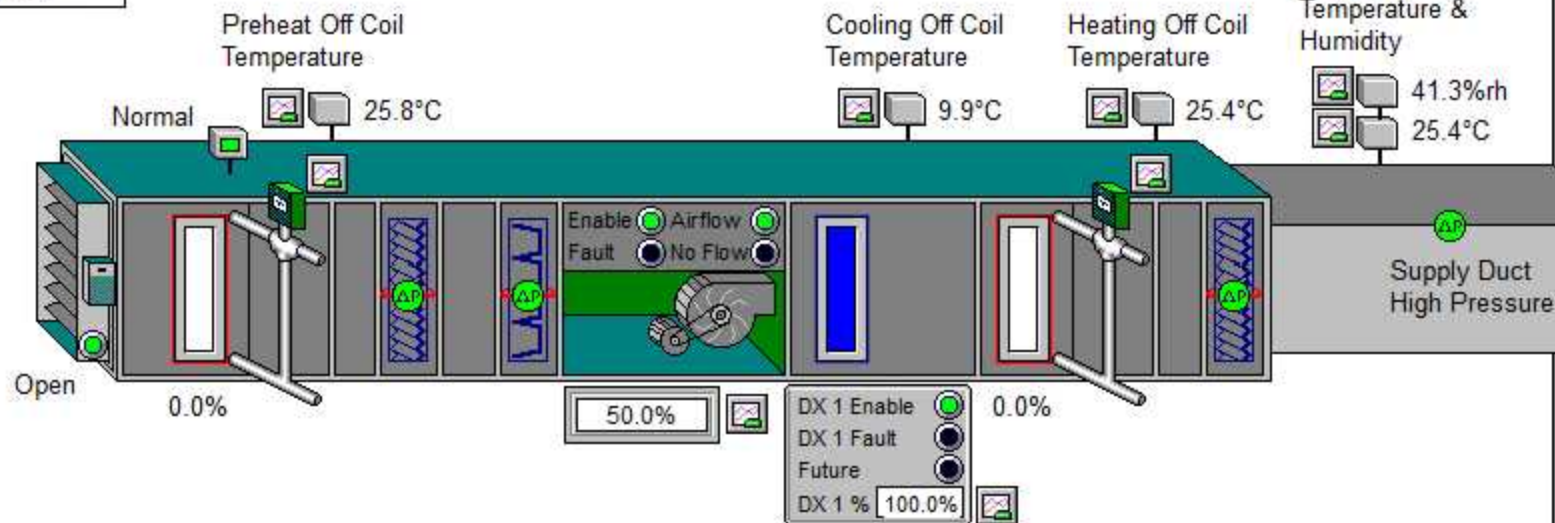
Main Menu

Rotunda Hospital - NNICU Air Handling Unit Two

NNICU AHU 1

Control Setpoint	Low Limit Setpoint	Preheat Setpoint	Fan Speed Setpoint	Time Schedule Edit
15.0°C	5.0°C	7.0°C	50.0%	

Fire Alarm
Normal





Main Menu

Rotunda Hospital - NNICU Extract Fans



Fire Alarm
Normal

Hydrogen Sensor
0.0%

EF-01 Main Extract Fan

EF-01 Time Schedule

Time Schedule

Edit

EF-01 Enable

EF-01 Fire Disable

EF-01 Fault

Fan Speed

100.0%

Fan Speed Setpoint

100.0%

EF-02 Single Cot Extract Fan

EF-02 Time Schedule

Time Schedule

Edit

EF-02 Enable

EF-02 Fire Disable

EF-02 Fault

Fan Speed

100.0%

Fan Speed Setpoint

100.0%

EF-03 UPS Room Extract Fan

EF-02 Time Schedule

Time Schedule

Edit

EF-01 Enable

EF-01 Run Status

Room Humidity

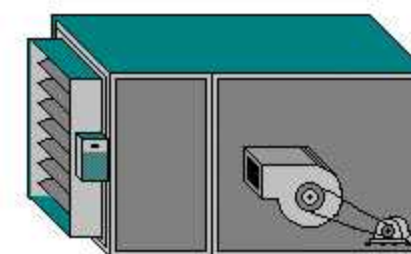
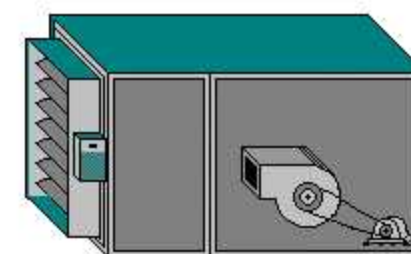
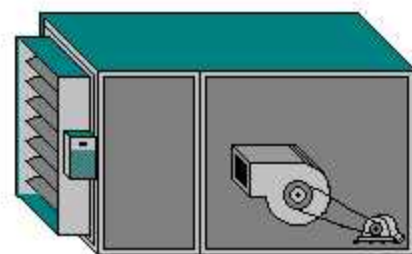
0.0%rh

