



INSTALLATION QUALIFICATION PROTOCOL FOR FILTER DRYING BOOTH

CUSTOMER:

EQUIPMENT: FILTER DRYING BOOTH

SUBMITTED BY:

PHARMA ENGINEERS

PLOT NO. 113/A/1, LANE 8, PHASE II,
IDA CHERLAPALLI, HYDERABAD- 500051.

Tel No.91-40 27261113, 27261114

INSTALLATION QUALIFICATION PROTOCOL APPROVAL

This document is prepared by the documentation team of **M/S. PHARMA ENGINEERS** for

EQUIPMENT : _____

PLANT /PROJECT :

CLIENT :

Hence this document before being effective shall be approved by **Client / Customer**

M/s. PHARMA ENGINEERS:

	Name	Designation	Signature	Date
Prepared By				
Reviewed By				

CLIENT / CUSTOMER:

	Name	Designation	Signature	Date
Reviewed By				
Approved By				

Client:

Supplier/ Manufacturer: PHARMA ENGINEERS, HYDERABAD

Equipment: FILTER DRYING BOOTH

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INSTALLATION QUALIFICATION (IQ)

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MASTER DOCUMENT

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1. OBJECTIVE

The objective of this document is to verify that the Filter Drying Booth (TAG NO) is installed with due considerations specified in DQ of Filter Drying Booth (TAG NO).

2. RESPONSIBILITIES

M/s. Pharma Engineers:

1. To install the system as per the specifications.
2. To provide the necessary test certificates as per technical specifications specified in DQ.
3. To Complete the equipment qualification.



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3. SCOPE OF SUPPLY OF COMPONENTS:**PURPOSE**

This test is to verify that the equipment dimensions, position and sizes of utility connections are in compliance with the design qualification and also with as-built drawing.

PRE-REQUISITES

1. As built drawing
2. Measuring tape
3. Approved Design Qualification Document

TEST METHOD

1. Physically check the dimension of the Equipment in length, width, and height and confirm with design document.
2. Physically check and confirm that the dampers are marked with air flow direction and marking was mentioned for the quantity adjustment.
3. Physically check and confirm that required indications are mentioned on the Equipment like blower section, filter section, coil section.
4. Physically check and confirm the drain slope being maintained.
5. Deviations or remarks may be documented along with summary of all test results

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INSTALLATION QUALIFICATION (IQ)**COMPONENT VERIFICATION:**

SR.NO.	DESCRIPTION	SPECIFICATIONS AS PER DESIGN QUALIFICATION	CRITERIA FULFILLED (YES / NO)
1.	CONSTRUCTION DETAILS:		
	Equipment TAG Number		
	Unit Serial Number		
	Manufacturers name	M/s Pharma Engineers	
	Qty	01 No.	
	Overall dimensions (L X W X H) (MM)	2870x2105x1700	
	M.O.C of Frame work	Aluminum Extruded Profile	
	Plenums Outer skin(MM)	0.6 mm PP GS sheet.	
	Plenums Inner skin(MM)	0.6 mm PP GS sheet.	
	M.O.C of Base of the unit	14G G.S Sheet Plain	
	2.	BLOWER DETAILS	
Make		EBM PAPST INDIA PRIVATE LIMITED	
Serial Number			
Model		D4E 180-CA02-02	
R.P.M		1200 RPM	
Qty		6 No	
3.	FILTRATION SCHEME WITH IN EQUIPMENT		
	FILTRATION DETAILS		
	Make	AAF	
	Type of filter	COMBINATION FILTER	
	Test method	EN 779	
	Filter classification as per EN 779	G-4 +F-7	
	Average efficiency	$90 \leq Am + 80 \leq Em < 90$	

