



LEGENDS / ABBREVIATIONS:			
<b>CONSTRUCTION DETAILS</b>			
Type of unit	: Double skin floor mounted air handling unit.		
Frame structure	: Extruded Aluminium thermal break profile.		
Panels	: 45 mm Thick double skin with PUF.		
Inner skin	: 24 SWG plain G.I.		
Outer skin	: 24 SWG Precoated G.I.		
Insulation	: PUF density 40 Kg/Cu.m.		
Skid	: ISMC 100		
Dampers	: Opposed Blade		
Drain Pan	: 1.2 mm Thick S.S 304 with 19mm thick insulation		
Colour	: White (RAL 9002)		
<b>TECHNICAL SPECIFICATION</b>			
Unit Capacity	: 4000 cfm		
Total Static Pr.	: 175 mm Wc		
Supply Air	: 4000 cfm		
<b>FAN</b>			
Make	: Nicotra/Ziehl abegg		
Model	: Model		
Fan Dia	: 450 mm		
Speed	: 2732 RPM		
Power	: 4.38 Kw		
<b>MOTOR</b>			
Capacity	: 7.5 KW(10.0 HP-2 Pole)		
: 3 Ph. Sq.cage in Non-FLP Construction.			
Make	: Crompton/ABB or equivalent		
Speed	: 2900 RPM		
<b>FRESH AIR FILTER</b>			
Size & Qty	: 610x305x305mm-1 No.		
Type	: Flange type		
Grade	: G4		
Avg. Arrestance	: 90 ≤ Am		
<b>REACTION AIR FILTER</b>			
Size & Qty	: 610x610x305mm-2 Nos.		
Type	: Flange type		
Grade	: G4		
Avg. Arrestance	: 90 ≤ Am		
<b>PRE FILTER</b>			
Size & Qty	: 610x610x305mm-2 Nos.		
Type	: Flange type		
Grade	: M5		
Avg Eff at 0.4 Micron	: 80qEm<90		
<b>BLEED AIR FILTER</b>			
Size & Qty	: 610x305x305mm-1 No.		
Type	: Flange type		
Grade	: F9		
Avg. Arrestance	: 95 ≤ Em		
<b>FINE FILTER</b>			
Size & Qty	: 610x610x305mm-2 Nos.		
Type	: Flange type		
Grade	: F7		
Avg Eff at 0.4 Micron	: 80qEm<90		
<b>COOLING COIL - Chilled water</b>			
Fin Spacing	: 12 F.P.I for Coil		
Coil Face Area	: 45"(L) X 26.25"(H)		
Coil Face Area	: 8.0 Sft		
No. of Rows	: 6 Row Deep		
Header size	: 50mm		
<b>FRESH AIR COOLING COIL - Chilled water</b>			
Fin Spacing	: 12 F.P.I for Coil		
Coil Face Area	: 24"(L) X 12"(H)		
Coil Face Area	: 2.0 Sft		
No. of Rows	: 8 Row Deep		
Header size	: 50mm		
<b>HEATING COIL - Hot Water</b>			
Fin Spacing	: 10 F.P.I for Coil		
Coil Face Area	: 45"(L) X 26.25"(H)		
Coil Face Area	: 8.0 Sft		
No. of Rows	: 2 Row Deep		
Header size	: 25mm		
<b>DEHUMIDIFIER TECHNICAL SPECIFICATION:</b>			
Make	: PE	Make	: PHARMA ENGINEERS
Model	: PE-2500	RPH	: 12-18 RPH
Wheel dia	: 950 mm	Make	: Bonvario
Process flow	: 2500 cfm	Make	: Bonvario
Reactivation flow	: 1250 cfm	RPM	: 3 to 6 rpm
<b>REACTION FAN</b>		<b>REACTION MOTOR</b>	
Make	: Rosenberg	Make	: CG/ABB
Fan dia	: 250 mm	Rating	: 0.75 Kw
		R.P.M	: 2900 RPM
<b>REACTION STEAM COIL</b>		<b>ELECTRICAL HEATERS(25%)</b>	
Size	: 18"(H)x36"(L)-2Nos.	Heating capacity	: 13 Kw
No. of rows	: 2 rows	Voltage/phase/Hz	: 415/3/50
Steam consumption	: 122 Kg/hr		



<b>FIRE DAMPER ACTUATOR</b>	<b>DIFFERENTIAL PRESSURE TRANSMITTER</b>	<b>CHILLED WATER CONTROL VALVE</b>	<b>TEMPERATURE &amp; RH SENSOR</b>	<b>HMI (HUMAN MACHINE INTERFACE)</b>
Make : Belimo	Make : OMICRON	Make : Belimo	Make : Omicron	Make : Mitsubishi
Model : NFA-S2	Model : M112-A-N	Model : H2N32210	Model : H2N32210	Type : GS21 Series
Location : Return air duct	Measuring range : 0-2500 Pa	Location : Return air damper	Location : Return air damper	Model : GS21107-WTBD
Torque : 10Nm	Location : AHU Blower	Location : Chilled Water Manifold Return Line	<b>SMOKE SENSOR</b>	Location : In AHU Body
<b>DIFFERENTIAL PRESSURE SWITCH</b>	<b>VARIABLE FREQUENCY DRIVE</b>	<b>HOT WATER CONTROL VALVE</b>	Make : Chandra control's	
Make : OMICRON	Make : Danfoss	Make : Belimo	Model : CCSD1019	
Measuring range : 50-500Pa	Model : FC-051	Model : EV040R+BAC	Location : Mixing Chamber	
Location : AHU Filters	Frequency : 50/60Hz	Size : 40NB		
	Location : In HVAC Control Panel	Location : Hot Water Manifold Return Line		

**CLIENT: SUGGESTIVE DRAWING**

**PROJECT:**

**PHARMA ENGINEERS**  
 Plot No. 113/A/1, lane No.8, Phase-2 IDA,Cherlapally  
 TEL-040-2726113, FAX-040-2726114

**TITLE: GA DRAWING OF AHU CUM DEHUMIDIFIER, 4000 CFM** Dr. No. PR/12/09

DRN BY	CHK BY	APPD BY	DATE	SCALE	REV.
YVK		PR	05.04.23		RO