Room Temperature

-20.0°C

Room Setpoint

20.0°C





Main
Menu

Rotunda Hospital - NNICU Extract Fans



Fire Alarm 
Normal

 Hydrogen Sensor
0.0%

EF-01 Main Extract Fan

EF-01 Time Schedule

Time Schedule



Edit

EF-01 Enable 

EF-01 Fire Disable 

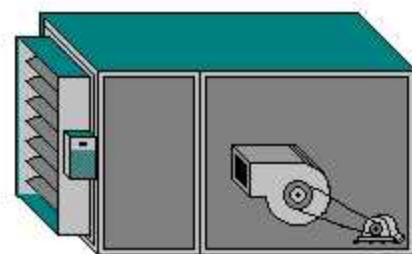
EF-01 Fault 

Fan Speed

 100.0%

Fan Speed Setpoint

 100.0%



EF-02 Single Cot Extract Fan

EF-02 Time Schedule

Time Schedule



Edit

EF-02 Enable 

EF-02 Fire Disable 

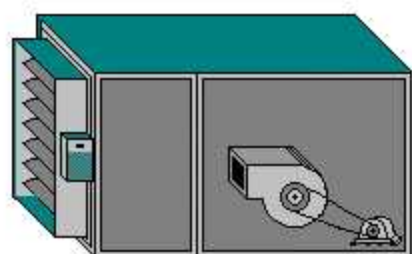
EF-02 Fault 

Fan Speed

 100.0%

Fan Speed Setpoint

 100.0%



EF-03 UPS Room Extract Fan

EF-03 Time Schedule

Time Schedule



Edit

EF-03 Enable 

EF-03 Run Status 

Room Humidity

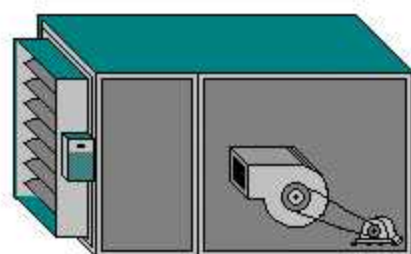
 0.0%rh

Room Temperature

 -20.0°C

Room Setpoint

 20.0°C





Main Menu

Rotunda Hospital - NNICU Extract Fans



Fire Alarm Normal

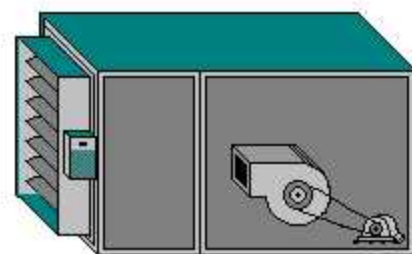
Hydrogen Sensor 0.0%

EF-01 Main Extract Fan

EF-01 Time Schedule

Edit

EF-01 Enable
EF-01 Fire Disable
EF-01 Fault
Fan Speed
Fan Speed Setpoint
Edit

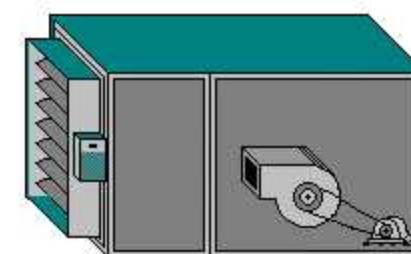


EF-02 Single Cot Extract Fan

EF-02 Time Schedule

Edit

EF-02 Enable
EF-02 Fire Disable
EF-02 Fault
Fan Speed
Fan Speed Setpoint
Edit

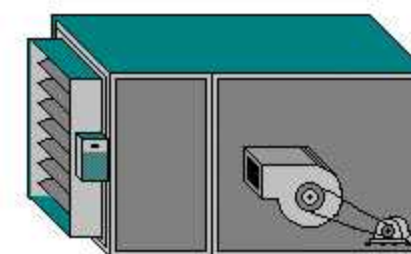


EF-03 UPS Room Extract Fan

EF-03 Time Schedule

Edit

EF-03 Enable
EF-03 Run Status
Room Humidity
Room Temperature
Room Setpoint
Edit





IPS Signals

 NNICU EDS Insulation Fault Monitoring System 1	 NNICU EDS Insulation Fault Monitoring System 2	 NNICU EDS Insulation Fault Monitoring System 3	 NNICU Fire Smoke Damper Panel Status	 NNICU Medical Gases Fault Status	 NNICU UPS Unit 1 Status	 NNICU UPS Unit 1 Overload	 NNICU UPS Unit 1 Overload Shutdown
 NNICU UPS Unit 1 Emergency Off	 NNICU UPS Unit 1 Equipment Over Temperature	 NNICU UPS Unit 1 Low Battery	 NNICU UPS Unit 1 Battery Discharge	 NNICU UPS Unit 1 Input Power Failure	 NNICU UPS Unit 2 Status	 NNICU UPS Unit 2 Overload	 NNICU UPS Unit 2 Overload Shutdown
 NNICU UPS Unit 2 Emergency Off	 NNICU UPS Unit 2 Equipment Over Temperature	 NNICU UPS Unit 2 Low Battery	 NNICU UPS Unit 2 Battery Discharge	 NNICU UPS Unit 2 Input Power Failure	 NNICU UPS Unit 3 Status	 NNICU UPS Unit 3 Overload	 NNICU UPS Unit 3 Overload Shutdown
 NNICU UPS Unit 3 Emergency Off	 NNICU UPS Unit 3 Equipment Over Temperature	 NNICU UPS Unit 3 Low Battery	 NNICU UPS Unit 3 Battery Discharge	 NNICU UPS Unit 3 Input Power Failure	 Boiler House UPS 1 Fault	 Boiler House UPS 2 Fault	 Damper Control Panel Fault
							
							



Main
Menu

Rotunda Hospital - NNICU IPS Signals



Alarms

NNICU IPS Unit 1 Fault	NNICU IPS Unit 2 Fault	NNICU IPS Unit 3 Fault	NNICU IPS Unit 4 Fault	NNICU IPS Unit 5 Fault	NNICU IPS Unit 6 Fault
NNICU IPS Unit 1 Run Status	NNICU IPS Unit 2 Run Status	NNICU IPS Unit 3 Run Status	NNICU IPS Unit 4 Run Status	NNICU IPS Unit 5 Run Status	NNICU IPS Unit 6 Run Status
NNICU IPS Unit 1 Fault Signal 0.0%	NNICU IPS Unit 2 Fault Signal 0.0%	NNICU IPS Unit 3 Fault Signal 0.0%	NNICU IPS Unit 4 Fault Signal 0.0%	NNICU IPS Unit 5 Fault Signal 0.0%	NNICU IPS Unit 6 Fault Signal 0.0%

Main Door Curtains



Door Curtains Timeclock

	Pump 1	Pump 2
Enable	Off	Off
Failed	Off	Off
Fault	On	On
Proven	On	
Change Over	On	
Reset	Off	

