



LEGEND / ABBREVIATION:

CONSTRUCTION DETAILS

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	: MS CHANEL - 100X40X6mm
Dampers	: Opposed Blade
Drain Pan	: 1.2 mm Thick S.S 304 with 19mm thick insulation
Colour	: White (RAL 9002)

TECHNICAL SPECIFICATION

Unit Capacity	: 4000
Total Static Pr.	: 150 mm Wc
Supply Air	: 4000

FAN

Make	: Nicotra/Ziehl abegg
Fan Dia	: 400 mm
Speed	: 3061 RPM
Power	: 3.6 Kw

MOTOR

Capacity	: 5.5 KW(7.5 HP-2 Pole)
	: 3 Ph. Sq.cage in Non-FLP Construction.

Make

Make	: Crompton/ABB or equivalent
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Speed

Speed	: 2900 RPM
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FRESH AIR FILTER

Size & Qty	: 610x305x50mm-1 No.
Type	: Flange type

Grade

Grade	: G4
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Avg. Arrestance

Avg. Arrestance	: 90 μm
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PRE FILTER

Size & Qty	: 610x610x305mm-2 Nos.
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Type

Type	: Flange type
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Grade

Grade	: M5
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Avg Eff at 0.4 Micron

Avg Eff at 0.4 Micron	: 40 μm
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BLEED AIR FILTER

Size & Qty	: 610x305x305mm-1 No.
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Type

Type	: Flange type
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Grade

Grade	: F9
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Avg. Arrestance

Avg. Arrestance	: 95 μm
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FINE FILTER

Size & Qty	: 610x610x305mm-2 Nos.
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Type

Type	: Flange type
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Grade

Grade	: F7
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Avg Eff at 0.4 Micron

Avg Eff at 0.4 Micron	: 80 μm
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COOLING COIL - Chilled water

Fin Spacing	: 12 F.P.I for Coil
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Coil Size	: 45"(L)X26.25"(H)
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Coil Face Area	: 8.2 Sft
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No.of Rows	: 6 Row Deep
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Header size	: 40mm
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HEATING COIL - Hot Water

Fin Spacing	: 10 F.P.I for Coil
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Coil Size	: 45"(L) X 26.25"(H)
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Coil Face Area	: 8.2 Sft
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No.of Rows	: 2 Row Deep
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Header size	: 25mm
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FIRE DAMPER ACTUATOR Make : Belimo Model : NFA-S2 Location : Return air duct Torque : 10Nm	DIFFERENTIAL PRESSURE TRANSMITTER Make : OMICRON Model : M112-A-N Measuring range : 0-2500 Pa Location : AHU Blower	CHILLED WATER CONTROL VALVE Make : Belimo Model : EV050R+BAC-N Size : 65NB Location : Chilled Water Manifold Return Line	TEMPERATURE & RH SENSOR Make : Omicron Model : H2N32210 Location : Return air damper	HMI (HUMAN MACHINE INTERFACE) Make : Mitsubishi Type : GS2T Series Model : GS21107-WTBD Location : In AHU Body
DIFFERENTIAL PRESSURE SWITCH Make : OMICRON Measuring range : 50-500Pa Location : AHU Filters	VARIABLE FREQUENCY DRIVE Make : Danfoss Model : FC-051 Frequency : 50/60Hz Location : In HVAC Control Panel	HOT WATER CONTROL VALVE Make : Belimo Model : EV040R+BAC Size : 40NB Location : Hot Water Manifold Return Line	SMOKE SENSOR Make : Chandra control's Model : CCCSD1019 Location : Mixing Chamber	

CLIENT: SUGGESTIVE DRAWING

PROJECT:



PHARMA ENGINEERS

Plot No. 113/A/1, lane No.8, Phase-2 IDA,Cherlapally
TEL-040-2726113, FAX-040-27261114

**TITLE: GA DRAWING FOR
AHU, 4000 CFM**

**Dr. No.
PE/RF/08**

DRN BY	CHK BY	APPD BY	DATE	SCALE	REV.
YVK		PR	05.04.24	NTS	RO