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SR.NO.	DESCRIPTION	SPECIFICATIONS AS PER DESIGN QUALIFICATION	CRITERIA FULFILLED (YES / NO)
	Media MOC	Synthetic	
	Washable compatibility	Yes	
	Equivalent particle size in terms of market language	10 micron + 3 micron (un authenticated data)	
	Size	610 x 610 x 355.	
	Qty	1 no's	
	Serial Number		
	Size	610 x 305 x 355	
	Qty	1 no's	
	Serial Number		
	HOT WATER COIL		
	Manufacturers name	M/s Hyderabad Coils Pvt. Ltd	
	Quantity	1 No.	
	Fluid	Hot water	
4.	Coil size (fin ht. x fin Length)	48 " x 72 "	
	No. of Rows	2	
	Tube MOC	Copper	
	Fins MOC	Aluminum	
	DETAILS OF VOLUME CONTROL DAMPERS		
	Make	Pharma Engineers / Srivin Air Tech / System air	
	MOC	Aluminum extruded aero foil design	
5.	Fresh Air Damper Size	865 x 550	
	Qty	1 no's	
	Recirculation / Return Air Damper Size	700 x 500	
	Qty	1 no's.	

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INSTALLATION QUALIFICATION (IQ)

SR.NO.	DESCRIPTION	SPECIFICATIONS AS PER DESIGN QUALIFICATION	CRITERIA FULFILLED (YES / NO)
	Exhaust air Damper Size	700 x 500	
	Qty	1 no's.	
	ACTUATORS FOR DAMPERS		
6.	Make	M/S. Belimo	
	Model	NFA-S2	
	Qty	3 No's	
	Location	Return Air Duct, Exhaust Air Duct, Fresh Air Duct	
	HOT WATER CONTROL VALVE WITH ACTUATOR		
7.	Make	Siemens	
	Model Number		
	Actuator Model Number		
	Size	32 mm	
	Qty	1no.	
	BALL VALVES		
8.	Make	L&T	
	Size	32 mm	
	Qty	1 Nos.	
	STRAINER		
9.	Make	Creative /Zoloto	
	Size	32 mm	
	Qty	1No.	
	PID CONTROLLER		
10.	Make	Honey well	
	Model	DC 1010	
	Input	4-20 mA	

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INSTALLATION QUALIFICATION (IQ)

SR.NO.	DESCRIPTION	SPECIFICATIONS AS PER DESIGN QUALIFICATION	CRITERIA FULFILLED (YES / NO)
	Out put	0-10 mA	
	Control mode	PID	
	Power Supply	85-260V AC 50/60Hz 4VA	
	Location	Control Panel Door	
11.	INSTRUMENTATION DETAILS		
	SENSOR DETAILS		
	TEMPERATURE SENSOR		
	Make	Radix	
	Model		
	Type		
	Range		
	Location		
	Qty	01 No's	
	Serial Number		

ACCEPTANCE CRITERIA

Dimensions and supply connections of the system should comply with DQ document and as built drawings.

However, the acceptance is up to the judgment of experts if any deviations in the readings

REMARKS (IF ANY):

Test Conducted By

Test Witnessed By

Client:

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INSTALLATION QUALIFICATION (IQ)

4. VERIFICATION OF CALIBRATION OF INSTRUMENTS

S.no.	Instrument Type	Location	Instrument Tag Number	Calibrated on	Calibration Due
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					

REMARKS (IF ANY):

Submitted By

Checked By

Client:

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INSTALLATION QUALIFICATION (IQ)

5. LIST OF DRAWINGS AND DOCUMENTS ENCLOSED

S.No	Drawing Name	Enclosed (Yes/No)
1.	Testing Certificate For Filter Drying Booth	
2.	Testing Certificate For Blower	
3.	Testing Certificates For Filters	
4.	Testing Certificate For Hot Water Coil	
5.	Testing Certificate For Volume Control Damper	
6.	Testing Certificate For Actuator For Damper	
7.	Testing Certificate for Hot Water Manifold and All Related Fitting And Accessories	
8.	Testing Certificates For Actuators For Control Valves	
9.	Testing Certificates For Control Panel	
10.	Calibration Certificate For Temperature Sensor	

REMARKS (IF ANY):

Submitted By

Checked By