Oat Inhibit Stpt

Setpoint

Status



Flow



Return

Main
Menu



 Menu

NNICU AHU



Fire Alarm 

Normal

Low Limit Setpoint	Room 4 Control S/P	Pre-Heat Frost Setpt	Time Schedule  Edit
			
16.0°C	20.0°C	16.0°C	

 15.3°C

Outside Temperature

16.4°C

81.6%rh

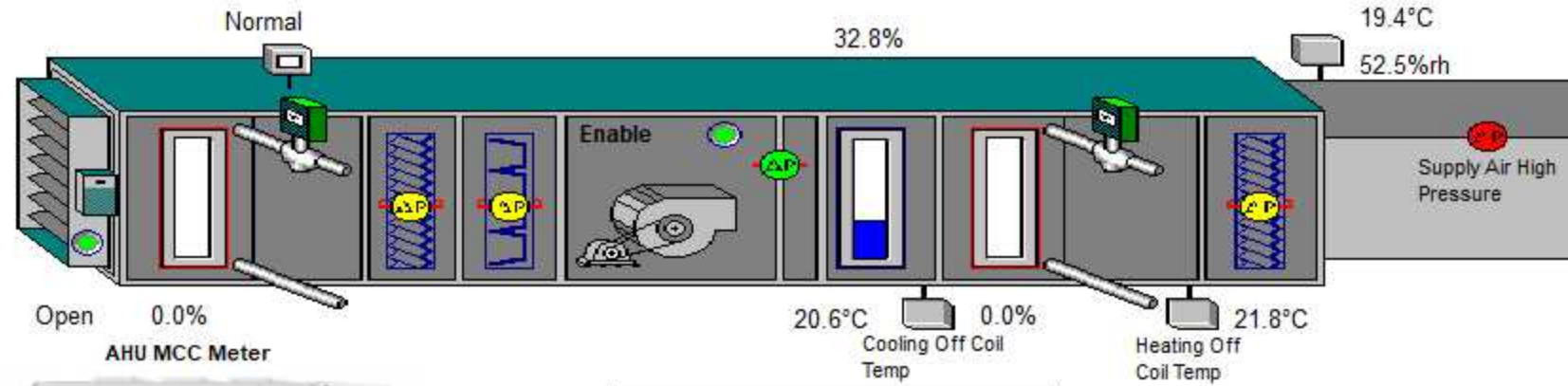
Outside Humidity

Isolation Room 2

 23.3°C

Isolation Room 4

 20.9°C



72575.2kWh

NNICA AHU Status

- Supply Fan Enable 
- Supply Air Flow 
- Supply Fan Fault 
- DX Enable 
- DX Run Status 
- DX Fault Status 

Flow Temperature From NNICA Heating Pumps

 75.0°C

Boiler And Pumps



Main
Menu

Rotunda Hospital - DELIVERY AHU 3 & Reheats 1 to 4.



Extract
Fans

Fire Alarm
Normal

Control Setpoint	Low Limit Setpoint	Fan 1 Speed Setpoint	Fan 2 Speed Setpoint	Time Schedule Edit
15.0°C	10.0°C	79.0%	60.0%	

Design Speed = 65%



Reheats 13 to 16



15.4°C

Cooling On Coil Temperature
Cooling Off Coil Temperature

16.9°C

13.8°C

Frost Stat Normal

0.0%

Supply Duct Temperature & Humidity

15.7°C
70.3%rh



Open

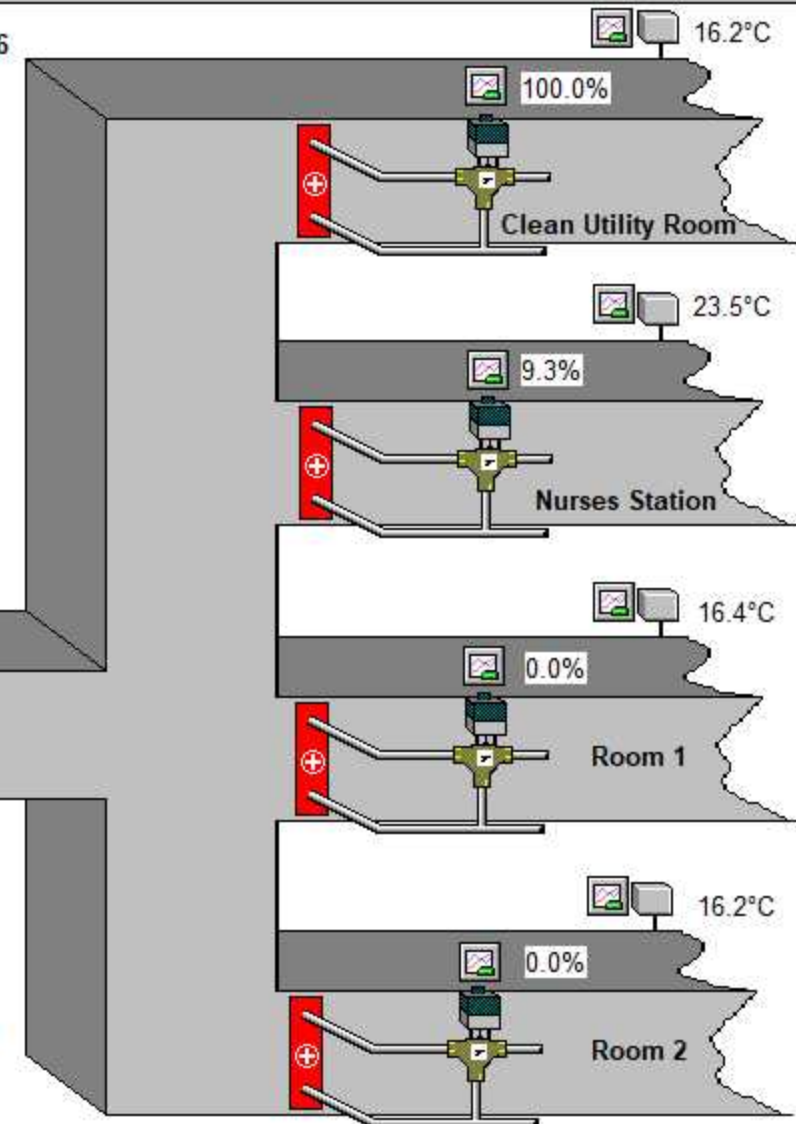
Open

Supply Fan 1 Enable
Supply Fan 2 Enable
Supply Fan 1 Fault
Supply Fan 2 Fault
Fan1 Speed Output 79.0%
Fan 2 Speed Output 60.0%

DX 1 % 26.0%
DX 2 % 0.0%
DX Unit Fault Status

197.0Pa
Air Flow Reading

Reheats 5 to 8



Temperature
21.9°C
Room Setpoint
24.0°C
L/Limit Setpoint
10.0°C

Temperature
23.3°C
Room Setpoint
18.7°C
L/Limit Setpoint
10.0°C

Temperature
22.2°C
Room Setpoint
19.6°C
L/Limit Setpoint
10.0°C

Temperature
21.2°C
Room Setpoint
20.3°C
L/Limit Setpoint
10.0°C



Main
Menu

Rotunda Hospital - DELIVERY AHU 3 & Reheats 13 to 16.



Extract
Fans

Fire Alarm
Normal

Control Setpoint	Low Limit Setpoint	Fan 1 Speed Setpoint	Fan 2 Speed Setpoint	Time Schedule Edit
15.0°C	10.0°C	79.0%	60.0%	

