Sampling & Dispensing Lsolator

10 Door Interlock EML system (Electromagnetic Lock)

Drive, system integrated with "Containment System"



GroyneTech (GT) Negative Pressure Control Isolator for Dispensing/Sampling & Packing process of operation, (Air Cleanness level – ISO Class – 8 @ rest in normal operation) with Recovery Cycle / Night Mode Cycle Programmed provides personnel, environmental and product protection.

Air flow is "Once through System", with a set of filter (PRE, 10Micron + HEPA, 0.3Micron) at inlet & a set of filter (PRE, 10Micron + HEPA, 0.3Micron) at outlet.

"GT-NPCI" are placed in dedicated area, for dispensing / Sampling & Packing of product & its charging as per user SOP, without effecting the balancing of respective zone. Containment free product transfer.

sor, without effecting the balancing of respective zone, contaminent free product transfer.
Sr. No. Title Catalogues Test/ Conformity Certificate Calibration certificate M.O.C
1 Gloves (Hypalon) $\sqrt{}$
2 Food Grade Gasket √
3 Differential Pressure transmitter $\sqrt{}$
4 Temp. & RH Sensor $\sqrt{}$
5 Centrifugal Blower System $\sqrt{}$
6 Magnehlic Gauges √
7 Supply HEPA Filter √
8 Exhaust HEPA Filter √
9 Fine Pre - Filter $$
10 PLC Control System
11 FLP / NFLPLight for ISOLATOR √
12 Containment Valve "Split Butterfly Valve" √
13 FLP / NFLP Panel for respective ISOLATOR √
14 FLP / NFLP Motor for ISOLATOR √
15 Material of construction √ √
MECHANICAL DESGIN CRITERIA
Sr No Design CriteriaSpecification
1 Material of Construction Contact Part: SS316L.
Non-Contact Part: SS304.
2 Surface finish Inside - Mirror Finish & Outside - Matt Finish Base & side wall surface roughness will be similar with rounded corners
3 Coved Corners of chamber Rounded to radius of 12.5mm
4 Base Stand SS 304 Square Pipe.
5 Doors Made of toughened safety glass & 10mm thickness, comply with IS-2553; Seals will be of inflatable gasket type.
6 Gloves Hypalon, Gloves,15mil.thick,32"long Comply to ISO 11933-2
7 Glove Port Groyne Tech Make, MOC: PP, Comply to ISO 11933-1
8 HEPA Filters @ Inlet & Exhaust with DOP Port Confirms to H14 class, 0.3 micron
9 Fine - Pre Filter @ Exhaust Fine Filter of 10 micron
10 Manual Butterfly Valve 4" Manual Butterfly Valve @ Inlet & Exhaust Point.
11 Catch Pot20 Liters Catch Pot for waste water collection after cleaning of chamber 12 Spray Gun with Silicone Tube Inside Working Chamber of respective ISOLATOR & GLOVE BOX
13 Leak Rate of Containment System Class IV - category as per ISO - 10648 - Part - II
Subjected: to equipment base plate leak proof.
14 Negative Working Pressure -30 to - 60 Pascal (As per Application Require).
15 Containment Valve Port Connection Stainless Steel - 316 for contact part & Stainless Steel - 304 for non-contact part
16 Utility points Each chamber will have two numbers ½" TC line with manual leak tight valve for integration of respective
utilities (N2 or Air & PW or WFI). To be freeze the points in respective G.A. Drawings& one number electrical leak tight connector
ELECTRICAL & INSTRUMENTATION DESGIN CRITERIA
Sr No Design Criteria Specification
1 Light Fixture Box type, FLP lamp
2 Feedthroughs Leak tight Feed Thru' with blind flanges rings & clamps.
3 Differential Pressure Transmitter) (-500pa 0 +500pa), - Sensocon make
4 Temperature & RH Sensor @ Return Duct Temperature: 0 to 50 Deg C
RH - 0 to 100%
Make: Rotronic Make
5 Variable Frequency Drive Make: Schneider
6 PLC Control System Groyne Tech Design with Schneider Make PLC & HMI
7 Switches, Emergency Stop & Buzzer Make: Tecknic & Mimic
8 FLP / NFLPBOX integrated with control circuit FLP certified BOX / NFLP
9 Potential Free contacts For integrating with respective process equipment with containment
0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

11 Centrifugal Motor Blower System With design Static of require CFM, controlled with Variable Frequency