Design Speed = 65%



Reheats 9 to 12



15.4°C

Cooling On Coil
Temperature

Cooling Off Coil
Temperature

17.1°C

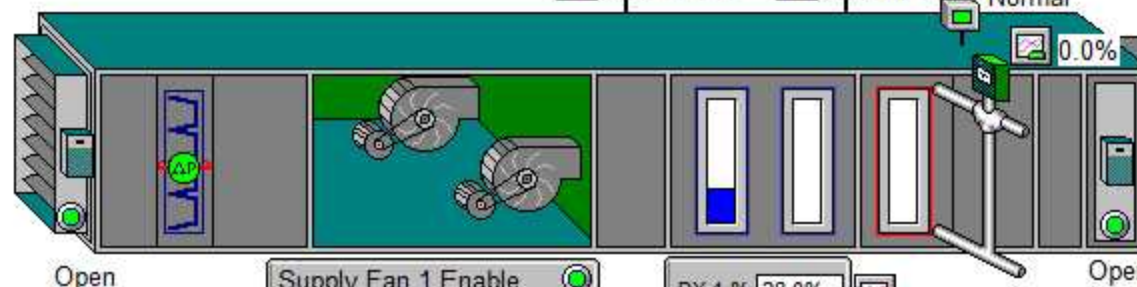
13.9°C

Frost Stat
Normal

0.0%

Supply Duct
Temperature &
Humidity

15.9°C
69.9%rh



Open

Open

Supply Fan 1 Enable
Supply Fan 2 Enable
Supply Fan 1 Fault
Supply Fan 2 Fault

Fan1 Speed Output 79.0%
Fan 2 Speed Output 60.0%

DX 1 % 28.0%
DX 2 % 0.0%
DX Unit
Fault Status

ΔP

196.3Pa

Air Flow Reading

Reheats 1 to 4



33.8°C

100.0%

Corridor
(Beside Fire Escape)

Future

Future

Future

Future

Future

Temperature
23.1°C
Room Setpoint
24.0°C
L/Limit Setpoint
16.0°C
Edit

Edit

Edit

Edit



Main
Menu

Rotunda Hospital - DELIVERY AHU 3 & Reheats 9 to 12.



Extract
Fans

Fire Alarm
Normal

Control Setpoint	Low Limit Setpoint	Fan 1 Speed Setpoint	Fan 2 Speed Setpoint	Time Schedule Edit
15.0°C	10.0°C	79.0%	60.0%	

Design Speed = 65%



Reheats 5 to 8

MORE

15.4°C

Cooling On Coil Temperature
Cooling Off Coil Temperature

17.1°C

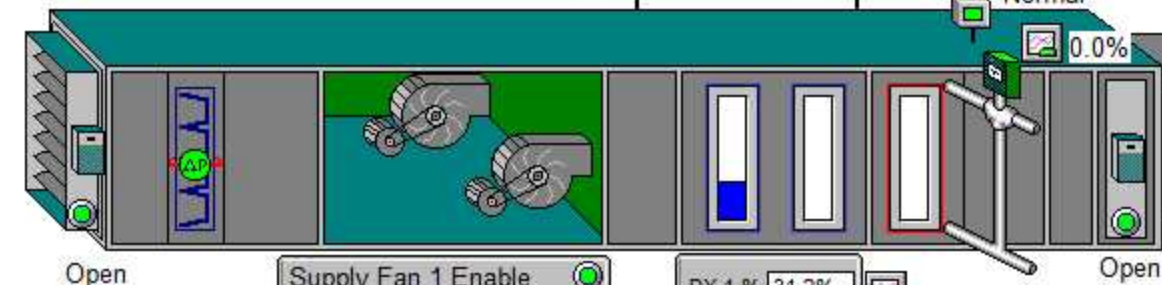
14.1°C

Frost Stat Normal

0.0%

Supply Duct Temperature & Humidity

16.2°C
68.6%rh



Open

Open

Supply Fan 1 Enable
Supply Fan 2 Enable
Supply Fan 1 Fault
Supply Fan 2 Fault

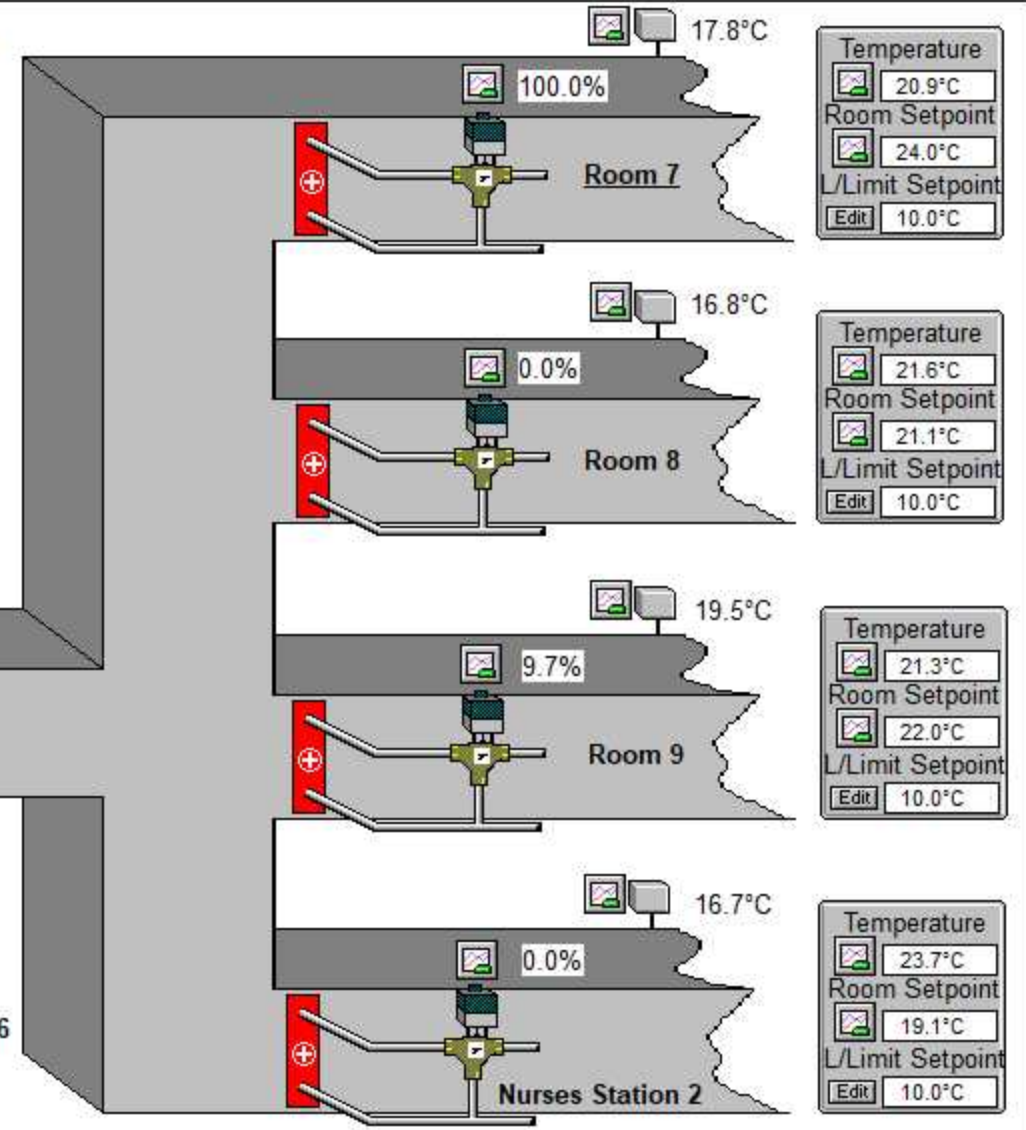
Fan1 Speed Output 79.0%
Fan 2 Speed Output 60.0%

DX 1 % 31.2%
DX 2 % 0.0%
DX Unit Fault Status

196.6Pa
Air Flow Reading

Reheats 13 to 16

MORE



17.8°C

100.0%

Room 7

Temperature
20.9°C
Room Setpoint
24.0°C
L/Limit Setpoint
10.0°C

16.8°C

0.0%

Room 8

Temperature
21.6°C
Room Setpoint
21.1°C
L/Limit Setpoint
10.0°C

19.5°C

9.7%

Room 9

Temperature
21.3°C
Room Setpoint
22.0°C
L/Limit Setpoint
10.0°C

16.7°C

0.0%

Nurses Station 2

Temperature
23.7°C
Room Setpoint
19.1°C
L/Limit Setpoint
10.0°C



Main
Menu

Rotunda Hospital - DELIVERY AHU 3 & Reheats 5 to 8.



Extract
Fans

Fire Alarm
Normal

Control Setpoint	Low Limit Setpoint	Fan 1 Speed Setpoint	Fan 2 Speed Setpoint	Time Schedule Edit
15.0°C	10.0°C	79.0%	60.0%	

Design Speed = 65%



Reheats 1 to 4

MORE

15.5°C

Cooling On Coil Temperature
Cooling Off Coil Temperature

16.8°C

14.3°C

Frost Stat Normal

0.0%

Supply Duct Temperature & Humidity

16.5°C
67.3%rh

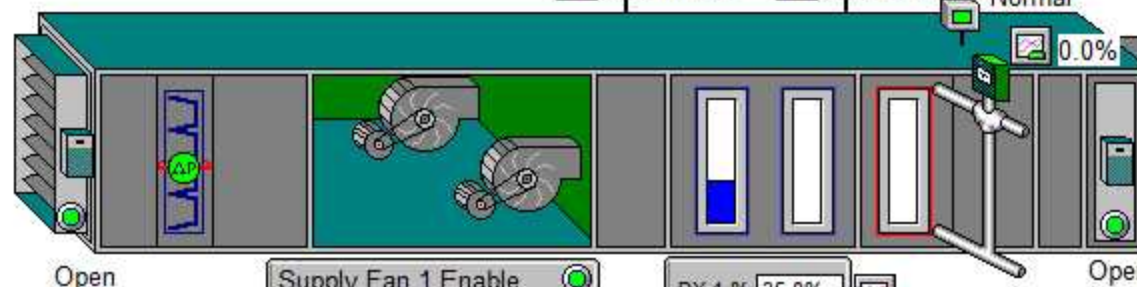
ΔP

198.4Pa

Air Flow Reading

Reheats 9 to 12

MORE



Open

Open

Supply Fan 1 Enable
Supply Fan 2 Enable
Supply Fan 1 Fault
Supply Fan 2 Fault
Fan1 Speed Output 79.0%
Fan 2 Speed Output 60.0%

DX 1 % 35.0%
DX 2 % 0.0%
DX Unit Fault Status

25.3°C

59.1%

Room 3

16.9°C

0.0%

Room 4

23.5°C

100.0%

Room 5

19.4°C

100.0%

Room 6

Temperature
24.3°C
Room Setpoint
23.8°C
L/Limit Setpoint
10.0°C
Edit

Temperature
22.6°C
Room Setpoint
18.7°C
L/Limit Setpoint
10.0°C
Edit

Temperature
23.6°C
Room Setpoint
24.0°C
L/Limit Setpoint
10.0°C
Edit

Temperature
20.8°C
Room Setpoint
24.0°C
L/Limit Setpoint
10.0°C
Edit



Main
Menu

Rotunda Hospital - DELIVERY AHU 3 Extract Fan & UPS Hydrogen Extract Fan



AHU 03

Fire Alarm



Normal

Enabled By
AHU 3 Time
Schedule

Time Schedule

On

Extract Fan EF 03

EF-03 Enable

EF-03 Fault

Fan Speed

90.0%

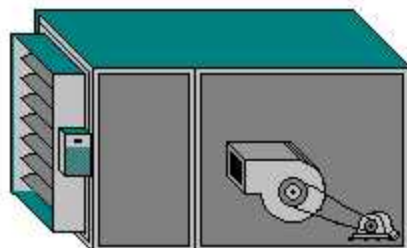
Fan Speed Setpoint

90.0%

Flow Rate

197.5Pa

Design Speed = 100%



EF Time
Schedule

Time Schedule

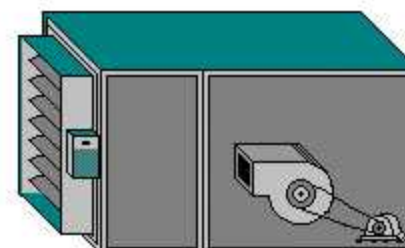
On

Hydrogen Extract Fan

EF Enable

EF Fault

Local Speed Control





Main
Menu

Rotunda Hospital - DELIVERY SUITE Alarms



DELIVERY SUITE UPS Unit 1 Overload Shutdown	DELIVERY SUITE IPS Unit 1 Run Status	DELIVERY SUITE UPS Unit 2 Overload Shutdown	DELIVERY SUITE IPS Unit 2 Run Status	DELIVERY SUITE ROOM 5 IPS Unit Status			
DELIVERY SUITE UPS Unit 1 Bypass Switch Status	DELIVERY SUITE IPS Unit 1 Fault	DELIVERY SUITE UPS Unit 2 Bypass Switch Status	DELIVERY SUITE IPS Unit 2 Fault	DELIVERY SUITE ROOM 5 IPS Unit Fault			
DELIVERY SUITE UPS Unit 1 Emergency Off	DELIVERY SUITE IPS Unit 1 Input Power Failure	DELIVERY SUITE UPS Unit 2 Emergency Off	DELIVERY SUITE IPS Unit 2 Input Power Failure	DELIVERY SUITE EDS Insulation System 1Fault			
DELIVERY SUITE UPS Unit 1 Equipment Over Temperature		DELIVERY SUITE UPS Unit 2 Equipment Over Temperature		DELIVERY SUITE Fire / Smoke Damper Panel Fault			
DELIVERY SUITE UPS Unit 1 Low Battery		DELIVERY SUITE UPS Unit 2 Low Battery		DELIVERY SUITE Leak Detection Panel Fault			
DELIVERY SUITE UPS Unit 1 Battery Discharge		DELIVERY SUITE UPS Unit 2 Battery Discharge					



Main
Menu

Rotunda Hospital - THEATRE AHU 01 & Reheats



Extract
Fan

Pre Heat Setpoint	Control Setpoint	Low Limit Setpoint	SAF Speed Setpoint	Time Schedule Edit
10.0°C	18.0°C	16.0°C	75.0%	

Design Speed = 75%

MORE
Extra Reheats

15.5°C

Pre Heat Off Coil Temperature & Humidity: 19.6°C, 58.8%rh

Cooling On Coil Temperature: 17.7°C

Cooling Off Coil Temperature: 17.4°C

Supply Duct Temperature & Humidity: 16.3°C, 64.4%rh

Frost Stat Normal

0.0%

100.0%

Open

Supply Fan Enable:

Supply Fan Fault:

Fan Speed Output: 75.0%

Air Flow Reading: 708.5Pa

DX1 Fault:

DX2 Fault:

DX1 %: 0.0%

DX2 %: 0.0%

Open

Normal Supply Duct Pressure Switch

18.1°C

Theatre Room Reheat A

/Limit Setpoint
Edit 22.0°C

Temperature & Humidity
Theatre 01 Wall Sensor

Temperature: 22.3°C

Humidity: 67.0%rh

Room Setpoint: 22.0°C

28.6°C

Theatre Room Reheat B

/Limit Setpoint
Edit 22.0°C

AHU 01 Setback Mode Switch: Off

Fire Alarm / Damper Panel Interlock: Normal



Main
Menu

Rotunda Hospital - THEATRE AHU 01 Extract Fan



AHU 01

Enabled By
AHU 1 Time
Schedule

Time Schedule

Edit

On

Extract Fan EF 01

EF-01 Enable

EF-01 Fault

Fan Speed

50.0%

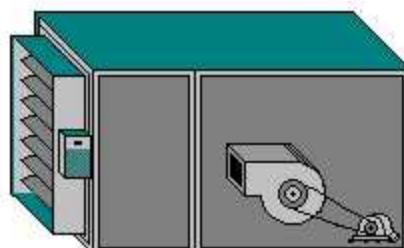
Fan Speed Setpoint

Edit 50.0%

Flow Rate

11.2Pa

Design Speed = 20%



AHU 01 Setback Switch

Off



Fire Alarm / Damper Panel Interlock

Normal



Main Menu

Rotunda Hospital - MCC01 Alarms



 AHU 01 Panel Leak Detection	 EDS Insulation Fault Monitoring System 1	 Static Inverter Status	 IDM IPS Alarm Panel 1	 Theatre 1 Lamp Control Panel Fault Status	 Fire Alarm Interlock	 UPS A Active / Normal	
 AHU 02 Panel Leak Detection	 EDS Insulation Fault Monitoring System 2		 IDM IPS Alarm Panel 2	 Theatre 2 Lamp Control Panel Fault Status	 Medical Gas Alarm Panel Status	 UPS A Fault Status	
 AHU 04 Panel Leak Detection	 EDS Insulation Fault Monitoring System 3				 Lighting Controls Status	 UPS B Active / Normal	
					 Fire Damper Panel Status	 UPS B Fault Status	
							
							



Main
Menu

Rotunda Hospital - THEATRE AHU 02 & Reheats



Extract
Fan

Pre Heat Setpoint	Control Setpoint	Low Limit Setpoint	SAF Speed Setpoint	Time Schedule Edit
17.0°C	16.0°C	8.0°C	70.0%	

Design Speed = 70%

15.6°C

Pre Heat Off Coil Temperature & Humidity: 18.0°C, 60.1%rh

Cooling On Coil Temperature: 18.4°C

Cooling Off Coil Temperature: 17.7°C

Supply Duct Temperature & Humidity: 16.5°C, 65.5%rh

Frost Stat Normal

0.0%

0.0%

Open

Supply Fan Enable:

Supply Fan Fault:

Fan Speed Output: 70.0%

Air Flow Reading: 426.6Pa

DX1 Fault:

DX2 Fault:

DX1 %: 0.0%

DX2 %: 0.0%

Open

Normal Supply Duct Pressure Switch

AHU 02 Setback Mode Switch: Off

Fire Alarm / Damper Panel Interlock: Normal

28.9°C

0.0%

Theatre Room

Limit Setpoint: 10.0°C

Temperature & Humidity Theatre 02 Wall Sensor

Temperature: 22.0°C

Humidity: 49.4%rh

Room Setpoint: 18.0°C

17.0°C

0.0%

Prep Room

Temperature: 18.3°C

Room Setpoint: 18.2°C

Limit Setpoint: 12.0°C



Main
Menu

Rotunda Hospital - THEATRE AHU 02 Extract Fan



AHU 02

Enabled By
AHU 2 Time
Schedule

Time Schedule

On

Extract Fan EF 02

EF-02 Enable

EF-02 Fault

Fan Speed

70.0%

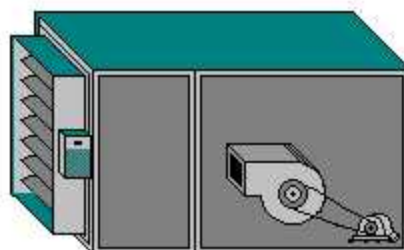
Fan Speed Setpoint

70.0%

Flow Rate

170.4Pa

Design Speed = 49%



AHU 02 Setback Switch

Off



Fire Alarm / Damper Panel Interlock

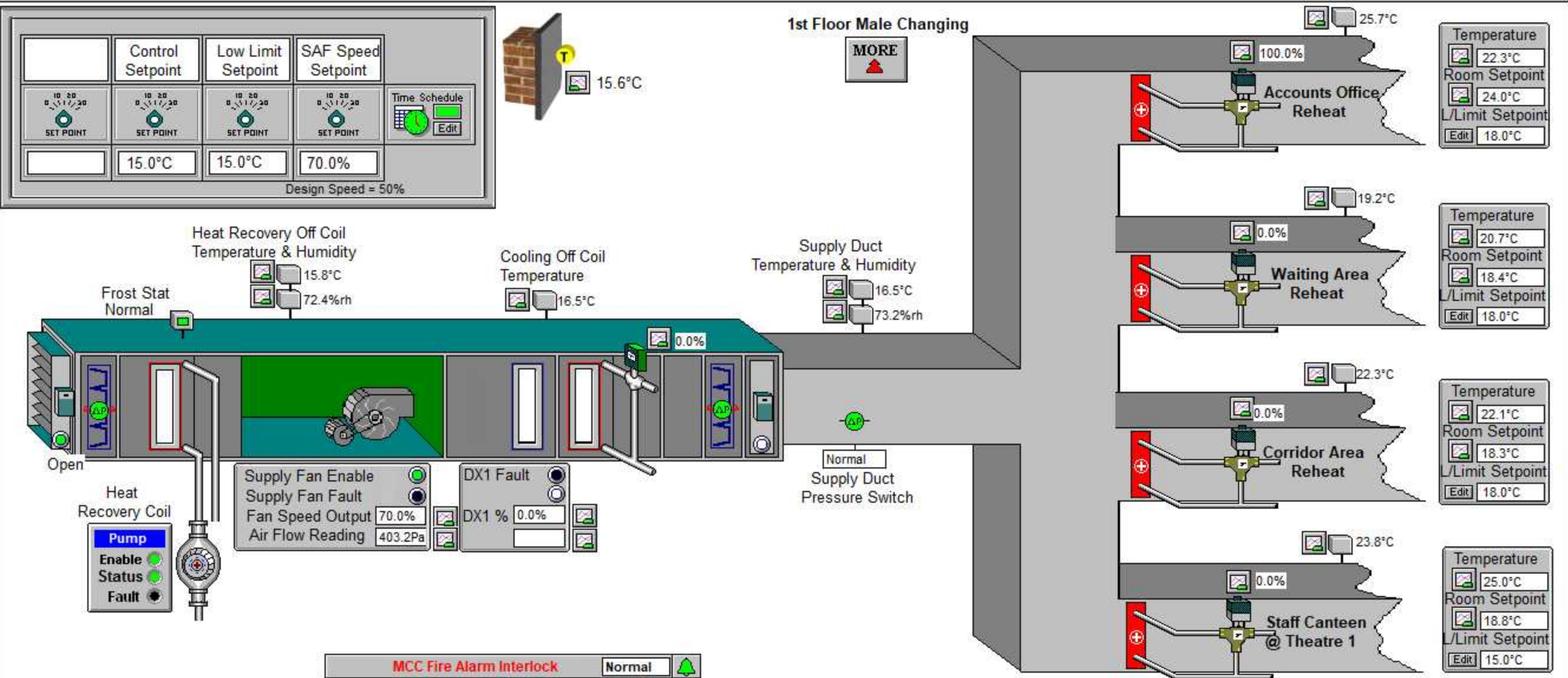
Normal



Main Menu

Rotunda Hospital - GROUND FLOOR AHU 04 & Reheats

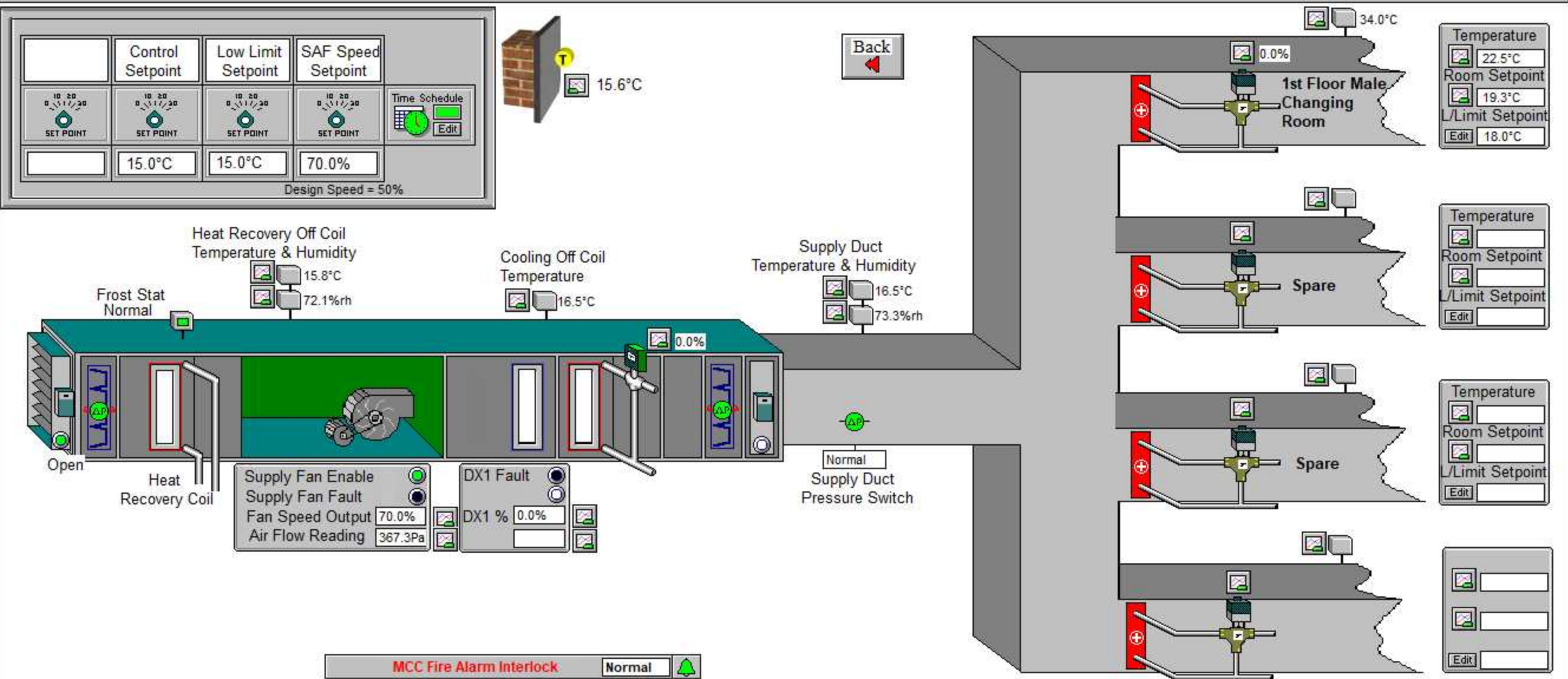
Extract Fan



Main Menu

Rotunda Hospital - GROUND FLOOR AHU 04 & Reheats

Extract Fan





AHU 04

The diagram illustrates a Heat Recovery Unit (AHU) with the following components and controls:

- Extract Air Temperature:** A sensor on the right side of the unit, showing a reading of 21.5°C.
- Internal Components:** A central green section contains a fan and a heat recovery coil. A red box highlights a control panel on the left side of the unit.
- Open:** A label indicating the unit's status.
- Heat Recovery Coil:** A label for the coil located inside the unit.
- Pump Control Panel:** A panel with the following indicators:
 - Pump:** A blue button.
 - Enable:** A green indicator light.
 - Status:** A green indicator light.
 - Fault:** A black indicator light.
- Control Panel:** A panel with the following displays:
 - R/Fan AHU-04 Enable:** A green indicator light.
 - R/Fan AHU-04 Fault:** A black indicator light.
 - Fan Speed Output:** A display showing 70.0%.
 - Air Flow Reading:** A display showing 10.2Pa.

Heat Recovery Pump Operation

1. Airflow established on both fans.
2. O/S temperature below 16.0 Deg C
3. Extract air temperature 3.0 Deg C above supply a
4. Minimum on time 5 minutes.

Normal



- Heat Recovery Pump Operation**
1. Airflow established on both fans.
 2. O/S temperature below 16.0 Deg C
 3. Extract air temperature 3.0 Deg C above supply air temperature.
 4. Minimum on time 5 minutes.



Main
Menu

Rotunda Hospital - ANNEX ROOFTOP AHU 5 Extract Fans



AHU 05

Fire Alarm



Normal

Enabled By
AHU 5 Time
Schedule

Time Schedule

Normal

Extract Fan EF 05

EF-05 Enable ☒

EF-05 Fault ☒

Fan Speed

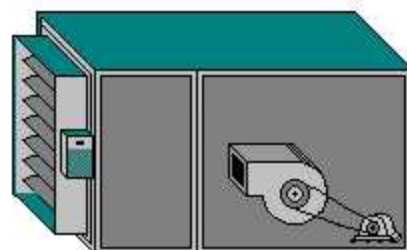
0.0%

Fan Speed Setpoint

50.0%

Flow Rate

7.0Pa



EF Time
Schedule

Time Schedule

Off

**Extract Fan EF 08
Tea Station**

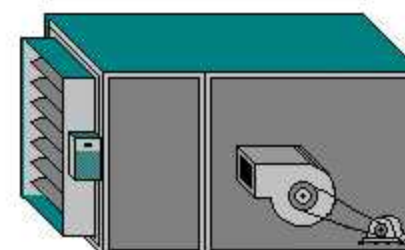
EF Enable ☒

EF Fault ☒

Fan Speed

0.0%

85.0%





Main
Menu

Rotunda Hospital - ANNEX ROOFTOP Alarms & Monitoring



AHU 05

Fire Alarm

Normal

UPS Room Monitoring

Room Temperature

20.7°C

Alarm Set Point

Edit
25.0°C

Room Humidity

38.7%rh

Alarm Set Point

Edit
75.0%rh

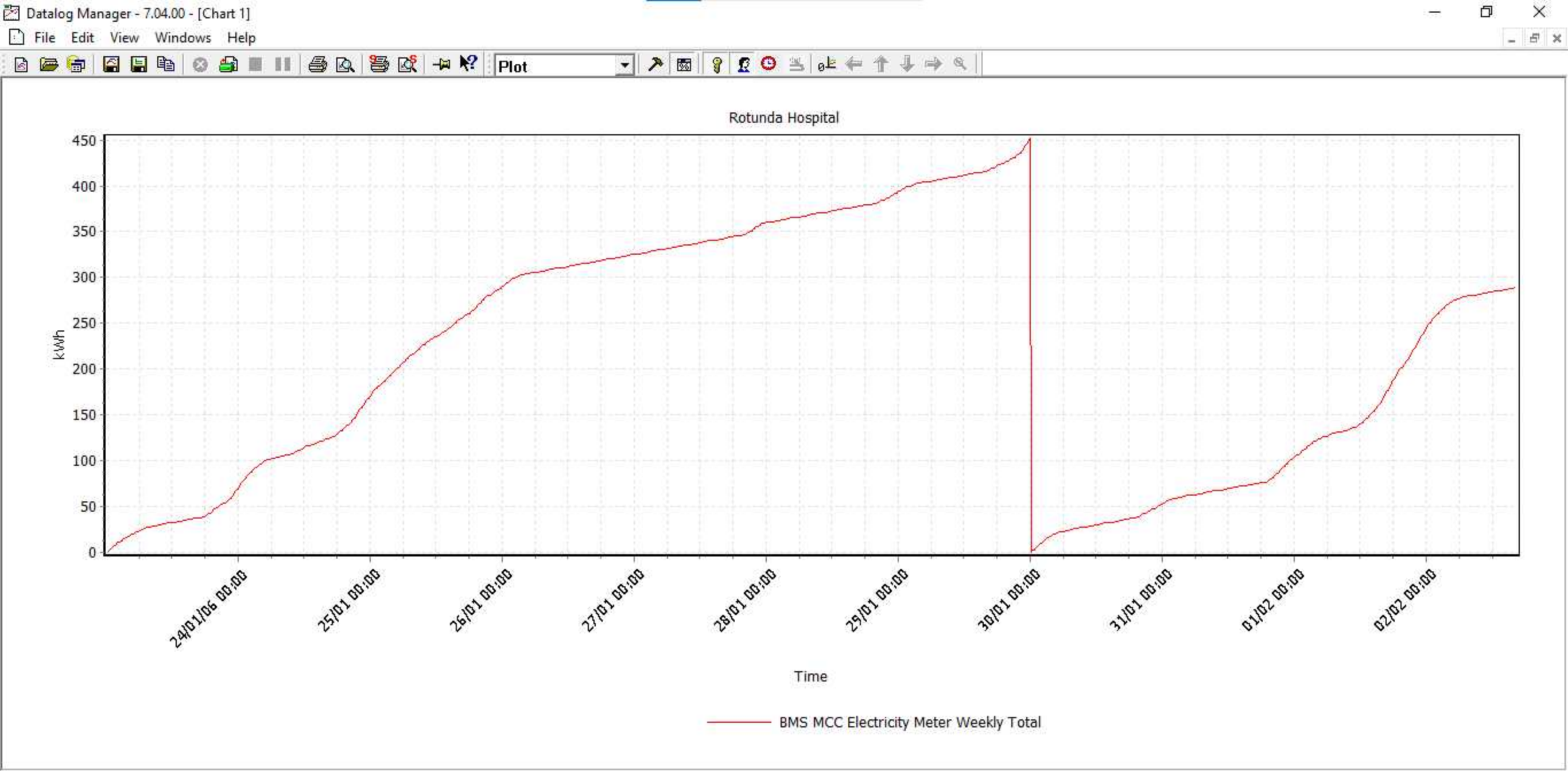
Meeting Room A/C Unit

Status Off

662442.0kWh

Daily	582082.0kWh	
Weekly	289.0kWh	
Monthly	582082.0kWh	
Yearly	582082.0kWh	
Total	662442.0kWh	

BMS MCC Electricity Meter



Datalog Name	Maximum V...	Time of Maximum	Minimum Va...	Time of Minimum	Average Value
BMS MCC Electricity Meter We...	452.00	00:00:00 30/01/2006	0.000	00:15:00 30/01/2006	212.63